

		-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	1	-80	-1.396263402	2.107666667	0.01779218725	0.0142337498	2.103	2.109	2.111
AYAN																2	-70	-1.221730476	2.077666667	0.02062753547	0.02062753547	2.079	2.073	2.081
#1 TOTAL	21.03	20.79	20.36	20.09	19.81	19.73	19.66	19.68	19.84	19.86	20.21	20.26	20.76	21.03	3	-60	-1.047197551	2.030333333	0.02462649811	0.02462649811	2.026	2.026	2.039	
#2 TOTAL	21.09	20.73	20.26	20.13	19.91	19.71	19.63	19.54	19.81	19.74	20.14	20.21	20.69	20.99	4	-50	-0.872664626	2.009	0.02986560478	0.02986560478	2.003	2.013	2.011	
#3 TOTAL	21.11	20.81	20.39	20.11	19.81	19.81	19.51	19.56	19.79	19.86	20.08	20.33	20.74	20.95	5	-40	-0.6981317008	1.988	0.03772635815	0.03772635815	1.992	1.991	1.981	
#1	2.103	2.079	2.026	2.003	1.992	1.973	1.966	1.968	1.984	1.986	2.021	2.026	2.076	2.103	6	-30	-0.5235987756	1.975	0.05063291139	0.05063291139	1.973	1.971	1.981	
#2	2.109	2.073	2.026	2.013	1.991	1.971	1.963	1.954	1.981	1.974	2.014	2.021	2.069	2.099	7	-20	-0.3490658504	1.96	0.07653061224	0.01530612245	1.966	1.963	1.951	
#3	2.111	2.081	2.039	2.011	1.981	1.981	1.951	1.956	1.979	1.986	2.008	2.033	2.074	2.095	8	20	0.3490658504	1.959333333	0.07655665192	0.07655665192	1.968	1.954	1.956	
AVG	2.107666	2.077666	2.030333	2.009	1.988	1.975	1.96	1.959333	1.981333	1.982	2.014333	2.026666	2.073	2.099	9	30	0.5235987756	1.981333333	0.05047106326	0.01514131898	1.984	1.981	1.979	
MIN	2.103	2.073	2.026	2.003	1.981	1.971	1.951	1.954	1.979	1.974	2.008	2.021	2.069	2.095	10	40	0.6981317008	1.982	0.03784056509	0.01513262603	1.986	1.974	1.986	
MAX	2.111	2.081	2.039	2.013	1.992	1.981	1.966	1.968	1.984	1.986	2.021	2.033	2.076	2.103	11	50	0.872664626	2.014333333	0.02978652987	0.01489326493	2.021	2.014	2.008	
RANGE	0.008	0.008	0.013	0.01	0.011	0.01	0.015	0.014	0.005	0.012	0.013	0.012	0.007	0.008	12	60	1.047197551	2.026666667	0.02467105263	0.01480263158	2.026	2.021	2.033	
S.D.	0.004163	0.004163	0.007505	0.005291	0.006082	0.005291	0.007937	0.007571	0.002516	0.006928	0.006506	0.006027	0.003605	0.004	13	70	1.221730476	2.073	0.02067397147	0.01447178003	2.076	2.069	2.074	
sqrt(3)	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	14	80	1.396263402	2.099	0.01786565031	0.01429252025	2.103	2.099	2.095	
Type A	0.002403	0.002403	0.00433	0.003055	0.003511	0.003055	0.004582	0.004371	0.001452	0.004	0.003756	0.003480	0.002081	0.002309	same person is releasing the pendulum and pressing the time, so reaction time is only considered for the stopping of the clock									
PERIOD	Type A %	0.114045	0.115692	0.118389	0.119646	0.120910	0.121706	0.122637	0.122679	0.123117	0.121276	0.119329	0.118603	0.115952	0.114516									
	Type B	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	human reaction time assumed at 0.3 seconds as per higher conservative value based on 0.25 to 0.27 mean visual human reaction time at								
PERIOD	Type B %	1.423374	1.443927	1.477589	1.493280	1.509054	1.518987	1.530612	1.531133	1.514131	1.513622	1.489326	1.480263	1.447178	1.429252	https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/visual-reaction-time								
	Type B	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	two angles measured at the smallest increment of 1 degree								
ANGLE	Type B %	1.779218	2.062753	2.462849	2.986560	3.772635	5.063291	7.653061	7.655665	5.047106	3.784056	2.978652	2.467105	2.067397	1.786565		MAX	2.107666667						
PERIOD	Highest Uncertainty	1.423374	1.443927	1.477589	1.493280	1.509054	1.518987	1.530612	1.531133	1.514131	1.513622	1.489326	1.480263	1.447178	1.429252		MIN	1.959333333						
ANGLE	Highest Uncertainty	1.779218	2.062753	2.462849	2.986560	3.772635	5.063291	7.653061	7.655665	5.047106	3.784056	2.978652	2.467105	2.067397	1.786565		VAR	0.148333333						
	Final Period	2.107666	2.077666	2.030333	2.009	1.988	1.975	1.96	1.959333	1.981333	1.982	2.014333	2.026666	2.073	2.099									
	Absolute Uncertainty	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03									
	TOP BAR	2.137666	2.107666	2.060333	2.039	2.018	2.005	1.99	1.989333	2.011333	2.012	2.044333	2.056666	2.103	2.129									
PERIOD	BOTTOM BAR	2.077666	2.047666	2.000333	1.979	1.958	1.945	1.93	1.929333	1.951333	1.952	1.984333	1.996666	2.043	2.069									
	Final Angle	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80									
	Absolute Uncertainty	1.423374	1.443927	1.477589	1.493280	1.509054	1.518987	1.530612	1.531133	1.514131	1.513622	1.489326	1.480263	1.447178	1.429252									
	RIGHT BAR	-81.42337	-71.44392	-61.47758	-51.49328	-41.50905	-31.51898	-21.53061	21.53113	31.51413	41.51362	51.48932	61.48026	71.44717	81.42925									
ANGLE	LEFT BAR	-78.57662	-68.55607	-58.52241	-48.50671	-38.49094	-28.48101	-18.46938	18.46886	28.48586	38.48637	48.51067	58.51973	68.55282	78.57074									
																1	-80	-1.396263402	2.103333333	0.01782884311	0.01426307448	2.109	2.098	2.103
LUCAS																2	-70	-1.221730476	2.068666667	0.02071727821	0.02071727821	2.069	2.066	2.071
#1 TOTAL	21.09	20.69	20.36	20.09	19.81	19.78	19.61	19.71	19.68	19.93	20.18	20.38	20.74	20.98	3	-60	-1.047197551	2.030333333	0.02462649811	0.02462649811	2.036	2.031	2.024	
#2 TOTAL	20.98	20.66	20.31	20.09	19.94	19.73	19.56	19.59	19.68	19.93	20.13	20.46	20.76	21.03	4	-50	-0.872664626	2.010666667	0.02984084881	0.02984084881	2.009	2.009	2.014	
#3 TOTAL	21.03	20.71	20.24	20.14	19.89	19.76	19.53	19.58	19.76	19.91	20.15	20.36	20.68	20.96	5	-40	-0.6981317008	1.988	0.03772635815	0.03772635815	1.981	1.994	1.989	
#1	2.109	2.069	2.036	2.009	1.981	1.978	1.961	1.971	1.968	1.993	2.018	2.038	2.074	2.098	6	-30	-0.5235987756	1.975666667	0.05061582588	0.05061582588	1.978	1.973	1.976	
#2	2.098	2.066	2.031	2.009	1.994	1.973	1.956	1.959	1.968	1.993	2.013	2.046	2.076	2.103	7	-20	-0.3490658504	1.956666667	0.07666098807	0.01533219761	1.961	1.956	1.953	
#3	2.103	2.071	2.024	2.014	1.989	1.976	1.953	1.958	1.976	1.991	2.015	2.036	2.068	2.096	8	20	0.3490658504	1.962666667	0.07642663043	0.07642663043	1.971	1.959	1.958	
AVG	2.103333	2.068666	2.030333	2.010666	1.988	1.975666	1.956666	1.962666	1.970666	1.992333	2.015333	2.04	2.072666	2.099	9	30	0.5235987756	1.970666667	0.05074424899	0.0152232747	1.968	1.968	1.976	
MIN	2.098	2.066	2.024	2.009	1.981	1.973	1.953	1.958	1.968	1.991	2.013	2.036	2.068	2.096	10	40	0.6981317008	1.992333333	0.03764430316	0.01505771226	1.993	1.993	1.991	
MAX	2.109	2.071	2.036	2.014	1.994	1.978	1.961	1.971	1.976	1.993	2.018	2.046	2.076	2.103	11	50	0.872664626	2.015333333	0.02977174992	0.01488587496	2.018	2.013	2.015	
RANGE	0.011	0.005	0.012	0.005	0.013	0.005	0.008	0.013	0.008	0.002	0.005	0.01	0.008	0.007	12	60	1.047197551	2.04	0.02450980392	0.01470588235	2.038	2.046	2.036	
S.D.	0.005507	0.002516	0.006027	0.002886	0.006557	0.002516	0.004041	0.007234	0.004618	0.001154	0.002516	0.005291	0.004163	0.003605	13	70	1.221730476	2.072666667	0.02067729633	0.01447410743	2.074	2.076	2.068	
sqrt(3)	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	1.732050	14	80	1.396263402	2.099	0.01786565031	0.01429252025	2.098	2.103	2.096	
Type A	0.003179	0.001452	0.003480	0.001666	0.003785	0.001452	0.002333	0.004176	0.002666	0.000666	0.001452	0.003055	0.002403	0.002081	same person is releasing the pendulum and pressing the time, so reaction time is only considered for the stopping of the clock									
PERIOD	Type A %	0.114280	0.116195	0.118389	0.119547	0.120910	0.121665	0.122471	0.121973	0.120647	0.119270	0.117828	0.115971	0.114516										
	Type B	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	human reaction time assumed at 0.3 seconds as per higher conservative value based on 0.25 to 0.27 mean visual human reaction time at								
PERIOD	Type B %	1.426307	1.450209	1.477589	1.492042	1.509054	1.518474	1.533219	1.528532	1.522327	1.505772	1.488587	1.470588	1.447410	1.429252	https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/visual-reaction-time								
	Type B	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	two angles measured at the smallest increment of 1 degree								
ANGLE	Type B %	1.782884	2.071727	2.462849	2.984084	3.772635	5.061582	7.666098	7.642663	5.074424	3.764430	2.977174	2.450980	2.067729	1.786565		MAX	2.103333333						
PERIOD	Highest Uncertainty	1.426307	1.450209	1.477589	1.492042	1.509054	1.518474	1.533219	1.528532	1.522327	1.505772	1.488587	1.470588	1.447410	1.429252		MIN	1.956666667						
ANGLE	Highest Uncertainty	1.782884	2.071727	2.462849	2.984084	3.772635	5.061582	7.666098	7.642663	5.074424	3.764430	2.977174	2.450980	2.067729	1.786565		VAR	0.146666667						
	Final Period	2.103333	2.068666	2.030333	2.010666	1.988	1.975666	1.956666	1.962666	1.970666	1.992333	2.015333	2.04	2.072666	2.099									
	Absolute Uncertainty	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03											