

Table 1

Athlete	Pitch Type	MPH	Launch (V) [°]	Launch (H) [°]	Spin [rpm]	Spin Axis [°]	Spin Tilt [°]	Release Height [ft]	Release Side [ft]	Extension [ft]	Break (V) [in]	Break Ind (V) [in]	Break (H) [in]	Strike Zone - Height [ft]	Strike Zone - Offset [ft]	Zone Speed [mph]	Approach (V) [°]	Approach (H) [°]
CHRISTIAN ENRIQUEZ	Four Seam Fastball	76.13	1.308	-1.138	2277	251.7	2:30	5.667	-0.189	5.926	-40.209	8.265	24.993	3.53	0.837	68.442	-6.298	3.464
CHRISTIAN ENRIQUEZ	Four Seam Fastball	76.83	1.523	-0.52	2173	243.314	2:00	5.828	-0.468	5.755	-41.942	8.601	17.112	3.55	0.475	67.178	-6.385	2.643
CHRISTIAN ENRIQUEZ	Curveball	61.502	5.133	-1.027	1903	166.597	11:30	5.093	-1.227	5.28	-58.165	20.171	-4.806	5.08	-2.592	54.095	-5.892	-1.533
CHRISTIAN ENRIQUEZ	Curveball	62.047	1.536	3.512	1869	132.231	10:30	5.971	-1.387	5.398	-56.064	21.039	-23.177	2.741	-0.023	54.9	-9.145	-0.328
CHRISTIAN ENRIQUEZ	Changeup	67.03	0.156	6.021	1283	100.782	9:15	6.06	-2.344	6.263	-58.315	4.72	-24.787	1.346	1.162	60.187	-10.677	1.163
CHRISTIAN ENRIQUEZ	Changeup	66.027	-0.996	4.301	1474	140.172	10:45	6.202	-1.934	5.901	-39.598	22.324	-18.618	1.975	0.514	60.831	-8.553	0.985
CHRISTIAN ENRIQUEZ	Slider	63.595	4.001	1.429	1950	95.129	9:15	5.19	-2.281	4.87	-70.874	2.196	-24.468	3.077	-2.967	56.797	-9.219	-2.521
CHRISTIAN ENRIQUEZ	Slider	65.755	0.37	-3.593	1949	203.13	12:45	6.139	-0.944	5.808	-8.988	57.926	24.743	5.735	-2.227	57.817	-1.776	0.874
CHRISTIAN ENRIQUEZ	Two Seam Fastball	76.414	-2.619	3.241	2289	145.615	10:45	6.474	-1.435	6.23	-22.989	25.538	-17.476	2.137	0.101	66.33	-7.028	-0.029
CHRISTIAN ENRIQUEZ	Two Seam Fastball	77.374	-1.931	5.18	2133	129.779	10:15	6.282	-2.305	5.807	-23.568	25.663	-30.825	2.514	-0.044	68.291	-6.55	-0.379
JESSE GUZMAN	Warm up	52.499	3.46	-2.972		187.661	12:15	5.827	2.792	4.653	-46.238	67.675	9.104	5.269	0.725	45.392	-5.478	-1.285
JESSE GUZMAN	Warm up	53.69	2.33	-2.428		183.005	12:00	6.294	2.643	5.799	-43.076	57.517	3.02	4.874	0.635	47.452	-6.11	-2.019
JESSE GUZMAN	Warm up	53.627	3.93	-4.565		192.473	12:30	5.685	2.925	5.585	-50.394	51.004	11.282	5.172	-0.406	47.401	-5.775	-2.531
JESSE GUZMAN	Warm up	53.374	-0.508	-1.922		170.247	11:45	6.984	2.14	6.065	-34.225	64.876	-11.151	3.662	-0.568	47.897	-7.32	-3.926
JESSE GUZMAN	Warm up	54.628	2.018	-4.171	1221	199.442	12:45	6.122	2.585	5.776	-40.508	55.397	19.554	4.63	0.326	48.615	-5.876	-0.627
JESSE GUZMAN	Warm up	55.624	2.328	-1.696	1279	167.891	11:30	6.401	3.027	6.696	-34.54	56.321	-12.084	5.654	0.469	48.998	-4.671	-3.832
JESSE GUZMAN	Four Seam Fastball	61.67	3.957	-1.581	1200	225.392	1:30	5.194	3.031	4.709	-57.732	20.819	21.106	4.146	3.288	54.68	-6.773	2.315
JESSE GUZMAN	Four Seam Fastball	62.366	0.514	-3.593	1268	198.289	12:30	5.994	1.827	5.056	-28.653	46.189	15.266	4.091	-0.293	55.676	-5.049	-0.875
JESSE GUZMAN	Changeup	58.464	1.311	-5.154	1089	126.131	10:15	5.694	0.753	5.879	-75.719	9.147	-12.529	0.606	-5.089	52.694	-12.79	-7.307
JESSE GUZMAN	Curveball	55.335	5.127	3.475	1743	137.28	10:30	5.369	1.053	5.113	-62.949	33.54	-30.972	4.975	1.75	48.975	-6.627	-2.378
JESSE GUZMAN	Curveball	55.486	3.567	-1.25	1792	195.137	12:30	5.702	1.859	5.08	-72.903	21.154	5.722	2.994	1.158	50.048	-10.035	-0.505
JESSE GUZMAN	Four Seam Fastball	63.43	1.023	0.679	1313	157.491	11:15	5.847	0.988	4.954	-46.766	26.347	-10.918	2.917	0.72	56.657	-7.788	-1.086
JESSE GUZMAN	Four Seam Fastball	63.333	-0.121	2.448	1358	125.602	10:15	5.981	0.46	5.203	-51.958	21.346	-29.813	1.538	0.279	56.671	-9.777	-3.032
CADEN DENKERS	Warm up	46.924	7.39	-4.322		193.7	12:30	4.759	2.985	5.295	-71.683	62.514	15.239	5.781	0.19	41.375	-6.418	-1.781
CADEN DENKERS	Warm up	48.876	7.924	-1.43	1211	184.857	12:15	4.769	2.549	5.656	-61.563	64.823	5.508	7.078	1.674	42.061	-4.123	-0.293
CADEN DENKERS	Warm up	46.846	7.635	-1.376	2290	171.419	11:45	4.699	2.907	5.488	-79.284	57.962	-8.746	5.279	0.891	40.889	-7.611	-2.658
CADEN DENKERS	Warm up	48.334	7.871	-3.309	1276	180	12:00	4.691	3.29	5.508	-65.824	67.533	0	6.625	0.193	41.19	-4.99	-3.176
CADEN DENKERS	Warm up	47.262	7.072	0.491	1233	169.835	11:45	5.393	2.551	5.184	-67.69	70.328	-12.61	6.439	1.962	40.801	-6.095	-1.749
CADEN DENKERS	Warm up	48.301	8.806	-2.141	1272	189.444	12:15	4.613	3.606	5.624	-68.82	67.543	11.235	7.166	2.543	40.538	-4.631	-0.194
CADEN DENKERS	Warm up	47.317	11.071	-1.886	1020	175.009	11:45	4.123	3.095	4.836	-103.319	35.193	-3.073	6.133	1.053	41.137	-8.172	-1.858
CADEN DENKERS	Warm up	48.029	9.249	0.359	1317	174.261	11:45	4.888	3.211	5.285	-70.552	71.456	-7.181	7.77	2.949	39.923	-4.525	-0.903
CADEN DENKERS	Warm up	49.803	6.753	-1.559	1013	168.5	11:30	5.45	3.816	5.46	-80.581	40.626	-8.265	5.087	1.668	43.64	-8.545	-2.642
CADEN DENKERS	Four Seam Fastball	58.851	2.46	-3.449	1220	176.939	12:00	5.767	2.961	4.873	-61.624	27.029	-1.445	2.965	-0.427	51.727	-9.029	-3.731
CADEN DENKERS	Four Seam Fastball	58.613	3.159	-2.253	1307	186.142	12:15	5.488	3.041	4.698	-66.179	21.259	2.288	2.977	1.093	52.154	-9.128	-1.446
CADEN DENKERS	Curveball	48.503	3.951	3.035	1267	132.219	10:30	5.978	1.174	4.003	-86.205	33.131	-36.514	2.604	1.052	45.608	-11.721	-3.535
CADEN DENKERS	Curveball	51.471	3.568	-0.348	1344	159.374	11:15	5.77	2.327	4.713	-77.909	34.268	-12.899	2.667	0.922	46.33	-10.898	-2.477
CADEN DENKERS	Changeup	56.511	4.53	-6.165	1173	278.971	3:15	5.079	3.095	4.818	-96.771	-3.59	22.743	1.34	-0.872	50.999	-13.096	-1.965
CADEN DENKERS	Changeup	56.289	1.94	-5.676	1261	215.233	1:15	5.85	2.93	5.001	-80.234	14.893	10.519	1.004	-1.569	50.452	-12.737	-3.412
CADEN DENKERS	Four Seam Fastball	57.527	3.745	-4.788	1279	184.357	12:15	5.406	3.22	4.686	-49.307	44.378	3.381	4.87	-1.054	50.115	-8.619	-3.943
CADEN DENKERS	Warm up	53.12	1.94	-7.033	1466	216.691	1:15	6.784	3.122	5.366	-52.041	54.324	40.478	4.28	-0.132	46.829	-8.054	0.173
CADEN DENKERS	Warm up	59.124	2.756	1.986	1602	127.958	10:15	5.865	1.982	5.437	-56.182	28.881	-36.766	3.767	0.779	52.148	-7.985	-4.516
CADEN DENKERS	Warm up	58.59	-0.081	-1.96	1622	178.553	12:00	7.007	2.549	5.151	-23.284	68.108	-1.72	4.991	0.56	50.301	-4.85	-2.27
JACOB VELASQUEZ	Warm up	59.05	0.635	-1.76	1726	177.85	12:00	6.464	2.175	6.16	-28.412	56.062	-2.301	4.684	0.357	51.384	-5.09	-2.277
JACOB VELASQUEZ	Four Seam Fastball	65.511	-1.034	-1.849	1021	168.938	11:45	6.382	2.663	6.115	-33.171	30.706	-6.004	2.641	0.453	59.516	-7.436	-2.826
JACOB VELASQUEZ	Warm up	64.784	0.711	-0.42		172.191	11:45	6.191	2.476	5.069	-44.944	22.094	-3.03	3.115	1.828	59.066	-7.727	-0.805
JACOB VELASQUEZ	Curveball	52.418	5.482	-0.665		172.697	11:45	5.544	2.501	5.458	-95.161	16.136	-2.068	2.761	1.707	46.001	-12.258	-1.19
JACOB VELASQUEZ	Curveball	57.095	3.411	-4.594		75.156	8:30	5.518	3.553	5.949	-91.477	-1.181	-4.458	1.072	-1.088	50.957	-13.628	-5.146
JACOB VELASQUEZ	Four Seam Fastball	65.296	-0.25	-1.162	1869	164.338	11:30	6.37	1.905	5.898	-46.861	19.183	-5.379	2.233	0.378	58.886	-9.131	-2.027
JACOB VELASQUEZ	Curveball	51.797	4.58	0.07	1652	147.918	11:00	5.65	2.414	5.19	-86.153	24.085	-15.098	2.788	1.222	46.373	-11.45	-2.746
JACOB VELASQUEZ	Four Seam Fastball	66.969	1.798	-2.067	1907	169.979	11:45	6.141	2	5.942	-41.414	24.471	-4.324	4.359	-0.279	58.499	-6.146	-2.677
JACOB VELASQUEZ	Curveball	55.826	-1.38	-5.792		202.334	12:45	6.723	4.536	6.013	-43.212	49.039	20.147	1.837	0.832	50.075	-9.64	-1.98
JACOB VELASQUEZ	Four Seam Fastball	67.227	1.031	-1.108	1354	156.254	11:15	6.008	1.817	6.317	-35.988	28.106	-12.365	3.959	-0.234	58.929	-5.983	-3.243
ROBERT CASTILLO	Warm up	49.072	5.5	-0.495		162.396	11:30	5.233	2.117	6.737	-72.6	43.658	4.223	0.51		43.61	-8.683	-2.72
ROBERT CASTILLO	Warm up	53.88	3.996	-2.182	1335	165.402	11:30	5.618	2.555	5.854	-53.42	45.978	-11.975	4.887	-0.471	47.689	-6.298	-4.421
ROBERT CASTILLO	Warm up	56.235	3.589	-4.602	1573	189.915	12:15	5.667	2.784	4.645	-32.081	66.128	11.558	6.419	-0.635	48.661	-2.741	-2.497
ROBERT CASTILLO	Warm up	56.87	5.804	-2.575	1476	187.805	12:15	4.992	3.869	4.299	-32.59	60.423	8.283	7.85	2.096	50.02	-0.605	-0.999
ROBERT CASTILLO	Four Seam Fastball	66.49	4.382	-7.828	1685	275.74	3:15	4.962	4.256	5.399	-68.308	-4.211	41.888	3.422	0.365	60.157	-8.049	-0.056
ROBERT CASTILLO	Four Seam Fastball	67.882	3.189	-5.715	1638	267.407	3:00	5.253	3.468	5.42	-60.812	1.452	32.071	3.19	0.771	60.954	-7.956	0.35
ROBERT CASTILLO	Curveball	55.988	5.023	-5.268	1026	113.862	9:45	4.969	3.03	5.197	-92.649	4.023	-9.095	2.005	-2.696	49.731	-12.093	-6.336
ROBERT CASTILLO	Curveball	55.863	5.173	-1.482		85.83	8:45	4.859	2.236	4.839	-100.49	-1.79	-24.547	1.397	-1.213	49.526	-13.082	-6.458
ROBERT CASTILLO	Slider	65.099	4.428	0.835		120.705	10:00	5.052	2.696	4.686	-52.111	17.988	-30.289	4.922	0.965	57.8	-5.16	-4.832
ROBERT CASTILLO	Slider	64.119	4.331	-3.332		295.042	3:45	4.915	3.761	4.572	-78.178	-2.439	5.219	2.536	1.022	56.215	-9.974	-2.22

Athlete	Pitch Type	MPH	Launch (V) [°]	Launch (H) [°]	Spin [rpm]	Spin Axis [°]	Spin Tilt	Release Height [ft]	Release Side [ft]	Extension [ft]	Break (V) [in]	Break Ind (V) [in]	Break (H) [in]	Strike Zone - Height [ft]	Strike Zone - Offset [ft]	Zone Speed [mph]	Approach (V) [°]	Approach (H) [°]
EDDIE MORENO	Warm up	62.352	1.269	1.612	1484	177.665	12:00	6.335	-1.298	8.519	-43.255	22.805	-0.93	3.851	0.047	55.864	-7.4	1.182
ANDREW ANGUIANO	Warm up	70.266	-0.324	1.224	1613	182.58	12:00	6.25	-1.573	7.381	-21.652	32.184	1.45	4.154	-0.347	63.04	-4.736	1.375
ANDREW ANGUIANO	Four Seam Fastball	69.697	-1.077	2.042	1623	167.592	11:30	6.486	-1.897	7.054	-28.919	26.932	-5.926	3.097	-0.535	62.502	-6.76	0.963
ANDREW ANGUIANO	Four Seam Fastball	70.088	-1.989	1.154	1680	214.32	1:15	6.586	-1.054	7.3	-28.099	26.762	18.269	2.446	1.512	62.991	-7.641	4.402
ANDREW ANGUIANO	Curveball	60.867	0.755	2.736		169.355	11:45	6.117	-2.728	6.525	-54.001	23.081	-4.338	2.31	-0.578	53.958	-9.641	2.263
ANDREW ANGUIANO	Curveball	62.082	0.651	3.548	1484	253.346	2:30	5.87	-2.333	7.099	-67.245	3.079	10.292	0.858	1.747	56.343	-12.145	5.6
ANDREW ANGUIANO	Curveball	61.467	1.247	1.898	1526	185.867	12:15	6.087	-2.266	7.019	-54.051	20.214	2.077	2.717	-0.368	54.393	-9.201	2.607
ANDREW ANGUIANO	Four Seam Fastball	73.121	2.753	1.457	1875	203.892	12:45	5.574	-1.253	7.071	-36.769	15.335	6.793	5.012	0.636	64.36	-4.433	2.646
QUINN STEWART	Warm up	60.455	2.732	0.813		115.788	9:45	6.007	1.509	6.296	-68.85	8.238	-17.051	2.789	0.838	54.132	-10.416	-1.901
QUINN STEWART	Warm up	64.512	0.817	-4.026	1826	163.066	11:30	6.208	3.108	6.736	-27.146	38.72	-11.789	4.694	-1.558	57.737	-4.529	-6.338
QUINN STEWART	Warm up	67.646	1.605	-4.361	1839	184.268	12:15	5.706	2.545	5.78	-6.203	61.316	4.576	6.687	-1.139	57.514	0.106	-3.522
QUINN STEWART	Warm up	67.434	1.073	-1.552		165.908	11:30	6.081	2.222	5.476	-3.562	63.964	-16.057	6.788	-0.568	57.792	-0.045	-4.455
QUINN STEWART	Warm up	66.214	3.913	-3.668	1948	208.768	1:00	5.433	2.04	10.049	-39.028	16.056	8.815	5.541	-0.369	59.102	-4.123	-1.843
QUINN STEWART	Warm up	66.355	1.799	-2.591	1886	186.392	12:15	5.933	2.128	8.524	-19.401	38.988	4.368	5.906	0.203	58.958	-2.262	-1.783
QUINN STEWART	Four Seam Fastball	76.375	-0.917	1.943	1069	99.364	9:15	6.206	0.322	6.62	-43.487	6.145	-37.265	1.743	-1.003	67.224	-9.002	-5.186
QUINN STEWART	Four Seam Fastball	76.537	-0.346	-1.664	1097	196.444	12:30	6.217	1.38	6.535	-25.886	23.688	6.992	3.743	0.436	66.863	-5.399	-0.402
QUINN STEWART	Curveball	60.049	2.975	0.465	1609	109.907	9:45	5.823	1.049	6.575	-69.382	10.008	-27.636	2.77	-0.828	53.103	-10.103	-5.025
QUINN STEWART	Curveball	60.347	3.625	-3.095	1509	263.056	2:45	5.398	2.735	6.217	-77.14	1.096	8.997	2.324	0.626	53.874	-10.915	-1.366
QUINN STEWART	Curveball	61.697	0.621	-2.323	1923	111.298	9:45	5.908	1.593	6.474	-68.998	6.124	-15.709	0.729	-1.851	55.145	-12.401	-5.18
QUINN STEWART	Slider	62.815	4.714	0.68	1807	56.358	8:00	5.164	0.542	5.65	-97.26	-23.611	-35.481	1.466	-1.78	56.36	-13.227	-6.061
QUINN STEWART	Four Seam Fastball	74.699	0.791	-6.062	2032	250.813	2:15	6	2.634	6.698	-33.668	17.72	50.922	3.922	1.315	65.511	-5.722	3.408
QUINN STEWART	Four Seam Fastball	72.637	0.913	-4.112	1996	274.184	3:15	5.665	1.849	7.06	-53.151	-1.185	16.197	2.067	-0.541	65.052	-9.156	-0.775
QUINN STEWART	Warm up	49.015	4.932	-6.283	1352	206.166	12:45	6.393	4.367	4.439	-68.642	65.044	31.958	5.417	1.014	42.384	-8.074	-0.708
ANDREW GRANADOS	Warm up	52.707	6.829	-5.705		207.647	1:00	5.11	4.855	4.949	-86.823	24.456	12.811	4.39	0.515	46.107	-9.192	-2.954
ANDREW GRANADOS	Warm up	52.854	4.331	-2.024	1513	173.005	11:45	6.079	2.568	4.554	-45.034	66.413	-8.148	6.459	-0.038	45.837	-4.4	-3.564
ANDREW GRANADOS	Warm up	54.371	4.001	0.684		169.794	11:45	5.686	1.876	4.572	-35.705	69.398	-12.495	6.524	1.466	47.02	-3.122	-1.564
ANDREW GRANADOS	Warm up	55.758	7.717	1.05	1064	144.284	10:45	4.891	2.269	4.728	-62.994	37.617	-27.046	7.008	1.011	47.98	-4.207	-3.685
ANDREW GRANADOS	Warm up	54.786	6.736	1.75	1486	146.194	10:45	5.089	1.063	5.42	-63.728	34.34	-22.995	6.12	0.786	48.133	-5.285	-2.729
ANDREW GRANADOS	Four Seam Fastball	62.81	2.204	-2.505	1759	180.351	12:00	5.726	2.724	5.634	-55.689	18.034	0.11	3.144	0.395	55.81	-8.319	-2.483
ANDREW GRANADOS	Four Seam Fastball	62.921	3.5	-1.705	1686	146.184	10:45	5.441	2.24	6.525	-48.143	21.553	-14.438	4.645	-0.528	56.217	-5.863	-4.136
ANDREW GRANADOS	Curveball	56.766	3.787	-1.677		139.178	10:45	5.521	2.913	5.539	-72.884	17.447	-15.071	2.993	0.09	50.691	-9.942	-4.119
ANDREW GRANADOS	Curveball	58.288	3.587	-4.868	1746	220.633	1:15	5.48	3.765	5.647	-72.446	13.008	11.162	2.805	0.144	52.058	-10.017	-3.098
ANDREW GRANADOS	Changeup	61.728	0.391	-4.935	1470	257.52	2:30	5.894	4.189	5.914	-72.405	4.749	21.459	0.225	1.386	55.042	-12.975	-0.602
ANDREW GRANADOS	Changeup	61.054	2.637	-5.752	1387	215.506	1:15	5.659	3.428	6.052	-55.4	23.497	16.764	3.497	-0.518	53.595	-7.865	-2.568
ANDREW GRANADOS	Changeup	62.565	1.918	-0.86	1738	134.153	10:30	5.765	1.767	6.353	-54.445	16.858	-17.364	2.994	-0.472	56.066	-8.444	-4.2
ANDREW GRANADOS	Four Seam Fastball	63.08	0.455	-6.028	1736	239.789	2:00	6.126	3.535	5.779	-62.066	11.214	19.259	1.38	-0.49	56.387	-11.131	-2.496