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MPEC 2022-V101 : DAILY ORBIT UPDATE (2022 November 5)

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M.P.E.C. 2022-V101

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DAILY ORBIT UPDATE (2022 November 5)

Update to 2022-V98

Full-precision elements for the objects listed here are available at <https://www.minorplanetcenter.net/iau/MPCORB.html>

New identification:

K10U470 K22SB8U Weryk

New old-numbered orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp C
00026	7.5	0.15	K2289	18.845	193.687	45.762	3.563	0.08917	2.65444	81 X
00029	5.9	0.15	K2289	214.213	63.063	356.329	6.083	0.07358	2.55375	96 X
00035	8.7	0.15	K2289	83.434	213.560	353.716	7.933	0.22475	2.99377	66 X
00066	9.5	0.15	K2289	294.414	43.582	7.496	3.046	0.17322	2.64624	66 X
00090	8.5	0.15	K2289	356.630	245.189	69.949	2.207	0.16704	3.14751	85 X
00113	8.6	0.15	K2289	98.909	78.738	123.445	5.043	0.08609	2.37604	84 X
00118	8.9	0.15	K2289	261.512	33.059	47.658	7.746	0.16436	2.43734	64 X
00120	7.8	0.15	K2289	88.174	234.612	341.167	6.964	0.05139	3.11780	67 X
00122	7.7	0.15	K2289	178.736	321.101	178.104	1.641	0.03015	3.22453	77 X
00160	9.1	0.15	K2289	267.471	51.383	8.586	3.825	0.06720	2.72748	63 X
00184	8.4	0.15	K2289	138.662	211.284	331.588	1.142	0.06483	3.18952	68 X
00195	9.1	0.15	K2289	199.313	117.750	6.970	6.972	0.04240	2.87798	62 X
00271	9.9	0.15	K2289	301.544	57.232	335.357	3.539	0.10457	3.00474	58 X
00274	10.0	0.15	K2289	92.872	120.219	92.783	3.677	0.11869	3.04488	61 X
00334	7.7	0.15	K2289	29.158	152.028	130.171	4.643	0.02457	3.89074	85 X
00350	8.4	0.15	K2289	213.162	337.770	90.081	24.898	0.16008	3.10769	50 X
00358	9.2	0.15	K2289	264.681	252.648	172.147	3.555	0.15301	2.87602	58 X
00366	8.7	0.15	K2289	310.835	333.818	346.697	10.580	0.05656	3.14283	62 X
00412	9.2	0.15	K2289	112.745	92.289	106.436	13.767	0.04178	2.76274	51 X
00492	10.0	0.15	K2289	302.000	296.890	46.184	1.619	0.17916	3.11123	58 X
00497	9.9	0.15	K2289	332.835	3.500	6.310	4.823	0.30148	2.85038	55 X
00503	9.3	0.15	K2289	221.404	41.595	68.872	5.009	0.17525	2.72385	61 X
00520	10.6	0.15	K2289	273.107	20.894	34.268	10.961	0.11046	3.00418	40 X
00536	8.1	0.15	K2289	273.652	295.885	59.196	19.432	0.08751	3.49535	57 X
00545	8.8	0.15	K2289	323.184	331.264	333.596	11.206	0.16990	3.19994	54 X
00549	10.9	0.15	K2289	263.097	157.784	291.396	3.957	0.25729	2.68554	40 X
00582	9.0	0.15	K2289	241.986	310.140	155.705	30.029	0.22120	2.61198	48 X
00622	10.3	0.15	K2289	311.359	256.983	141.914	8.638	0.24380	2.41430	48 X
00651	10.1	0.15	K2289	306.694	353.735	37.979	10.760	0.10162	3.02350	44 X
00672	11.5	0.15	K2289	9.419	309.198	343.878	11.116	0.13433	2.55563	38 X

K05U03E	20.1	0.15	K2289	2.647	330.687	6.463	9.767	0.44861	2.24985	2 V
K05U52J	17.9	0.15	K2289	339.507	152.368	252.091	5.868	0.30177	2.62305	5 X
K05U65E	15.7	0.15	K2289	11.102	127.028	260.550	15.347	0.22570	3.12467	8 X
K05U65H	17.0	0.15	K2289	12.508	77.266	274.860	14.822	0.24744	3.16036	3 X
K05U75L	17.0	0.15	K2289	358.799	100.400	281.473	11.818	0.31490	3.16657	6 X
K05U82F	17.0	0.15	K2289	60.626	274.563	27.560	15.894	0.21595	3.15225	7 X
K05U84Y	17.2	0.15	K2289	68.797	247.718	42.906	13.337	0.25512	2.61428	9 X
K05U89D	16.7	0.15	K2289	15.493	12.452	1.561	8.354	0.09190	3.16807	9 X
K05UA0R	18.0	0.15	K2289	313.201	43.890	45.930	32.316	0.21563	2.62082	3 X
K05UC1W	17.9	0.15	K2289	314.701	53.400	31.778	4.125	0.19219	2.61998	5 X
K05UG4W	17.9	0.15	K2289	308.819	46.561	40.222	3.229	0.16595	2.62311	8 X
K05UH4Z	17.8	0.15	K2289	52.193	291.469	30.066	6.825	0.16167	2.25649	10 X
K05UH6S	16.8	0.15	K2289	304.134	229.777	232.977	25.948	0.16741	3.19239	4 X
K05UI4J	19.0	0.15	K2289	26.094	289.400	42.790	5.110	0.18366	2.26526	4 X
K05UJ3F	18.7	0.15	K2289	293.452	261.442	200.937	6.019	0.10398	2.24610	9 X
K05UJ6R	18.2	0.15	K2289	321.264	198.644	216.954	11.875	0.08786	2.63475	2 X
K05UP2B	18.5	0.15	K2289	349.272	21.930	15.188	6.279	0.31255	2.61411	4 X
K05UQ5L	17.3	0.15	K2289	345.935	174.444	220.482	14.147	0.09215	2.63343	9 X
K05UR7K	17.3	0.15	K2289	28.299	118.013	218.901	8.456	0.25860	3.17488	5 X
K05UT1T	19.0	0.15	K2289	293.196	102.751	354.191	3.438	0.10290	2.26115	5 X
K05UT4M	17.2	0.15	K2289	349.945	149.719	241.897	8.521	0.08223	2.62956	8 X
K05UV5S	18.4	0.15	K2289	349.761	170.114	217.396	14.489	0.20444	2.62765	2 X
K05Ub1E	16.7	0.15	K2289	11.234	323.136	50.406	12.167	0.11236	3.19739	7 X
K05Ub2P	18.6	0.15	K2289	15.508	83.071	267.264	1.940	0.18906	2.26546	5 X
K05Ub3P	18.4	0.15	K2289	1.239	331.839	38.036	7.820	0.12887	2.26718	8 X
K05Uc0O	17.5	0.15	K2289	3.246	355.987	30.863	18.840	0.23416	3.15236	4 X
K05Ue0V	18.2	0.15	K2289	4.544	3.150	359.862	6.522	0.13397	2.24526	7 X
K05Uf5T	18.4	0.15	K2289	347.301	312.214	64.786	6.174	0.28199	2.63110	3 X
K05Ug5P	16.9	0.15	K2289	29.372	105.315	233.726	14.700	0.23839	3.17925	5 X
K05Uj1Z	17.4	0.15	K2289	350.698	137.817	253.378	12.084	0.28425	2.62188	6 X
K05Uk0G	18.0	0.15	K2289	300.711	217.404	245.777	6.327	0.28903	2.64354	5 X
K05Uq9V	16.9	0.15	K2289	328.936	200.412	229.007	15.649	0.19208	3.20652	6 X
K05Us0D	17.1	0.15	K2289	21.606	114.964	246.761	10.950	0.04377	2.60319	10 X
K05Us2V	17.8	0.15	K2289	316.751	65.917	14.553	17.514	0.23382	2.60576	6 X
K05Ut7K	19.3	0.15	K2289	324.779	213.695	220.022	4.799	0.29842	2.63006	3 X
K05Ut7X	19.3	0.15	K2289	344.143	176.774	217.712	8.337	0.27302	2.61817	2 X
K05V12F	16.7	0.15	K2289	311.735	54.846	36.585	13.211	0.03909	3.15571	7 X
K05V52J	16.4	0.15	K2289	158.223	204.907	32.467	13.632	0.05763	2.60348	12 X
K05VE5N	17.1	0.15	K2289	297.731	112.636	13.463	14.813	0.28640	3.12443	5 X
K05W24F	17.5	0.15	K2289	8.836	95.765	271.736	4.402	0.16277	2.63299	7 X
K05W42T	16.4	0.15	K2289	277.248	259.676	249.485	24.550	0.27122	3.19151	5 X
K05W53S	17.6	0.15	K2289	46.051	244.099	68.796	12.850	0.29842	2.63518	8 X
K05W83Y	19.0	0.15	K2289	354.856	334.231	39.425	2.195	0.22405	2.26597	5 X
K05W91V	18.9	0.15	K2289	355.191	146.598	226.764	5.217	0.22593	2.25717	4 X
K05WC2W	17.3	0.15	K2289	13.318	350.946	26.538	11.210	0.22199	3.12775	6 X
K05WD1K	18.3	0.15	K2289	343.094	144.382	248.550	8.534	0.07113	2.27444	5 X
K05WF8Y	19.7	0.15	K2289	342.915	142.466	265.009	7.473	0.49222	2.62301	2 V
K05WG0Q	16.7	0.15	K2289	331.344	39.442	49.161	7.925	0.23321	3.15045	9 X
K05WL9S	17.6	0.15	K2289	346.060	144.101	248.927	14.379	0.30285	2.63790	6 X
K05WM0M	16.9	0.15	K2289	353.763	320.468	72.106	6.218	0.08449	3.23731	11 X
K05X02N	16.6	0.15	K2289	321.618	210.489	280.899	28.885	0.25996	3.15839	2 X
K05X47H	18.7	0.15	K2289	307.324	135.831	318.988	3.908	0.23373	2.64822	5 X
K05X63V	18.6	0.15	K2289	313.987	153.853	279.544	5.505	0.09140	2.27417	5 X
K05XC6V	17.8	0.15	K2289	326.257	69.967	357.657	6.098	0.17139	2.72240	8 X
K05XC7P	17.9	0.15	K2289	283.485	61.517	74.124	14.458	0.22796	2.64362	6 X
K05Y96Z	18.2	0.15	K2289	288.074	54.587	82.394	24.383	0.06635	1.98914	5 X
K05YA0T	17.6	0.15	K2289	317.786	149.414	288.146	11.752	0.13373	2.66219	6 X
K05YI9H	17.7	0.15	K2289	312.888	165.260	286.690	4.972	0.20362	2.65249	7 X
K05YN7U	17.7	0.15	K2289	242.469	315.827	188.020	2.404	0.09669	2.70520	11 X
K05YO1Q	17.3	0.15	K2289	323.910	130.001	296.404	10.244	0.16658	2.65882	8 X
K06A08O	15.9	0.15	K2289	0.451	132.075	251.208	9.010	0.08855	3.20903	11 X
K06AB2A	17.9	0.15	K2289	324.523	134.946	343.016	6.190	0.32419	2.64267	7 X
K06AB5L	18.0	0.15	K2289	317.123	156.234	275.198	4.269	0.02790	2.68381	8 X
K06AB8C	17.4	0.15	K2289	354.231	131.157	303.411	13.708	0.24415	3.18581	4 X
K06B00K	16.7	0.15	K2289	245.269	274.039	293.339	22.392	0.25789	2.27120	9 X
K06B54E	17.9	0.15	K2289	287.520	172.089	324.851	6.583	0.32410	2.66755	4 X
K06B97T	18.1	0.15	K2289	349.052	67.493	324.474	6.996	0.11525	2.30254	8 X
K06BD3A	18.6	0.15	K2289	300.007	151.889	314.845	5.387	0.20361	2.29547	6 X
K06BJ6V	18.6	0.15	K2289	315.758	117.240	312.982	6.164	0.16964	2.30718	6 X
K06BN0R	17.3	0.15	K2289	8.862	318.429	54.285	3.161	0.09242	2.70451	12 X
K06BS7P	16.4	0.15	K2289	304.746	77.106	37.888	23.578	0.23148	3.18060	8 X
K06BU1T	17.7	0.15	K2289	250.549	355.272	141.903	5.580	0.03327	2.71270	8 X
K06C15Q	17.8	0.15	K2289	245.598	145.870	354.028	6.653	0.03257	2.31939	9 X
K06C38F	18.5	0.15	K2289	281.475	185.407	293.954	4.030	0.17267	2.30392	6 X
K06C72G	17.0	0.15	K2289	316.964	113.779	314.648	7.674	0.06332	2.70328	11 X
K06C88H	18.8	0.15	K2289	2.315	44.477	322.619	1.502	0.20813	2.31080	6 X
K06C91Z	19.5	0.15	K2289	324.637	103.172	319.043	3.430	0.21324	2.29062	4 X
K06D78Q	17.6	0.15	K2289	328.389	261.864	142.450	3.473	0.08549	2.74954	10 X
K06DI4S	18.6	0.15	K2289	300.705	132.315	331.095	4.735	0.18520	2.30749	6 X
K06DM3X	17.5	0.15	K2289	12.561	25.769	341.258	5.418	0.06541	2.72685	7 X
K06DM5W	18.6	0.15	K2289	294.087	98.736	2.139	8.153	0.15393	2.31789	6 X
K06E76X	17.3	0.15	K2289	332.773	88.577	333.005	7.697	0.16706	2.72320	7 X
K06F60G	17.7	0.15	K2289	335.716	253.753	167.636	4.798	0.02590	2.73652	8 X
K06HF5D	16.3	0.15	K2289	317.183	66.737	30.494	6.069	0.09752	3.39918	11 X
K06KD2H	17.5	0.15	K2289	345.205	142.701	253.303	0.939	0.07823	2.85638	2 V
K06M16Y	14.6	0.15	K2289	38.887	143.784	224.473	20.298	0.05647	5.22406	9 X
K06Q69R	17.7	0.15	K2289	8.193	266.006	102.821	1.165	0.20387	2.99649	5 X
K06QE3E	16.8	0.15	K2289	326.379	147.988	279.353	10.349	0.08460	2.92179	11 X
K06QF4F	17.9	0.15	K2289	188.209	222.918	331.300	5.368	0.02231	2.45941	8 X
K06R75D	15.7	0.15	K2289	32.525	307.963	25.924	1.316	0.29718	3.92677	9 X
K06R91A	17.4	0.15	K2289	14.124	354.975	3.627	2.463	0.23773	3.02522	5 X
K06RC4S	18.3	0.15	K2289	1.466	194.881	165.775	2.134	0.28327	3.03265	3 X
K06S01Q	15.6	0.15	K2289	21.809	352.205	355.981	14.684	0.24763	3.93617	6 X

K06S05Y	22.0	0.15	K2289	179.997	175.685	335.926	7.565	0.15239	1.04310	3	V
K06S64X	16.0	0.15	K2289	297.439	233.366	230.415	12.303	0.13848	3.00498	16	X
K06S68U	18.3	0.15	K2289	20.333	296.548	36.957	2.297	0.28192	3.02688	4	X
K06S75W	17.3	0.15	K2289	34.468	309.151	27.860	14.507	0.20206	3.02522	5	X
K06SA9B	18.1	0.15	K2289	356.472	332.310	23.332	4.820	0.19381	2.17356	6	X
K06SM7Q	16.9	0.15	K2289	330.754	78.854	341.048	8.683	0.06108	3.00633	9	X
K06SQ5M	15.9	0.15	K2289	31.246	84.468	250.785	6.355	0.27606	3.97625	8	X
K06SV1H	16.7	0.15	K2289	16.853	344.276	358.182	9.082	0.08098	3.05907	9	X
K06Se6W	16.1	0.15	K2289	26.460	15.668	324.451	4.743	0.31304	3.95743	5	X
K06Sk2M	17.7	0.15	K2289	344.155	45.389	0.200	5.619	0.21895	3.04501	6	V
K06T59S	17.6	0.15	K2289	319.945	201.963	242.279	5.323	0.25506	3.06720	5	X
K06T60R	17.0	0.15	K2289	322.429	129.038	297.910	8.922	0.09190	3.01430	10	X
K06T64L	17.4	0.15	K2289	351.715	140.563	251.988	6.065	0.26207	3.02180	8	X
K06T66W	16.9	0.15	K2289	24.529	338.709	353.521	15.997	0.28036	3.03006	3	X
K06T89Y	18.5	0.15	K2289	353.905	120.677	257.062	2.867	0.22779	2.52196	5	X
K06TE6F	17.4	0.15	K2289	358.176	345.936	32.129	21.388	0.30877	3.05790	3	X
K06U03V	16.4	0.15	K2289	42.691	280.228	47.055	15.455	0.18512	3.04898	7	X
K06U55R	17.0	0.15	K2289	353.186	107.980	284.214	8.355	0.17592	3.00643	7	X
K06U70P	18.2	0.15	K2289	13.078	320.202	47.543	22.377	0.09999	1.91151	7	X
K06U88F	16.9	0.15	K2289	350.919	10.497	30.468	12.205	0.33635	3.04959	6	X
K06U91R	17.0	0.15	K2289	357.079	49.169	333.241	8.797	0.16102	3.00946	7	X
K06UA1U	17.1	0.15	K2289	46.070	231.239	101.927	5.217	0.17297	3.03043	8	X
K06UC4X	16.3	0.15	K2289	352.785	151.144	233.006	16.657	0.33177	3.04392	6	X
K06UK1N	16.5	0.15	K2289	348.761	350.673	47.807	12.169	0.13150	3.06704	8	X
K06UO4T	18.9	0.15	K2289	41.842	290.393	26.095	5.001	0.17776	2.16498	6	X
K06UR0P	18.9	0.15	K2289	325.578	170.367	224.017	21.190	0.07425	1.93157	4	V
K06UZ7O	17.9	0.15	K2289	340.816	154.156	222.132	8.646	0.16478	3.10319	4	X
K06Ua4B	15.7	0.15	K2289	39.289	0.336	347.935	4.331	0.25622	3.99039	8	X
K06Ua8H	16.7	0.15	K2289	333.317	146.798	274.814	14.144	0.19176	3.13046	6	X
K06Uc2Z	17.3	0.15	K2289	20.717	34.833	321.283	4.030	0.20710	2.54125	7	X
K06Ud0Q	17.7	0.15	K2289	342.147	136.044	280.663	5.488	0.20215	3.05213	9	X
K06Ud0R	16.7	0.15	K2289	15.666	331.593	49.457	15.969	0.11735	3.04525	8	X
K06Ud2Z	16.8	0.15	K2289	219.823	168.097	12.276	9.209	0.07634	3.04516	9	X
K06V00J	21.9	0.15	K2289	301.307	194.173	219.343	17.381	0.20173	1.46852	2	V
K06V02Y	22.7	0.15	K2289	127.795	327.085	231.205	14.517	0.37636	0.89236	2	V
K06V20J	18.0	0.15	K2289	357.064	142.565	233.845	14.818	0.33686	3.06080	2	X
K06V83L	16.8	0.15	K2289	358.626	19.639	44.693	10.942	0.08820	3.00440	8	X
K06VI7E	17.2	0.15	K2289	30.611	84.533	247.285	17.915	0.21252	3.06651	5	X
K06W30H	16.2	0.15	K2289	313.126	52.570	29.135	18.084	0.11937	3.06685	8	X
K06W39C	17.0	0.15	K2289	358.666	156.774	230.365	8.459	0.08829	3.08517	8	X
K06W52O	17.6	0.15	K2289	357.453	44.926	339.930	1.335	0.18195	3.08153	4	X
K06W57C	17.6	0.15	K2289	357.490	132.143	254.257	13.999	0.12279	2.53789	8	X
K06W99P	17.0	0.15	K2289	300.080	220.930	242.136	27.024	0.13768	3.07697	3	X
K06WB3P	17.0	0.15	K2289	12.755	128.789	223.259	15.552	0.28521	3.07032	7	X
K06WB7Z	16.7	0.15	K2289	143.867	321.585	274.393	5.762	0.10222	2.61518	11	X
K06WC9E	19.7	0.15	K2289	273.506	110.019	64.241	39.550	0.48150	1.72693	3	V
K06WD5H	18.9	0.15	K2289	273.307	174.034	300.732	3.227	0.09021	2.17039	9	X
K06WH1Z	18.9	0.15	K2289	351.331	295.273	87.476	2.910	0.16512	2.17780	5	X
K06WL8Q	17.9	0.15	K2289	333.039	332.934	88.814	6.880	0.12747	2.54062	9	X
K06X12L	18.6	0.15	K2289	17.919	97.295	263.597	6.010	0.12879	2.17846	6	X
K06X24J	16.8	0.15	K2289	357.760	140.090	255.815	16.149	0.31123	3.06703	5	X
K06X39H	17.9	0.15	K2289	238.850	257.339	279.908	18.511	0.07333	1.92583	5	X
K06X44U	16.5	0.15	K2289	200.165	283.316	265.302	9.667	0.04101	3.12318	8	X
K06X50M	16.0	0.15	K2289	250.420	227.681	281.242	12.113	0.12508	3.15901	9	X
K06X77L	17.6	0.15	K2289	289.204	173.092	301.430	5.996	0.12671	2.54037	9	X
K06X78V	17.5	0.15	K2289	17.367	80.851	277.069	5.345	0.24972	2.53728	6	X
K06Y02T	17.4	0.15	K2289	20.398	340.288	30.269	13.355	0.13544	2.54449	9	X
K06Y28V	18.2	0.15	K2289	313.170	134.144	304.942	8.517	0.16782	2.55859	7	X
K06Y66P	17.4	0.15	K2289	17.112	37.057	311.446	4.465	0.31066	2.55738	8	X
K06Y66X	18.1	0.15	K2289	337.430	0.545	45.250	2.670	0.17650	2.56585	6	X
K07B39V	17.0	0.15	K2289	336.073	117.901	315.275	7.427	0.24937	3.11049	6	X
K07BB1D	18.0	0.15	K2289	321.513	80.157	346.582	3.028	0.16319	2.56703	8	X
K07C18A	17.5	0.15	K2289	179.946	102.100	115.693	4.738	0.08955	2.60818	10	X
K07C35C	16.5	0.15	K2289	274.382	169.833	332.458	9.602	0.20422	3.14118	9	X
K07C69S	17.0	0.15	K2289	1.174	93.491	330.116	12.041	0.25476	3.08684	5	X
K07C81C	16.5	0.15	K2289	0.780	251.972	136.147	16.808	0.24240	3.14773	9	X
K07DC0K	16.7	0.15	K2289	296.435	120.325	354.268	15.489	0.16604	3.16776	8	X
K07DC1D	16.9	0.15	K2289	329.870	82.146	342.938	7.199	0.18299	3.19654	7	X
K07E06T	19.2	0.15	K2289	294.403	113.859	342.852	6.260	0.09991	2.22231	7	X
K07E65M	16.4	0.15	K2289	339.299	56.333	46.507	4.361	0.17279	3.11990	12	X
K07EG1N	17.3	0.15	K2289	319.687	268.611	178.766	5.870	0.12934	3.19967	6	X
K07F06M	17.4	0.15	K2289	14.204	18.041	345.220	1.343	0.11683	2.65409	11	X
K07G22L	16.8	0.15	K2289	313.540	47.035	43.981	22.679	0.06199	2.66410	9	X
K07G71A	16.6	0.15	K2289	323.627	69.741	18.109	14.311	0.24097	3.20087	6	X
K07H64O	17.0	0.15	K2289	286.803	61.334	42.235	22.467	0.03418	2.67476	5	X
K07HA4P	18.4	0.15	K2289	304.141	43.609	58.067	23.198	0.07253	1.96655	7	X
K07J52S	17.2	0.15	K2289	352.452	160.490	229.506	13.364	0.11492	2.71507	6	X
K07L23B	16.4	0.15	K2289	358.094	281.514	104.882	6.254	0.17312	2.74215	12	V
K07L33B	17.5	0.15	K2289	60.914	49.865	247.362	23.002	0.26508	2.33557	6	X
K07N07E	17.8	0.15	K2289	75.782	21.816	274.467	2.136	0.11097	2.33896	12	X
K07P53C	16.7	0.15	K2289	341.694	177.155	228.725	10.031	0.13501	2.85874	8	X
K07Q11B	18.0	0.15	K2289	338.622	58.313	347.117	8.444	0.10990	2.37758	8	X
K07R53Z	18.9	0.15	K2289	8.175	125.862	231.825	3.990	0.22498	2.39531	4	X
K07RB9Y	18.3	0.15	K2289	22.544	316.441	17.222	4.113	0.27283	2.39253	8	X
K07RE5L	18.0	0.15	K2289	15.128	143.122	192.923	15.271	0.36366	2.40008	5	X
K07RE5R	17.4	0.15	K2289	19.698	352.069	347.583	6.749	0.27563	2.40043	7	X
K07RP6Q	18.6	0.15	K2289	12.622	299.515	50.406	2.008	0.20633	2.39125	6	X
K07RT7T	17.7	0.15	K2289	4.503	330.237	35.100	1.824	0.20184	2.38647	8	X
K07RW7P	18.5	0.15	K2289	327.082	54.780	6.384	8.938	0.10002	2.38936	8	X
K07RZ1K	14.3	0.15	K2289	308.551	292.414	172.540	5.314	0.04063	5.29836	12	X
K07RZ9Y	18.7	0.15	K2289	13.573	126.594	215.609	6.076	0.26474	2.39504	5	X
K07Rb4C	18.6	0.15	K2289	15.891	176.233	166.928	0.563	0.21795	2.39663	5	X
K07TA8J	18.9	0.15	K2289	353.016	17.050	359.000	6.202	0.22398	2.40104	4	X

K07TF7Y	18.0	0.15	K2289	0.128	99.479	262.214	3.915	0.19172	2.40990	8 X
K07TJ5R	17.1	0.15	K2289	30.008	316.905	31.807	12.131	0.24602	2.89393	6 X
K07TN6W	17.2	0.15	K2289	131.367	200.459	46.071	7.056	0.08502	2.39870	12 X
K07TT4P	18.6	0.15	K2289	287.798	202.636	267.187	1.709	0.16881	2.38812	5 X
K07TV8L	18.8	0.15	K2289	2.780	210.231	155.163	0.918	0.18537	2.41977	7 X
K07TW7T	18.3	0.15	K2289	339.495	152.176	256.839	5.425	0.23345	2.92443	4 X
K07Tg9V	17.7	0.15	K2289	350.780	317.268	74.455	7.417	0.17574	2.40321	9 X
K07Tl1R	18.9	0.15	K2289	11.948	123.088	227.510	3.859	0.24426	2.40744	3 X
K07Tl6Z	18.8	0.15	K2289	331.574	55.692	359.222	2.269	0.16475	2.39369	5 X
K07To4N	18.8	0.15	K2289	1.958	182.648	187.022	0.922	0.18315	2.40407	7 X
K07To6U	18.8	0.15	K2289	326.397	339.128	59.204	7.143	0.08581	2.42623	4 X
K07U05M	17.8	0.15	K2289	21.397	273.810	65.080	3.280	0.19794	2.40565	11 X
K07U53H	18.4	0.15	K2289	333.461	205.124	203.031	2.277	0.14833	2.41447	6 X
K07U56O	17.8	0.15	K2289	326.279	21.543	35.934	14.383	0.12294	2.41113	8 X
K07UC7M	18.9	0.15	K2289	328.003	143.144	277.992	1.157	0.18654	2.41559	5 X
K07UE6F	17.0	0.15	K2289	46.586	108.960	221.856	11.121	0.06955	2.91073	8 X
K07UF1T	18.9	0.15	K2289	6.661	10.174	349.782	3.094	0.21361	2.40618	2 X
K07UF2R	17.7	0.15	K2289	147.457	164.334	73.530	3.255	0.02113	2.87460	9 X
K07V06W	21.4	0.15	K2289	348.520	124.339	225.219	39.044	0.33681	1.66330	2 V
K07V22O	18.3	0.15	K2289	75.974	89.775	221.688	13.792	0.02623	2.38937	5 X
K07V25V	18.3	0.15	K2289	0.871	21.448	312.103	1.947	0.17737	2.43421	7 X
K07VC0G	19.7	0.15	K2289	325.527	33.455	38.253	8.223	0.40625	2.41094	2 X
K07VCOZ	17.2	0.15	K2289	266.073	98.236	28.494	12.368	0.06354	2.94063	6 X
K07VK9H	17.5	0.15	K2289	327.875	28.131	36.797	15.859	0.14483	2.90268	4 X
K07VL2L	17.3	0.15	K2289	104.119	198.574	78.269	7.843	0.11900	2.41459	9 X
K07VY5J	17.2	0.15	K2289	251.810	101.040	38.938	13.134	0.05178	2.95282	7 X
K07Va3U	16.5	0.15	K2289	41.233	74.536	272.916	11.073	0.17368	2.90112	10 X
K07Va4N	18.8	0.15	K2289	343.248	165.905	228.461	0.675	0.19973	2.42674	7 X
K07W04Y	19.7	0.15	K2289	25.799	291.461	41.669	21.473	0.11814	1.84513	3 X
K07X23S	17.9	0.15	K2289	307.242	17.470	66.331	1.941	0.16209	2.43240	9 X
K07Y19O	17.5	0.15	K2289	338.266	199.940	210.870	1.504	0.22597	2.97510	5 X
K07Y43E	17.5	0.15	K2289	4.251	63.512	307.046	12.648	0.16112	3.00722	5 X
K07Y54H	16.5	0.15	K2289	82.507	303.690	329.288	8.950	0.06720	3.09858	10 X
K08A52U	16.7	0.15	K2289	7.674	97.246	293.105	8.836	0.05170	3.00537	7 X
K08A75J	16.4	0.15	K2289	212.845	240.761	293.234	15.761	0.06449	3.06209	8 X
K08AB7W	18.5	0.15	K2289	329.339	273.784	149.794	2.687	0.19290	2.46133	8 X
K08AE1K	16.5	0.15	K2289	308.292	177.367	286.138	11.679	0.06810	3.01813	8 X
K08AE2D	17.2	0.15	K2289	301.193	237.691	227.572	5.968	0.17910	2.99101	8 X
K08AE3J	18.7	0.15	K2289	341.010	45.862	351.700	1.812	0.21155	2.45162	5 X
K08B00Y	17.8	0.15	K2289	322.371	19.731	41.814	6.851	0.09699	2.46248	8 X
K08B59Y	16.4	0.15	K2289	171.196	271.688	300.810	10.789	0.01906	3.08136	8 X
K08C10R	17.6	0.15	K2289	330.217	20.077	53.174	1.128	0.31304	2.99403	7 X
K08CB4E	17.0	0.15	K2289	341.599	61.590	349.476	9.338	0.13364	3.04750	7 X
K08CM5E	16.7	0.15	K2289	86.725	347.646	311.463	8.350	0.08384	3.08551	8 X
K08CN4J	16.1	0.15	K2289	167.918	293.868	288.687	12.601	0.06821	3.04000	7 X
K08CO8M	17.3	0.15	K2289	311.865	127.414	317.907	5.286	0.11175	3.05410	8 X
K08CP0J	17.6	0.15	K2289	77.259	239.441	39.106	13.286	0.14713	2.58984	5 X
K08DA0A	16.9	0.15	K2289	240.931	126.010	13.499	14.289	0.08016	3.15180	6 X
K08E18O	16.6	0.15	K2289	280.613	97.081	31.159	11.600	0.09531	3.05998	11 X
K08E95L	15.9	0.15	K2289	25.246	57.216	307.040	9.227	0.09909	3.11755	12 X
K08EA2P	16.7	0.15	K2289	326.246	59.302	5.648	14.631	0.14016	3.08046	6 X
K08EH9W	16.9	0.15	K2289	338.336	80.540	328.120	9.301	0.13311	3.05835	7 X
K08EI7D	16.8	0.15	K2289	162.721	168.578	74.688	8.201	0.10456	3.11447	8 X
K08EJ3H	16.7	0.15	K2289	44.743	311.365	19.602	10.325	0.19499	2.54158	6 X
K08F19Z	17.1	0.15	K2289	338.589	69.679	354.411	8.444	0.27198	3.06771	10 X
K08F30P	16.1	0.15	K2289	53.913	353.169	326.922	4.777	0.15924	3.15693	14 X
K08F69B	16.1	0.15	K2289	179.443	183.697	35.332	23.821	0.10500	3.17976	5 X
K08F84M	17.1	0.15	K2289	276.202	118.765	10.929	10.042	0.16189	3.07154	5 X
K08G67Z	16.5	0.15	K2289	342.179	17.136	42.276	27.936	0.12563	3.13849	5 X
K08GF2E	16.8	0.15	K2289	293.275	100.869	13.030	17.758	0.16852	3.10364	7 X
K08H72M	17.3	0.15	K2289	335.716	59.144	358.765	7.043	0.15134	2.54391	7 X
K08J48O	16.7	0.15	K2289	146.292	199.023	63.203	10.082	0.08653	3.22794	8 X
K08N04H	18.7	0.15	K2289	47.212	348.324	295.931	5.757	0.22759	2.27512	5 X
K08O05S	16.6	0.15	K2289	31.501	66.352	277.533	11.485	0.22768	2.70772	10 X
K08P02U	16.0	0.15	K2289	2.668	257.805	110.650	15.646	0.27901	2.73726	10 X
K08P08Z	18.0	0.15	K2289	52.283	58.935	250.631	4.621	0.16235	2.25436	9 X
K08Q02U	17.5	0.15	K2289	352.066	102.599	281.630	9.279	0.32208	2.75884	5 X
K08Q04K	16.9	0.15	K2289	116.893	340.513	266.044	10.729	0.08110	2.71020	7 X
K08Q06N	16.8	0.15	K2289	38.732	41.995	281.534	10.092	0.18742	2.73785	7 X
K08Q31D	17.8	0.15	K2289	32.882	47.440	271.481	6.301	0.31469	2.75174	5 X
K08Q48F	17.8	0.15	K2289	6.991	62.708	298.766	6.884	0.33227	2.75662	5 X
K08R11A	18.1	0.15	K2289	1.682	9.430	3.755	9.577	0.16731	2.75628	6 V
K08R21F	18.8	0.15	K2289	4.957	33.159	326.033	3.083	0.20971	2.28813	6 X
K08R21G	14.3	0.15	K2289	347.658	92.238	341.424	6.052	0.09489	5.32717	12 X
K08RA0P	18.6	0.15	K2289	329.159	43.443	8.110	6.607	0.20263	2.28668	6 X
K08RA7V	18.1	0.15	K2289	346.790	196.942	196.795	3.483	0.26885	2.75216	5 X
K08RD8A	18.5	0.15	K2289	310.552	147.379	297.707	6.587	0.05612	2.26948	6 X
K08RD8N	17.0	0.15	K2289	3.458	7.322	6.417	3.307	0.20742	2.74699	11 X
K08RE3Y	17.8	0.15	K2289	352.923	31.370	0.167	8.833	0.17273	2.74816	5 X
K08RE4Q	18.4	0.15	K2289	25.415	326.940	8.594	6.161	0.17667	2.28349	4 X
K08RF2N	17.2	0.15	K2289	34.712	359.559	333.274	9.220	0.19181	2.72571	6 X
K08RH7A	18.2	0.15	K2289	86.010	331.313	300.953	3.231	0.09984	2.28856	8 X
K08RH8V	17.9	0.15	K2289	24.215	325.748	30.441	4.683	0.11646	2.74801	6 X
K08RI6B	17.9	0.15	K2289	21.558	332.981	9.294	8.146	0.23244	2.75692	4 X
K08S00G	17.3	0.15	K2289	21.445	21.548	322.330	9.708	0.25079	2.75760	4 X
K08S17F	17.4	0.15	K2289	32.399	347.774	4.403	5.314	0.16582	2.70871	11 X
K08S37H	18.6	0.15	K2289	352.800	1.720	17.038	6.004	0.19098	2.29271	5 X
K08S54G	18.2	0.15	K2289	351.063	17.234	8.441	11.932	0.26270	2.77679	2 X
K08S62M	17.7	0.15	K2289	342.919	75.231	322.958	3.203	0.20990	2.77099	6 X
K08S67U	16.6	0.15	K2289	7.364	344.518	24.071	18.310	0.25648	2.76895	7 X
K08SG4L	18.7	0.15	K2289	2.484	326.545	32.180	5.844	0.27591	2.29366	4 X
K08SI4Q	17.5	0.15	K2289	39.198	326.421	354.671	11.226	0.29071	2.76772	6 X
K08SL9K	17.9	0.15	K2289	10.254	43.604	349.861	6.180	0.26981	2.73248	4 X

K08SP90	17.8	0.15	K2289	24.669	196.669	165.146	4.396	0.11874	2.74592	7 X
K08ST1S	19.5	0.15	K2289	352.171	329.417	44.974	3.785	0.24779	2.29320	4 X
K08SV5Q	17.0	0.15	K2289	45.259	310.593	11.317	17.036	0.15907	2.77716	6 X
K08SV6H	17.8	0.15	K2289	52.615	28.208	298.963	6.463	0.13565	2.26666	8 X
K08SW7P	17.9	0.15	K2289	331.637	71.111	350.890	8.549	0.18577	2.78410	6 X
K08SX7F	17.5	0.15	K2289	42.879	118.118	212.194	5.864	0.04069	2.74700	7 X
K08SZ0A	17.7	0.15	K2289	332.639	137.617	278.486	6.992	0.17849	2.78405	6 X
K08SZ5H	18.4	0.15	K2289	348.478	46.165	349.623	8.386	0.33539	2.77845	4 X
K08T05X	17.5	0.15	K2289	8.059	352.495	7.467	5.934	0.33511	2.76990	4 X
K08T75V	17.9	0.15	K2289	286.691	82.295	15.427	6.982	0.04922	2.28198	7 X
K08TA4Z	18.0	0.15	K2289	13.577	138.059	215.581	5.784	0.33014	2.76889	4 X
K08TB8Y	17.5	0.15	K2289	37.728	99.558	239.598	2.065	0.10186	2.74901	8 X
K08TE4J	19.1	0.15	K2289	5.256	182.943	173.854	1.782	0.22771	2.29261	4 X
K08TH5U	17.6	0.15	K2289	356.392	87.739	301.803	6.782	0.13682	2.76843	6 X
K08TI3R	18.3	0.15	K2289	337.305	258.282	160.422	2.806	0.22266	2.77922	8 X
K08TI7J	18.1	0.15	K2289	329.817	195.126	227.946	12.157	0.15961	2.77715	5 X
K08TJ3Q	18.0	0.15	K2289	83.343	263.917	22.673	20.823	0.06584	1.98082	9 X
K08TJ6G	17.6	0.15	K2289	326.413	249.770	180.308	5.387	0.05165	2.71984	8 X
K08TJ7F	17.8	0.15	K2289	358.765	177.259	209.598	8.429	0.18420	2.73973	6 X
K08TJ9R	18.4	0.15	K2289	2.651	344.249	26.857	6.747	0.13067	2.28982	10 X
K08TK2Q	18.3	0.15	K2289	343.807	148.470	254.558	6.739	0.22071	2.77332	3 X
K08TK3G	19.6	0.15	K2289	7.376	337.243	16.044	6.503	0.24962	2.30025	4 X
K08TM1F	17.7	0.15	K2289	9.563	41.013	321.970	9.221	0.14663	2.78030	4 X
K08TM7S	17.8	0.15	K2289	54.256	113.948	188.825	13.895	0.16353	2.77741	6 X
K08TN7A	18.2	0.15	K2289	22.897	61.614	290.920	6.265	0.16776	2.28264	7 X
K08TN8O	19.6	0.15	K2289	340.720	114.155	265.116	6.402	0.21831	2.30450	2 X
K08U06A	18.3	0.15	K2289	12.975	16.286	329.324	4.440	0.21353	2.30850	7 X
K08U09M	17.7	0.15	K2289	0.519	339.602	24.799	2.986	0.20214	2.77557	6 X
K08U41E	18.0	0.15	K2289	36.059	79.654	233.821	6.084	0.28440	2.30699	5 X
K08U59X	18.4	0.15	K2289	358.373	357.497	15.948	7.147	0.13690	2.30543	6 X
K08U73G	18.8	0.15	K2289	317.902	131.423	306.858	3.379	0.22780	2.30692	5 X
K08U97X	17.0	0.15	K2289	26.613	302.404	59.796	14.039	0.22111	2.76008	5 X
K08UE6E	17.7	0.15	K2289	6.139	342.752	43.179	10.282	0.16365	2.75930	5 X
K08UM4T	17.7	0.15	K2289	317.583	82.526	14.484	7.466	0.19244	2.78781	5 X
K08UN4O	17.3	0.15	K2289	2.800	106.013	269.842	5.831	0.16921	2.79432	6 X
K08U01G	18.3	0.15	K2289	347.150	135.025	263.079	6.673	0.22784	2.79869	4 X
K08UP9V	17.3	0.15	K2289	16.458	304.202	60.789	1.167	0.08579	2.80788	9 X
K08US7G	18.4	0.15	K2289	27.717	231.390	87.085	3.769	0.21315	2.31354	4 X
K08UU5Y	18.2	0.15	K2289	349.546	18.916	15.387	9.345	0.20323	2.79255	4 X
K08UV0G	17.9	0.15	K2289	317.167	172.076	283.229	7.169	0.19325	2.28503	7 X
K08UW6M	18.3	0.15	K2289	0.549	42.890	337.780	7.190	0.13911	2.29421	7 X
K08UX2D	14.7	0.15	K2289	337.409	36.514	49.942	32.652	0.09008	5.20549	2 X
K08UZ6S	18.6	0.15	K2289	6.169	95.387	256.809	10.917	0.32132	2.30774	3 X
K08Ub8A	18.4	0.15	K2289	304.806	181.392	280.340	4.735	0.16913	2.30281	6 X
K08Uc8F	18.0	0.15	K2289	13.210	22.338	344.122	6.925	0.14860	2.29361	9 X
K08Uc9Q	18.1	0.15	K2289	69.169	13.399	283.722	6.567	0.12454	2.30158	10 X
K08V06P	17.7	0.15	K2289	264.953	273.383	208.278	9.400	0.07319	2.81939	7 X
K08V12P	17.9	0.15	K2289	34.415	290.051	62.579	25.079	0.27180	2.27502	3 X
K08V91T	17.4	0.15	K2289	2.830	83.806	293.025	5.009	0.08895	2.79832	7 X
K08V95E	18.2	0.15	K2289	64.434	8.324	293.385	6.453	0.12744	2.31344	6 X
K08VA3Y	17.3	0.15	K2289	43.123	272.007	49.075	14.344	0.18098	2.80023	4 X
K08W04J	19.4	0.15	K2289	335.643	159.789	245.429	4.753	0.22213	2.30334	2 X
K08W35A	17.5	0.15	K2289	337.722	16.003	49.921	26.489	0.16826	2.77233	4 X
K08W43G	18.6	0.15	K2289	323.998	18.219	44.877	3.913	0.16907	2.31460	8 X
K08W55Y	18.0	0.15	K2289	210.150	258.977	279.013	4.516	0.09725	2.31669	8 X
K08WE4Z	17.9	0.15	K2289	136.958	324.744	274.730	6.058	0.07940	2.32433	7 X
K08WF8W	17.9	0.15	K2289	347.179	343.487	62.916	11.173	0.11655	2.79943	6 X
K08WG7H	17.8	0.15	K2289	4.553	308.401	69.616	9.243	0.14971	2.80210	4 X
K08X27W	18.0	0.15	K2289	339.143	59.914	23.931	6.033	0.28698	2.77706	4 X
K08X45T	18.2	0.15	K2289	331.581	118.318	292.722	4.886	0.15231	2.31520	8 X
K08X65Q	17.8	0.15	K2289	302.081	24.814	80.624	10.702	0.12536	2.83399	6 X
K08Y36S	18.1	0.15	K2289	1.951	86.685	298.869	6.015	0.12556	2.34004	5 X
K08Y36Y	18.8	0.15	K2289	323.959	328.787	98.938	3.406	0.13206	2.34287	5 X
K08Y44F	17.5	0.15	K2289	324.014	168.822	301.678	8.227	0.23074	2.79699	8 X
K08YB3F	18.9	0.15	K2289	342.189	96.474	299.964	4.576	0.16371	2.33968	5 X
K08YJ4S	19.4	0.15	K2289	308.559	149.851	277.685	1.771	0.16586	2.35053	5 X
K09A02P	17.6	0.15	K2289	311.934	112.183	325.523	7.060	0.08023	2.34087	12 X
K09A18C	17.2	0.15	K2289	346.330	110.678	289.941	10.279	0.12164	2.86012	8 X
K09B20U	18.2	0.15	K2289	359.911	83.004	301.060	6.706	0.12119	2.34505	6 X
K09B48X	17.6	0.15	K2289	109.411	148.163	120.902	3.559	0.15707	2.39224	11 X
K09BB6G	18.7	0.15	K2289	188.069	81.126	108.138	2.945	0.13691	2.38850	8 X
K09BC1T	18.3	0.15	K2289	326.616	101.507	317.036	3.931	0.20121	2.35754	7 X
K09BG8X	16.6	0.15	K2289	5.793	78.478	297.691	10.044	0.12607	2.93814	8 X
K09BK8J	16.8	0.15	K2289	106.682	284.535	351.344	9.694	0.05467	2.96428	12 X
K09C67Y	16.9	0.15	K2289	306.296	98.571	349.245	10.164	0.07480	2.92965	8 X
K09D16Y	18.5	0.15	K2289	310.439	128.002	347.105	6.481	0.18815	2.32734	7 X
K09D99X	18.0	0.15	K2289	297.273	342.285	99.812	3.263	0.18978	2.39134	9 X
K09DA9Q	17.6	0.15	K2289	291.148	242.668	220.803	4.158	0.17619	2.36570	11 X
K09DG2Q	17.7	0.15	K2289	16.291	288.887	54.856	9.547	0.13297	3.07153	3 X
K09F91O	18.0	0.15	K2289	151.810	171.900	47.290	4.242	0.17533	3.06293	4 X
K09F94A	18.3	0.15	K2289	180.299	198.182	5.643	6.110	0.07265	2.41963	8 X
K09H53D	17.1	0.15	K2289	48.372	186.253	160.845	4.535	0.03552	3.02724	7 X
K09H90K	16.2	0.15	K2289	106.621	233.217	33.829	27.546	0.19910	3.11746	7 X
K09K03E	18.3	0.15	K2289	0.403	319.950	13.753	5.857	0.70309	2.67001	6 V
K09O21N	19.2	0.15	K2289	15.211	327.714	353.121	7.961	0.38600	2.17872	2 X
K09O27Z	17.8	0.15	K2289	331.280	148.501	265.688	8.736	0.19130	2.59784	6 X
K09O28C	17.8	0.15	K2289	37.289	197.903	130.366	2.557	0.14629	2.59005	9 X
K09P10E	17.5	0.15	K2289	6.507	37.365	319.093	5.688	0.30671	2.61735	7 X
K09Q37F	17.2	0.15	K2289	359.155	147.716	222.908	29.880	0.35956	2.63922	7 X
K09Q69V	17.6	0.15	K2289	28.511	69.290	256.193	15.243	0.24075	2.62184	6 X
K09R06Q	17.8	0.15	K2289	81.831	325.380	321.629	3.828	0.17956	2.59801	8 X
K09R12C	18.9	0.15	K2289	341.247	32.380	7.520	5.226	0.17675	2.17660	5 X
K09R34W	17.4	0.15	K2289	29.183	301.936	14.910	15.667	0.35402	2.64355	5 X

K09R43A	14.4	0.15	K2289	349.067	95.523	329.783	7.306	0.08824	5.19357	9 X
K09R53X	17.6	0.15	K2289	20.584	326.473	26.055	9.681	0.24646	2.63230	3 X
K09R84A	19.0	0.15	K2289	352.415	12.252	1.961	3.363	0.12440	2.18603	3 X
K09S04K	17.8	0.15	K2289	358.357	74.830	300.627	6.466	0.24474	2.62292	6 X
K09S08A	19.0	0.15	K2289	337.086	164.653	225.328	6.219	0.07295	2.17301	6 X
K09S33M	18.4	0.15	K2289	19.647	134.601	219.481	7.031	0.14632	2.63595	8 X
K09S33N	19.2	0.15	K2289	347.238	41.686	345.796	5.124	0.13705	2.18315	4 X
K09S39R	18.0	0.15	K2289	353.549	19.479	5.363	6.325	0.17903	2.64462	5 X
K09S50W	18.0	0.15	K2289	16.402	14.737	3.545	6.480	0.30250	2.59863	4 X
K09S61U	18.9	0.15	K2289	21.706	147.480	184.083	5.516	0.26187	2.62684	2 X
K09S67L	19.3	0.15	K2289	194.188	161.250	22.648	20.848	0.02589	1.87845	5 X
K09SABY	17.2	0.15	K2289	3.089	74.755	299.762	6.114	0.15548	2.61439	10 X
K09SB0S	17.8	0.15	K2289	8.632	355.403	350.538	8.568	0.35340	2.64678	4 X
K09SC3P	16.2	0.15	K2289	226.423	302.348	228.378	8.953	0.01156	3.39369	10 X
K09SD5E	16.9	0.15	K2289	285.846	88.295	15.377	22.331	0.02927	2.63431	7 X
K09SG8Y	17.6	0.15	K2289	18.197	348.678	346.232	14.767	0.28155	2.63257	2 X
K09SI3R	18.5	0.15	K2289	28.375	102.061	241.320	6.091	0.09474	2.17850	8 X
K09SI4M	18.1	0.15	K2289	352.586	117.343	266.817	3.708	0.25704	2.64265	6 X
K09SI8K	17.1	0.15	K2289	204.706	87.529	113.002	5.353	0.13218	2.60762	11 X
K09SK6W	16.7	0.15	K2289	129.129	255.540	355.458	7.833	0.05657	2.61299	13 X
K09SLOE	18.3	0.15	K2289	347.829	181.015	209.254	0.551	0.21853	2.64246	4 X
K09SN4E	19.0	0.15	K2289	9.850	308.497	26.220	6.749	0.34861	2.18843	3 X
K09SR7H	17.5	0.15	K2289	40.344	315.333	19.765	12.359	0.12343	2.61847	7 X
K09SV3D	18.3	0.15	K2289	50.580	276.571	36.501	5.688	0.12791	2.17861	8 X
K09SX1J	18.9	0.15	K2289	23.161	283.303	47.119	4.164	0.22431	2.17699	7 X
K09SY3M	18.7	0.15	K2289	12.421	308.803	46.817	4.799	0.22765	2.63432	3 X
K09SZ0T	18.2	0.15	K2289	349.403	354.267	31.593	7.374	0.21002	2.65202	2 X
K09SZ9H	17.6	0.15	K2289	44.063	344.755	343.438	4.620	0.25282	2.60802	6 X
K09Sc4K	17.9	0.15	K2289	329.091	50.295	21.538	13.133	0.24908	2.63937	4 X
K09Sc6P	18.6	0.15	K2289	331.611	75.173	345.689	10.631	0.29081	2.64867	4 X
K09Se8V	18.3	0.15	K2289	329.174	233.016	197.122	6.990	0.22829	2.63993	8 X
K09Sf2A	16.5	0.15	K2289	75.125	12.731	270.161	5.542	0.13616	3.49765	7 X
K09Sg6O	19.5	0.15	K2289	352.532	352.035	25.204	5.499	0.18380	2.18194	2 X
K09T04B	17.1	0.15	K2289	311.155	222.737	224.566	31.166	0.20242	2.64764	6 X
K09T06T	16.4	0.15	K2289	54.708	328.727	359.710	8.486	0.17284	2.61801	14 X
K09T36X	17.4	0.15	K2289	343.801	345.148	50.672	11.731	0.30432	2.65782	6 X
K09T38S	18.8	0.15	K2289	4.373	167.755	186.121	1.388	0.23327	2.18793	8 X
K09U43G	18.8	0.15	K2289	124.705	28.085	209.499	23.393	0.08709	1.88869	5 X
K09U69P	16.8	0.15	K2289	30.067	305.614	41.204	13.567	0.26671	2.62873	7 X
K09U73E	17.3	0.15	K2289	357.160	11.128	8.306	14.980	0.12592	2.61913	7 X
K09UB5F	15.7	0.15	K2289	128.445	240.137	23.035	10.188	0.02377	3.40610	11 X
K09UE0X	19.3	0.15	K2289	321.095	11.061	51.124	7.097	0.18006	2.19974	4 X
K09UG7R	17.9	0.15	K2289	311.522	184.650	240.503	20.247	0.07526	1.88719	7 X
K09UG9H	17.9	0.15	K2289	310.829	53.292	29.711	16.910	0.16090	2.63945	5 X
K09UG9J	18.6	0.15	K2289	322.978	38.652	41.482	12.578	0.32339	2.65374	3 X
K09UH6S	17.5	0.15	K2289	323.155	156.868	272.013	8.591	0.15523	2.65993	7 X
K09UI6C	17.6	0.15	K2289	39.330	36.398	275.270	6.885	0.30218	2.65397	6 X
K09UJ3J	17.3	0.15	K2289	63.660	260.446	44.602	6.385	0.14598	2.65500	10 X
K09V23F	17.7	0.15	K2289	358.784	153.947	222.758	4.932	0.15920	2.67882	6 X
K09V53S	18.0	0.15	K2289	327.965	184.302	237.735	5.576	0.09807	2.65179	5 X
K09V70K	17.4	0.15	K2289	346.444	10.615	55.404	14.673	0.23346	2.64214	7 X
K09V97R	17.2	0.15	K2289	16.283	108.865	253.460	11.455	0.19916	2.66189	7 X
K09VC6M	18.1	0.15	K2289	344.938	24.543	13.986	3.223	0.10872	2.67300	7 X
K09VC8B	18.0	0.15	K2289	300.908	217.125	250.878	7.661	0.22966	2.65690	7 X
K09VD3F	19.0	0.15	K2289	24.187	103.580	231.473	19.354	0.11120	1.89845	4 X
K09VD3J	18.1	0.15	K2289	355.075	149.386	239.156	5.321	0.11283	2.66270	6 X
K09W07J	17.1	0.15	K2289	304.916	208.384	238.295	21.302	0.04237	2.67005	8 X
K09W12J	17.6	0.15	K2289	340.463	353.643	49.731	14.921	0.23900	2.65472	5 X
K09W26G	18.3	0.15	K2289	339.148	157.223	230.380	19.403	0.08734	1.88978	5 X
K09W80R	17.7	0.15	K2289	313.659	70.324	61.634	12.280	0.25234	2.63386	9 X
K09WE2M	18.7	0.15	K2289	167.860	326.062	249.633	19.503	0.02576	1.88894	5 X
K09WE3B	17.2	0.15	K2289	308.897	46.547	43.783	22.616	0.03587	2.62702	7 X
K09WI7B	18.0	0.15	K2289	24.408	81.331	263.880	3.951	0.17630	2.66628	6 V
K09WJ1E	17.4	0.15	K2289	37.346	95.995	240.650	13.025	0.13269	2.66575	5 V
K09WJ1H	17.2	0.15	K2289	30.202	302.065	56.309	12.045	0.27319	2.62505	5 X
K09WN3P	17.6	0.15	K2289	346.695	359.577	33.068	17.205	0.16864	2.64445	7 X
K09WR9F	17.3	0.15	K2289	351.179	139.973	260.435	12.369	0.21205	2.70999	5 X
K09WS1P	17.8	0.15	K2289	324.300	171.768	259.649	3.640	0.17379	2.69067	8 X
K09WT4U	15.6	0.15	K2289	32.846	85.207	264.486	16.561	0.09636	3.56346	7 X
K09X09B	17.2	0.15	K2289	329.272	188.049	269.652	13.285	0.21829	2.64513	7 X
K09X15M	17.8	0.15	K2289	324.040	160.089	278.671	8.596	0.26751	2.69425	4 X
K09Y14F	17.4	0.15	K2289	350.945	80.692	317.132	4.308	0.16425	2.71155	9 X
K09Y29H	17.6	0.15	K2289	337.549	121.705	285.252	7.997	0.29175	2.72043	5 X
K10A19L	18.0	0.15	K2289	321.937	133.474	293.769	7.983	0.14357	2.73048	4 X
K10A56P	17.6	0.15	K2289	334.023	0.896	53.412	6.084	0.11564	2.71364	8 X
K10AE1Z	17.6	0.15	K2289	331.423	136.265	282.821	7.840	0.19954	2.72670	5 X
K10AF5K	17.6	0.15	K2289	359.103	54.848	323.048	8.015	0.21911	2.70863	6 X
K10AF9N	17.9	0.15	K2289	340.276	332.634	80.964	8.444	0.08995	2.71038	7 X
K10B14K	12.7	0.15	K2289	102.843	49.769	264.249	32.267	0.03795	5.18919	8 X
K10B42Z	13.7	0.15	K2289	20.137	336.151	59.999	27.066	0.07563	5.27950	11 X
K10BB6X	16.4	0.00	K2289	41.661	85.186	250.454	25.934	0.08587	2.65691	7 X
K10C76D	17.5	0.15	K2289	166.261	257.316	323.265	6.139	0.11188	2.28857	10 X
K10C90U	16.5	0.15	K2289	352.764	112.706	290.990	5.092	0.07281	2.76069	13 X
K10CB7W	17.3	0.15	K2289	346.526	325.850	71.135	3.049	0.08844	2.74729	12 X
K10CD5R	16.8	0.15	K2289	200.807	217.855	331.636	10.688	0.05854	2.92207	12 X
K10CI1P	17.1	0.15	K2289	311.320	97.642	346.491	11.718	0.06987	2.77976	9 X
K10CROP	17.3	0.15	K2289	343.077	97.463	298.224	9.924	0.25175	2.74153	7 X
K10D24C	18.5	0.15	K2289	319.134	109.550	314.285	12.258	0.31269	2.68402	4 V
K10D74Z	18.7	0.15	K2289	293.495	126.774	335.275	2.756	0.16938	2.25102	8 X
K10E12G	18.1	0.15	K2289	282.796	201.264	266.911	6.177	0.12212	2.26284	10 X
K10E40N	17.5	0.15	K2289	281.412	149.575	348.350	8.051	0.32082	2.73906	5 X
K10EB4C	17.6	0.15	K2289	215.335	187.731	341.978	5.491	0.09151	2.28570	10 X
K10ED5D	18.5	0.15	K2289	260.532	81.887	51.066	5.521	0.10936	2.28398	9 X

K10F11F	17.6	0.15	K2289	298.921	104.485	1.047	7.506	0.18708	2.77021	8 X
K10F28P	16.3	0.15	K2289	336.285	27.914	42.889	14.928	0.24868	2.73171	8 X
K10F65O	17.3	0.15	K2289	334.467	75.571	344.831	7.692	0.18198	2.69580	8 X
K10FD7T	17.1	0.15	K2289	324.429	35.307	33.948	15.481	0.12471	2.85320	6 X
K10FEOP	18.0	0.15	K2289	52.842	320.777	34.070	8.241	0.14877	2.28034	6 X
K10G25Z	18.6	0.15	K2289	134.207	79.342	157.755	2.352	0.17371	2.33954	6 X
K10G88F	16.3	0.15	K2289	136.916	327.403	284.720	12.345	0.01709	2.76213	10 X
K10G90A	16.9	0.15	K2289	7.426	337.891	29.977	11.252	0.23694	3.14999	6 X
K10GC5F	17.7	0.15	K2289	227.074	55.580	97.008	4.712	0.15452	2.87369	4 X
K10H38K	16.6	0.15	K2289	59.546	356.238	324.553	8.440	0.14671	3.09970	9 X
K10H50H	16.6	0.15	K2289	55.966	329.449	347.107	12.621	0.17834	3.12466	9 X
K10H57C	16.9	0.15	K2289	57.373	36.645	292.478	13.803	0.05800	3.08494	8 X
K10H86K	17.3	0.15	K2289	340.466	146.472	307.260	10.996	0.14683	2.67362	5 X
K10HD1Z	16.5	0.15	K2289	72.439	50.120	262.103	16.167	0.09521	3.09055	8 X
K10J14C	16.0	0.00	K2289	69.778	29.423	270.440	9.335	0.20314	3.13114	8 X
K10J26F	17.0	0.15	K2289	50.171	74.901	237.803	25.401	0.26733	3.16907	5 X
K10J36H	17.4	0.15	K2289	41.305	159.530	129.157	1.565	0.12410	3.08719	6 X
K10J62N	16.7	0.15	K2289	11.028	356.554	7.028	15.415	0.19379	3.17724	5 X
K10JH9G	16.2	0.15	K2289	53.666	294.008	22.753	10.413	0.17078	2.97886	13 X
K10K01M	16.4	0.15	K2289	339.650	160.751	292.195	12.859	0.13956	2.69806	10 X
K10K46W	16.7	0.15	K2289	143.097	18.410	225.435	22.773	0.12440	3.08504	7 X
K10K69R	16.7	0.15	K2289	12.537	128.194	241.921	17.585	0.14732	3.18127	6 X
K10K81E	17.1	0.15	K2289	24.852	316.280	36.750	18.489	0.22926	3.19115	4 X
K10K85Q	16.1	0.15	K2289	50.043	64.543	260.447	14.740	0.10652	3.17460	9 X
K10KB1N	16.6	0.15	K2289	33.407	167.271	180.467	5.695	0.20180	3.18193	7 X
K10KB4H	16.5	0.15	K2289	85.078	356.387	297.769	14.743	0.03283	3.16795	9 X
K10KCK	17.5	0.15	K2289	282.401	194.187	280.301	9.710	0.13400	2.78767	7 X
K10KF8B	18.3	0.15	K2289	322.947	12.224	73.768	23.906	0.07350	1.95646	6 X
K10L68X	16.4	0.15	K2289	5.230	127.075	254.401	20.901	0.07307	3.18512	8 X
K10L84C	16.5	0.15	K2289	22.457	1.380	6.422	13.234	0.09887	3.17525	10 X
K10L86P	16.8	0.15	K2289	2.721	17.466	6.158	5.570	0.16485	3.21128	6 X
K10LB5W	16.0	0.15	K2289	318.227	186.775	249.984	26.090	0.11947	3.19536	7 X
K10LC6A	15.8	0.15	K2289	32.416	78.924	264.102	14.966	0.12720	3.21431	8 X
K10LD0X	16.7	0.15	K2289	1.867	32.318	41.598	9.745	0.12543	3.08754	11 X
K10LD5U	18.0	0.15	K2289	56.373	90.897	216.436	11.520	0.12908	2.39281	7 X
K10M17E	16.0	0.15	K2289	92.578	35.454	262.124	21.270	0.08672	3.15575	8 X
K10M33N	16.1	0.15	K2289	234.632	271.889	268.352	16.664	0.08864	3.10914	9 X
K10M45W	16.2	0.15	K2289	96.265	34.348	260.821	25.518	0.13132	3.14916	5 X
K10M93E	16.5	0.15	K2289	153.719	328.076	268.205	14.736	0.04025	3.19117	7 X
K10M94N	15.9	0.15	K2289	94.775	282.080	20.949	18.662	0.01793	3.17056	7 X
K10N38P	15.7	0.15	K2289	279.236	230.415	265.497	15.553	0.05826	3.16021	11 X
K10N39W	15.2	0.15	K2289	257.611	217.669	297.320	11.711	0.18632	3.18080	10 X
K10N66O	16.5	0.15	K2289	110.950	31.214	239.039	26.616	0.14025	3.20195	8 X
K10NA4W	16.0	0.15	K2289	339.105	167.993	253.703	21.772	0.10989	3.22672	10 X
K10O65J	16.4	0.15	K2289	204.666	272.547	276.331	11.769	0.07819	2.48963	12 X
K10P93Q	16.5	0.15	K2289	345.217	247.506	166.337	16.862	0.31052	3.19611	8 X
K10R31N	16.1	0.15	K2289	86.371	335.727	330.520	9.183	0.08963	3.12082	14 X
K10RC4V	15.9	0.15	K2289	140.348	257.549	16.411	9.866	0.02384	3.13227	12 X
K10RJ3Y	17.0	0.15	K2289	328.937	112.044	310.326	9.835	0.12945	3.21224	7 X
K10T50E	15.9	0.15	K2289	180.570	185.564	28.988	34.084	0.04946	3.23029	7 X
K10T67E	15.8	0.15	K2289	73.286	322.559	351.389	9.830	0.12465	3.13492	14 X
K10TL6R	18.5	0.15	K2289	299.593	40.569	40.974	2.583	0.09324	2.52073	3 X
K10TM1W	14.5	0.15	K2289	329.227	60.400	17.538	15.021	0.12928	5.18964	8 X
K10TN3S	18.5	0.15	K2289	24.263	330.053	5.308	7.094	0.22573	2.52077	4 X
K10U31C	14.2	0.15	K2289	335.537	200.751	231.102	20.358	0.12911	5.16866	5 X
K10U47O	18.4	0.15	K2289	24.237	35.326	299.927	1.584	0.14625	2.52408	6 V
K10UC6D	14.1	0.15	K2289	340.865	162.943	262.300	16.813	0.12115	5.26052	5 X
K10V82U	13.0	0.15	K2289	15.706	343.675	55.698	35.873	0.05102	5.16860	9 X
K10VF0Y	14.6	0.15	K2289	349.665	302.808	118.713	6.075	0.03537	5.23652	8 X
K10VM9X	17.5	0.15	K2289	17.828	29.234	321.657	5.654	0.24570	2.52868	6 X
K10VO4S	14.7	0.15	K2289	347.196	325.055	100.500	8.997	0.09261	5.10433	9 X
K10W07Z	17.1	0.15	K2289	30.031	78.083	274.108	10.843	0.07083	2.53209	7 X
K10X28P	18.7	0.15	K2289	345.932	122.556	272.498	2.677	0.19747	2.53491	5 X
K10X34C	15.9	0.15	K2289	47.545	91.526	244.306	9.021	0.04418	3.38265	11 X
K10X51G	18.0	0.15	K2289	316.663	186.684	251.201	8.896	0.17226	2.57152	5 X
K10Y04L	18.3	0.15	K2289	333.307	40.258	11.518	8.425	0.21493	2.57811	4 X
K11A04A	17.1	0.15	K2289	352.581	324.428	61.075	10.342	0.18491	2.56682	7 V
K11A29L	18.1	0.15	K2289	359.590	6.742	9.820	6.980	0.28310	2.55747	4 X
K11A58G	17.6	0.15	K2289	326.895	220.655	202.294	1.020	0.19211	2.57393	9 X
K11A90C	17.6	0.15	K2289	39.364	87.965	239.661	7.219	0.16049	2.56163	7 X
K11B09Y	15.1	0.15	K2289	158.978	308.804	305.327	8.467	0.05808	3.44573	13 X
K11B13B	17.5	0.15	K2289	110.509	199.046	50.204	6.814	0.07476	2.69136	9 X
K11B13L	18.0	0.15	K2289	307.525	117.385	332.981	9.027	0.16958	2.57877	5 X
K11B24T	14.1	0.15	K2289	308.198	64.499	46.346	27.162	0.22904	5.20524	5 X
K11B30R	18.4	0.15	K2289	339.156	4.065	43.920	3.697	0.16553	2.58935	5 X
K11BB2M	18.6	0.15	K2289	305.082	225.684	235.717	4.631	0.26548	2.58630	4 X
K11BB8Q	17.4	0.15	K2289	353.767	40.294	352.758	7.021	0.19691	2.57277	8 X
K11BC7R	17.6	0.15	K2289	76.333	349.026	305.789	11.119	0.18087	2.63685	6 X
K11BD8R	17.1	0.15	K2289	31.940	11.286	330.674	8.829	0.12971	2.61703	11 X
K11BI5G	17.6	0.15	K2289	12.646	339.058	34.186	20.033	0.09748	2.67800	5 X
K11C00B	17.5	0.15	K2289	4.741	3.269	28.103	7.955	0.27064	2.54694	4 X
K11C15F	18.2	0.15	K2289	346.772	83.914	310.006	2.303	0.20660	2.59578	5 X
K11C69D	16.6	0.15	K2289	166.192	314.477	266.937	10.681	0.13287	2.63243	9 X
K11E46K	18.2	0.15	K2289	338.584	113.801	304.451	4.181	0.24490	2.59921	6 X
K11E91T	17.1	0.15	K2289	82.566	276.505	23.808	13.601	0.11081	2.71323	9 X
K11E95X	17.2	0.15	K2289	334.654	194.145	213.594	6.796	0.00893	2.72934	9 X
K11F02X	18.4	0.15	K2289	49.314	260.431	53.078	21.057	0.07674	1.86521	6 V
K11F84N	18.0	0.15	K2289	54.450	324.077	335.334	7.043	0.27761	2.24891	4 X
K11F96S	17.5	0.15	K2289	9.170	33.838	343.360	5.888	0.06475	2.69795	9 X
K11FB0V	17.0	0.15	K2289	355.198	143.244	246.311	3.745	0.05221	2.70230	13 X
K11FG0B	17.2	0.15	K2289	19.584	69.927	288.157	6.853	0.22763	2.69479	6 X
K11G11P	17.1	0.15	K2289	351.554	43.841	343.941	6.741	0.18511	2.72867	8 X
K11G62D	17.0	0.15	K2289	355.924	71.395	241.936	10.345	0.68977	3.08616	3 V

K11G87A	18.3	0.15	K2289	315.339	82.560	359.003	14.448	0.26271	2.60712	5 X
K11M09F	17.5	0.15	K2289	338.611	74.821	281.051	20.899	0.24996	2.36204	5 X
K11O20W	17.0	0.15	K2289	28.266	98.953	264.504	8.860	0.12839	2.96508	9 X
K11O25J	18.7	0.15	K2289	22.921	15.697	311.260	6.049	0.26377	2.33338	4 X
K11O27O	18.6	0.15	K2289	356.925	21.473	351.609	5.963	0.25528	2.32071	5 X
K11O62T	17.4	0.15	K2289	10.633	90.820	280.757	10.495	0.07792	2.95397	7 X
K11P07W	17.4	0.15	K2289	16.542	52.423	317.850	6.958	0.07084	2.99974	7 X
K11P15F	16.7	0.15	K2289	24.598	122.857	230.863	13.993	0.14765	2.97324	11 X
K11Q46H	19.2	0.15	K2289	351.900	176.867	190.346	9.901	0.44495	2.36913	3 X
K11Q55B	15.9	0.15	K2289	331.307	122.922	290.845	10.095	0.01571	3.01073	14 X
K11Q76R	18.7	0.15	K2289	26.201	353.662	345.206	7.579	0.23858	2.33835	6 X
K11Q92H	18.0	0.15	K2289	333.387	127.536	277.547	5.830	0.12449	2.33772	7 X
K11Q93S	16.9	0.15	K2289	3.109	64.823	321.764	7.069	0.27921	3.05816	6 X
K11Q96A	18.1	0.15	K2289	122.192	359.871	253.692	18.649	0.05025	1.92317	5 X
K11QA9F	18.4	0.15	K2289	47.537	347.254	336.075	6.333	0.12679	2.32359	7 X
K11R25T	18.5	0.15	K2289	330.975	75.958	346.913	6.548	0.16623	2.33984	5 X
K11R26T	18.6	0.15	K2289	57.952	304.328	358.852	5.329	0.16396	2.34740	5 X
K11S24J	17.1	0.15	K2289	355.140	26.073	2.018	8.105	0.17300	3.08468	6 X
K11S33E	18.1	0.15	K2289	359.400	355.162	12.171	2.359	0.22623	2.35480	9 X
K11S67J	18.3	0.15	K2289	5.632	118.641	238.459	5.353	0.24049	2.35348	7 X
K11S68H	16.8	0.15	K2289	15.156	97.861	264.464	8.119	0.34247	3.06226	5 X
K11S84P	17.9	0.15	K2289	265.610	72.403	43.599	6.981	0.03596	2.37158	9 X
K11S91M	16.8	0.15	K2289	9.728	141.821	221.030	9.183	0.22299	3.10673	6 X
K11SA2H	18.7	0.15	K2289	55.993	92.361	211.632	11.132	0.27002	2.33287	5 X
K11SB7S	18.1	0.15	K2289	3.348	357.049	18.227	5.801	0.19607	2.34323	7 X
K11SC4F	17.0	0.15	K2289	342.975	33.532	19.487	10.487	0.18243	3.07013	8 X
K11SD2Z	16.9	0.15	K2289	4.942	335.374	33.922	14.557	0.13719	3.10330	5 X
K11SD4P	16.4	0.15	K2289	27.565	64.740	281.686	11.453	0.25309	3.06545	6 X
K11SE1J	17.4	0.15	K2289	12.902	165.354	195.327	3.235	0.19150	3.08938	6 X
K11SE2V	17.6	0.15	K2289	323.400	258.439	175.664	1.812	0.20379	3.09677	6 X
K11SF9E	17.1	0.15	K2289	349.932	80.352	320.742	7.218	0.08090	3.05924	6 X
K11SH4F	18.1	0.15	K2289	44.189	293.656	17.536	8.067	0.31016	2.34089	6 X
K11SH6J	16.8	0.15	K2289	39.120	334.949	357.557	6.092	0.18286	3.05878	8 X
K11SH7L	18.1	0.15	K2289	4.436	7.489	3.133	4.027	0.19996	2.35107	6 X
K11SJ9F	19.2	0.15	K2289	337.976	14.984	24.443	2.412	0.22193	2.35094	3 X
K11SL5F	17.4	0.15	K2289	353.668	7.753	25.584	18.943	0.32446	3.10689	2 X
K11SL9W	17.4	0.15	K2289	314.611	86.569	357.368	4.233	0.10864	3.02544	5 X
K11SM2P	16.9	0.15	K2289	15.670	16.269	352.131	10.765	0.09616	3.08850	6 X
K11SM3K	17.2	0.15	K2289	12.566	347.339	15.559	1.839	0.21478	3.07822	5 X
K11SM8Y	17.8	0.15	K2289	353.806	99.957	294.615	5.931	0.19793	3.07864	5 X
K11SP7M	16.9	0.15	K2289	343.956	184.682	221.558	13.141	0.14338	3.09403	4 X
K11SQ1P	18.8	0.15	K2289	331.310	27.627	23.062	2.501	0.18402	2.35231	7 X
K11SR7X	18.5	0.15	K2289	340.560	354.748	37.588	21.114	0.10474	1.95539	6 X
K11SU0S	17.3	0.15	K2289	357.674	355.868	41.994	12.116	0.24801	3.08033	5 X
K11SU1E	18.2	0.15	K2289	339.243	155.647	245.204	11.590	0.19426	2.35526	5 X
K11SU7R	17.3	0.15	K2289	340.338	189.866	218.929	15.131	0.12467	3.07960	5 X
K11SU9J	16.8	0.15	K2289	27.703	7.853	349.844	9.280	0.07948	3.08203	8 X
K11SV3A	17.2	0.15	K2289	16.260	331.719	28.080	17.826	0.18298	3.08170	4 X
K11SX3J	18.3	0.15	K2289	354.778	260.103	111.570	2.262	0.19977	2.37571	6 X
K11SY0Z	17.5	0.15	K2289	339.842	106.141	305.457	0.110	0.18668	3.10165	7 X
K11SY2A	16.9	0.15	K2289	357.002	2.550	29.653	10.634	0.21355	3.06230	6 X
K11SY4L	17.7	0.15	K2289	9.137	11.760	353.683	8.911	0.30146	3.09033	3 X
K11SZ1B	18.5	0.15	K2289	343.822	42.137	336.662	6.611	0.28113	2.36939	3 X
K11SZ4Q	19.1	0.15	K2289	342.455	178.364	215.816	7.200	0.22119	2.35927	3 X
K11SZ5S	17.2	0.15	K2289	343.009	21.628	24.817	19.423	0.11059	3.05240	2 V
K11T07E	17.1	0.15	K2289	3.714	40.743	341.446	4.581	0.14586	3.08658	6 X
K11U03K	16.0	0.15	K2289	338.029	211.637	213.214	21.602	0.24358	3.07940	12 X
K11U13A	17.1	0.15	K2289	341.197	10.794	37.209	6.036	0.23673	3.11925	6 X
K11U26E	18.5	0.15	K2289	6.450	344.045	54.321	4.411	0.17478	2.33851	6 X
K11U29M	16.8	0.15	K2289	18.255	353.140	6.249	9.667	0.12455	3.07962	11 X
K11U31P	17.1	0.15	K2289	12.863	73.537	292.082	7.420	0.27452	3.07479	2 X
K11U42B	18.1	0.15	K2289	345.280	28.245	5.106	3.253	0.16447	2.36390	9 X
K11U42K	18.0	0.15	K2289	316.854	48.421	17.199	7.292	0.09060	2.36945	10 X
K11U47D	17.1	0.15	K2289	344.507	33.354	23.347	11.448	0.21180	3.09313	5 X
K11U51H	16.9	0.15	K2289	10.158	358.245	53.181	9.919	0.24711	3.03993	5 X
K11U51K	18.0	0.15	K2289	343.443	335.728	59.319	6.370	0.19687	2.37901	7 V
K11U56M	16.7	0.15	K2289	332.806	44.386	38.263	15.469	0.18358	3.08710	5 X
K11U58M	18.5	0.15	K2289	8.002	327.475	20.034	12.491	0.36256	3.09198	2 X
K11U71K	16.9	0.15	K2289	327.804	79.192	351.661	12.518	0.14049	3.08973	8 X
K11U89B	16.6	0.15	K2289	352.631	153.563	239.351	13.623	0.19073	3.14843	6 X
K11U91Y	15.9	0.15	K2289	46.690	83.453	234.953	11.088	0.24948	3.08001	11 X
K11UA4H	18.6	0.15	K2289	90.296	241.497	34.587	21.919	0.05610	1.96756	6 X
K11UC6K	18.3	0.15	K2289	24.258	66.312	278.495	4.249	0.23931	2.36126	7 X
K11UD6N	18.8	0.15	K2289	2.458	345.099	25.911	6.483	0.24960	2.36915	4 X
K11UD7N	17.0	0.15	K2289	7.761	333.751	32.263	17.344	0.21577	3.11816	5 X
K11UE1D	17.4	0.15	K2289	15.853	304.630	46.463	17.482	0.30346	3.09876	2 X
K11UE5P	18.6	0.15	K2289	327.762	57.124	359.378	2.312	0.18943	2.39164	7 X
K11UF2N	16.5	0.15	K2289	308.917	217.818	236.346	26.952	0.21066	3.16568	7 X
K11UF8O	16.8	0.15	K2289	6.909	332.374	77.468	19.728	0.23288	3.05498	4 X
K11UG7K	17.4	0.15	K2289	353.089	351.429	28.681	17.677	0.20331	3.11543	3 X
K11UH2N	17.1	0.15	K2289	349.703	123.009	283.595	7.554	0.14534	3.06062	8 X
K11UI3V	17.2	0.15	K2289	359.218	121.183	262.976	8.759	0.24266	3.13363	3 X
K11U00Z	18.4	0.15	K2289	35.742	321.360	20.653	6.662	0.13448	2.34914	6 X
K11U01C	16.7	0.15	K2289	353.645	7.559	25.324	11.788	0.09808	3.09001	7 X
K11UP6G	20.2	0.15	K2289	353.666	132.789	222.678	26.200	0.35091	1.96007	4 V
K11UQ1F	16.8	0.15	K2289	324.832	169.154	257.639	9.108	0.08130	3.14804	7 X
K11UQ4C	18.3	0.15	K2289	298.415	284.920	177.408	4.730	0.14541	2.36302	8 X
K11UQ7N	16.5	0.15	K2289	345.533	16.879	44.438	19.153	0.23085	3.09229	7 X
K11UR2Z	17.5	0.15	K2289	330.907	97.145	332.860	5.987	0.27953	3.11854	5 X
K11UR9R	15.3	0.15	K2289	103.235	30.219	249.813	23.435	0.14554	3.15883	9 X
K11US2N	17.6	0.15	K2289	5.950	323.745	42.633	10.635	0.28532	3.12611	4 X
K11UU4P	18.7	0.15	K2289	345.085	301.238	96.336	3.446	0.19971	2.36641	5 X
K11UV0C	16.6	0.15	K2289	26.079	291.084	43.728	19.447	0.30667	3.07612	5 X

K11UV6W	16.7	0.15	K2289	25.120	296.123	52.674	11.699	0.17017	3.13783	6 X
K11UX8C	16.5	0.15	K2289	18.246	2.901	26.180	11.132	0.03424	3.03620	10 X
K11Ua2A	18.7	0.15	K2289	354.759	352.499	26.181	3.051	0.21330	2.38554	5 X
K11Ua5Z	17.2	0.15	K2289	13.186	329.636	37.505	12.777	0.16406	3.08793	4 X
K11Uc0L	17.3	0.15	K2289	303.942	154.570	272.450	5.258	0.04559	3.14838	6 X
K11Ud4T	17.1	0.15	K2289	6.328	108.383	260.175	1.971	0.21873	3.10853	5 X
K11Uf9J	15.4	0.15	K2289	190.116	306.113	256.585	19.750	0.09569	3.16566	10 X
K11UhoN	17.0	0.15	K2289	32.642	294.208	36.775	1.842	0.23107	3.12799	6 X
K11Uh8Y	17.0	0.15	K2289	264.896	112.835	20.576	13.268	0.06975	3.07495	6 X
K11Uk0H	16.9	0.15	K2289	107.781	19.566	255.907	8.712	0.04627	3.13007	6 X
K11Ul4T	17.0	0.15	K2289	335.722	15.499	42.669	17.985	0.18399	3.14569	5 X
K11Ul6W	16.7	0.15	K2289	332.834	165.021	263.244	13.371	0.09692	3.12827	8 X
K11Um3J	19.2	0.15	K2289	329.696	27.743	26.039	2.958	0.21940	2.37823	3 X
K11Um6Z	18.0	0.15	K2289	0.077	126.216	250.480	11.819	0.29570	3.11701	4 X
K11Um9T	16.8	0.15	K2289	307.812	207.365	236.065	20.766	0.04580	3.17251	6 X
K11Um2Z	18.9	0.15	K2289	355.715	103.314	264.601	7.884	0.29261	2.37683	4 X
K11Un7J	17.9	0.15	K2289	21.820	311.269	28.201	23.596	0.22622	3.10638	2 X
K11Un7L	18.8	0.15	K2289	355.757	341.398	37.081	3.936	0.13357	2.38725	6 X
K11Un7M	17.0	0.15	K2289	39.279	125.265	217.087	26.237	0.18144	3.08248	6 X
K11V03U	17.3	0.15	K2289	45.068	22.886	289.810	6.892	0.33220	3.03366	3 X
K11V05F	15.9	0.15	K2289	311.831	198.889	249.291	15.940	0.17192	3.12918	8 X
K11V20K	16.6	0.15	K2289	281.364	85.901	55.082	27.593	0.12917	3.09902	5 X
K11V22H	16.2	0.15	K2289	358.611	119.326	256.424	15.113	0.24324	3.14225	4 X
K11V24Q	16.9	0.15	K2289	354.708	121.164	270.496	9.348	0.19484	3.12344	5 X
K11V30O	16.4	0.15	K2289	108.914	320.294	311.278	8.416	0.07311	3.13934	10 X
K11V34E	16.8	0.15	K2289	351.392	126.845	285.584	9.478	0.04887	3.07875	9 X
K11W00F	17.7	0.15	K2289	4.124	343.707	18.002	11.241	0.23122	2.34686	6 X
K11W07D	19.1	0.15	K2289	339.552	137.810	259.795	0.477	0.18909	2.38600	6 X
K11W09P	17.8	0.15	K2289	359.635	132.350	237.152	6.790	0.28228	3.14872	4 X
K11W32T	16.3	0.15	K2289	10.935	334.159	59.431	19.931	0.17605	3.06902	7 X
K11W35H	16.9	0.15	K2289	10.585	305.610	57.847	10.079	0.10523	3.17361	6 X
K11W49D	16.7	0.15	K2289	23.008	98.790	259.077	10.881	0.22368	3.10418	6 X
K11W64P	17.0	0.15	K2289	309.329	46.065	48.510	10.740	0.19825	3.17576	7 X
K11W70A	18.3	0.15	K2289	347.555	83.338	298.518	2.849	0.28133	2.38994	4 X
K11W71W	16.8	0.15	K2289	346.447	147.180	258.330	16.081	0.20714	3.15174	6 X
K11W73M	16.7	0.15	K2289	1.746	123.671	264.344	8.875	0.24826	3.12463	5 X
K11W93G	17.3	0.15	K2289	344.792	29.923	12.641	13.444	0.37279	3.12855	5 X
K11W98F	16.3	0.15	K2289	107.681	204.495	80.165	10.774	0.08807	3.15021	11 X
K11WA3M	18.7	0.15	K2289	300.356	77.464	11.830	7.253	0.09392	2.38562	6 X
K11WC7B	18.3	0.15	K2289	319.911	160.990	264.894	6.238	0.07837	2.38225	7 X
K11WD7U	16.7	0.15	K2289	299.998	222.063	245.347	14.679	0.16215	3.15828	8 X
K11WD8D	16.6	0.15	K2289	44.064	288.331	44.684	12.732	0.15065	3.11795	6 X
K11WE4B	16.7	0.15	K2289	39.309	282.048	46.194	10.507	0.23225	3.13080	6 X
K11WE6L	17.3	0.15	K2289	358.705	41.460	12.522	9.959	0.32260	3.08468	6 X
K11WE8R	16.2	0.15	K2289	301.411	178.888	289.506	6.137	0.12670	3.16340	10 X
K11WF0T	16.8	0.15	K2289	15.008	76.876	273.666	16.817	0.21069	3.13185	5 X
K11WF2A	18.3	0.15	K2289	308.704	176.896	273.890	11.322	0.19339	2.37389	6 X
K11WF7S	14.5	0.15	K2289	316.223	137.238	315.701	4.024	0.10022	5.18509	11 X
K11WF9E	16.8	0.15	K2289	359.532	8.919	14.590	11.285	0.23763	3.13105	6 X
K11WG0R	16.4	0.15	K2289	29.550	321.897	77.197	27.775	0.06899	3.11250	8 X
K11WG2M	16.3	0.15	K2289	39.122	97.919	256.440	17.024	0.10885	3.11700	8 X
K11WG3B	17.0	0.15	K2289	29.027	84.845	270.693	9.825	0.22555	3.12682	4 X
K11WG3W	17.1	0.15	K2289	359.334	120.699	263.232	15.713	0.29274	3.11999	4 X
K11WG9C	16.6	0.15	K2289	309.005	23.424	62.001	17.912	0.10075	3.17961	7 X
K11WH7S	17.0	0.15	K2289	346.501	166.627	273.773	12.624	0.26762	3.07695	5 X
K11WI4Y	17.2	0.15	K2289	35.708	64.622	278.781	12.838	0.17107	3.08215	4 X
K11Y04Q	12.7	0.15	K2289	289.398	229.918	253.079	22.286	0.10279	5.22318	14 X
K11Y07V	12.9	0.15	K2289	354.875	147.424	278.453	19.257	0.02985	5.27202	13 X
K11Y11H	16.2	0.15	K2289	321.721	190.628	258.817	25.761	0.05335	3.13705	4 X
K11Y17K	16.8	0.15	K2289	315.324	197.386	303.430	15.140	0.22726	3.11972	3 X
K11Y41B	17.1	0.15	K2289	335.343	170.863	250.899	16.309	0.24707	3.14865	5 X
K11Y83V	16.6	0.15	K2289	327.837	195.421	271.956	14.590	0.27298	3.08325	6 X
K12A03H	15.3	0.15	K2289	68.787	336.661	270.120	26.980	0.12122	3.11170	12 X
K12A28Y	15.9	0.15	K2289	199.207	269.373	288.703	13.148	0.12390	3.20585	8 X
K12B19U	16.5	0.15	K2289	324.761	182.737	294.422	15.779	0.19754	3.13435	4 X
K12B94Q	18.3	0.15	K2289	312.713	278.116	160.684	1.025	0.16224	2.44065	9 X
K12C49W	18.6	0.15	K2289	342.310	82.389	321.741	4.104	0.24320	2.42639	6 X
K12D08T	18.2	0.15	K2289	327.915	80.664	339.557	2.064	0.18795	2.45740	7 X
K12D98Q	18.1	0.15	K2289	305.060	142.608	300.678	5.281	0.10228	2.45932	7 X
K12DB9Q	17.7	0.15	K2289	318.590	108.821	317.005	8.722	0.06446	2.53160	9 X
K12F06K	16.9	0.15	K2289	28.143	20.627	335.035	6.191	0.18784	2.51424	9 X
K12H51Z	16.7	0.15	K2289	85.442	254.427	53.663	29.038	0.12088	2.58583	6 X
K12H94V	17.4	0.15	K2289	334.196	45.916	7.295	15.818	0.15168	2.55663	6 X
K12J39C	17.6	0.15	K2289	66.571	234.764	71.514	14.981	0.19504	2.67094	2 X
K12L10E	16.7	0.15	K2289	11.899	128.025	240.717	13.823	0.09992	2.67415	9 X
K12M16W	17.0	0.15	K2289	46.157	86.878	299.367	13.523	0.04680	2.64655	7 X
K12P36H	18.6	0.15	K2289	1.537	70.189	307.384	5.146	0.19160	2.17850	7 X
K12P47E	18.6	0.15	K2289	359.542	8.827	0.509	8.345	0.36037	2.88126	3 X
K12P62C	18.8	0.15	K2289	40.282	313.896	2.523	6.496	0.21517	2.19093	2 X
K12Q77Z	19.4	0.15	K2289	350.590	126.159	254.862	5.117	0.18756	2.20349	2 X
K12R04P	19.1	0.15	K2289	1.618	357.059	12.250	4.936	0.25825	2.20316	4 X
K12R10S	18.4	0.15	K2289	350.916	72.064	304.272	4.272	0.22597	2.21459	9 X
K12R20B	16.6	0.15	K2289	14.986	106.132	259.335	12.906	0.17859	2.84713	8 X
K12R48G	18.4	0.15	K2289	4.114	75.070	283.332	6.386	0.35077	2.88820	3 X
K12S29O	18.6	0.15	K2289	40.185	46.918	266.498	5.058	0.20623	2.19698	5 X
K12S48Q	18.7	0.15	K2289	346.362	13.280	14.743	5.795	0.14818	2.20720	5 X
K12S62E	16.9	0.15	K2289	14.221	38.428	8.615	9.136	0.16001	2.80080	10 X
K12S63U	16.7	0.15	K2289	303.516	116.656	348.625	8.659	0.05740	2.78758	13 X
K12S74B	18.5	0.15	K2289	351.044	96.758	291.761	5.840	0.19240	2.20192	5 X
K12SA2T	17.4	0.15	K2289	353.258	23.340	349.624	11.004	0.09139	2.90980	5 X
K12T37L	17.8	0.15	K2289	343.412	45.332	341.713	4.195	0.20282	2.22134	10 X
K12T50J	18.7	0.15	K2289	337.847	207.031	201.734	6.994	0.07090	2.20054	8 X
K12T83V	17.7	0.15	K2289	345.520	33.238	7.466	7.663	0.08321	2.88974	7 X

K12TB5N	17.4	0.15	K2289	73.072	71.185	237.545	10.247	0.05910	2.87553	5	X
K12TB8J	18.3	0.15	K2289	17.801	58.808	284.340	4.581	0.19680	2.21667	9	X
K12TD6R	18.6	0.15	K2289	340.071	66.370	336.979	5.489	0.10604	2.20544	7	X
K12TD8H	18.6	0.15	K2289	22.681	299.675	35.182	5.353	0.18865	2.22197	5	X
K12TG1H	18.5	0.15	K2289	28.763	302.252	31.210	5.230	0.17211	2.21244	5	X
K12TG4L	17.3	0.15	K2289	318.887	57.329	17.901	14.246	0.13362	2.87855	6	X
K12TK0E	19.2	0.15	K2289	4.283	94.357	240.971	3.179	0.27763	2.23953	2	X
K12TK7M	17.1	0.15	K2289	4.644	18.673	7.327	10.854	0.11877	2.89235	7	X
K12TO6T	18.1	0.15	K2289	348.535	30.710	3.600	11.417	0.16889	2.90982	3	X
K12TV1K	18.8	0.15	K2289	359.774	299.816	51.630	5.032	0.26935	2.23707	4	X
K12TW9M	17.2	0.15	K2289	355.380	100.119	283.635	9.919	0.18547	2.90368	7	X
K12TX3R	17.5	0.15	K2289	8.119	149.610	220.737	9.834	0.13749	2.87961	7	X
K12TX5J	17.9	0.15	K2289	352.215	357.750	43.636	17.625	0.17984	2.88405	4	X
K12TY3N	18.2	0.15	K2289	352.787	27.214	0.235	8.064	0.13274	2.22890	7	X
K12Ta9R	19.1	0.15	K2289	336.960	34.978	8.046	6.595	0.19384	2.21165	4	X
K12Td3S	17.7	0.15	K2289	106.848	31.491	236.868	5.007	0.00968	2.90495	7	X
K12U35Q	19.0	0.15	K2289	10.839	97.703	251.406	1.081	0.19831	2.23368	5	X
K12U40O	18.0	0.15	K2289	0.168	339.679	36.820	15.146	0.27570	2.90711	3	X
K12U59X	18.5	0.15	K2289	317.836	54.081	14.582	7.870	0.05882	2.22170	7	X
K12UB9D	18.6	0.15	K2289	353.465	170.327	201.367	2.159	0.21653	2.24194	6	X
K12UF8R	20.6	0.15	K2289	315.566	239.375	286.501	3.192	0.85760	2.23311	3	V
K12UG4N	17.1	0.15	K2289	8.944	37.572	336.162	10.145	0.15191	2.90920	6	X
K12UG6Y	16.2	0.15	K2289	68.903	19.913	279.243	11.788	0.13599	2.89187	8	X
K12UH6H	17.3	0.15	K2289	303.107	205.293	205.695	4.846	0.03444	2.99708	6	X
K12UJ8B	19.5	0.15	K2289	38.560	291.875	34.017	23.691	0.05473	1.83092	4	X
K12UK3T	18.0	0.15	K2289	243.190	200.803	275.108	22.751	0.10080	1.91014	6	X
K12UP2N	19.6	0.15	K2289	348.654	23.736	352.522	5.012	0.19491	2.23222	2	X
K12V07Q	18.9	0.15	K2289	343.485	276.827	107.207	6.305	0.32208	2.22637	4	X
K12V09Q	18.6	0.15	K2289	312.354	191.162	235.534	3.147	0.04780	2.21781	11	X
K12V15T	18.1	0.15	K2289	27.506	9.142	3.978	5.254	0.13585	2.19532	9	X
K12V32D	18.7	0.15	K2289	316.490	212.430	214.338	3.381	0.16195	2.22384	7	X
K12VB8K	16.8	0.15	K2289	77.232	254.297	41.177	13.085	0.15039	2.93529	8	X
K12W26D	18.5	0.15	K2289	13.972	81.116	270.844	6.142	0.18960	2.24039	7	X
K12W33V	16.9	0.15	K2289	274.295	233.388	248.440	9.094	0.06316	2.99041	7	X
K12W39L	16.9	0.15	K2289	305.441	190.381	256.521	9.196	0.07237	2.99892	7	X
K12X48E	16.0	0.15	K2289	337.548	26.173	78.904	11.922	0.07187	2.90017	11	X
K12X85C	16.7	0.15	K2289	336.892	243.956	154.602	10.393	0.11019	3.01573	10	X
K12X98O	18.7	0.15	K2289	350.644	105.214	279.597	5.621	0.19088	2.24269	5	X
K12XB0H	18.4	0.15	K2289	332.230	196.610	273.248	15.963	0.44803	2.89179	3	X
K12XC7G	17.3	0.15	K2289	30.112	131.276	216.416	9.534	0.11429	2.96562	8	X
K12XC7X	17.2	0.15	K2289	69.194	207.333	89.918	17.907	0.07522	3.01198	5	X
K12XC9P	17.5	0.15	K2289	356.886	341.220	40.274	6.817	0.23263	2.96563	4	X
K12XG6N	17.4	0.15	K2289	352.897	264.571	123.273	11.267	0.16673	2.98926	5	X
K12XH0J	18.6	0.15	K2289	303.937	122.051	292.413	22.313	0.26697	2.31301	4	X
K12Y00C	18.4	0.15	K2289	336.168	107.535	257.631	23.161	0.14167	1.87674	6	X
K12Y02W	18.5	0.15	K2289	296.027	191.812	253.097	3.649	0.10970	2.28506	6	X
K12Y08R	16.7	0.15	K2289	321.451	177.569	268.897	14.607	0.20894	2.97773	5	X
K12Y09Q	14.4	0.15	K2289	5.486	27.291	6.455	15.980	0.07274	5.16707	9	X
K12Y22W	16.8	0.15	K2289	199.917	268.683	284.393	9.085	0.03123	3.06206	5	X
K12Y24K	17.2	0.15	K2289	262.647	66.192	74.692	14.201	0.03626	3.05045	6	X
K12Y26G	17.4	0.15	K2289	318.307	133.708	303.502	10.387	0.17308	3.04576	6	X
K13A05G	16.7	0.15	K2289	26.766	84.180	277.454	9.699	0.07287	2.97721	8	X
K13A38E	17.8	0.15	K2289	326.410	340.761	95.361	1.183	0.30329	3.00842	6	X
K13A39N	16.4	0.15	K2289	339.417	108.950	298.380	9.622	0.04228	3.11714	7	X
K13A43D	18.2	0.15	K2289	322.873	96.506	332.775	7.521	0.16240	2.27962	6	X
K13A48J	17.0	0.15	K2289	11.924	22.947	354.179	10.255	0.05713	3.04120	6	X
K13A78Z	16.4	0.15	K2289	5.133	95.691	281.784	14.240	0.11140	3.10733	8	X
K13A87W	17.8	0.15	K2289	354.379	72.213	307.937	8.648	0.34436	3.00793	2	X
K13AB6Y	18.0	0.15	K2289	344.543	19.780	36.000	4.090	0.19221	2.26046	9	X
K13AD4V	16.7	0.15	K2289	56.577	34.779	294.146	10.883	0.09618	3.06415	8	X
K13AF5X	16.9	0.15	K2289	344.841	148.150	255.722	13.388	0.14583	3.05426	7	X
K13AH7T	16.9	0.15	K2289	344.693	152.524	253.148	13.360	0.19749	3.03122	7	X
K13AJ3M	14.7	0.15	K2289	324.981	147.627	297.242	14.034	0.14084	5.19526	6	X
K13B01X	15.9	0.15	K2289	3.777	138.494	262.813	34.311	0.17014	2.87103	5	X
K13B13H	18.3	0.15	K2289	328.990	135.484	276.914	7.820	0.11780	2.25970	7	X
K13B16R	18.8	0.15	K2289	128.011	137.608	117.955	26.877	0.03374	1.87034	6	V
K13B26P	14.2	0.15	K2289	312.013	63.068	34.075	21.248	0.06488	5.18898	7	X
K13B45B	13.9	0.15	K2289	21.203	127.339	265.150	16.094	0.08661	5.14319	9	X
K13B57V	17.0	0.15	K2289	345.571	109.258	293.690	9.705	0.09055	3.07799	5	X
K13B64Z	18.6	0.15	K2289	341.319	333.733	61.088	2.833	0.14156	2.29653	10	X
K13B68V	14.1	0.15	K2289	342.093	336.868	94.374	9.516	0.10200	5.15011	13	X
K13B68Y	14.4	0.15	K2289	292.272	154.399	331.521	12.673	0.12161	5.19895	7	X
K13B75J	16.3	0.15	K2289	184.975	228.500	340.063	9.822	0.02552	3.12424	10	X
K13B81H	16.6	0.15	K2289	345.943	86.691	317.904	10.308	0.17075	3.07504	7	X
K13B82Q	16.9	0.15	K2289	11.580	100.867	271.437	8.850	0.08668	3.13249	7	X
K13B96F	17.4	0.15	K2289	295.943	21.845	82.989	2.249	0.12164	3.07594	3	X
K13BA4Z	17.2	0.15	K2289	175.012	246.423	326.690	4.270	0.08573	3.13779	6	X
K13BA6C	17.3	0.15	K2289	248.197	142.447	343.859	3.583	0.07572	3.17269	5	X
K13BA7M	16.5	0.15	K2289	6.192	71.437	311.970	8.592	0.08744	3.06537	9	V
K13C30S	16.4	0.15	K2289	344.410	51.480	356.176	9.443	0.10818	3.10981	11	X
K13C33O	15.9	0.15	K2289	100.207	342.920	293.556	3.634	0.16504	3.15563	14	X
K13C55G	17.2	0.15	K2289	333.077	94.417	331.220	11.114	0.15708	3.07838	9	X
K13C60C	16.9	0.15	K2289	310.242	153.541	302.590	9.680	0.15259	3.06352	7	X
K13C68G	16.6	0.15	K2289	301.972	161.042	292.000	10.529	0.11822	3.11990	8	X
K13C68Q	16.2	0.15	K2289	350.417	108.266	292.296	8.949	0.04748	3.15501	13	X
K13C79R	14.6	0.15	K2289	308.039	344.966	125.604	21.818	0.09048	5.11254	7	X
K13C89C	18.7	0.15	K2289	308.939	282.424	122.883	23.038	0.15670	1.90086	6	V
K13C90X	16.8	0.15	K2289	317.039	62.993	24.432	13.007	0.23864	3.02774	8	X
K13CD2G	17.4	0.15	K2289	318.880	151.756	296.222	10.489	0.27974	3.06933	6	X
K13CE7J	16.7	0.15	K2289	325.688	71.148	352.092	8.594	0.06035	3.17917	8	X
K13CG4N	16.5	0.15	K2289	39.453	12.372	337.442	9.584	0.10553	3.19435	10	X
K13CH2T	16.8	0.15	K2289	276.846	146.090	335.171	16.499	0.13064	3.14929	5	X
K13CI2H	16.8	0.15	K2289	343.106	272.041	145.200	17.106	0.17582	3.08386	6	X

K13CL5F	19.0	0.15	K2289	280.520	188.567	294.493	5.052	0.18141	2.29202	6 X
K13CM6C	16.6	0.15	K2289	289.765	108.853	3.597	9.105	0.03388	3.16529	7 X
K13CN0T	18.6	0.15	K2289	140.899	148.862	94.879	3.318	0.16402	2.38842	4 X
K13CN7N	17.5	0.15	K2289	281.787	284.996	207.548	10.460	0.13165	3.10698	4 X
K13CN9T	14.8	0.15	K2289	295.566	34.928	98.594	8.619	0.17297	5.20648	6 X
K13CP3Q	14.6	0.15	K2289	328.413	65.032	20.065	14.525	0.19920	5.23259	9 X
K13CP8F	16.6	0.15	K2289	272.454	232.884	273.592	10.194	0.19548	3.07212	9 X
K13E06U	18.8	0.15	K2289	169.418	267.542	297.770	1.681	0.13401	2.38632	5 X
K13E08A	16.8	0.15	K2289	215.733	148.289	28.602	18.564	0.14781	3.14070	6 X
K13E40H	16.6	0.15	K2289	343.464	51.248	0.968	11.358	0.11638	3.05138	7 X
K13F07K	16.0	0.15	K2289	326.887	56.598	17.049	15.033	0.21618	3.12464	12 X
K13F35F	17.1	0.15	K2289	323.853	70.894	6.874	15.916	0.25787	3.15269	7 X
K13G13Q	16.0	0.15	K2289	291.057	197.000	280.492	8.557	0.05404	3.12504	12 X
K13G76T	16.1	0.15	K2289	291.275	97.817	74.064	14.080	0.18535	3.06545	11 X
K13GA4S	16.6	0.15	K2289	260.238	136.676	26.328	15.030	0.21721	3.16904	6 X
K13GE3A	16.3	0.15	K2289	312.530	61.777	50.389	16.718	0.17075	3.11875	6 X
K13HB9U	18.7	0.15	K2289	307.366	20.985	61.070	3.527	0.15935	2.37421	9 X
K13HE5F	17.8	0.15	K2289	250.839	123.131	11.604	12.230	0.06852	3.34627	2 X
K13HF8W	16.3	0.15	K2289	315.611	62.801	42.053	26.607	0.21112	3.12854	5 X
K13J14P	19.0	0.15	K2289	7.524	332.027	60.265	22.737	0.08608	1.92662	4 X
K13J68Q	18.0	0.15	K2289	340.583	352.260	47.842	14.533	0.21834	2.44660	6 X
K13L01X	18.6	0.15	K2289	281.357	226.765	232.469	19.628	0.06833	1.95515	6 X
K13L04F	17.9	0.15	K2289	234.448	300.920	222.714	4.102	0.18652	2.38981	7 X
K13L41T	17.5	0.15	K2289	34.072	16.093	321.754	5.071	0.24148	2.54338	8 X
K13L46H	18.4	0.15	K2289	9.141	100.856	247.555	3.338	0.31617	2.59493	3 X
K13M20P	18.0	0.15	K2289	42.437	226.358	98.285	5.814	0.24006	2.59355	3 X
K13N280	17.9	0.15	K2289	49.719	201.790	123.292	5.000	0.16444	2.58037	8 X
K13N71U	17.8	0.15	K2289	348.776	120.888	272.078	9.999	0.20467	2.62547	4 X
K13O04E	17.4	0.15	K2289	14.541	81.680	268.478	10.798	0.29305	2.62854	7 X
K13O13M	17.0	0.15	K2289	31.833	339.570	357.846	11.374	0.16351	2.72442	7 X
K13P02V	20.0	0.15	K2289	325.453	317.920	100.379	6.483	0.50274	2.06534	4 V
K13P07X	17.0	0.15	K2289	344.484	196.519	201.514	13.917	0.25304	2.66610	8 X
K13P11R	17.9	0.15	K2289	27.372	50.435	281.565	12.097	0.28589	2.65701	4 X
K13P21X	17.7	0.15	K2289	31.703	56.203	275.933	10.739	0.31303	2.64430	4 X
K13P59D	17.8	0.15	K2289	6.061	111.902	262.599	6.928	0.20734	2.61546	5 X
K13PB2B	17.6	0.15	K2289	348.821	124.364	259.379	7.512	0.32337	2.68354	4 X
K13PD2B	18.5	0.15	K2289	334.836	37.745	13.749	8.892	0.30347	2.68595	3 X
K13Q20T	17.2	0.15	K2289	341.088	49.648	349.049	12.602	0.28153	2.66988	7 X
K13Q92R	17.8	0.15	K2289	35.435	92.250	233.048	0.925	0.20924	2.64075	8 X
K13Q96U	17.7	0.15	K2289	1.758	117.769	293.374	11.548	0.18430	2.59805	7 X
K13Q98W	17.6	0.15	K2289	5.048	336.548	38.201	14.584	0.25408	2.65990	5 X
K13R26L	17.1	0.15	K2289	38.556	329.962	359.862	14.741	0.18701	2.65215	9 X
K13R30F	17.5	0.15	K2289	18.898	309.358	44.590	8.014	0.41118	2.67398	4 X
K13R33B	17.4	0.15	K2289	19.625	347.280	10.647	6.618	0.25357	2.65177	9 X
K13R42Z	17.3	0.15	K2289	23.157	322.835	22.221	13.577	0.18154	2.66168	8 X
K13R45N	17.6	0.15	K2289	355.992	119.657	255.163	7.298	0.32680	2.69000	5 X
K13R67B	17.8	0.15	K2289	339.209	153.639	251.044	2.173	0.17053	2.66434	7 X
K13R72M	17.8	0.15	K2289	12.829	31.420	327.596	5.163	0.28191	2.67655	6 X
K13R80J	18.0	0.15	K2289	340.057	238.460	152.814	6.684	0.20518	2.71203	4 X
K13RA6D	17.4	0.15	K2289	20.420	294.415	47.012	17.168	0.23485	2.69059	5 X
K13RC2P	18.3	0.15	K2289	353.125	181.760	202.350	3.389	0.21893	2.72410	4 X
K13RC3C	18.3	0.15	K2289	343.961	25.314	10.567	9.075	0.29948	2.69040	3 X
K13RC3K	17.7	0.15	K2289	0.521	88.505	285.050	9.056	0.23570	2.66944	4 X
K13RD4M	17.7	0.15	K2289	313.884	211.557	221.133	4.799	0.08533	2.65848	8 X
K13RGOE	17.6	0.15	K2289	346.583	25.547	48.464	13.301	0.26619	2.64418	3 X
K13RG3U	17.5	0.15	K2289	13.769	351.235	7.621	15.136	0.13153	2.66349	7 X
K13RH2K	18.5	0.15	K2289	4.527	243.531	105.200	3.709	0.31519	2.68446	3 X
K13RH2Y	18.3	0.15	K2289	319.116	260.566	172.793	5.206	0.22385	2.70499	4 X
K13S110	18.5	0.15	K2289	4.153	26.675	345.579	6.140	0.24438	2.65783	4 X
K13S20L	24.6	0.15	K2289	245.589	115.422	8.660	4.343	0.40307	1.08119	2 V
K13S47X	17.3	0.15	K2289	308.901	52.344	69.752	12.554	0.14546	2.56626	7 X
K13S50B	17.6	0.15	K2289	328.751	148.432	272.452	8.855	0.20666	2.71267	4 X
K13S850	16.2	0.15	K2289	355.419	141.809	242.940	12.982	0.16367	2.70529	9 X
K13SA8D	17.8	0.15	K2289	329.565	53.145	45.115	13.242	0.21010	2.66644	4 X
K13SBON	17.7	0.15	K2289	311.388	205.670	216.610	8.840	0.15596	2.78132	5 X
K13T05S	19.3	0.15	K2289	110.860	336.333	195.573	54.315	0.48819	1.10839	6 V
K13T18E	17.7	0.15	K2289	28.474	359.918	347.679	4.019	0.20914	2.68023	9 X
K13T51P	18.9	0.15	K2289	1.649	115.935	242.537	12.255	0.35334	2.70682	2 X
K13T60B	17.9	0.15	K2289	354.764	82.803	292.028	5.093	0.06059	2.72712	4 X
K13T61R	17.3	0.15	K2289	353.013	153.019	230.872	10.393	0.21043	2.70546	7 X
K13T62S	17.3	0.15	K2289	357.701	105.051	278.535	1.742	0.08113	2.69383	11 X
K13T70R	17.4	0.15	K2289	58.337	139.086	179.389	5.770	0.16124	2.64853	10 X
K13T84W	17.6	0.15	K2289	24.994	13.316	324.967	6.727	0.24777	2.67020	4 X
K13T88Q	18.1	0.15	K2289	356.771	155.928	222.400	7.978	0.22093	2.71354	5 X
K13TB2W	17.6	0.15	K2289	33.045	310.097	27.925	13.430	0.27211	2.67698	6 X
K13TC2P	17.2	0.15	K2289	14.072	52.457	304.259	11.655	0.15142	2.69891	7 X
K13TC9Y	18.2	0.15	K2289	351.764	34.175	353.133	0.925	0.27482	2.69206	6 X
K13TG0Q	17.7	0.15	K2289	29.023	282.950	50.229	2.946	0.21480	2.69344	4 X
K13TG1H	17.8	0.15	K2289	302.070	238.602	219.407	8.393	0.17165	2.74607	5 X
K13TG1J	17.4	0.15	K2289	16.309	121.832	231.634	8.070	0.18355	2.74220	6 X
K13TH7L	17.9	0.15	K2289	338.733	309.910	82.744	3.590	0.19810	2.75422	5 X
K13TI6V	17.5	0.15	K2289	359.914	354.647	22.160	13.672	0.17852	2.68706	4 X
K13TJ9G	17.0	0.15	K2289	342.157	179.513	219.858	14.136	0.09790	2.69903	9 X
K13TM10	17.5	0.15	K2289	8.397	135.550	226.821	15.807	0.24374	2.74460	5 X
K13TM5Z	17.9	0.15	K2289	300.557	126.424	346.990	6.944	0.26735	2.72551	5 X
K13TN5Z	18.0	0.15	K2289	324.784	6.353	43.373	9.608	0.20078	2.77043	3 X
K13TO3H	17.6	0.15	K2289	359.524	356.404	26.427	15.518	0.19085	2.69261	5 X
K13TO3P	18.1	0.15	K2289	298.886	224.454	221.623	3.858	0.12357	2.70090	6 X
K13U00S	17.8	0.15	K2289	352.374	98.398	242.094	27.484	0.46239	2.74295	3 X
K13U08Z	18.5	0.15	K2289	7.739	87.864	256.425	12.518	0.40909	2.67078	3 X
K13U09Q	17.5	0.15	K2289	21.227	112.279	224.884	7.867	0.27921	2.71186	5 X
K13U190	18.2	0.15	K2289	333.833	200.442	211.828	2.907	0.19064	2.74673	6 X
K13U30C	17.8	0.15	K2289	318.126	136.187	307.741	7.724	0.28892	2.73683	6 X

K13U30S	18.6	0.15	K2289	282.604	64.205	50.837	8.807	0.19048	2.73868	4 X
K13U35J	17.8	0.15	K2289	344.811	120.567	279.781	4.221	0.14586	2.74391	6 X
K13U35X	17.3	0.15	K2289	220.520	105.151	39.700	10.081	0.03582	2.79403	8 X
K13U46H	17.6	0.15	K2289	22.402	303.433	37.731	9.879	0.23543	2.75210	6 X
K13U54T	17.4	0.15	K2289	32.093	285.777	50.412	6.056	0.09137	2.75907	7 X
K13V00X	17.2	0.15	K2289	329.547	48.713	30.508	13.600	0.24408	2.69061	7 X
K13V04H	17.9	0.15	K2289	337.921	168.342	242.293	5.857	0.24838	2.73345	5 X
K13V10U	18.1	0.15	K2289	338.935	77.591	329.599	6.913	0.30582	2.72510	5 X
K13V40Q	17.3	0.15	K2289	21.853	325.078	23.054	14.285	0.22493	2.73446	4 X
K13V47Z	18.3	0.15	K2289	326.051	72.296	42.776	12.022	0.38380	2.67283	3 X
K13V49T	18.4	0.15	K2289	19.649	266.133	89.723	9.664	0.25182	2.72465	2 X
K13V82T	18.6	0.15	K2289	340.312	0.942	45.088	1.496	0.20617	2.73877	3 X
K13W02C	18.2	0.15	K2289	333.594	192.646	220.816	14.349	0.21998	2.74702	3 X
K13W20N	17.4	0.15	K2289	356.327	349.373	75.899	15.270	0.25355	2.68906	5 X
K13W31Z	17.8	0.15	K2289	34.186	85.712	240.198	8.689	0.25248	2.75061	6 X
K13W38R	17.7	0.15	K2289	332.291	14.272	43.000	10.461	0.20203	2.74057	4 X
K13W53J	18.3	0.15	K2289	346.158	86.789	313.087	5.486	0.27587	2.73568	4 X
K13W62K	17.5	0.15	K2289	356.117	150.318	229.556	18.248	0.31131	2.74347	3 X
K13W78A	16.9	0.15	K2289	49.472	284.909	45.375	14.590	0.22311	2.71137	9 X
K13W78V	16.8	0.15	K2289	268.930	118.256	46.106	13.209	0.11910	2.67841	9 X
K13WA8E	16.3	0.15	K2289	308.449	87.077	12.329	11.836	0.12743	2.78558	10 X
K13WB10	17.0	0.15	K2289	24.030	61.483	276.908	11.209	0.20867	2.78506	7 X
K13WCOM	17.9	0.15	K2289	291.953	64.599	33.136	5.233	0.12291	2.79194	6 X
K13WC6X	17.3	0.15	K2289	287.126	218.393	259.556	12.183	0.19881	2.74511	7 X
K13WD6A	18.0	0.15	K2289	255.700	358.282	140.836	3.573	0.13708	2.79310	8 X
K13X00X	16.5	0.15	K2289	344.694	154.683	245.097	3.413	0.06964	2.79674	13 X
K13X17Z	17.5	0.15	K2289	296.724	227.840	242.285	27.608	0.25551	2.77978	5 X
K13X29J	17.4	0.15	K2289	357.119	41.706	342.197	7.756	0.16131	2.81425	7 X
K13X33X	17.4	0.15	K2289	317.806	198.106	281.188	12.616	0.24698	2.69227	5 X
K13X39K	17.5	0.15	K2289	336.545	16.542	72.151	10.297	0.09107	2.69238	8 X
K13Y32G	13.7	0.15	K2289	217.876	245.409	302.651	8.625	0.06841	5.15292	13 X
K13Y35Y	16.2	0.15	K2289	38.475	357.754	27.939	7.579	0.13570	2.72612	12 X
K13Y53B	17.8	0.15	K2289	321.933	164.230	271.059	10.635	0.20445	2.76494	3 X
K13Y56W	17.8	0.15	K2289	304.777	156.520	308.725	9.284	0.24824	2.78443	5 X
K13Y93J	16.8	0.15	K2289	270.295	182.757	297.886	14.161	0.08998	2.87055	9 X
K13YA2H	16.9	0.15	K2289	347.991	264.920	126.365	17.476	0.32405	2.80384	7 X
K13YC2V	17.3	0.15	K2289	336.872	274.854	146.868	4.081	0.08441	2.81049	11 X
K13YF4J	17.1	0.15	K2289	11.979	124.066	281.412	13.784	0.14247	2.70245	6 X
K13YF9P	17.3	0.15	K2289	329.321	156.553	263.377	12.671	0.17671	2.79260	6 X
K14A30F	15.9	0.15	K2289	15.606	35.762	277.591	26.157	0.07919	3.10064	7 X
K14D17X	16.8	0.15	K2289	310.388	57.730	37.905	8.475	0.26809	2.74938	10 X
K14D72S	16.6	0.15	K2289	96.824	255.963	30.564	12.065	0.07932	3.10242	9 X
K14D72Z	16.6	0.15	K2289	181.395	185.210	41.859	10.776	0.04971	2.99158	8 X
K14D86L	16.5	0.15	K2289	98.099	305.341	345.416	8.932	0.07726	3.01893	8 X
K14D86M	17.3	0.15	K2289	341.448	61.885	346.454	8.015	0.04680	2.97669	7 X
K14D89A	17.1	0.15	K2289	163.396	67.782	164.778	8.856	0.07355	3.07462	6 X
K14D98E	16.8	0.15	K2289	147.819	268.965	330.244	9.387	0.05090	3.02410	6 X
K14DA5P	15.6	0.15	K2289	169.573	243.814	342.705	8.677	0.15904	3.04338	16 X
K14DB4V	13.9	0.15	K2289	222.355	229.147	329.467	9.119	0.09452	5.23400	12 X
K14DB9T	16.2	0.15	K2289	102.417	279.800	1.958	16.476	0.08426	3.07738	10 X
K14DC1M	19.1	0.15	K2289	222.114	273.125	248.658	0.786	0.14234	2.18517	6 X
K14DG7D	19.4	0.15	K2289	226.416	20.322	139.263	1.454	0.11022	2.18650	2 X
K14DJ1V	15.0	0.15	K2289	307.200	264.094	210.453	9.424	0.12589	5.15832	5 X
K14E09S	14.6	0.15	K2289	259.622	42.488	119.110	7.154	0.09344	5.17820	7 X
K14E16M	14.1	0.15	K2289	6.794	87.229	321.484	4.914	0.03473	5.27003	13 X
K14E42F	16.7	0.15	K2289	110.044	215.305	41.394	12.828	0.09925	3.16174	7 X
K14E45K	18.3	0.15	K2289	327.896	312.452	149.576	10.219	0.51995	2.77427	4 X
K14E66M	14.4	0.15	K2289	309.447	139.318	320.382	14.786	0.05504	5.30317	8 X
K14E75P	17.2	0.15	K2289	6.261	152.548	216.652	12.474	0.19411	2.99986	4 X
K14E84S	18.3	0.15	K2289	8.236	51.614	315.777	5.062	0.20004	2.19577	6 X
K14E85Z	17.5	0.15	K2289	359.751	108.027	271.303	7.974	0.12870	2.97512	8 X
K14EJ5E	16.3	0.15	K2289	44.665	25.899	313.630	9.553	0.01645	3.01977	9 X
K14EMOF	16.3	0.15	K2289	76.769	340.282	317.459	9.505	0.09966	3.07855	12 X
K14EM5Q	17.4	0.15	K2289	351.940	231.466	172.903	4.017	0.07834	2.96893	11 X
K14F37D	16.5	0.15	K2289	261.981	122.503	27.114	2.281	0.18392	2.97717	15 X
K14F65R	15.9	0.15	K2289	135.099	238.597	20.559	11.358	0.10725	3.09259	13 X
K14F77F	17.2	0.15	K2289	248.868	61.116	78.496	10.792	0.22924	3.08865	4 X
K14G24K	16.5	0.15	K2289	206.014	230.151	324.241	7.520	0.04822	3.04184	7 X
K14G50M	16.2	0.15	K2289	253.108	158.435	354.854	9.755	0.06136	3.04938	11 X
K14G57R	16.2	0.15	K2289	86.716	271.535	36.595	16.793	0.13807	3.19384	10 X
K14G64E	16.6	0.15	K2289	276.024	98.217	63.039	13.336	0.05377	2.92211	7 X
K14G80N	16.9	0.15	K2289	259.993	127.649	5.636	10.091	0.04721	3.03566	6 X
K14G80Z	17.4	0.15	K2289	233.268	101.925	77.591	13.302	0.12355	3.02102	3 X
K14H94C	17.2	0.15	K2289	312.422	3.281	66.388	10.946	0.09061	3.14717	5 X
K14HD0J	18.4	0.15	K2289	66.017	217.800	43.899	6.036	0.21377	2.35334	4 X
K14HM2B	18.5	0.15	K2289	119.854	24.600	219.925	4.425	0.16629	2.28250	6 X
K14HP0Q	17.8	0.15	K2289	329.008	167.297	265.637	10.368	0.15833	3.09814	2 X
K14HU4D	17.2	0.15	K2289	316.866	176.008	230.645	9.742	0.04892	3.25326	4 X
K14HU5P	17.1	0.15	K2289	338.769	27.786	34.000	29.226	0.26191	3.12379	6 X
K14HU6D	18.4	0.15	K2289	316.224	322.505	112.512	2.405	0.17296	3.05887	4 X
K14HU6M	19.1	0.15	K2289	13.477	136.664	197.376	2.424	0.11691	2.32465	4 X
K14HU6N	18.2	0.15	K2289	310.491	290.191	147.495	1.654	0.15462	3.09155	3 X
K14HU6O	19.8	0.15	K2289	281.643	301.694	150.370	2.009	0.10663	2.23742	2 X
K14K58H	18.2	0.15	K2289	86.845	72.482	203.757	8.553	0.20849	2.33966	7 X
K14KB5K	17.0	0.15	K2289	272.232	28.429	96.092	26.995	0.09348	3.18951	3 X
K14KC1G	17.1	0.15	K2289	231.087	322.307	222.262	21.495	0.14744	3.11350	3 X
K14KC2Y	18.9	0.15	K2289	88.009	17.886	251.353	6.748	0.17586	2.34344	5 X
K14KE5Z	16.8	0.15	K2289	299.756	193.126	267.470	11.545	0.15786	3.07074	8 X
K14O76S	19.1	0.15	K2289	33.255	227.313	78.179	3.693	0.18821	2.44161	3 X
K14OC3R	18.4	0.15	K2289	9.170	37.737	329.132	8.726	0.14815	2.40596	7 X
K14OH0H	18.7	0.15	K2289	55.775	226.853	91.243	7.568	0.14523	2.38568	4 X
K14OR4O	18.6	0.15	K2289	36.860	246.645	75.941	7.073	0.26612	2.42817	5 X
K14OR6R	18.1	0.15	K2289	341.400	356.773	39.878	2.848	0.17216	2.43181	9 X

K140R8H	18.1	0.15	K2289	16.400	346.117	1.713	4.841	0.18301	2.44176	7	X
K140T6L	16.8	0.15	K2289	15.112	18.743	356.117	6.807	0.13926	2.43847	13	X
K140q2Q	18.8	0.15	K2289	10.262	166.161	187.416	1.038	0.20679	2.44283	4	X
K140k9R	19.0	0.15	K2289	17.760	134.017	207.912	0.516	0.19208	2.43473	4	X
K14P25A	18.2	0.15	K2289	18.498	13.103	337.229	6.192	0.13513	2.43563	6	X
K14P40V	18.0	0.15	K2289	275.865	163.753	318.023	1.859	0.14608	2.40834	11	X
K14P46K	18.3	0.15	K2289	8.130	2.284	355.059	0.931	0.19793	2.45018	7	X
K14P47G	17.7	0.15	K2289	29.463	315.924	15.836	0.440	0.19234	2.44309	11	X
K14QG6E	18.6	0.15	K2289	32.081	95.124	218.669	1.710	0.20607	2.46711	6	X
K14QL6T	17.9	0.15	K2289	251.355	287.989	214.059	4.931	0.12304	2.39835	9	X
K14QM8L	18.6	0.15	K2289	332.107	214.839	197.581	1.613	0.25903	2.47097	4	X
K14QO8E	18.6	0.15	K2289	349.916	6.503	34.640	7.568	0.13425	2.43670	7	X
K14QY9G	18.5	0.15	K2289	41.926	183.020	142.789	2.883	0.20327	2.44700	5	X
K14Qc4X	18.5	0.15	K2289	340.171	92.225	312.000	1.694	0.19994	2.46916	7	X
K14Qe4T	17.7	0.15	K2289	8.443	116.694	281.665	5.599	0.16392	2.40705	9	X
K14Qo4U	18.1	0.15	K2289	44.638	291.500	25.366	12.233	0.22035	2.44393	5	X
K14Qp6C	18.8	0.15	K2289	47.644	152.464	160.356	9.556	0.22254	2.43458	3	X
K14Qq8X	17.8	0.15	K2289	8.125	333.763	49.343	15.466	0.10198	2.42306	6	X
K14QtOK	18.7	0.15	K2289	5.360	327.483	36.974	3.713	0.18016	2.46115	3	X
K14Qt3E	18.6	0.15	K2289	315.490	89.372	346.642	6.102	0.21865	2.44370	7	X
K14R16Q	18.4	0.15	K2289	0.943	119.579	246.293	3.766	0.24467	2.47673	4	X
K14R34E	18.7	0.15	K2289	16.510	336.517	14.389	7.031	0.15988	2.45858	3	X
K14R40P	18.6	0.15	K2289	348.832	350.412	36.558	10.124	0.23402	2.47399	4	X
K14R50Q	18.1	0.15	K2289	337.437	31.443	19.835	7.613	0.11330	2.47026	5	X
K14R77W	18.5	0.15	K2289	346.295	57.609	339.364	6.024	0.12735	2.47460	5	X
K14S71Q	18.0	0.15	K2289	13.773	333.847	22.580	8.493	0.14307	2.44507	8	X
K14SH4S	18.8	0.15	K2289	18.912	320.139	24.219	6.649	0.22581	2.46973	3	X
K14SI6C	18.2	0.15	K2289	317.213	344.012	92.978	6.349	0.08611	2.44315	10	X
K14SJ1M	18.5	0.15	K2289	16.537	332.296	16.187	7.907	0.19598	2.47889	4	X
K14SN7M	18.4	0.15	K2289	44.607	77.991	244.009	3.718	0.22678	2.44297	3	X
K14SPOV	18.0	0.15	K2289	337.821	100.155	305.498	5.649	0.11564	2.46945	9	X
K14T86G	18.7	0.15	K2289	233.230	114.337	24.876	21.229	0.02451	1.89749	8	X
K14T86M	15.6	0.15	K2289	56.104	241.174	81.087	10.216	0.23666	4.00600	6	X
K14TB4L	15.6	0.15	K2289	45.788	331.648	352.025	13.111	0.26337	3.94868	5	X
K14U28T	18.1	0.15	K2289	352.576	359.837	25.678	2.685	0.17491	2.53717	4	X
K14U64B	17.9	0.15	K2289	33.176	355.496	16.826	6.387	0.15161	2.42507	5	X
K14UA3G	19.0	0.15	K2289	6.821	337.150	22.471	20.138	0.07220	1.90703	5	X
K14UB5Y	18.9	0.15	K2289	293.892	39.566	45.758	23.659	0.12527	1.90912	5	X
K14UB7G	18.4	0.15	K2289	36.580	313.020	11.239	20.185	0.07480	1.92395	4	X
K14UC4V	15.6	0.15	K2289	35.237	24.148	317.109	7.559	0.16308	3.96935	8	X
K14UM3T	17.2	0.15	K2289	336.764	30.655	351.474	12.668	0.29903	2.55087	5	X
K14UM6G	18.8	0.15	K2289	271.132	233.716	247.545	18.705	0.13008	1.91903	4	X
K14UO7T	17.7	0.15	K2289	351.864	145.982	243.470	14.928	0.11411	2.55539	5	X
K14UP2R	18.7	0.15	K2289	357.436	26.469	350.123	4.347	0.17468	2.55040	3	X
K14V07Y	18.6	0.15	K2289	343.207	148.445	238.462	20.549	0.07918	1.93249	6	X
K14V25C	18.2	0.15	K2289	313.061	205.600	234.808	9.048	0.11831	2.54761	6	X
K14V26A	18.2	0.15	K2289	15.862	111.720	240.715	21.234	0.11013	1.93157	5	X
K14V33G	18.6	0.15	K2289	18.672	306.122	68.241	23.353	0.11006	1.90334	5	X
K14V38C	18.5	0.15	K2289	143.367	0.230	254.533	19.282	0.01975	1.89524	4	X
K14V40E	17.8	0.15	K2289	0.636	16.907	14.798	7.945	0.31758	2.53668	4	X
K14W84V	15.9	0.15	K2289	87.468	155.024	150.015	4.657	0.11742	3.93933	7	X
K14WB8U	17.3	0.15	K2289	5.947	338.617	22.472	5.224	0.24996	2.54319	8	X
K14WK0H	18.2	0.15	K2289	240.243	247.760	250.815	18.676	0.08579	1.92792	6	X
K14W00Z	17.2	0.15	K2289	327.528	165.121	256.129	11.001	0.22399	2.59610	7	X
K14WQ1A	18.4	0.15	K2289	14.422	207.359	160.656	3.954	0.13689	2.52618	4	X
K14WSOR	17.7	0.15	K2289	27.926	144.255	195.902	5.603	0.23577	2.53607	8	X
K14WT5G	17.1	0.15	K2289	119.370	34.510	228.711	31.758	0.19088	2.56126	4	X
K14WU8X	18.1	0.15	K2289	255.926	100.031	34.650	11.920	0.22347	2.59609	4	X
K14Wb1G	17.0	0.15	K2289	10.110	312.246	49.894	19.300	0.31269	2.56820	5	X
K14Wc0X	18.1	0.15	K2289	306.740	151.638	288.997	8.935	0.10783	2.53718	6	X
K14Wc7L	17.9	0.15	K2289	3.968	171.778	190.013	4.057	0.10994	2.58653	7	X
K14Wd1X	17.9	0.15	K2289	338.482	5.749	38.986	13.214	0.16287	2.54693	5	X
K14Wf0E	17.4	0.15	K2289	329.662	163.553	252.835	9.124	0.07431	2.57213	10	X
K14Wf2G	19.2	0.15	K2289	357.978	106.335	253.055	14.713	0.38234	2.54578	3	X
K14Wg1E	18.1	0.15	K2289	4.795	145.820	220.307	10.508	0.17286	2.57833	5	X
K14Wg6U	18.1	0.15	K2289	317.565	52.193	25.652	13.711	0.15610	2.58180	3	X
K14Wl8U	17.6	0.15	K2289	285.115	221.854	260.455	12.160	0.21165	2.62872	7	X
K14Wm4V	18.0	0.15	K2289	6.136	76.151	282.807	4.333	0.26049	2.54845	4	X
K14Wm6P	17.8	0.15	K2289	2.544	119.674	265.831	8.543	0.09214	2.54983	7	X
K14Wm8Z	17.2	0.15	K2289	330.404	28.737	44.361	17.467	0.11114	2.55152	8	X
K14Wp0Z	19.2	0.15	K2289	33.457	97.438	235.205	19.722	0.08035	1.93315	4	X
K14Wp2D	18.6	0.15	K2289	276.288	220.689	245.366	19.499	0.11645	1.91532	5	X
K14Wp3C	18.0	0.15	K2289	81.004	250.834	49.439	23.266	0.02897	1.92440	6	V
K14Wp4K	17.1	0.15	K2289	295.877	210.135	266.880	12.287	0.21501	2.64968	6	X
K14Ws7L	18.4	0.15	K2289	353.007	356.021	26.415	11.263	0.19247	2.54639	3	X
K14Ws8W	18.4	0.15	K2289	346.642	44.456	347.287	7.272	0.23878	2.53537	3	X
K14Ws9M	18.4	0.15	K2289	342.753	12.216	27.763	2.849	0.22726	2.54348	5	X
K14Wt2M	17.2	0.15	K2289	14.625	42.769	305.526	12.327	0.17541	2.55240	5	X
K14Wu8G	17.5	0.15	K2289	284.699	81.093	32.190	14.949	0.12210	2.57597	8	X
K14Ww5F	19.9	0.15	K2289	341.183	158.940	238.232	7.425	0.36004	2.54221	3	X
K14Wy3L	18.7	0.15	K2289	178.312	312.981	246.257	18.367	0.03941	1.91304	6	X
K14Wy6C	18.1	0.15	K2289	336.386	129.942	280.903	4.206	0.23481	2.57509	5	X
K14Wz5B	18.2	0.15	K2289	7.239	238.970	100.821	13.722	0.21120	2.59554	6	X
K14X06M	19.1	0.15	K2289	341.181	349.981	69.448	22.288	0.20929	1.90940	3	X
K14X21M	19.2	0.15	K2289	10.399	121.496	242.955	18.710	0.10463	1.91894	3	X
K14X30U	16.9	0.15	K2289	37.877	305.462	25.773	12.752	0.19876	2.53877	6	X
K14X32Z	17.8	0.15	K2289	251.353	257.114	253.229	3.577	0.14345	2.55582	7	X
K14X41G	18.7	0.15	K2289	10.387	104.476	264.451	15.439	0.12242	1.92115	4	X
K14X46V	17.8	0.15	K2289	1.303	335.995	38.961	8.199	0.11078	2.57312	5	X
K14X48F	17.8	0.15	K2289	314.788	79.923	357.943	8.318	0.16995	2.57829	4	X
K14X51P	17.3	0.15	K2289	313.822	81.719	351.106	13.065	0.05580	2.56116	7	X
K14X55O	17.1	0.15	K2289	333.698	163.743	245.759	12.397	0.09180	2.69588	8	X
K14X55Y	17.7	0.15	K2289	356.753	348.299	48.697	14.300	0.23415	2.55887	2	X

K14Y00E	17.8	0.15	K2289	296.072	226.813	258.309	17.343	0.29632	2.58520	2 X
K14Y05U	16.7	0.15	K2289	211.248	236.631	310.937	12.004	0.10169	2.65613	10 X
K14Y09X	17.4	0.15	K2289	6.486	103.031	269.672	5.021	0.23027	2.54376	6 X
K14Y13S	17.6	0.15	K2289	328.827	71.374	346.044	1.295	0.18827	2.55728	8 X
K14Y25O	17.4	0.15	K2289	292.799	196.208	276.657	13.196	0.21144	2.59084	6 X
K14Y26M	17.6	0.15	K2289	294.549	40.940	57.779	5.892	0.12427	2.56587	10 X
K14Y30M	17.7	0.15	K2289	329.150	35.419	71.151	14.501	0.21505	2.54210	5 X
K14Y45T	16.2	0.15	K2289	352.095	206.928	188.300	14.519	0.19290	2.55340	9 X
K14Y59J	17.4	0.15	K2289	4.929	89.852	289.214	11.339	0.10780	2.62867	7 X
K14Y62K	17.1	0.15	K2289	8.520	53.535	319.031	11.021	0.08334	2.65041	6 X
K14Y65H	17.7	0.15	K2289	296.444	254.133	226.316	25.274	0.30994	2.60107	4 X
K14Y68T	17.1	0.15	K2289	30.743	319.326	51.182	15.698	0.27416	2.54982	4 X
K14Y69S	18.7	0.15	K2289	299.092	200.658	244.453	20.899	0.08418	1.94199	5 X
K14Y70D	18.5	0.15	K2289	280.914	213.546	260.943	4.871	0.21538	2.59294	4 X
K14Y77Q	17.9	0.15	K2289	293.445	42.882	52.152	6.592	0.07857	2.59162	7 X
K14Y89T	17.4	0.15	K2289	318.216	168.855	262.999	21.149	0.03373	2.69540	7 X
K14Y90G	17.7	0.15	K2289	14.382	340.027	19.537	5.014	0.24198	2.54096	6 X
K14Y90J	18.5	0.15	K2289	309.047	39.930	48.607	6.956	0.17922	2.58516	4 X
K14Y98C	18.2	0.15	K2289	275.378	318.001	150.816	11.218	0.07634	2.59158	3 X
K15A02Y	17.8	0.15	K2289	315.932	61.883	20.411	29.933	0.33055	2.59634	5 V
K15A08H	18.2	0.15	K2289	328.356	48.685	21.219	13.374	0.16632	2.57677	3 X
K15A09A	18.0	0.15	K2289	340.215	17.456	30.970	12.906	0.28800	2.56538	2 X
K15A15Q	17.5	0.15	K2289	319.265	56.701	11.243	15.767	0.12291	2.63908	7 X
K15A23P	17.7	0.15	K2289	13.798	138.991	222.731	12.806	0.11979	2.57407	6 X
K15A39E	18.2	0.15	K2289	344.027	78.499	327.050	2.849	0.24553	2.57894	7 X
K15A97E	17.1	0.15	K2289	45.011	69.274	234.909	29.379	0.25592	2.66936	7 X
K15AC7V	18.3	0.15	K2289	339.172	111.296	291.700	0.709	0.08846	2.65421	8 X
K15AJ6P	19.0	0.15	K2289	342.287	82.882	328.999	5.636	0.29113	2.57452	3 X
K15AK4D	17.5	0.15	K2289	290.524	218.115	238.025	21.079	0.02951	2.58427	4 X
K15AM5K	16.8	0.15	K2289	74.257	31.456	266.795	10.753	0.14135	2.75004	10 X
K15A00L	17.2	0.15	K2289	34.643	82.757	269.248	10.973	0.04041	2.70801	9 X
K15AP9B	18.3	0.15	K2289	339.523	44.184	0.924	4.293	0.26877	2.58452	5 X
K15AQ3C	16.2	0.15	K2289	16.065	228.309	133.887	10.011	0.12429	2.72255	12 X
K15AS8S	16.9	0.15	K2289	41.604	294.460	85.459	26.003	0.11213	2.56842	7 X
K15AT0K	18.8	0.15	K2289	345.307	215.097	170.474	2.280	0.09463	2.66784	4 X
K15B05C	16.8	0.15	K2289	246.938	237.649	275.443	12.199	0.08464	2.63673	9 X
K15B14L	18.2	0.15	K2289	322.621	50.580	20.123	7.692	0.16665	2.58487	4 X
K15B42Q	17.6	0.15	K2289	23.732	101.058	251.289	17.148	0.22693	2.54715	7 X
K15B44P	17.0	0.15	K2289	5.426	216.485	143.050	5.498	0.29414	2.55821	9 X
K15B47E	18.2	0.15	K2289	7.471	140.520	226.482	7.948	0.17995	2.57526	5 X
K15B60A	17.0	0.15	K2289	65.420	340.227	330.986	4.153	0.10275	2.72257	10 X
K15B90A	16.8	0.15	K2289	10.828	105.581	268.678	10.773	0.11347	2.69360	11 X
K15B92U	17.2	0.15	K2289	276.199	115.532	88.573	30.342	0.36099	2.62291	4 X
K15BD4T	17.7	0.15	K2289	24.916	277.207	84.599	6.023	0.08369	2.67264	7 X
K15BG5X	17.4	0.15	K2289	63.789	350.283	308.460	7.244	0.20712	2.77595	9 X
K15BK5V	17.9	0.15	K2289	356.085	53.299	334.341	3.430	0.29660	2.55823	5 X
K15BK6T	17.4	0.15	K2289	358.648	152.476	216.854	1.702	0.23824	2.56577	10 X
K15BL9Q	18.4	0.15	K2289	346.738	63.445	338.417	7.214	0.13098	2.59488	5 X
K15BN5V	18.3	0.15	K2289	276.118	127.779	358.033	5.253	0.22318	2.61308	5 X
K15BZ7B	17.6	0.15	K2289	355.221	20.409	1.454	7.804	0.19256	2.60743	6 X
K15Bg7A	17.3	0.15	K2289	5.433	31.295	345.179	5.603	0.07586	2.71644	10 X
K15Bh7Z	18.3	0.15	K2289	328.779	83.912	341.099	5.683	0.18756	2.65067	5 X
K15Bk3O	16.9	0.15	K2289	326.704	68.551	350.998	12.368	0.15267	2.68788	8 X
K15Bn7D	17.7	0.15	K2289	319.105	50.186	6.357	1.566	0.02062	2.73844	5 X
K15Bo3C	17.4	0.15	K2289	32.070	48.020	291.552	11.616	0.18019	2.70043	4 X
K15Br5L	17.6	0.15	K2289	333.864	25.598	73.889	11.025	0.10248	2.58594	6 X
K15Bt9A	17.5	0.15	K2289	322.228	54.619	20.894	5.346	0.24475	2.57193	9 X
K15Bw1B	18.1	0.15	K2289	345.960	29.636	11.728	5.603	0.34612	2.57476	4 X
K15C00W	18.4	0.15	K2289	2.128	114.731	286.205	17.519	0.10496	1.94891	5 X
K15C28F	18.8	0.15	K2289	300.699	100.854	13.388	5.328	0.29625	2.58900	5 X
K15C38S	16.9	0.15	K2289	176.250	285.259	285.835	13.581	0.10552	2.72979	7 X
K15C67F	17.8	0.15	K2289	248.100	310.946	200.402	4.566	0.10377	2.71051	8 X
K15D04T	17.0	0.15	K2289	157.384	276.777	317.776	12.062	0.13583	2.70028	7 X
K15D50Y	18.1	0.15	K2289	342.891	21.943	60.517	7.318	0.25641	2.57109	7 X
K15D97S	16.5	0.15	K2289	91.581	324.982	6.676	12.678	0.14959	2.68933	9 X
K15DA2T	18.3	0.15	K2289	349.398	5.626	56.312	8.666	0.25944	2.55104	2 X
K15DD9A	18.1	0.15	K2289	311.914	121.755	315.856	5.150	0.04156	2.67487	6 X
K15DE4Y	17.4	0.15	K2289	338.262	134.920	274.662	10.997	0.17867	2.61682	5 X
K15DJ0F	17.4	0.15	K2289	284.892	30.623	56.868	10.678	0.14228	2.76931	3 X
K15DK1Z	17.0	0.15	K2289	332.570	44.462	16.763	9.462	0.12610	2.68508	9 X
K15DK2R	16.6	0.15	K2289	67.197	63.128	243.951	8.186	0.12261	2.84903	12 X
K15DK3O	18.0	0.15	K2289	242.962	314.900	198.240	12.053	0.11680	2.74171	5 X
K15DM5T	14.1	0.15	K2289	245.438	153.407	5.483	7.210	0.03609	5.19605	13 X
K15DO7H	17.3	0.15	K2289	326.586	108.520	325.957	5.013	0.04375	2.76325	12 X
K15DP2D	16.8	0.15	K2289	74.338	329.698	318.462	14.890	0.15557	2.79466	8 X
K15DP7F	17.9	0.15	K2289	331.565	127.233	288.290	12.146	0.18766	2.68692	4 X
K15DP8G	18.2	0.15	K2289	278.225	51.661	84.806	8.774	0.18653	2.68062	3 X
K15DROE	18.4	0.15	K2289	237.589	286.393	225.421	7.414	0.14284	2.72840	2 X
K15DR7H	17.5	0.15	K2289	50.174	0.048	331.704	5.172	0.03246	2.78105	11 X
K15DU7W	18.0	0.15	K2289	305.611	292.706	163.975	4.775	0.08445	2.73838	5 X
K15E02E	17.3	0.15	K2289	260.774	152.880	351.807	11.558	0.12224	2.68510	6 X
K15E64R	13.5	0.15	K2289	156.991	217.733	42.430	20.445	0.02718	5.21719	11 X
K15F32Z	17.0	0.15	K2289	65.591	275.511	42.287	20.922	0.11592	2.80094	9 X
K15F61H	17.7	0.15	K2289	336.884	122.350	283.191	10.312	0.14943	2.70525	5 X
K15F75M	16.6	0.15	K2289	295.620	113.069	37.376	8.571	0.12334	2.66260	13 X
K15F83V	17.6	0.15	K2289	269.279	303.246	203.970	11.320	0.23978	2.64515	7 X
K15FC4W	17.8	0.15	K2289	297.412	189.409	281.420	13.004	0.20487	2.59997	4 X
K15FJ2J	17.4	0.15	K2289	1.390	123.017	282.079	15.818	0.26009	2.64449	8 X
K15FL4C	15.8	0.15	K2289	8.555	258.076	103.441	14.902	0.28893	2.97600	10 X
K15FL7O	17.7	0.15	K2289	235.723	353.566	170.974	4.294	0.04100	2.75257	6 X
K15FM7G	17.9	0.15	K2289	159.993	74.896	133.425	2.925	0.00606	2.87208	6 X
K15FM8O	17.6	0.15	K2289	10.252	193.494	158.066	4.774	0.08134	2.90381	7 X
K15FS2X	18.2	0.15	K2289	308.946	74.376	25.531	12.554	0.24089	2.64721	4 X

K15FWON	18.3	0.15	K2289	300.937	38.271	81.371	8.602	0.28819	2.63914	4 X
K15FW9R	16.9	0.15	K2289	148.937	188.062	50.243	18.166	0.08425	2.86416	6 X
K15FZ3Y	14.5	0.15	K2289	335.828	61.096	24.725	6.709	0.12510	5.15919	9 X
K15Fa2F	17.7	0.15	K2289	320.259	121.959	356.961	3.534	0.17239	2.64588	9 X
K15Fb0G	17.6	0.15	K2289	308.770	168.675	286.127	12.716	0.21008	2.68388	6 X
K15Fc5A	18.0	0.15	K2289	298.934	264.526	204.440	8.179	0.15499	2.66106	5 X
K15Fg7S	17.7	0.15	K2289	293.069	311.523	155.910	4.075	0.05166	2.76932	8 X
K15Fh8F	14.5	0.15	K2289	257.026	67.471	92.213	10.712	0.04549	5.23206	8 X
K15G17P	14.1	0.15	K2289	341.118	54.797	15.379	9.604	0.06521	5.11822	11 X
K15H81B	17.5	0.15	K2289	311.231	46.050	35.817	10.838	0.06316	2.86647	8 X
K15HQOH	18.2	0.15	K2289	75.934	209.100	75.799	4.571	0.17609	3.10788	4 X
K15HUOK	17.9	0.15	K2289	42.870	113.234	207.206	14.322	0.15621	3.01926	4 X
K15HUOP	17.6	0.15	K2289	12.132	28.463	328.508	2.339	0.28058	2.99145	3 V
K15HUOQ	18.1	0.15	K2289	325.921	183.437	246.779	7.243	0.20233	2.77909	5 V
K15HUOS	18.0	0.15	K2289	26.227	264.610	79.735	4.233	0.10687	2.96942	2 X
K15HUOT	18.1	0.15	K2289	282.437	126.572	333.825	1.294	0.02342	2.88557	5 X
K15JQ2L	13.3	0.15	K2289	56.210	307.443	61.897	20.972	0.01893	5.29858	10 X
K15J26U	16.6	0.15	K2289	19.259	44.366	321.784	8.452	0.09772	2.96952	10 X
K15K9OX	16.8	0.15	K2289	39.616	261.742	75.156	14.284	0.20607	3.11695	6 X
K15KJ4B	17.8	0.15	K2289	121.579	192.157	59.778	4.011	0.12954	3.02873	4 X
K15KLOV	17.5	0.15	K2289	83.589	149.725	138.627	0.233	0.14632	3.07041	4 X
K15KW3S	17.8	0.15	K2289	352.189	330.964	40.573	0.937	0.22197	3.16185	2 X
K15KW6D	18.1	0.15	K2289	356.735	235.293	141.432	1.816	0.17513	3.06709	5 X
K15KW7K	17.4	0.15	K2289	336.743	32.921	23.832	11.674	0.11032	2.93455	5 X
K15KW7M	17.4	0.15	K2289	1.841	130.319	243.940	19.944	0.22553	3.06680	3 X
K15KW7T	17.3	0.15	K2289	339.761	14.232	37.170	6.611	0.17361	2.97296	4 X
K15KW7W	17.9	0.15	K2289	10.845	130.530	231.646	5.180	0.11220	3.08725	5 X
K15KW8E	18.3	0.15	K2289	22.987	248.833	87.695	2.098	0.18402	3.14633	2 X
K15M13X	19.8	0.15	K2289	23.452	357.035	335.711	5.741	0.21479	2.21818	2 X
K15M19W	16.5	0.15	K2289	54.243	56.777	257.978	12.967	0.13633	3.07274	8 X
K15M24K	18.9	0.15	K2289	5.746	61.305	298.242	1.220	0.13937	2.13047	8 X
K15M30C	16.8	0.15	K2289	30.866	287.490	45.239	25.244	0.23737	3.15923	5 X
K15M96U	16.5	0.15	K2289	38.349	87.664	249.591	28.876	0.20234	3.17981	4 X
K15MI6G	16.4	0.15	K2289	266.127	215.640	288.180	12.726	0.11730	3.08280	6 X
K15MK1T	19.0	0.15	K2289	45.926	102.839	197.066	6.691	0.11777	2.24534	4 X
K15MK1V	19.5	0.15	K2289	16.650	67.257	268.456	2.024	0.19699	2.23259	2 X
K15O07A	15.8	0.15	K2289	235.493	250.972	269.322	14.511	0.10116	3.13976	11 X
K15O17L	18.4	0.15	K2289	6.143	331.889	19.504	3.988	0.19613	2.24513	6 X
K15OCOL	19.3	0.15	K2289	356.226	28.201	344.344	4.444	0.23589	2.23005	4 X
K15OC4R	18.5	0.15	K2289	17.876	23.851	315.829	6.195	0.19742	2.25606	6 X
K15OD1G	19.1	0.15	K2289	15.793	58.823	286.661	3.020	0.21598	2.27242	3 X
K15OE3S	18.9	0.15	K2289	37.490	76.046	225.703	2.383	0.19623	2.26471	5 X
K15OG4O	16.7	0.15	K2289	172.701	141.549	86.637	10.167	0.03351	3.20819	8 X
K15OH6U	18.9	0.15	K2289	346.114	78.987	306.921	5.495	0.18675	2.27505	5 X
K15P17X	16.1	0.15	K2289	318.534	113.218	330.570	9.236	0.00743	3.12926	12 X
K15P46W	16.3	0.15	K2289	9.021	20.146	357.832	10.024	0.08621	3.34882	10 X
K15P50L	18.4	0.15	K2289	347.706	345.915	37.911	5.425	0.14515	2.23671	8 X
K15PH1E	19.1	0.15	K2289	345.860	29.744	347.627	6.150	0.08586	2.23352	4 X
K15PK6A	18.6	0.15	K2289	12.937	292.302	51.173	7.080	0.25094	2.25607	5 X
K15PO4E	18.6	0.15	K2289	55.196	310.060	8.167	6.777	0.03257	2.20250	8 X
K15PQ1Z	19.6	0.15	K2289	356.616	28.932	338.845	4.626	0.23630	2.23971	3 X
K15PT2X	19.0	0.15	K2289	25.669	97.701	229.140	4.452	0.27168	2.24517	4 V
K15PU3S	16.0	0.15	K2289	107.864	283.441	46.444	10.349	0.08640	3.11318	13 X
K15PW3F	18.5	0.15	K2289	343.109	95.398	296.493	6.565	0.11439	2.20931	6 X
K15Q17L	16.6	0.15	K2289	330.403	235.155	199.633	9.232	0.06500	3.35750	9 X
K15R48W	18.8	0.15	K2289	314.180	107.276	325.560	4.706	0.16022	2.25685	7 X
K15R50N	18.7	0.15	K2289	316.060	105.764	330.490	6.266	0.17831	2.25022	6 X
K15R54H	18.0	0.15	K2289	336.754	83.433	318.908	2.432	0.12291	2.26272	11 X
K15R61D	17.9	0.15	K2289	4.123	59.978	347.933	5.743	0.13703	2.19803	12 X
K15RI6J	18.3	0.15	K2289	62.765	283.193	21.121	7.259	0.12506	2.26943	9 X
K15RZ8Z	19.2	0.15	K2289	343.365	62.776	336.767	4.567	0.19016	2.24101	5 X
K15S04F	15.3	0.15	K2289	16.221	105.886	275.506	12.241	0.08010	3.42531	13 X
K15S18X	17.9	0.15	K2289	58.910	206.930	96.955	6.313	0.22520	2.24444	6 X
K15S30Z	18.0	0.15	K2289	243.280	258.816	254.456	8.354	0.13157	2.33142	5 X
K15S33E	18.6	0.15	K2289	341.836	91.183	302.529	3.308	0.13860	2.26747	6 X
K15T11W	19.3	0.15	K2289	350.834	114.398	261.916	4.372	0.24818	2.26593	3 X
K15T15U	18.4	0.15	K2289	281.693	175.401	294.411	7.452	0.04025	2.21150	7 X
K15T25L	17.7	0.15	K2289	333.173	92.012	327.206	6.636	0.06445	2.22831	8 X
K15T27D	18.5	0.15	K2289	335.466	71.560	340.729	7.299	0.12294	2.25865	8 X
K15T59R	18.2	0.15	K2289	276.836	141.327	341.361	8.413	0.13193	2.21817	10 X
K15T77S	18.7	0.15	K2289	327.124	23.930	33.678	5.732	0.21256	2.30753	7 X
K15T88L	19.0	0.15	K2289	336.245	7.073	37.885	24.154	0.19829	2.30926	3 X
K15T98R	19.2	0.15	K2289	349.204	169.226	219.181	7.451	0.11528	2.31365	4 X
K15TI0L	18.2	0.15	K2289	339.425	35.676	19.244	5.363	0.16422	2.27539	7 X
K15TK5T	18.1	0.15	K2289	338.215	86.780	313.423	4.487	0.15504	2.27548	9 X
K15TLOZ	18.1	0.15	K2289	45.716	303.643	3.229	5.805	0.25661	2.25571	8 X
K15TN3W	18.7	0.15	K2289	25.433	8.714	322.181	5.123	0.21471	2.28022	3 X
K15TR5S	19.0	0.15	K2289	351.399	160.715	213.697	5.012	0.24219	2.28732	6 X
K15TW3C	19.1	0.15	K2289	342.836	8.832	35.899	7.211	0.39966	2.27670	2 X
K15Td0B	19.0	0.15	K2289	21.354	246.105	86.465	0.615	0.24153	2.30768	2 V
K15Td00	18.9	0.15	K2289	339.997	160.323	238.311	4.949	0.24673	2.28507	4 X
K15Tf8E	18.9	0.15	K2289	308.065	264.007	169.366	2.951	0.14471	2.32129	5 X
K15Tk2J	16.7	0.15	K2289	1.634	49.618	348.010	8.963	0.04773	3.43221	5 X
K15Tl3Q	18.7	0.15	K2289	310.953	67.031	9.769	2.990	0.12319	2.31451	6 X
K15Tl4O	17.0	0.15	K2289	344.030	30.061	27.113	8.112	0.21752	3.61085	4 X
K15U17F	17.9	0.15	K2289	248.544	86.757	58.119	6.084	0.13726	2.26808	9 X
K15U23P	19.6	0.15	K2289	345.175	301.955	83.048	3.652	0.19129	2.29252	2 V
K15U56G	18.7	0.15	K2289	25.305	305.567	38.716	5.889	0.14595	2.27055	6 X
K15U78C	17.9	0.15	K2289	312.372	191.078	242.174	6.454	0.13154	2.32778	10 X
K15UA9R	18.8	0.15	K2289	359.716	319.431	45.083	5.691	0.23091	2.32826	3 X
K15V00W	20.9	0.15	K2289	357.779	301.573	34.315	25.570	0.34182	1.75145	2 V
K15V28Y	18.6	0.15	K2289	302.214	181.224	268.591	5.941	0.14274	2.29364	7 X
K15V44A	18.8	0.15	K2289	358.796	62.728	302.387	7.442	0.20505	2.25604	4 X

K15V54C	18.9	0.15	K2289	329.272	217.253	194.592	5.936	0.21176	2.28914	5 X
K15V61C	18.6	0.15	K2289	331.650	18.508	36.691	24.384	0.20020	2.28197	5 X
K15V98C	18.3	0.15	K2289	335.084	16.548	47.092	7.027	0.14448	2.27909	6 X
K15VC1S	17.3	0.15	K2289	357.481	139.269	236.178	24.139	0.24345	2.31519	4 X
K15VC7J	18.0	0.15	K2289	6.977	357.120	357.441	6.562	0.21143	2.30708	7 X
K15VC8O	18.8	0.15	K2289	353.179	176.873	198.351	1.334	0.21682	2.30935	5 X
K15VD5B	17.9	0.15	K2289	295.002	238.554	226.008	23.288	0.23502	2.32351	4 X
K15VD5O	17.9	0.15	K2289	316.498	37.533	63.515	23.706	0.16028	2.27041	5 X
K15VE2K	19.4	0.15	K2289	8.353	118.961	193.607	3.913	0.53776	2.31832	5 V
K15VH5G	18.3	0.15	K2289	355.966	141.169	247.216	24.375	0.21748	2.28567	3 X
K15VK2E	17.8	0.15	K2289	25.451	28.919	302.360	6.183	0.21050	2.30966	7 X
K15W14H	17.9	0.15	K2289	1.211	353.273	48.568	7.437	0.20141	2.26231	7 X
K15X38D	19.0	0.15	K2289	9.729	253.699	109.095	4.349	0.19421	2.30575	4 X
K15XD8V	19.0	0.15	K2289	345.710	189.743	198.808	0.745	0.19490	2.32169	4 X
K15XE3X	18.9	0.15	K2289	317.733	207.466	221.062	1.848	0.16878	2.32878	6 X
K15XF1J	18.2	0.15	K2289	323.197	134.827	285.584	11.087	0.12907	2.32643	5 X
K15XI8N	18.2	0.15	K2289	326.532	71.673	340.353	4.248	0.28595	2.33288	6 X
K15XJ5C	19.0	0.15	K2289	330.249	137.395	273.401	0.467	0.17649	2.33983	7 X
K15XL5G	19.6	0.15	K2289	333.972	303.110	94.517	2.467	0.17711	2.34274	2 X
K15XR5P	18.2	0.15	K2289	268.465	264.594	222.033	1.985	0.10571	2.34281	9 X
K15Xa7O	18.6	0.15	K2289	348.606	103.587	281.457	3.956	0.20202	2.34223	4 X
K15Xg4R	17.2	0.15	K2289	308.064	203.908	241.511	22.180	0.13792	2.34019	5 X
K15Xk7F	19.0	0.15	K2289	300.164	187.769	258.214	3.706	0.14227	2.39522	6 X
K15Xk7O	18.2	0.15	K2289	12.969	98.525	249.929	22.544	0.27573	2.30396	4 X
K15Xl2J	19.3	0.15	K2289	340.636	46.627	351.823	1.157	0.18197	2.33371	5 X
K15Xn2U	19.3	0.15	K2289	305.230	345.168	83.061	3.634	0.16899	2.37346	2 X
K15Xn7L	19.0	0.15	K2289	348.318	172.424	217.793	5.586	0.11230	2.35000	4 X
K15Y13K	18.0	0.15	K2289	346.853	138.680	245.291	22.688	0.24638	2.34657	3 X
K16A01A	18.0	0.15	K2289	304.827	117.040	332.336	11.090	0.20272	2.37779	7 X
K16A29C	18.5	0.15	K2289	306.161	180.871	268.558	2.698	0.18087	2.36066	8 X
K16A61D	18.4	0.15	K2289	178.310	120.995	99.040	5.881	0.18565	2.42277	6 X
K16A82X	18.6	0.15	K2289	305.019	165.409	276.951	4.996	0.07772	2.33472	5 X
K16A98U	18.3	0.15	K2289	282.274	169.634	321.640	4.727	0.17809	2.37063	8 X
K16AI4N	17.7	0.15	K2289	6.908	77.107	302.847	6.660	0.11932	2.36125	10 X
K16AJ2J	18.6	0.15	K2289	303.440	109.969	25.137	6.286	0.23202	2.30724	6 X
K16AT2O	17.6	0.15	K2289	3.467	54.136	293.419	13.855	0.25919	2.54508	4 X
K16AT6C	18.4	0.15	K2289	209.036	227.215	319.968	6.919	0.37874	2.56708	3 X
K16Ab5H	18.6	0.15	K2289	311.085	210.727	227.092	3.407	0.10947	2.39480	4 V
K16Ab5V	18.5	0.15	K2289	290.099	259.225	183.329	4.844	0.10377	2.43146	5 X
K16B06Q	17.0	0.15	K2289	94.649	333.000	302.211	7.995	0.16034	2.60948	8 X
K16B91S	17.2	0.15	K2289	103.408	249.822	357.836	13.591	0.14393	2.61103	9 X
K16BD8H	18.5	0.15	K2289	293.304	59.274	32.977	5.802	0.10739	2.43156	6 X
K16C25P	18.8	0.15	K2289	339.144	24.950	28.567	10.023	0.19592	2.36346	4 X
K16C27N	16.5	0.15	K2289	72.633	301.053	0.969	15.031	0.12636	2.53837	9 X
K16C70F	17.4	0.15	K2289	324.839	133.312	295.989	7.066	0.04364	2.39639	8 X
K16CF5D	18.6	0.15	K2289	344.769	263.664	140.111	4.381	0.12209	2.41668	7 X
K16CF7S	18.2	0.15	K2289	316.210	120.659	311.276	3.285	0.16389	2.40758	8 X
K16CK2B	18.0	0.15	K2289	338.261	66.645	7.549	3.079	0.16647	2.36198	10 X
K16CO9G	17.5	0.15	K2289	259.483	187.946	349.320	6.390	0.08013	2.35680	9 X
K16CP3J	17.9	0.15	K2289	280.459	245.064	217.343	5.935	0.06827	2.44496	11 X
K16CQ2L	17.7	0.15	K2289	319.031	161.511	307.925	10.715	0.17109	2.33706	5 X
K16CQ3H	17.1	0.15	K2289	171.877	265.386	324.510	6.804	0.11602	2.45014	10 X
K16CS1R	17.2	0.15	K2289	117.817	260.327	352.483	10.365	0.15289	2.68139	9 X
K16CS6A	17.4	0.15	K2289	19.773	349.279	10.183	14.445	0.06692	2.54755	6 X
K16CU8L	18.1	0.15	K2289	191.621	181.058	0.385	11.778	0.13059	2.57718	4 X
K16E23Q	16.8	0.15	K2289	87.237	30.033	262.626	9.268	0.07211	2.61150	8 X
K16E24O	17.2	0.15	K2289	64.216	73.171	242.816	13.165	0.02841	2.59714	7 X
K16E28K	19.2	0.15	K2289	8.715	317.486	30.374	25.332	0.13944	1.87180	5 X
K16E62B	17.2	0.15	K2289	40.752	31.431	277.388	14.782	0.26122	2.74576	7 X
K16E70J	16.7	0.15	K2289	158.681	271.377	320.093	8.421	0.12608	2.59798	14 X
K16E71O	17.7	0.15	K2289	235.281	189.983	329.619	8.229	0.10186	2.55800	8 X
K16EA3K	16.5	0.15	K2289	31.230	302.632	36.546	15.622	0.17244	2.57191	8 X
K16EC8G	17.7	0.15	K2289	358.247	15.339	7.480	7.448	0.05590	2.55701	7 X
K16EJ3C	17.0	0.15	K2289	286.188	81.466	33.023	22.493	0.09788	2.55809	5 X
K16EK3Z	18.7	0.15	K2289	283.438	59.575	68.115	21.913	0.04038	1.82358	4 X
K16EK5N	19.0	0.15	K2289	246.787	105.246	30.253	18.038	0.09372	1.86117	4 X
K16ER6L	17.4	0.15	K2289	22.074	327.519	33.722	10.887	0.16440	2.53851	5 X
K16ES2X	16.6	0.15	K2289	352.634	148.803	257.071	11.780	0.13395	2.55535	9 X
K16EY2X	17.8	0.15	K2289	262.591	162.868	331.792	14.202	0.16713	2.53020	4 X
K16F01R	18.5	0.15	K2289	311.847	332.398	116.566	4.079	0.15603	2.44402	7 X
K16F47G	18.6	0.15	K2289	160.179	208.026	358.219	13.165	0.18535	2.65050	2 X
K16F60Z	18.9	0.15	K2289	265.623	75.823	37.303	23.230	0.06619	1.85749	3 X
K16F68W	17.4	0.15	K2289	39.826	43.524	287.632	6.420	0.15229	2.71893	5 X
K16F69W	17.9	0.15	K2289	192.332	135.497	73.338	12.798	0.13683	2.58843	3 X
K16F89Q	17.6	0.15	K2289	20.148	95.219	243.890	7.728	0.26009	2.72037	7 X
K16F91S	18.5	0.15	K2289	339.915	93.834	303.366	11.735	0.19234	2.56403	4 X
K16FD9U	18.1	0.15	K2289	350.648	92.333	289.722	10.664	0.19502	2.58462	4 X
K16FE4G	17.9	0.15	K2289	353.110	41.400	340.448	14.628	0.12957	2.59907	2 X
K16FF4W	18.1	0.15	K2289	9.435	76.358	281.254	10.370	0.22103	2.65901	4 X
K16FF5H	18.6	0.15	K2289	32.782	67.145	249.235	9.701	0.19678	2.74892	2 X
K16G32Z	18.1	0.15	K2289	302.265	96.451	350.566	5.437	0.06119	2.53556	8 X
K16G53N	17.1	0.15	K2289	43.167	316.605	8.397	9.842	0.21611	2.71473	8 X
K16G56A	17.2	0.15	K2289	350.998	20.584	17.268	14.966	0.07520	2.56175	7 X
K16G61F	17.3	0.15	K2289	356.959	30.150	1.225	6.895	0.20053	2.53754	7 X
K16GA2S	17.7	0.15	K2289	17.392	351.939	29.213	6.874	0.24581	2.55182	5 X
K16GC1N	17.7	0.15	K2289	340.774	8.520	35.702	4.823	0.12737	2.57981	8 X
K16GC6D	17.2	0.15	K2289	322.090	51.525	23.420	15.379	0.09098	2.55073	6 X
K16GG1W	16.8	0.15	K2289	4.669	349.867	41.445	15.750	0.12237	2.54157	9 X
K16GM8E	17.9	0.15	K2289	307.838	79.570	4.835	1.972	0.07714	2.57022	11 X
K16GW5K	18.0	0.15	K2289	11.576	95.266	265.109	4.734	0.14524	2.60830	5 X
K16GY5T	18.2	0.15	K2289	24.626	325.328	19.637	15.264	0.14460	2.65473	2 X
K16GY6J	17.6	0.15	K2289	45.250	195.717	124.473	10.571	0.12882	2.80680	5 X
K16H11Q	14.1	0.15	K2289	350.231	32.648	19.463	7.510	0.09970	5.15511	11 X

K16H15B	17.5	0.15	K2289	36.882	278.928	48.360	8.911	0.21253	2.78417	7 X
K16H44P	18.3	0.15	K2289	19.350	307.377	35.895	10.138	0.12694	2.76640	3 X
K16J15Q	17.3	0.15	K2289	292.483	63.581	46.986	14.422	0.05168	2.57992	6 X
K16J52D	18.9	0.15	K2289	286.241	330.181	93.130	25.709	0.09078	1.92215	5 V
K16L14S	19.2	0.15	K2289	30.108	108.360	226.656	19.490	0.09370	1.93843	6 X
K16L25A	17.9	0.15	K2289	27.351	223.735	135.600	4.081	0.10453	2.74603	6 X
K16L31Q	17.8	0.15	K2289	36.773	195.539	155.488	4.665	0.08641	2.75494	7 X
K16L48Q	17.7	0.15	K2289	26.172	89.659	277.299	17.229	0.10129	1.88958	8 X
K16L58Q	16.7	0.15	K2289	18.740	112.850	243.522	9.980	0.18016	3.03632	7 X
K16L60W	17.0	0.15	K2289	36.191	144.329	158.941	17.078	0.21566	3.13296	7 X
K16L70R	17.1	0.15	K2289	358.816	132.879	251.670	17.872	0.12352	3.03327	6 X
K16L71L	17.3	0.15	K2289	357.782	127.983	263.808	16.073	0.21629	3.06024	4 X
K16LA1F	17.0	0.15	K2289	10.425	84.067	268.481	24.196	0.29138	3.16686	2 X
K16M01A	16.8	0.15	K2289	23.963	79.343	260.508	19.140	0.39340	3.12481	5 X
K16M03X	16.5	0.15	K2289	11.144	81.660	294.151	11.704	0.09121	3.10436	7 X
K16N11T	16.8	0.15	K2289	21.999	71.579	280.854	13.247	0.15564	2.98801	6 X
K16N24E	17.1	0.15	K2289	190.061	294.123	264.178	13.695	0.09513	2.86146	6 X
K16N31Z	17.0	0.15	K2289	26.558	126.271	220.478	18.033	0.14614	3.04108	7 X
K16N44Y	17.1	0.15	K2289	47.174	181.339	138.457	4.893	0.28074	3.04350	6 X
K16N64D	17.2	0.15	K2289	1.528	123.633	255.907	15.000	0.24516	3.18607	4 X
K16N82P	17.0	0.15	K2289	340.358	103.197	305.388	11.330	0.13557	3.09022	5 X
K16N86J	16.7	0.15	K2289	52.131	7.553	310.271	6.396	0.18335	2.98932	10 X
K16NBOC	17.1	0.15	K2289	354.952	107.455	279.463	10.832	0.07000	2.99627	6 X
K16NC2D	17.6	0.15	K2289	3.069	156.864	218.610	13.728	0.17935	3.03342	4 X
K16NE1G	17.1	0.15	K2289	30.987	24.261	307.769	11.974	0.25056	3.05523	3 X
K16NE9K	17.1	0.15	K2289	12.259	27.114	336.465	10.981	0.15101	3.13260	5 X
K16NG7U	17.4	0.15	K2289	33.877	86.228	241.166	14.692	0.23792	3.16072	3 X
K16NH8E	17.8	0.15	K2289	5.902	232.830	118.245	2.923	0.19406	3.14671	4 X
K16O10V	16.7	0.15	K2289	34.105	63.728	288.458	10.803	0.10217	3.05612	7 X
K16P04W	17.2	0.15	K2289	352.337	55.939	344.143	8.798	0.10311	2.98501	9 X
K16P14D	17.4	0.15	K2289	12.532	312.652	45.231	14.956	0.29913	3.16520	3 X
K16P15K	16.8	0.15	K2289	3.357	65.066	307.390	8.875	0.24583	3.04504	6 X
K16P58K	18.0	0.15	K2289	344.550	338.042	61.090	11.746	0.24108	3.16802	3 X
K16P65T	17.1	0.15	K2289	19.240	5.899	7.810	11.831	0.07291	2.96602	6 X
K16P84E	16.9	0.15	K2289	9.548	28.493	26.781	11.301	0.20509	3.06780	8 X
K16P87L	16.3	0.15	K2289	21.596	13.103	353.110	13.219	0.08077	3.16719	8 X
K16P91P	16.9	0.15	K2289	46.654	253.779	74.423	13.156	0.21563	3.08205	5 X
K16P95E	16.7	0.15	K2289	68.217	313.904	6.036	9.827	0.10333	3.00147	7 X
K16PA8C	17.1	0.15	K2289	11.956	11.574	0.046	11.341	0.18840	3.06263	4 X
K16PB0E	16.9	0.15	K2289	67.608	305.074	4.264	11.159	0.10778	3.04323	6 X
K16PB5C	17.1	0.15	K2289	12.547	72.388	304.393	9.572	0.11702	2.98441	6 X
K16PC5Y	16.8	0.15	K2289	5.847	81.028	294.180	11.507	0.18332	3.13170	6 X
K16PDOQ	16.9	0.15	K2289	3.948	348.408	62.573	9.717	0.26418	3.10797	4 X
K16PG0Z	16.5	0.15	K2289	44.020	334.591	0.746	13.166	0.14905	3.17794	7 X
K16PJ8F	17.9	0.15	K2289	359.414	335.445	40.351	13.888	0.39789	3.19884	4 X
K16PK4C	17.3	0.15	K2289	17.947	54.686	313.670	8.117	0.06105	3.02128	4 X
K16PK8K	16.9	0.15	K2289	13.005	35.805	335.282	9.733	0.10225	3.11970	5 X
K16PP0L	17.0	0.15	K2289	6.954	39.835	331.050	10.037	0.14863	3.14467	5 X
K16PQ2W	17.7	0.15	K2289	347.523	179.149	218.014	15.081	0.27434	3.15963	4 X
K16PQ4P	17.0	0.15	K2289	34.343	339.602	354.824	10.147	0.07799	3.14591	5 X
K16PQ4W	16.8	0.15	K2289	336.856	37.178	18.718	12.093	0.12142	2.99240	8 X
K16PQ5O	17.6	0.15	K2289	317.278	244.638	186.437	8.898	0.15760	3.07833	8 X
K16PQ5Q	17.2	0.15	K2289	71.689	195.038	99.480	14.986	0.12362	3.05599	4 X
K16PQ5V	17.7	0.15	K2289	3.453	347.257	28.308	5.154	0.08679	3.05421	2 X
K16PQ5X	17.1	0.15	K2289	302.466	294.922	133.396	10.823	0.05537	3.16050	7 X
K16PQ6A	17.7	0.15	K2289	359.587	230.241	125.098	4.203	0.08200	3.10495	3 X
K16Q06P	16.9	0.15	K2289	17.633	51.533	303.481	9.036	0.25219	3.13037	7 X
K16Q17V	16.8	0.15	K2289	3.857	163.966	213.049	9.132	0.16992	3.10037	9 X
K16Q25L	17.6	0.15	K2289	23.485	86.185	261.076	8.456	0.23665	3.10959	3 X
K16Q28H	16.9	0.15	K2289	29.292	73.892	264.996	8.788	0.23390	3.14062	4 X
K16Q42T	16.5	0.15	K2289	38.789	42.217	288.606	8.013	0.16043	3.09733	7 X
K16Q42U	16.7	0.15	K2289	1.034	85.053	299.355	9.790	0.09542	3.06893	9 X
K16Q56F	17.5	0.15	K2289	18.589	155.972	197.925	12.885	0.08961	3.04017	6 X
K16Q60L	17.0	0.15	K2289	351.309	124.952	267.916	7.591	0.11672	3.05075	7 X
K16Q76F	16.7	0.15	K2289	41.150	55.203	266.126	8.873	0.22357	3.11622	5 X
K16Q78V	17.0	0.15	K2289	5.051	136.546	228.425	10.052	0.29886	3.16863	7 X
K16Q80P	17.5	0.15	K2289	22.438	69.443	275.677	12.758	0.35280	3.13482	2 X
K16Q81X	16.5	0.15	K2289	356.042	137.057	265.767	14.789	0.11284	3.05186	6 X
K16QB1E	16.9	0.15	K2289	288.497	165.656	302.046	5.702	0.05639	3.04952	8 X
K16QC8H	16.8	0.15	K2289	5.233	301.339	86.573	6.315	0.11959	3.09086	6 X
K16QD0G	17.4	0.15	K2289	57.209	3.592	315.924	11.243	0.14098	3.00491	5 X
K16QDON	16.8	0.15	K2289	10.326	120.229	259.505	7.552	0.08899	3.04297	8 X
K16QD1L	17.3	0.15	K2289	356.030	130.954	268.759	9.048	0.15803	3.05938	5 X
K16QE0J	17.0	0.15	K2289	4.405	64.425	320.052	9.173	0.05723	3.10325	5 X
K16QE5D	17.0	0.15	K2289	33.220	57.869	284.712	8.170	0.17302	3.06860	2 X
K16R22H	15.9	0.15	K2289	9.483	352.408	22.064	18.016	0.21254	3.11347	9 X
K16R38M	17.3	0.15	K2289	358.342	81.746	313.436	7.567	0.29300	3.17263	6 X
K16R38Q	16.5	0.15	K2289	344.545	120.355	292.781	7.933	0.08860	3.10172	9 X
K16R41T	16.8	0.15	K2289	22.680	19.831	328.664	7.294	0.17455	3.12717	6 X
K16R59B	17.6	0.15	K2289	337.478	88.859	328.279	11.242	0.29519	3.19574	3 X
K16R60X	16.6	0.15	K2289	67.364	340.821	334.307	10.531	0.13189	3.10864	4 X
K16R75V	17.3	0.15	K2289	332.517	104.473	322.698	10.522	0.19817	3.15012	4 X
K16R76Y	16.7	0.15	K2289	41.627	48.909	307.979	9.982	0.06995	3.06097	7 X
K16R79K	17.6	0.15	K2289	45.109	263.449	69.358	2.113	0.19548	3.09378	5 X
K16R88F	16.7	0.15	K2289	332.585	54.221	12.149	10.470	0.08498	3.06470	7 X
K16S05M	17.1	0.15	K2289	353.842	137.068	251.632	16.080	0.22070	3.19437	3 X
K16S05S	16.1	0.15	K2289	339.429	141.167	276.125	15.030	0.05550	3.10466	8 X
K16S05T	16.7	0.15	K2289	32.577	83.274	245.248	15.723	0.23217	3.19393	5 X
K16S06E	16.7	0.15	K2289	44.536	41.397	276.512	13.327	0.22901	3.15658	5 X
K16S06H	16.9	0.15	K2289	343.603	163.425	248.995	16.365	0.20372	3.15747	5 X
K16S07Q	16.5	0.15	K2289	345.632	127.193	283.639	9.335	0.13952	3.13824	10 X
K16S13D	16.9	0.15	K2289	19.190	72.550	279.032	8.581	0.25557	3.14426	6 X
K16S15N	16.4	0.15	K2289	22.793	350.649	0.136	14.370	0.19628	3.17725	5 X

K16S37V	16.8	0.15	K2289	344.659	65.528	348.510	9.607	0.28962	3.19262	7	X
K16S38Z	16.9	0.15	K2289	356.161	18.144	9.933	15.675	0.08714	3.17141	7	X
K16S45E	16.3	0.15	K2289	24.099	25.107	328.920	9.878	0.14631	3.14598	11	X
K16S48N	16.5	0.15	K2289	337.059	30.265	38.545	17.074	0.18162	3.21197	5	X
K16S76L	16.5	0.15	K2289	50.964	37.920	299.542	7.785	0.06922	3.10586	12	X
K16SA1Z	17.1	0.15	K2289	97.977	195.818	75.507	14.429	0.07475	3.16142	4	X
K16SA7Q	16.9	0.15	K2289	4.830	106.891	274.920	9.354	0.05786	3.15600	6	X
K16T03D	16.2	0.15	K2289	35.983	328.160	12.442	14.605	0.22112	3.18558	8	X
K16T12R	16.8	0.15	K2289	26.527	69.165	283.557	6.745	0.20628	3.18249	6	X
K16T22L	16.2	0.15	K2289	335.046	119.157	297.418	10.361	0.06931	3.13076	11	X
K16T32E	16.4	0.15	K2289	29.229	356.959	346.426	10.223	0.22481	3.14178	10	X
K16T35P	16.8	0.15	K2289	54.950	42.200	279.844	8.587	0.10859	3.16333	6	X
K16T40A	16.4	0.15	K2289	37.978	358.698	343.920	10.859	0.08138	3.17975	10	X
K16T60O	16.7	0.15	K2289	333.632	43.134	16.149	12.209	0.12491	3.21425	6	X
K16T61M	16.7	0.15	K2289	46.283	307.152	22.200	13.687	0.18701	3.17460	5	X
K16T67M	16.2	0.15	K2289	359.214	92.183	306.461	8.730	0.21222	3.19375	11	X
K16T77O	16.5	0.15	K2289	52.960	34.173	293.000	7.867	0.09759	3.18072	6	X
K16T85A	16.2	0.15	K2289	40.612	64.577	269.870	17.866	0.17199	3.20673	8	X
K16T89K	16.8	0.15	K2289	12.775	351.122	44.310	12.267	0.29173	3.16426	6	X
K16T97V	16.1	0.15	K2289	285.948	176.679	300.027	13.736	0.15324	3.20287	7	X
K16T99S	16.3	0.15	K2289	350.006	157.571	270.571	26.280	0.19066	3.09138	7	X
K16TA2C	16.4	0.15	K2289	329.139	187.205	267.478	13.973	0.10445	3.13934	5	X
K16TD3S	16.9	0.15	K2289	332.015	76.249	349.278	11.322	0.12012	3.22104	8	X
K16TI4Y	16.6	0.15	K2289	337.140	144.478	263.612	14.733	0.06613	3.20240	8	X
K16U08D	16.8	0.15	K2289	1.704	63.306	322.793	9.990	0.13217	3.17384	9	X
K16U28D	16.3	0.15	K2289	28.806	97.575	292.816	25.491	0.22946	3.04571	6	X
K16U28X	16.3	0.15	K2289	338.010	170.894	260.583	16.062	0.17778	3.15179	5	X
K16U32S	16.0	0.15	K2289	300.114	208.619	252.149	26.043	0.14232	3.20691	7	X
K16U44F	16.6	0.15	K2289	14.581	112.319	256.943	9.843	0.11618	3.18511	6	X
K16U44M	16.6	0.15	K2289	1.098	90.405	301.210	8.307	0.10201	3.16389	7	X
K16U47B	17.6	0.15	K2289	56.017	318.606	8.776	15.098	0.14572	3.18710	2	X
K16U53P	17.0	0.15	K2289	299.257	83.731	36.102	26.161	0.21629	3.23162	3	X
K16U66M	16.7	0.15	K2289	9.508	335.756	72.000	11.672	0.20850	3.13398	8	X
K16UA2F	16.3	0.15	K2289	302.083	80.300	43.130	26.128	0.20117	3.11494	7	X
K16UC4P	16.9	0.15	K2289	34.819	311.362	39.791	8.536	0.09541	3.22959	7	X
K16UE2H	16.8	0.15	K2289	28.967	76.887	248.780	24.616	0.30209	3.15024	4	X
K16V18U	16.6	0.15	K2289	10.145	50.329	357.140	9.587	0.21886	3.12505	8	X
K16V21Z	16.2	0.15	K2289	281.811	249.750	257.719	24.263	0.25335	3.20361	5	X
K16X06N	16.1	0.15	K2289	43.428	83.084	258.532	22.927	0.23192	3.24487	5	X
K16Y11W	16.2	0.15	K2289	306.779	281.761	273.899	15.115	0.18801	3.10253	8	X
K16Y12E	17.6	0.15	K2289	178.431	279.258	281.484	7.781	0.04479	2.19350	10	X
K17B51F	18.9	0.15	K2289	322.972	111.107	316.250	3.112	0.11223	2.14889	4	X
K17BI6B	18.7	0.15	K2289	311.344	275.110	138.093	7.706	0.12557	2.24027	5	X
K17C12P	17.8	0.15	K2289	292.866	152.395	305.210	5.036	0.06021	2.26635	11	X
K17D27D	18.4	0.15	K2289	82.917	5.403	280.820	5.644	0.08778	2.26430	8	X
K17D79D	18.7	0.15	K2289	249.770	184.589	320.574	4.239	0.13508	2.19940	8	X
K17D84G	17.9	0.15	K2289	179.980	209.882	354.921	6.890	0.16179	2.26981	10	X
K17DB3Y	17.6	0.15	K2289	219.849	153.115	27.974	26.944	0.16073	2.24757	5	X
K17E09G	18.2	0.15	K2289	209.688	282.649	256.800	1.900	0.09835	2.23355	10	X
K17E31O	19.2	0.15	K2289	252.236	358.192	146.032	4.203	0.07755	2.22641	5	X
K17F08Z	18.1	0.15	K2289	293.438	155.592	303.268	5.253	0.10262	2.23227	10	X
K17F38A	17.7	0.15	K2289	130.232	321.175	300.615	6.703	0.04486	2.25018	10	X
K17F71U	18.4	0.15	K2289	304.273	119.917	321.997	4.476	0.12392	2.19722	8	X
K17G11T	18.0	0.15	K2289	98.393	112.598	141.807	3.090	0.17249	2.53946	5	X
K17K16O	17.9	0.15	K2289	30.002	67.110	259.989	4.619	0.22793	2.55931	7	X
K17K45X	17.4	0.15	K2289	12.980	108.832	235.527	26.550	0.27615	2.64248	5	X
K17M05J	17.3	0.15	K2289	13.524	88.086	279.645	11.668	0.23537	2.68649	4	X
K17M19A	17.7	0.15	K2289	15.732	61.522	288.859	7.821	0.20043	2.70317	4	X
K17M32K	17.4	0.15	K2289	338.009	90.328	290.512	8.325	0.16288	2.73012	2	X
K17N12B	17.6	0.15	K2289	2.016	98.446	276.894	7.013	0.17109	2.70423	5	X
K17N12W	18.0	0.15	K2289	29.008	51.987	300.908	7.455	0.17985	2.64477	9	X
K17O07K	17.8	0.15	K2289	36.625	53.945	254.549	5.538	0.37070	2.75254	6	X
K17O26K	17.0	0.15	K2289	357.807	125.113	235.122	6.475	0.31993	2.84549	8	V
K17O42J	17.5	0.15	K2289	345.087	117.400	291.350	7.964	0.24469	2.75457	4	X
K17O44E	17.7	0.15	K2289	26.704	41.543	302.410	10.091	0.18021	2.76219	4	X
K17O72R	17.6	0.15	K2289	347.955	356.156	43.677	6.383	0.14470	2.85627	7	X
K17O84U	17.3	0.15	K2289	54.826	343.455	322.335	8.201	0.21927	2.76301	5	X
K17OE0W	18.1	0.15	K2289	320.765	140.572	303.411	7.604	0.28942	2.68610	4	X
K17OF2Z	18.6	0.15	K2289	334.759	130.092	284.263	4.635	0.30411	2.74769	3	X
K17OF4R	18.2	0.15	K2289	351.924	56.909	325.905	12.836	0.17957	2.72745	2	X
K17P08Z	18.1	0.15	K2289	6.946	21.547	337.614	5.550	0.05789	2.78969	4	X
K17P13S	17.5	0.15	K2289	320.588	276.206	151.595	13.679	0.19961	2.78453	4	X
K17P14K	18.0	0.15	K2289	356.238	36.588	345.477	8.489	0.26451	2.80390	4	X
K17P14P	17.6	0.15	K2289	15.768	9.726	339.718	9.924	0.27174	2.80119	4	X
K17P25W	18.8	0.15	K2289	348.275	339.199	46.771	8.022	0.49624	2.95076	3	X
K17P27R	16.8	0.15	K2289	19.918	340.619	29.653	5.536	0.17426	2.70514	13	X
K17P42Q	17.4	0.15	K2289	7.424	9.964	29.335	10.717	0.20609	2.80277	5	X
K17P77C	18.0	0.15	K2289	291.314	35.119	51.734	4.851	0.07758	2.79108	4	X
K17P77F	18.0	0.15	K2289	20.299	117.582	230.977	2.642	0.10931	2.76291	4	X
K17P77H	18.1	0.15	K2289	0.636	231.952	125.632	4.493	0.10904	2.79495	4	X
K17Q25K	17.6	0.15	K2289	15.255	71.497	274.908	7.174	0.25276	2.79834	7	X
K17Q27Q	17.6	0.15	K2289	18.430	58.614	286.986	7.884	0.22365	2.75970	5	X
K17Q32Q	19.9	0.15	K2289	356.211	322.540	44.336	8.933	0.30447	1.81836	4	V
K17Q33L	21.3	0.15	K2289	314.528	71.240	357.848	1.719	0.48014	1.83795	3	V
K17Q41R	16.9	0.15	K2289	353.305	110.835	314.948	12.764	0.14292	2.62000	9	X
K17Q53B	18.6	0.15	K2289	359.527	47.780	329.397	7.005	0.23758	2.77534	3	X
K17Q53Q	17.3	0.15	K2289	246.989	162.265	0.671	4.639	0.11291	2.52086	10	X
K17Q65G	17.2	0.15	K2289	76.352	68.571	232.284	4.941	0.08888	2.67994	9	X
K17Q87B	18.0	0.15	K2289	10.030	247.726	103.982	2.990	0.10051	2.86982	2	X
K17Q88O	18.1	0.15	K2289	340.176	135.208	284.736	6.437	0.25981	2.66231	4	X
K17QA7O	17.5	0.15	K2289	3.655	356.990	41.109	8.559	0.23258	2.72909	5	X
K17QC3Z	17.9	0.15	K2289	28.648	336.741	4.143	3.284	0.19067	2.81138	6	X
K17QE3Z	17.4	0.15	K2289	299.578	129.410	325.025	12.652	0.16650	2.67583	7	X

K17QG1B	18.1	0.15	K2289	3.924	327.470	44.871	2.671	0.07494	2.82896	3 X
K17R19R	17.3	0.15	K2289	9.236	79.924	286.916	8.843	0.14796	2.79168	7 X
K17R20R	17.6	0.15	K2289	356.054	67.518	323.127	9.031	0.14795	2.77380	5 X
K17R79C	18.0	0.15	K2289	4.773	5.434	15.194	9.898	0.26327	2.78301	5 X
K17R93K	16.9	0.15	K2289	342.659	48.106	9.056	9.227	0.16404	2.77201	9 X
K17RA4B	16.6	0.15	K2289	40.760	56.610	275.770	8.314	0.08859	2.78872	9 X
K17R8BL	17.8	0.15	K2289	354.023	22.408	7.489	5.944	0.08593	2.75486	6 X
K17RC3F	17.2	0.15	K2289	343.166	10.608	10.393	15.679	0.14846	2.84188	5 X
K17RE0H	18.0	0.15	K2289	34.725	66.304	246.025	13.411	0.35110	2.79337	6 X
K17RE0O	17.5	0.15	K2289	55.098	40.098	262.314	12.992	0.26370	2.69541	5 X
K17RF4Z	18.2	0.15	K2289	28.821	303.869	29.016	13.436	0.20371	2.79535	3 X
K17S35E	18.0	0.15	K2289	28.058	201.980	156.177	4.567	0.11230	2.81791	5 X
K17S47H	17.6	0.15	K2289	18.794	50.814	299.677	7.560	0.17857	2.79676	6 X
K17S56Y	17.0	0.15	K2289	53.922	228.384	59.340	7.890	0.28154	2.86135	6 X
K17S76A	17.7	0.15	K2289	358.110	46.508	337.927	4.504	0.13170	2.78160	8 X
K17S77A	17.7	0.15	K2289	72.015	251.170	56.470	7.406	0.06959	2.75220	3 X
K17S87W	17.7	0.15	K2289	322.896	334.028	100.116	5.696	0.04220	2.77913	6 X
K17S90J	17.7	0.15	K2289	34.500	230.932	112.183	2.941	0.09099	2.77053	2 X
K17S95C	17.6	0.15	K2289	355.978	13.551	13.918	14.587	0.20653	2.80997	5 X
K17SA1W	17.6	0.15	K2289	359.816	16.026	3.177	4.551	0.12001	2.81396	6 X
K17SB8H	16.5	0.15	K2289	34.993	1.724	333.809	7.620	0.18343	2.77811	13 X
K17SG5M	19.6	0.15	K2289	172.976	166.884	31.744	19.922	0.05115	1.81650	5 X
K17SH2S	17.4	0.15	K2289	25.570	159.560	173.357	4.046	0.12248	2.97375	5 X
K17SJ7U	18.1	0.15	K2289	335.734	316.545	105.112	3.259	0.06779	2.79252	3 X
K17SM7B	17.4	0.15	K2289	326.931	356.955	77.227	9.006	0.18837	2.77747	6 X
K17SM8Z	18.1	0.15	K2289	359.269	7.288	24.474	5.428	0.14950	2.83952	4 X
K17SO0O	17.8	0.15	K2289	332.025	185.797	252.703	17.833	0.26187	2.77543	4 X
K17SO4W	17.5	0.15	K2289	45.616	282.541	27.275	14.532	0.17261	2.83991	3 X
K17SX9K	17.7	0.15	K2289	91.698	49.740	229.714	2.613	0.03695	2.80045	7 X
K17SX9M	18.2	0.15	K2289	339.597	299.759	106.327	0.538	0.07308	2.76437	5 X
K17SX9T	17.7	0.15	K2289	307.744	278.005	169.167	15.023	0.12020	2.88368	3 X
K17SY0A	17.8	0.15	K2289	274.443	22.319	70.586	3.126	0.02120	2.86010	4 X
K17T12T	17.2	0.15	K2289	26.156	78.478	265.641	13.767	0.17326	2.83588	7 X
K17T13Q	18.1	0.15	K2289	358.169	87.052	330.451	7.383	0.20683	2.74174	5 X
K17T29C	17.6	0.15	K2289	9.030	116.170	259.458	9.457	0.15001	2.85891	5 X
K17T49O	17.7	0.15	K2289	312.702	123.696	288.352	9.739	0.10790	2.97290	5 X
K17U12B	17.8	0.15	K2289	12.634	314.744	40.056	15.747	0.15667	2.87485	2 X
K17U22C	17.8	0.15	K2289	353.001	347.706	44.843	5.568	0.16317	2.81598	7 X
K17U26P	17.8	0.15	K2289	78.184	161.498	136.560	3.495	0.17398	2.75978	6 X
K17U35S	16.5	0.15	K2289	62.642	49.490	261.043	14.456	0.13727	2.74111	7 X
K17U51H	19.2	0.15	K2289	259.779	250.485	229.967	20.659	0.09530	1.82509	3 X
K17U53D	17.1	0.15	K2289	241.321	280.777	225.357	12.459	0.22501	3.19820	3 X
K17U64K	17.9	0.15	K2289	6.109	32.467	20.801	9.730	0.22302	2.78480	4 X
K17U66D	17.0	0.15	K2289	317.101	206.417	231.863	9.552	0.07755	3.00605	6 X
K17U74Q	17.4	0.15	K2289	346.594	58.255	344.256	6.221	0.25565	3.09362	4 X
K17U82M	16.8	0.15	K2289	359.873	19.370	5.078	8.520	0.13357	2.94707	6 X
K17U94F	16.7	0.15	K2289	270.794	76.055	49.409	10.855	0.08539	3.00508	8 X
K17UA2X	17.2	0.15	K2289	24.825	350.159	0.841	9.930	0.10909	2.93632	7 X
K17UA5X	16.9	0.15	K2289	36.840	348.030	340.272	6.151	0.23409	2.93172	5 X
K17UA7H	17.5	0.15	K2289	274.037	46.531	82.105	11.526	0.04724	2.86101	5 X
K17UD4F	18.0	0.15	K2289	351.546	164.251	227.099	26.775	0.21040	2.89203	3 X
K17UE3G	19.5	0.15	K2289	290.297	309.157	112.025	24.652	0.09784	1.90135	3 V
K17UE7K	17.5	0.15	K2289	26.972	102.021	234.204	13.305	0.20966	3.03248	4 X
K17UK0B	17.9	0.15	K2289	303.427	254.182	173.907	9.783	0.07477	3.06962	2 X
K17V21V	17.2	0.15	K2289	21.777	347.486	35.656	8.379	0.29105	2.76740	6 X
K17V31R	17.4	0.15	K2289	342.528	15.683	41.783	15.239	0.22005	2.85384	3 X
K17V36N	18.2	0.15	K2289	313.473	57.724	17.183	13.376	0.28455	3.18875	2 X
K17V39J	17.4	0.15	K2289	352.438	139.520	253.538	16.132	0.22172	2.99809	3 X
K17V41G	17.0	0.15	K2289	307.626	65.544	25.262	16.517	0.09765	3.21498	7 X
K17V41T	17.0	0.15	K2289	354.624	136.804	260.593	9.430	0.15735	2.98054	8 X
K17V42E	18.6	0.15	K2289	41.140	79.578	242.180	20.203	0.05230	1.87475	7 X
K17V50T	17.2	0.15	K2289	345.715	315.415	84.324	2.164	0.10345	3.04730	8 X
K17V67E	17.9	0.15	K2289	215.892	145.375	22.244	4.540	0.02580	2.98166	6 X
K17V67G	17.8	0.15	K2289	329.170	36.654	27.682	20.055	0.13922	2.92644	3 V
K17W12N	15.4	0.15	K2289	283.138	86.699	70.740	27.412	0.02045	3.15225	10 X
K17W14P	15.6	0.15	K2289	311.989	68.452	50.548	27.154	0.23349	3.17702	8 X
K17W15Z	16.0	0.15	K2289	30.668	292.217	65.763	25.647	0.37445	2.91735	7 X
K17W17M	17.7	0.15	K2289	4.016	343.985	58.015	8.196	0.29567	2.85884	3 X
K17W17T	16.8	0.15	K2289	350.583	147.559	243.366	14.332	0.26062	2.96984	4 X
K17W24C	16.9	0.15	K2289	9.082	113.570	253.398	9.498	0.17158	2.88190	5 X
K17W33C	19.3	0.15	K2289	275.838	217.261	245.819	16.368	0.12023	1.86616	4 X
K17W36P	17.1	0.15	K2289	334.634	148.115	272.442	13.451	0.18343	3.13520	2 X
K17W40V	16.7	0.15	K2289	265.787	175.308	321.540	8.324	0.05961	2.97740	7 X
K17W49A	17.0	0.15	K2289	309.445	163.925	290.644	9.160	0.22071	3.17445	5 X
K17W86T	17.3	0.15	K2289	220.039	120.656	63.212	9.369	0.01919	2.94895	5 X
K17W92T	17.2	0.15	K2289	359.289	92.946	290.341	11.690	0.19604	2.96251	2 X
K17W93H	18.1	0.15	K2289	318.945	346.802	74.466	2.187	0.17023	3.08649	3 X
K17W94G	17.6	0.15	K2289	344.810	98.981	300.042	7.930	0.23238	3.00454	3 X
K17W94X	17.6	0.15	K2289	305.560	267.295	174.714	11.838	0.14649	3.07261	3 X
K17W95C	17.6	0.15	K2289	348.617	270.481	114.805	11.737	0.10866	3.07435	3 X
K17X15S	17.4	0.15	K2289	230.415	91.564	56.569	9.730	0.01913	3.04312	6 X
K17X37Y	17.1	0.15	K2289	287.844	193.168	278.843	5.759	0.11444	2.98720	7 X
K17X40B	17.6	0.15	K2289	13.822	311.522	45.587	5.902	0.24202	2.97235	4 V
K17X68V	18.7	0.15	K2289	13.283	102.840	253.951	19.661	0.04050	1.86815	3 X
K17X78Y	17.0	0.15	K2289	357.678	123.058	263.834	10.605	0.10059	3.04513	5 X
K17X91R	17.8	0.15	K2289	343.515	54.221	355.753	9.428	0.22584	3.11415	5 X
K17X94F	17.1	0.15	K2289	15.614	100.722	257.776	8.688	0.09571	3.09722	8 X
K17Y15C	15.9	0.15	K2289	282.038	238.518	245.028	25.234	0.14232	3.10747	6 X
K17Y15Z	16.7	0.15	K2289	295.269	136.333	326.876	9.909	0.08858	3.23777	5 X
K17Y28B	16.5	0.15	K2289	318.663	199.790	233.670	26.422	0.11908	3.10879	6 X
K17Y37R	17.5	0.15	K2289	298.789	49.161	75.952	14.501	0.24255	3.15659	4 X
K17Y64G	17.7	0.15	K2289	1.695	169.089	204.185	12.454	0.24128	3.01611	3 X
K18A00E	19.1	0.15	K2289	20.253	295.181	67.355	23.564	0.18699	1.85782	4 X
K18A16N	16.3	0.15	K2289	334.585	135.800	277.467	15.700	0.24582	3.06278	6 X

K18A27E	17.5	0.15	K2289	280.897	331.424	167.094	1.373	0.13134	3.11504	7 X
K18B02P	18.3	0.15	K2289	244.086	234.800	301.435	16.391	0.09278	1.86165	6 X
K18B08X	16.5	0.15	K2289	335.918	143.832	278.980	10.637	0.05502	3.22739	5 X
K18B18E	18.7	0.15	K2289	304.199	48.925	25.952	20.652	0.07134	1.94341	6 X
K18B32Q	17.2	0.15	K2289	324.223	70.575	3.887	15.494	0.23495	3.17906	5 X
K18C10J	16.2	0.15	K2289	304.550	63.181	44.909	13.934	0.24535	3.21783	8 X
K18C10V	15.7	0.15	K2289	344.743	114.752	342.069	10.402	0.03710	3.10349	14 X
K18C16C	16.1	0.15	K2289	262.101	163.019	354.754	10.020	0.10875	3.21884	11 X
K18C26Y	16.9	0.15	K2289	296.241	79.443	40.084	25.996	0.21928	3.14971	5 X
K18L15W	17.3	0.15	K2289	7.304	90.078	254.572	6.118	0.44310	2.55667	6 V
K18L19H	16.5	0.15	K2289	3.916	16.066	351.336	13.214	0.18849	2.56017	7 X
K18L33G	18.5	0.15	K2289	31.206	342.456	340.222	4.930	0.23004	2.37571	5 X
K18M19B	19.1	0.15	K2289	35.076	171.602	140.716	2.218	0.19500	2.38429	4 X
K18N02C	18.9	0.15	K2289	14.173	275.634	53.365	6.813	0.38484	2.42545	4 X
K18N09E	19.1	0.15	K2289	17.796	305.698	63.026	7.008	0.21560	2.26494	4 X
K18N16V	18.3	0.15	K2289	31.611	17.482	319.081	9.958	0.17090	2.37519	5 X
K18N51T	19.2	0.15	K2289	5.642	335.889	14.701	2.427	0.14418	2.34921	6 X
K18P06V	18.6	0.15	K2289	327.187	90.157	329.574	5.170	0.18519	2.32577	6 X
K18P97E	19.1	0.15	K2289	343.381	59.997	333.919	6.666	0.19944	2.36839	4 X
K18P97Q	19.6	0.15	K2289	357.302	110.700	246.652	4.435	0.16868	2.40713	2 X
K18P98E	19.2	0.15	K2289	325.825	34.999	15.969	5.272	0.13963	2.34452	3 X
K18P98J	19.0	0.15	K2289	16.744	217.142	126.477	3.431	0.18344	2.39843	4 X
K18Q04W	17.9	0.15	K2289	31.367	83.141	240.885	20.551	0.21947	2.40441	5 X
K18R15A	18.5	0.15	K2289	18.444	58.669	288.638	4.044	0.24190	2.40673	6 X
K18R28E	18.1	0.15	K2289	12.507	111.774	244.401	22.612	0.28666	2.40343	4 X
K18R38R	17.7	0.15	K2289	330.294	28.861	32.075	8.694	0.26800	2.54670	6 X
K18R40D	18.4	0.15	K2289	356.611	309.737	54.493	6.449	0.29438	2.56649	3 X
K18R50S	17.3	0.15	K2289	8.327	149.462	213.323	5.605	0.17321	2.56567	5 X
K18R72F	18.5	0.15	K2289	335.032	19.396	31.107	10.454	0.14026	2.40307	4 X
K18S05K	18.0	0.15	K2289	48.684	242.391	67.575	11.250	0.26126	2.38592	7 X
K18S17U	18.5	0.15	K2289	348.027	327.889	58.064	0.197	0.20408	2.44806	4 X
K18T40E	18.4	0.15	K2289	355.197	96.797	295.679	5.998	0.16931	2.45454	5 X
K18U01U	18.9	0.15	K2289	345.681	122.066	239.332	29.292	0.39913	2.57554	3 X
K18U01X	24.1	0.15	K2289	323.610	150.323	215.009	20.179	0.11155	1.21239	2 V
K18U04T	17.6	0.15	K2289	4.273	110.042	290.861	11.450	0.19321	2.41274	6 X
K18U06S	17.9	0.15	K2289	333.327	11.861	42.097	6.776	0.29024	2.48895	7 X
K18U13K	18.0	0.15	K2289	329.511	28.209	60.939	14.840	0.32920	2.44664	6 X
K18U14R	17.6	0.15	K2289	356.864	23.520	348.641	6.859	0.25040	2.53881	7 X
K18U17U	17.4	0.15	K2289	351.855	344.911	77.824	24.188	0.20850	2.37518	6 X
K18U20S	18.4	0.15	K2289	343.900	357.971	26.896	4.118	0.19909	2.58339	2 X
K18U31H	17.9	0.15	K2289	347.188	55.832	330.656	11.031	0.21051	2.55294	3 X
K18U34G	18.5	0.15	K2289	6.911	301.494	40.964	15.163	0.20056	2.57002	2 X
K18U38G	17.5	0.15	K2289	298.143	103.907	3.637	13.052	0.23863	2.54566	6 X
K18U45J	18.8	0.15	K2289	4.690	141.871	216.151	15.408	0.18527	2.52767	3 X
K18U45P	18.2	0.15	K2289	351.949	315.403	50.889	5.831	0.03477	2.62262	5 X
K18V08O	17.4	0.15	K2289	3.449	330.515	58.391	34.126	0.21131	2.60591	3 X
K18V29V	17.0	0.15	K2289	28.084	48.343	310.624	4.198	0.19706	2.52277	9 X
K18V51O	18.6	0.15	K2289	3.263	342.891	20.808	6.679	0.11925	2.56615	3 X
K18V72V	17.9	0.15	K2289	323.680	203.464	218.508	1.456	0.07705	2.56532	7 X
K18V73U	17.0	0.15	K2289	39.649	328.041	6.398	4.331	0.11601	2.54807	8 X
K18V84U	19.0	0.15	K2289	359.694	10.131	357.270	5.936	0.31831	2.52788	4 X
K18VA1U	19.5	0.15	K2289	328.645	154.834	251.435	3.356	0.22931	2.55769	2 X
K18VB1U	18.0	0.15	K2289	11.715	137.370	228.214	14.009	0.12672	2.53957	5 X
K18VB2S	17.3	0.15	K2289	335.136	157.063	249.498	13.942	0.20094	2.58683	4 X
K18VB7D	17.6	0.15	K2289	353.978	137.382	247.789	21.189	0.04443	2.62093	5 X
K18VB8C	19.0	0.15	K2289	337.308	351.451	54.006	19.019	0.33056	2.54331	2 V
K18VB8F	18.6	0.15	K2289	349.135	147.120	236.570	12.501	0.27416	2.54969	3 X
K18VC2R	17.6	0.15	K2289	353.760	151.402	234.614	9.373	0.12963	2.59405	7 X
K18VC4V	17.8	0.15	K2289	352.382	352.148	34.469	14.368	0.15366	2.55790	5 X
K18VC5E	17.5	0.15	K2289	359.022	114.002	262.009	14.000	0.13674	2.59817	5 X
K18VC6R	17.7	0.15	K2289	262.984	120.703	11.625	10.797	0.07106	2.56949	5 X
K18VC7B	18.9	0.15	K2289	355.973	322.055	50.207	14.583	0.26143	2.55220	3 X
K18VC7N	18.0	0.15	K2289	15.964	108.906	244.553	27.718	0.21273	2.55133	5 X
K18VC9F	18.1	0.15	K2289	349.661	336.711	62.389	15.239	0.09955	2.55597	3 X
K18VE5P	17.6	0.15	K2289	354.524	358.486	20.586	12.368	0.19378	2.56995	5 X
K18VF2N	17.9	0.15	K2289	34.638	351.063	337.450	8.557	0.17104	2.56999	5 X
K18VF4D	18.0	0.15	K2289	327.112	342.448	84.145	7.746	0.09511	2.46469	5 X
K18VF4R	17.2	0.15	K2289	3.042	356.652	15.516	18.349	0.19057	2.65170	8 X
K18VF7G	18.4	0.15	K2289	7.726	1.548	355.956	3.426	0.23877	2.56449	3 X
K18VG5R	18.6	0.15	K2289	4.136	79.431	276.072	4.212	0.23014	2.56619	3 X
K18VG9V	19.2	0.15	K2289	340.775	162.885	239.847	12.420	0.17293	2.56752	2 X
K18VH0C	19.0	0.15	K2289	350.180	344.158	23.455	17.507	0.15893	2.57146	2 X
K18VH0D	18.5	0.15	K2289	339.043	73.839	333.213	6.746	0.26146	2.54238	2 V
K18W03R	18.4	0.15	K2289	345.173	144.035	245.108	13.418	0.30546	2.55401	5 X
K18W07K	18.8	0.15	K2289	354.248	22.597	353.973	1.429	0.26641	2.56780	4 V
K18W09H	17.6	0.15	K2289	5.906	130.971	234.620	12.734	0.19953	2.59604	7 X
K18W12V	18.0	0.15	K2289	345.188	348.123	43.496	36.405	0.26383	2.57397	3 V
K18W13T	18.3	0.15	K2289	6.543	318.133	41.903	8.833	0.23749	2.56625	2 X
K18W13W	18.9	0.15	K2289	356.157	318.503	54.055	4.932	0.26429	2.57122	2 X
K18W14A	18.5	0.15	K2289	348.444	153.189	232.437	13.233	0.26710	2.58650	2 V
K18X00M	18.6	0.15	K2289	346.658	144.025	269.538	34.057	0.34598	2.54849	2 V
K18X05V	17.7	0.15	K2289	2.413	161.216	154.894	11.231	0.63383	2.58629	7 V
K18X08E	17.3	0.15	K2289	307.755	228.710	218.058	12.330	0.16000	2.59927	7 X
K18X08X	17.5	0.15	K2289	318.499	211.959	220.546	12.181	0.16495	2.59478	6 X
K18X11K	18.0	0.15	K2289	1.503	116.445	258.341	13.381	0.19161	2.56939	4 X
K18X11Z	17.8	0.15	K2289	13.717	88.608	251.570	11.552	0.30858	2.60562	5 X
K18X14W	18.1	0.15	K2289	320.042	30.567	41.965	3.921	0.17376	2.56435	7 X
K18X15L	18.0	0.15	K2289	325.368	357.935	74.422	6.387	0.20785	2.54235	7 X
K18X19J	17.7	0.15	K2289	313.393	34.046	48.044	7.950	0.20298	2.64639	7 X
K18X24E	18.4	0.15	K2289	349.528	125.661	261.461	13.199	0.27668	2.56639	3 X
K18X39Q	18.0	0.15	K2289	340.186	155.690	252.141	13.898	0.24310	2.67774	4 X
K18X39X	18.3	0.15	K2289	311.767	78.097	345.754	13.274	0.14388	2.62211	3 X
K18X39Y	18.5	0.15	K2289	339.730	323.343	78.577	14.472	0.25313	2.68208	3 X
K18X39Z	18.8	0.15	K2289	334.836	171.302	242.844	5.217	0.24020	2.56461	4 X

K18X40A	18.0	0.15	K2289	350.749	104.305	280.814	10.118	0.20467	2.68375	3	V
K18Y18D	18.1	0.15	K2289	337.779	110.974	292.223	11.264	0.16093	2.70626	3	X
K18Y18V	18.4	0.15	K2289	307.687	339.657	113.741	10.820	0.34568	2.75525	3	X
K19A06K	18.9	0.15	K2289	329.180	207.481	203.405	35.736	0.31355	2.55458	3	X
K19A15Q	17.3	0.15	K2289	335.525	128.296	287.429	12.066	0.16909	2.63388	7	X
K19A22K	17.8	0.15	K2289	329.112	197.035	222.169	12.868	0.13253	2.58907	5	X
K19A26J	16.2	0.15	K2289	128.666	227.838	77.377	26.372	0.02455	2.63098	11	X
K19A32U	17.9	0.15	K2289	284.814	117.551	15.294	12.028	0.24201	2.64504	3	X
K19A34U	18.4	0.15	K2289	14.756	248.968	113.756	4.390	0.20693	2.74112	4	X
K19A36H	17.6	0.15	K2289	348.679	125.008	269.583	1.785	0.17834	2.72734	8	X
K19A46X	17.8	0.15	K2289	343.439	88.450	313.893	7.588	0.11935	2.75136	6	X
K19A57T	18.2	0.15	K2289	318.825	132.404	304.942	8.306	0.17406	2.71570	5	X
K19A57V	18.3	0.15	K2289	330.540	95.899	329.575	7.452	0.25899	2.70121	5	X
K19A65C	18.2	0.15	K2289	351.373	25.785	44.917	12.395	0.16935	2.56814	4	X
K19A67M	17.3	0.15	K2289	179.263	251.502	311.513	8.886	0.02541	3.02233	5	X
K19A78L	17.9	0.15	K2289	290.651	103.434	2.495	6.388	0.08140	2.77945	3	X
K19A83F	17.9	0.15	K2289	317.646	275.543	157.649	2.453	0.03723	2.85624	7	X
K19A95V	19.2	0.15	K2289	315.299	67.167	310.379	20.841	0.13305	1.74372	5	X
K19A99F	17.0	0.15	K2289	280.387	175.496	302.636	9.207	0.05746	3.00970	7	X
K19A99V	17.6	0.15	K2289	214.221	348.227	168.215	3.882	0.05497	3.04172	6	X
K19AB20	17.6	0.15	K2289	33.740	232.789	96.796	3.634	0.09801	2.96690	2	X
K19AB2R	19.2	0.15	K2289	344.692	101.365	288.422	10.127	0.31283	2.64397	2	X
K19AB3P	18.5	0.15	K2289	304.209	136.227	298.870	7.452	0.18558	2.77125	2	X
K19AB4Q	18.5	0.15	K2289	307.139	6.155	78.827	3.510	0.16674	2.80885	5	X
K19B05O	17.8	0.15	K2289	308.901	81.805	27.323	13.635	0.24945	2.65563	5	X
K19B06X	17.4	0.15	K2289	328.452	25.952	38.904	16.723	0.24225	2.68084	6	X
K19C18M	17.6	0.15	K2289	273.029	170.995	300.308	2.976	0.06517	2.98369	9	X
K19E02J	17.3	0.15	K2289	296.168	79.177	52.356	15.107	0.25023	2.73023	7	X
K19G17U	17.2	0.15	K2289	285.904	169.578	317.391	5.688	0.17757	2.94350	6	X
K19J27X	16.7	0.15	K2289	328.570	247.318	189.656	5.751	0.10598	3.40185	6	X
K19L00H	13.3	0.15	K2289	36.630	114.400	264.611	30.348	0.01504	5.19165	8	X
K19N51L	14.5	0.15	K2289	330.338	171.061	260.522	13.237	0.05466	5.23744	6	X
K19P03G	17.3	0.15	K2289	40.393	253.398	42.321	37.990	0.40784	2.11193	8	V
K19Q05H	18.2	0.15	K2289	326.536	166.925	259.575	19.910	0.07378	1.88227	5	X
K19S02K	18.4	0.15	K2289	224.828	285.316	232.450	18.525	0.08590	1.95747	7	X
K19T04W	18.8	0.15	K2289	216.201	135.204	35.119	21.713	0.04537	1.92955	5	X
K19T35X	18.4	0.15	K2289	69.167	258.776	49.258	21.512	0.10858	1.96383	6	X
K19U14G	20.3	0.15	K2289	306.420	229.937	214.658	20.359	0.33255	2.11435	2	X
K19U65Q	20.1	0.15	K2289	294.304	7.308	55.660	1.082	0.15966	2.15868	3	X
K19V11F	19.6	0.15	K2289	315.238	134.826	281.515	1.253	0.12313	2.15788	3	X
K19V29R	18.9	0.15	K2289	32.705	290.889	32.442	3.150	0.16716	2.14289	8	X
K19Y07X	18.8	0.15	K2289	304.543	85.762	356.831	8.029	0.09522	2.27298	7	X
K20A11S	18.9	0.15	K2289	284.683	122.546	333.334	2.370	0.17375	2.38373	4	X
K20A24W	19.5	0.15	K2289	335.256	52.583	350.973	7.306	0.15096	2.19206	2	X
K20G11L	17.1	0.15	K2289	159.572	302.819	281.701	7.651	0.17560	2.70440	6	X
K20H40F	18.4	0.15	K2289	242.783	168.711	340.819	3.315	0.15089	2.57565	7	X
K20H55Y	17.1	0.15	K2289	132.045	212.270	30.846	11.072	0.06771	3.07276	5	X
K20HB3N	18.5	0.15	K2289	295.161	255.508	208.745	10.554	0.07051	2.56221	5	X
K20HG3A	17.7	0.15	K2289	190.376	35.237	149.308	5.623	0.01578	3.05138	3	X
K20HG3H	18.0	0.15	K2289	296.212	72.879	31.963	33.125	0.17285	2.57086	3	X
K20HG3R	18.4	0.15	K2289	286.044	27.855	67.353	4.043	0.05855	2.66880	4	X
K20HG3V	17.2	0.15	K2289	96.918	46.567	232.031	9.544	0.06348	3.18915	6	X
K20HG3W	17.6	0.15	K2289	232.081	114.167	34.243	6.611	0.02683	2.87187	6	X
K20HG3X	17.4	0.15	K2289	54.408	196.575	114.476	12.359	0.08625	3.11466	6	X
K20J05X	17.0	0.15	K2289	32.991	329.174	62.562	22.628	0.04813	2.62928	5	X
K20J27H	16.7	0.15	K2289	351.021	156.552	242.657	14.939	0.13775	3.10369	6	X
K20K46R	17.7	0.15	K2289	36.481	154.760	208.063	10.746	0.02226	3.11601	5	X
K20P76E	15.0	0.15	K2289	31.268	181.840	192.757	7.014	0.06681	5.17586	5	X
K20Q84Y	14.8	0.15	K2289	39.690	277.789	89.278	8.793	0.04132	5.20039	8	X
K20Q88X	14.9	0.15	K2289	326.164	346.746	105.138	8.623	0.12260	5.17236	5	X
K20RB7P	14.5	0.15	K2289	324.710	84.131	2.508	20.017	0.10038	5.16665	6	X
K20S07J	20.1	0.15	K2289	7.228	6.663	242.623	11.987	0.74607	1.61211	7	V
K21E22Z	17.1	0.15	K2289	63.097	261.570	31.812	29.240	0.31087	2.58932	5	X
K21G32Q	19.4	0.15	K2289	20.331	289.365	45.332	5.708	0.08944	2.26645	3	X
K21G46A	17.7	0.15	K2289	23.852	300.770	38.779	27.735	0.30093	2.54131	5	X
K21G86U	18.1	0.15	K2289	50.495	211.559	97.689	6.499	0.29127	2.61061	3	X
K21G92J	19.2	0.15	K2289	301.672	33.834	43.770	21.957	0.08281	1.93535	4	X
K21GD4S	19.5	0.15	K2289	107.998	268.249	338.515	5.913	0.18919	2.30667	3	X
K21GG6X	18.3	0.15	K2289	45.414	356.150	323.446	7.836	0.18771	2.30021	5	X
K21GH0V	18.6	0.15	K2289	34.711	242.904	78.097	3.137	0.10932	2.53536	6	X
K21GH10	18.8	0.15	K2289	54.754	210.814	98.738	4.360	0.05640	2.25397	6	X
K21H00P	19.8	0.15	K2289	298.839	51.393	31.676	25.445	0.12609	1.89128	3	X
K21H13V	18.9	0.15	K2289	102.087	74.213	182.606	4.383	0.09314	2.42713	5	X
K21H28Q	18.3	0.15	K2289	67.659	18.939	261.462	1.947	0.17997	2.58472	4	X
K21H34G	17.9	0.15	K2289	30.046	294.478	33.737	30.727	0.29049	2.60328	2	X
K21H34R	18.8	0.15	K2289	21.881	139.811	205.888	3.993	0.12446	2.32512	8	V
K21J19C	18.3	0.15	K2289	32.533	120.189	206.037	10.834	0.20705	2.66628	3	X
K21J43Z	18.4	0.15	K2289	28.795	132.095	209.491	8.900	0.22453	2.57236	5	X
K21J50Z	17.8	0.15	K2289	35.723	102.681	227.324	12.942	0.19975	2.59176	5	X
K21J66D	17.8	0.15	K2289	26.878	82.464	249.356	11.491	0.23512	2.67482	4	X
K21J66U	18.0	0.15	K2289	30.563	194.585	133.121	15.265	0.25528	2.67676	4	X
K21J66Y	18.7	0.15	K2289	42.989	115.031	195.308	8.253	0.16656	2.56235	3	X
K21K100	18.4	0.15	K2289	26.011	99.269	239.752	11.729	0.20657	2.55907	5	X
K21L40N	18.0	0.15	K2289	345.508	206.505	181.327	8.139	0.19976	2.62053	5	X
K21N34X	17.6	0.15	K2289	13.784	75.506	293.672	8.557	0.10262	3.06052	3	X
K21P07L	17.5	0.15	K2289	283.593	172.160	301.092	5.115	0.06554	2.81560	10	X
K21P34K	17.0	0.15	K2289	300.730	182.101	278.432	7.396	0.05562	2.99457	7	X
K21PF4D	17.2	0.15	K2289	263.245	233.891	261.877	10.288	0.09820	3.09232	8	X
K21PF4J	17.2	0.15	K2289	338.909	204.530	215.370	10.273	0.08070	3.01804	8	X
K21R49Z	15.0	0.15	K2289	9.638	14.994	22.085	20.881	0.07944	5.20337	4	X
K21R64M	14.8	0.15	K2289	343.027	23.200	59.138	25.753	0.15022	5.18982	2	X
K21S21Y	14.6	0.15	K2289	301.310	275.809	200.135	8.341	0.04775	5.24590	7	X
K21S45D	15.3	0.15	K2289	33.100	175.209	204.700	2.159	0.07124	5.15805	3	X
K21U01K	14.4	0.15	K2289	323.018	190.821	272.429	23.205	0.10885	5.18053	5	X

K22021R	16.5	0.15	K2289	14.733	49.787	298.839	6.545	0.35997	3.96206	3 X
K22P23Q	17.9	0.15	K2289	350.215	34.638	348.866	10.071	0.29139	2.74771	4 X
K22P26L	17.7	0.15	K2289	29.293	344.170	337.201	10.116	0.28476	2.71893	3 X
K22P29X	17.7	0.15	K2289	8.150	359.887	359.169	13.868	0.21090	2.65232	3 X
K22Q07X	19.1	0.15	K2289	337.504	101.273	305.394	5.778	0.38128	2.59879	3 X
K22Q11F	18.7	0.15	K2289	325.056	86.921	332.215	27.143	0.39607	2.56776	2 X
K22Q14D	18.1	0.15	K2289	345.737	45.972	345.928	14.413	0.16822	2.66264	3 X
K22QJ3V	17.9	0.15	K2289	1.750	72.047	287.835	11.363	0.29505	2.68224	5 X
K22QJ5N	18.0	0.15	K2289	353.650	352.447	33.043	10.348	0.22211	2.77220	4 X
K22R24U	18.5	0.15	K2289	338.667	336.972	45.616	6.308	0.23832	2.44489	5 X
K22R38B	18.0	0.15	K2289	3.510	165.959	190.987	13.479	0.15751	3.05281	3 X
K22R44O	17.9	0.15	K2289	332.830	96.449	313.646	11.631	0.19102	2.64931	4 X
K22R62X	17.0	0.15	K2289	347.195	353.785	44.963	29.805	0.18810	3.08642	2 X
K22R69P	18.1	0.15	K2289	33.731	38.641	284.704	13.217	0.07582	2.58839	4 X
K22S08V	17.7	0.15	K2289	356.065	238.850	131.380	6.192	0.14076	2.81263	4 X
K22S19C	18.8	0.15	K2289	333.021	29.872	34.594	49.582	0.58210	2.60529	3 V
K22S35H	19.7	0.15	K2289	332.207	229.525	159.076	5.597	0.17569	2.25292	3 X
K22S37D	18.2	0.15	K2289	346.566	148.821	222.896	9.406	0.17629	3.08782	3 X
K22S52B	19.0	0.15	K2289	17.930	284.526	45.609	9.661	0.25342	2.71367	2 X
K22S62K	18.9	0.15	K2289	331.096	178.700	225.596	6.005	0.24800	2.63573	3 X
K22SA7N	18.3	0.15	K2289	22.893	178.987	135.908	4.200	0.27010	2.58526	6 X
K22SB2Q	17.6	0.15	K2289	19.481	284.457	60.161	3.345	0.05059	3.03440	4 X
K22SB2U	18.0	0.15	K2289	353.225	124.613	257.900	12.385	0.30526	2.63340	5 X
K22SB6N	17.1	0.15	K2289	31.036	100.057	238.714	8.411	0.00715	3.20426	8 V
K22SB6O	16.8	0.15	K2289	310.672	58.596	12.012	21.364	0.09011	3.43022	4 V
K22SB8X	19.3	0.15	K2289	315.675	257.218	167.520	2.290	0.18503	2.36814	3 V
K22SC4Z	17.8	0.15	K2289	14.193	154.596	198.538	9.448	0.14235	3.14699	2 V
K22SC5R	18.0	0.15	K2289	13.852	299.935	51.697	5.199	0.12879	2.96341	4 V
K22SC7R	18.6	0.15	K2289	331.012	172.148	251.716	12.062	0.26449	2.64803	2 X
K22SC8Q	17.3	0.15	K2289	25.587	303.131	25.176	14.144	0.12823	3.14993	4 X
K22SD0R	19.0	0.15	K2289	343.564	37.783	352.237	5.254	0.24014	2.32352	5 X
K22SD7O	18.4	0.15	K2289	36.418	265.473	49.669	4.009	0.19186	2.63215	3 V
K22SE5D	17.3	0.15	K2289	12.812	307.935	43.971	11.292	0.01399	3.15446	4 V
K22SE5M	17.2	0.15	K2289	324.041	62.666	346.509	10.274	0.08740	3.12070	6 X
K22SE9G	18.0	0.15	K2289	16.677	313.650	40.963	13.590	0.18192	2.57197	3 X
K22SF5T	18.1	0.15	K2289	328.876	35.605	24.538	13.561	0.15848	2.61508	4 X
K22SG0K	17.6	0.15	K2289	340.657	195.033	213.006	16.923	0.20299	3.11229	2 V
K22SG2F	18.0	0.15	K2289	353.572	178.524	221.686	15.117	0.12702	2.53223	4 X
K22SG3U	17.7	0.15	K2289	22.227	58.237	269.134	11.362	0.19107	2.64899	5 X
K22SG4B	17.7	0.15	K2289	22.426	318.150	33.224	15.684	0.12431	2.58775	4 X
K22SG4C	19.7	0.15	K2289	348.827	350.337	32.166	7.307	0.17878	2.20460	4 X
K22SH4M	17.9	0.15	K2289	3.728	317.536	47.796	17.631	0.24638	2.65020	4 V
K22SH4V	18.2	0.15	K2289	336.526	191.117	206.487	14.500	0.08760	2.56758	7 V
K22SH5Y	18.1	0.15	K2289	350.610	355.367	27.420	9.446	0.26389	2.58064	3 V
K22SH6B	17.8	0.15	K2289	38.004	265.971	62.218	3.792	0.06974	2.80272	5 X
K22SH6H	18.6	0.15	K2289	291.456	156.904	10.982	1.323	0.01132	2.37391	6 X
K22T04C	17.7	0.15	K2289	298.302	155.137	285.586	0.447	0.11821	2.94346	8 V
K22T04F	17.9	0.15	K2289	82.752	50.272	225.154	8.006	0.14362	2.79423	5 V
K22T05H	17.7	0.15	K2289	221.374	120.774	27.913	2.626	0.04040	2.71951	6 V
K22T05W	18.1	0.15	K2289	331.113	20.763	29.193	8.998	0.19134	2.73953	5 V
K22T06D	18.0	0.15	K2289	36.063	296.293	33.316	3.753	0.13191	2.60167	2 V
K22T19F	18.5	0.15	K2289	301.031	59.688	23.696	14.315	0.14061	2.56869	3 X
K22T20A	17.9	0.15	K2289	15.041	118.648	225.022	10.319	0.12295	3.07776	4 X
K22T20D	17.4	0.15	K2289	66.509	216.665	73.256	2.379	0.15810	3.02714	9 X
K22T20E	18.4	0.15	K2289	0.770	227.534	139.232	5.833	0.06079	2.63877	5 X
K22T20G	18.0	0.15	K2289	57.804	107.116	202.434	4.123	0.04437	2.76928	5 X
K22U06Z	17.9	0.15	K2289	359.628	175.349	190.840	5.614	0.22995	2.65716	8 X
K22U12B	18.8	0.15	K2289	357.666	323.994	49.475	3.737	0.25541	2.58758	4 X
K22U12S	19.1	0.15	K2289	264.669	58.659	53.044	7.175	0.04348	2.29367	4 X
K22U14J	18.9	0.15	K2289	25.322	271.625	57.621	4.600	0.20188	2.52753	5 X
K22U15D	18.2	0.15	K2289	318.030	75.335	5.655	8.816	0.14113	2.56954	4 X
K22U17Y	18.7	0.15	K2289	17.127	266.464	73.679	2.508	0.20727	2.36808	5 V
K22U19K	19.6	0.15	K2289	349.168	308.096	67.523	2.770	0.18224	2.37506	2 V
K22U20L	18.0	0.15	K2289	356.397	239.556	137.121	4.120	0.17868	2.62699	5 X
K22U21G	18.6	0.15	K2289	320.922	112.296	302.514	9.949	0.12022	2.56111	4 X
K22U22G	17.8	0.15	K2289	269.246	173.065	319.804	12.962	0.19949	2.59074	7 X
K22U35Z	18.1	0.15	K2289	268.095	351.616	125.592	1.436	0.01745	2.77315	4 X
K22U36A	17.2	0.15	K2289	20.909	314.587	44.623	10.511	0.10880	3.17070	4 X
K22U36C	17.8	0.15	K2289	300.284	97.933	341.248	7.935	0.12074	2.96522	4 X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K18X05E	18.9	0.15	K2289	295.258	167.247	353.323	34.153	0.63814	2.49690	207	X
K22M07F	17.3	0.15	K2289	351.515	54.753	296.243	26.807	0.26758	2.68128	115	X
K22P00B	21.4	0.15	K2289	336.671	58.396	311.084	3.681	0.44265	1.91807	97	X
K22P30M	19.5	0.15	K2289	7.893	35.576	303.222	6.811	0.31986	2.15145	86	X
K22P31S	19.2	0.15	K2289	354.654	34.248	336.057	7.630	0.19255	2.20249	88	X
K22P32B	18.0	0.15	K2289	24.721	129.837	208.904	3.719	0.20248	2.55280	87	V
K22Q31W	19.8	0.15	K2289	353.902	107.250	260.651	10.475	0.44765	2.69377	69	X
K22Q89Z	17.2	0.15	K2289	6.672	317.718	14.575	15.132	0.21763	3.18382	60	X
K22QE6B	19.8	0.15	K2289	350.936	141.432	236.073	5.653	0.36927	2.55490	66	X
K22QE8B	19.9	0.15	K2289	348.197	219.853	148.441	7.103	0.31434	2.60147	50	X
K22QJ3E	17.9	0.15	K2289	352.373	30.967	353.726	10.802	0.30677	3.04363	68	X
K22QJ9V	20.4	0.15	K2289	352.479	308.950	55.047	7.839	0.35695	2.60993	59	X
K22QK0A	18.2	0.15	K2289	342.116	130.383	266.372	10.652	0.18721	2.62581	68	X
K22QK1J	18.9	0.15	K2289	20.872	249.562	76.292	4.503	0.25816	2.21411	68	V
K22R03H	18.7	0.15	K2289	7.259	296.652	43.448	30.167	0.45976	2.56621	64	V
K22R03J	19.8	0.15	K2289	346.367	336.889	45.414	9.202	0.37385	2.41689	56	X
K22R03R	16.4	0.15	K2289	353.359	321.604	70.240	15.784	0.38430	3.37406	60	X
K22R04M	19.6	0.15	K2289	337.828	181.711	218.149	38.317	0.59612	2.44735	54	V
K22R34P	18.9	0.15	K2289	341.802	29.761	357.376	7.923	0.31366	2.66938	60	X
K22R37L	17.0	0.15	K2289	324.649	235.547	161.405	10.474	0.10065	3.19923	38	X
K22R64Z	18.6	0.15	K2289	343.416	14.482	36.091	22.844	0.46537	3.03045	54	X
K22R66F	18.1	0.15	K2289	327.163	218.814	196.619	14.567	0.28290	3.18528	49	X

K22R67Z	18.6	0.15	K2289	6.552	183.433	162.773	13.433	0.17614	2.65525	49	X
K22S06R	21.8	0.15	K2289	349.581	313.699	49.560	11.438	0.58112	2.69294	40	X
K22S08X	24.5	0.15	K2289	312.621	4.800	43.236	1.632	0.31630	1.53786	39	X
K22S09E	23.9	0.15	K2289	338.194	9.125	33.469	8.603	0.54443	2.48905	39	X
K22S12R	19.8	0.15	K2289	342.719	57.688	15.422	11.966	0.61241	3.72659	38	X
K22S20H	21.8	0.15	K2289	309.889	47.835	16.577	16.538	0.38041	1.71197	43	X
K22S20S	23.2	0.15	K2289	289.496	109.459	337.188	4.623	0.32235	1.48783	25	X
K22S21X	20.0	0.15	K2289	333.605	41.393	16.845	6.030	0.40798	2.18422	26	X
K22S25G	27.5	0.15	K2289	354.632	315.069	11.446	3.109	0.59521	2.33927	1	X
K22S29D	26.3	0.15	K2289	44.361	267.614	353.991	4.158	0.11464	1.02918	26	X
K22S32X	19.6	0.15	K2289	15.811	163.783	161.581	3.805	0.21587	2.21592	46	X
K22S37E	19.4	0.15	K2289	355.937	341.892	322.090	9.496	0.64857	2.28579	36	X
K22S37S	23.5	0.15	K2289	321.752	38.650	28.428	7.850	0.47236	1.99486	34	X
K22S49D	19.6	0.15	K2289	337.494	356.623	35.033	21.711	0.09233	1.91318	34	X
K22S53W	17.2	0.15	K2289	343.142	255.489	140.888	14.945	0.18248	3.11839	35	X
K22S64K	19.3	0.15	K2289	335.423	135.985	247.099	3.883	0.17443	2.66010	32	X
K22SA0Z	17.7	0.15	K2289	336.156	176.720	217.261	15.586	0.09980	3.17942	39	X
K22SA1Y	20.7	0.15	K2289	309.833	201.851	312.868	7.403	0.80908	1.89318	40	X
K22SA2R	17.0	0.15	K2289	26.044	281.532	55.472	22.152	0.21746	3.07174	36	X
K22SA6E	19.5	0.15	K2289	344.743	351.807	32.483	8.637	0.28897	2.26123	34	X
K22SA6F	18.6	0.15	K2289	348.320	351.487	39.662	15.012	0.25462	2.61481	40	X
K22SA6J	17.1	0.15	K2289	61.245	192.026	106.373	12.440	0.10442	3.16540	28	X
K22SB3E	19.2	0.15	K2289	56.887	91.218	197.835	22.787	0.10820	1.95029	34	X
K22SB3H	17.7	0.15	K2289	15.235	293.677	40.140	24.442	0.41004	3.14504	40	X
K22SB7U	18.9	0.15	K2289	17.788	282.399	47.736	2.283	0.19577	2.40045	33	X
K22SB9D	20.2	0.15	K2289	351.435	190.805	172.546	6.701	0.25121	2.27084	32	X
K22SC2X	19.1	0.15	K2289	350.006	340.641	43.226	4.300	0.38733	2.75168	40	X
K22SC8A	19.4	0.15	K2289	332.504	22.651	15.716	7.146	0.30586	2.62105	32	X
K22SD6G	18.2	0.15	K2289	8.324	132.843	205.007	24.420	0.25575	3.15990	32	X
K22SD7D	18.3	0.15	K2289	332.336	323.730	77.272	4.090	0.09902	2.76286	39	X
K22SD8L	19.4	0.15	K2289	327.381	273.757	128.071	5.691	0.21643	2.59813	27	X
K22SE2V	17.5	0.15	K2289	18.447	258.474	87.000	9.038	0.12089	3.03464	35	X
K22SF0H	19.0	0.15	K2289	7.222	331.581	21.760	5.158	0.28565	2.58162	34	X
K22SF0J	19.0	0.15	K2289	335.555	17.800	29.023	11.779	0.22000	2.37616	34	X
K22SF0P	18.9	0.15	K2289	350.094	58.872	310.517	6.792	0.33782	2.73581	32	X
K22SF0S	20.0	0.15	K2289	353.113	333.126	37.611	2.164	0.45186	2.75337	31	X
K22SF0X	20.0	0.15	K2289	331.783	19.144	45.586	9.802	0.35428	2.35266	32	X
K22SF1V	17.7	0.15	K2289	342.811	40.596	349.910	11.298	0.14164	3.18725	31	X
K22SF3R	18.1	0.15	K2289	4.860	319.589	46.588	10.319	0.37492	3.51089	26	X
K22SF9W	17.7	0.15	K2289	21.098	309.604	33.851	31.828	0.24196	2.56844	31	X
K22SF9Z	18.5	0.15	K2289	6.335	88.234	270.475	10.255	0.30278	2.56959	36	X
K22SG0A	18.0	0.15	K2289	313.172	51.722	33.965	17.519	0.15297	2.60103	31	X
K22SG0C	18.9	0.15	K2289	355.187	189.258	198.092	7.167	0.21242	2.56770	32	X
K22SG0X	19.9	0.15	K2289	332.322	342.439	54.763	6.023	0.15830	2.19124	35	X
K22SG1A	18.9	0.15	K2289	322.182	2.032	62.353	6.836	0.24652	2.65194	31	X
K22SG1Y	19.2	0.15	K2289	6.341	16.815	337.114	6.383	0.18344	2.14137	41	X
K22SG2A	17.6	0.15	K2289	335.778	36.752	24.699	24.155	0.28138	3.06117	39	X
K22SG9Y	19.4	0.15	K2289	342.242	230.201	154.860	5.622	0.15449	2.30460	40	X
K22SH3Y	18.9	0.15	K2289	19.001	50.445	289.611	4.248	0.17389	2.19595	41	V
K22SH7W	18.4	0.15	K2289	357.485	354.192	16.478	14.656	0.27026	2.59025	41	V
K22SH7X	19.5	0.15	K2289	358.396	87.537	279.260	5.446	0.20573	2.18749	44	V
K22SH8A	18.9	0.15	K2289	332.172	47.261	10.917	12.553	0.30192	2.54870	42	V
K22SH8B	18.9	0.15	K2289	338.760	36.324	15.187	15.284	0.30943	2.72026	44	V
K22T00O	24.7	0.15	K2289	357.229	279.579	26.186	6.228	0.52282	1.78024	16	X
K22T01G	25.6	0.15	K2289	343.060	53.526	284.085	0.238	0.29661	1.37539	23	X
K22T01H	21.3	0.15	K2289	348.720	307.587	48.490	21.897	0.33560	1.80020	20	X
K22T01R	20.6	0.15	K2289	338.612	299.944	105.872	4.284	0.45024	2.88153	31	X
K22T02F	19.3	0.15	K2289	2.571	117.762	228.742	28.155	0.43327	2.57102	24	X
K22T02L	20.5	0.15	K2289	302.327	160.985	9.011	10.957	0.85154	1.87865	30	X
K22T02N	21.6	0.15	K2289	357.248	96.963	212.189	16.258	0.69964	2.49427	25	X
K22T04S	19.0	0.15	K2289	0.281	356.597	288.473	29.359	0.81003	2.46094	7	X
K22T08D	18.9	0.15	K2289	354.006	177.574	199.846	11.613	0.12212	2.68190	30	X
K22T12A	19.7	0.15	K2289	11.556	210.639	125.855	2.794	0.26599	2.66003	30	X
K22T13V	19.8	0.15	K2289	333.652	258.493	138.725	2.065	0.18434	2.28908	31	X
K22T16W	18.3	0.15	K2289	359.015	197.996	170.201	3.418	0.28847	3.99423	30	X
K22T16X	17.7	0.15	K2289	22.208	149.145	191.357	9.494	0.13007	3.17326	29	X
K22T17X	20.3	0.15	K2289	346.230	151.378	227.728	3.169	0.19936	2.15802	29	X
K22T19Z	19.7	0.15	K2289	12.551	320.322	23.816	2.928	0.21052	2.39588	31	X
K22T21A	18.6	0.15	K2289	346.292	189.081	200.742	1.895	0.22205	2.63485	33	V
K22T21B	17.5	0.15	K2289	19.002	317.284	38.402	12.615	0.11745	3.12203	33	V
K22T21C	19.8	0.15	K2289	347.096	136.441	246.665	1.845	0.23867	2.36578	32	V
K22U00C	22.3	0.15	K2289	341.118	27.389	13.596	16.430	0.53253	2.94876	10	X
K22U00N	21.6	0.15	K2289	354.469	274.551	27.113	9.873	0.70724	2.25190	14	X
K22U00S	24.6	0.15	K2289	329.537	158.367	217.836	5.998	0.35312	1.59964	26	X
K22U01N	27.3	0.15	K2289	353.290	295.573	26.482	0.956	0.68141	2.52994	6	X
K22U03N	20.8	0.15	K2289	354.421	348.027	354.001	19.665	0.54343	2.19618	6	X
K22U03X	22.9	0.15	K2289	298.270	284.111	207.261	11.889	0.61148	1.70343	14	X
K22U04Y	23.7	0.15	K2289	334.523	47.329	34.995	10.151	0.63556	2.83985	13	X
K22U05C	24.8	0.15	K2289	330.143	17.064	74.810	1.843	0.65863	2.55604	13	X
K22U05K	24.6	0.15	K2289	289.932	161.527	273.290	2.030	0.29415	1.38506	33	X
K22U06W	25.5	0.15	K2289	315.650	158.766	231.301	3.029	0.28603	1.42496	12	X
K22U08T	23.7	0.15	K2289	76.248	210.231	10.919	1.684	0.18782	0.84951	7	X
K22U09M	18.7	0.15	K2289	358.456	322.316	48.373	4.820	0.23360	2.57760	15	X
K22U10A	23.9	0.15	K2289	337.766	164.510	226.831	6.811	0.55702	2.26646	8	X
K22U10T	26.7	0.15	K2289	124.230	329.921	215.696	6.446	0.15697	0.89061	4	X
K22U10U	27.6	0.15	K2289	300.774	19.216	35.956	2.263	0.28436	1.39132	6	X
K22U11N	27.2	0.15	K2289	4.846	79.341	211.244	9.051	0.18296	1.01427	4	X
K22U11S	22.4	0.15	K2289	312.570	173.892	273.209	3.518	0.40548	2.00308	29	X
K22U11T	20.0	0.15	K2289	335.801	39.104	52.116	28.213	0.62271	2.67108	9	X
K22U11U	21.0	0.15	K2289	115.009	224.041	345.460	14.279	0.25048	0.91333	9	X
K22U12H	19.1	0.15	K2289	319.794	224.283	204.565	11.315	0.17617	2.57341	14	X
K22U12J	19.2	0.15	K2289	353.780	325.098	53.655	22.856	0.11267	1.85071	14	X
K22U12N	24.9	0.15	K2289	342.702	335.966	24.900	9.099	0.53946	2.10245	9	X
K22U12X	24.4	0.15	K2289	329.172	47.046	34.579	7.602	0.58480	2.48323	5	X

K22U13D	26.4	0.15	K2289	315.820	228.498	224.723	2.164	0.57238	1.94799	4	X
K22U14A	28.3	0.15	K2289	341.269	354.958	341.395	0.147	0.46429	1.57915	3	X
K22U14B	27.4	0.15	K2289	343.213	206.667	216.368	0.939	0.70906	3.30327	2	X
K22U14Q	23.1	0.15	K2289	252.610	66.569	41.233	37.208	0.17191	1.23624	3	X
K22U14V	26.2	0.15	K2289	329.053	198.310	227.577	1.601	0.56104	2.27849	2	X
K22U14Y	25.1	0.15	K2289	313.930	90.455	39.236	5.938	0.70373	2.03371	5	X
K22U15X	19.1	0.15	K2289	355.700	164.265	215.587	12.871	0.24514	2.38675	11	X
K22U16C	25.8	0.15	K2289	302.724	37.316	40.507	5.288	0.38141	1.59754	2	X
K22U16L	22.5	0.15	K2289	348.305	249.568	37.898	20.658	0.79653	2.05167	7	V
K22U16M	23.5	0.15	K2289	309.666	232.779	219.996	21.717	0.51346	1.83286	6	X
K22U16N	25.8	0.15	K2289	332.622	344.150	39.803	1.880	0.46347	1.88995	5	X
K22U16R	25.4	0.15	K2289	344.360	104.717	275.693	0.337	0.63036	2.70949	2	X
K22U16T	26.9	0.15	K2289	339.953	352.113	32.421	2.742	0.57517	2.33849	2	X
K22U16U	18.6	0.15	K2289	7.032	168.879	189.510	7.367	0.25489	3.11130	14	X
K22U17H	18.2	0.15	K2289	345.902	156.621	240.375	12.887	0.18309	2.60546	11	X
K22U17J	17.7	0.15	K2289	347.619	159.541	240.535	15.976	0.22882	3.09227	11	X
K22U17O	18.4	0.15	K2289	330.218	224.694	195.360	5.398	0.15202	2.32639	9	X
K22U17W	18.7	0.15	K2289	328.780	234.945	179.651	2.919	0.15946	2.65675	12	X
K22U18J	19.1	0.15	K2289	324.622	22.778	43.688	14.140	0.23502	2.58363	17	X
K22U19O	18.0	0.15	K2289	341.658	191.132	218.760	11.172	0.13503	2.59095	8	X
K22U20O	27.8	0.15	K2289	321.209	338.336	48.776	1.820	0.33209	1.52065	7	X
K22U20V	26.1	0.15	K2289	283.471	45.971	49.986	5.070	0.35862	1.41940	2	X
K22U21A	29.1	0.15	K2289	311.816	358.647	36.172	2.522	0.28854	1.39937	3	X
K22U21N	26.5	0.15	K2289	307.515	55.935	36.892	7.602	0.50029	1.78093	4	X
K22U21Q	24.2	0.15	K2289	294.409	334.646	125.431	2.600	0.42417	1.60022	3	X
K22U21R	26.5	0.15	K2289	291.447	53.900	39.150	10.087	0.39880	1.51042	3	X
K22U21Y	18.9	0.15	K2289	348.106	332.167	9.332	24.079	0.64877	2.22405	5	V
K22U22C	21.1	0.15	K2289	325.342	1.629	46.704	28.998	0.46274	1.89417	7	V
K22U24T	23.7	0.15	K2289	320.893	293.989	182.153	5.715	0.64738	2.27685	10	X
K22U24Y	25.2	0.15	K2289	324.703	338.648	46.981	8.961	0.36500	1.60107	4	X
K22U25C	19.0	0.15	K2289	34.627	296.779	18.307	5.054	0.24122	2.58047	15	X
K22U27M	19.3	0.15	K2289	348.293	166.272	217.761	10.436	0.15895	2.55754	15	X
K22U28C	22.1	0.15	K2289	346.989	46.079	315.829	5.807	0.58177	2.33701	2	X
K22U28E	21.3	0.15	K2289	256.480	134.580	12.985	17.742	0.41473	1.56104	16	X
K22U28K	20.1	0.15	K2289	349.415	112.271	265.665	0.576	0.18813	2.34576	11	X
K22U28R	25.1	0.15	K2289	341.670	176.193	234.725	5.516	0.65068	2.90082	3	X
K22U29N	20.3	0.15	K2289	7.597	198.035	150.443	2.418	0.20221	2.28092	13	X
K22U30V	18.7	0.15	K2289	327.783	176.008	240.402	9.666	0.19602	2.33982	15	V
K22U32Q	18.1	0.15	K2289	7.660	328.984	38.060	11.194	0.24868	3.02070	17	V
K22U32Z	18.8	0.15	K2289	0.557	338.405	29.856	14.484	0.27477	2.58748	17	V
K22U33V	18.7	0.15	K2289	359.669	141.634	226.971	6.465	0.11628	2.65340	13	X
K22U34C	28.4	0.15	K2289	302.313	54.495	43.267	0.722	0.49231	1.69226	3	X
K22U34U	18.2	0.15	K2289	314.941	69.645	7.956	6.288	0.10104	2.57578	15	V
K22U35X	19.1	0.15	K2289	339.803	265.787	180.641	18.981	0.54225	2.82488	8	V
K22U36M	17.8	0.15	K2289	2.330	93.304	270.608	20.610	0.27828	3.11209	16	X
K22U36N	17.1	0.15	K2289	322.386	168.443	255.514	21.414	0.09489	3.12532	15	X
K22U37E	16.6	0.15	K2289	25.360	293.272	60.889	11.983	0.10005	3.17494	17	X
K22U40R	24.5	0.15	K2289	350.073	208.977	134.519	2.768	0.62261	2.46852	3	X
K22U41H	18.5	0.15	K2289	319.543	102.001	342.642	5.339	0.30406	2.75007	19	V
K22U41M	18.8	0.15	K2289	321.020	315.213	107.714	2.352	0.16682	2.35014	17	V
K22U41N	18.1	0.15	K2289	323.739	18.530	43.218	5.980	0.08926	2.62716	15	V
K22U41O	19.4	0.15	K2289	346.054	335.980	48.320	2.549	0.19845	2.37048	17	V
K22U41P	18.3	0.15	K2289	326.370	221.792	201.442	7.139	0.19252	2.59498	17	V
K22U41Q	18.0	0.15	K2289	347.658	172.611	222.661	13.040	0.19555	3.09034	17	V
K22U41R	19.2	0.15	K2289	323.864	236.711	182.839	1.159	0.17341	2.37694	16	V
K22V00E	25.1	0.15	K2289	217.957	288.295	216.662	6.366	0.31880	1.08570	3	X
K22V00F	27.8	0.15	K2289	343.775	87.568	229.837	0.849	0.20278	1.06951	3	V
K22V00J	25.1	0.15	K2289	333.822	114.114	229.661	7.287	0.27275	1.27496	1	X
K22V00Q	25.8	0.15	K2289	268.734	276.222	202.629	0.453	0.37815	1.39341	2	X

New observations:

K05U03E	C2022	11	05.18095303	16	00.613+35	45	24.08	20.93GVEV101V00	
K05U03E	C2022	11	05.18592703	16	00.044+35	45	24.95	20.50GVEV101V00	
K05U03E	C2022	11	05.19097103	15	59.576+35	45	25.81	20.86GVEV101V00	
K05U03E	C2022	11	05.19593503	15	59.011+35	45	26.86	20.33GVEV101V00	
K06S05Y	C2022	11	05.09468222	07	14.704+33	28	51.96	20.90GVEV101G96	
K06S05Y	C2022	11	05.10026322	07	14.092+33	28	49.08	20.76GVEV101G96	
K06S05Y	C2022	11	05.10584322	07	13.447+33	28	46.52	20.79GVEV101G96	
K06V00J	KC2022	10	20.89871	00	43	01.83 +29	49	13.1	19.3 GVEV101K88
K06V00J	KC2022	10	20.90068	00	43	01.98 +29	49	04.9	19.2 GVEV101K88
K06V00J	KC2022	10	20.90265	00	43	02.10 +29	48	56.1	19.3 GVEV101K88
K06V00J	KC2022	10	27.84692	00	52	42.99 +20	43	36.9	19.3 GVEV101K88
K06V00J	KC2022	10	27.84952	00	52	43.20 +20	43	23.5	19.1 GVEV101K88
K06V00J	KC2022	10	27.85212	00	52	43.43 +20	43	10.3	19.2 GVEV101K88
K06V02Y	C2022	11	05.23956003	21	48.409+30	38	31.13	19.48GVEV101G96	
K06V02Y	C2022	11	05.24469603	21	46.778+30	38	11.15	19.60GVEV101G96	
K06V02Y	C2022	11	05.24982403	21	45.191+30	37	50.95	19.64GVEV101G96	
K06V02Y	C2022	11	05.25496703	21	43.553+30	37	31.22	19.77GVEV101G96	
K06WC9E	C2022	11	05.42994307	03	17.924+29	47	04.60	21.39GVEV101G96	
K06WC9E	C2022	11	05.43509207	03	18.428+29	47	17.41	21.84GVEV101G96	
K06WC9E	C2022	11	05.44023707	03	18.893+29	47	29.80	21.89GVEV101G96	
K06WC9E	C2022	11	05.44539707	03	19.433+29	47	43.40	20.92GVEV101G96	
K09K03E	C2022	11	05.44923207	32	04.528+31	03	50.04	VVEV101G96	
K09K03E	C2022	11	05.45445207	32	04.268+31	03	52.56	20.12GVEV101G96	
K09K03E	C2022	11	05.45966307	32	03.991+31	03	55.12	20.11GVEV101G96	
K09K03E	C2022	11	05.46486207	32	03.728+31	03	57.46	20.08GVEV101G96	
K11G62D	KC2022	10	31.89790	22	21	37.109+10	35	35.22	18.48RVEV101L92
K11G62D	KC2022	10	31.90880	22	21	40.519+10	35	30.44	18.41RVEV101L92
K11G62D	KC2022	10	31.90880	22	21	40.592+10	35	30.35	19.11RVEV101L92
K11UP6G	KC2022	10	31.03255	03	55	56.03 +17	49	13.8	19.8 GVEV101K88
K11UP6G	KC2022	10	31.03495	03	55	55.84 +17	49	04.8	19.8 GVEV101K88
K11UP6G	KC2022	10	31.04693	03	55	55.16 +17	48	21.7	19.6 GVEV101K88
K11UP6G	KC2022	10	31.05001	03	55	55.00 +17	48	09.5	20.0 GVEV101K88
K11UP6G	KC2022	10	31.05309	03	55	54.85 +17	47	58.1	20.0 GVEV101K88

K12UF8R	KC2022	10	27.93278	01	31	19.09	+20	05	56.1			19.5	GVEV101K88
K12UF8R	KC2022	10	27.93518	01	31	18.43	+20	05	53.2			19.6	GVEV101K88
K12UF8R	KC2022	10	27.93759	01	31	17.69	+20	05	51.3			19.2	GVEV101K88
K13P02V	C2022	11	05.18075002	21	10.949-51	03	09.65					17.610	VuEV101H21
K13P02V	C2022	11	05.18345202	21	12.091-51	03	10.58					17.550	VuEV101H21
K13P02V	C2022	11	05.19538102	21	16.908-51	03	14.47					17.650	VuEV101H21
K13P02V	C2022	11	05.20097302	21	19.178-51	03	16.31					17.810	VuEV101H21
K13S20L	KC2022	10	04.94793301	47	28.20	+16	09	58.7				19.2	GXEV101C95
K13S20L	KC2022	10	04.96042701	47	27.08	+16	11	07.2				19.0	GXEV101C95
K13S20L	KC2022	10	04.97298001	47	25.92	+16	12	16.1				19.2	GXEV101C95
K13T05S	KC2022	10	29.02070821	04	36.58	+15	15	46.1					uEV101H21
K13T05S	KC2022	10	29.02609521	04	36.89	+15	15	33.8					uEV101H21
K13T05S	KC2022	10	29.03209421	04	37.27	+15	15	19.4				22.2	VuEV101H21
K15V00W	KC2022	10	29.95258	02	46	55.83	+24	54	02.8			19.8	GVEV101K88
K15V00W	KC2022	10	29.95498	02	46	55.35	+24	54	10.3			19.3	GVEV101K88
K15V00W	KC2022	10	29.95738	02	46	54.77	+24	54	17.8			19.8	GVEV101K88
K15V00W	KC2022	10	31.94380	02	39	41.46	+26	30	13.1			19.6	GVEV101K88
K15V00W	KC2022	10	31.94620	02	39	40.90	+26	30	19.7			19.7	GVEV101K88
K15V00W	C2022	11	05.16947202	24	50.926+29	30	05.69					20.97	GVEV101G96
K15V00W	C2022	11	05.17549602	24	49.615+29	30	20.09					19.96	GVEV101G96
K15V00W	C2022	11	05.18154002	24	48.337+29	30	34.09					20.19	GVEV101G96
K15V00W	C2022	11	05.18757102	24	47.084+29	30	48.85					20.28	GVEV101G96
K15VE2K	KC2022	11	01.24618903	15	38.67	+13	10	27.3					XEV101858
K15VE2K	KC2022	11	01.25514403	15	37.79	+13	10	21.9					XEV101858
K15VE2K	KC2022	11	01.26407803	15	36.95	+13	10	17.4					XEV101858
K17Q32Q	C2022	11	05.40969106	49	48.976+30	01	23.56					21.08	GVEV101G96
K17Q32Q	C2022	11	05.41487606	49	49.098+30	01	28.02					20.95	GVEV101G96
K17Q32Q	C2022	11	05.42005306	49	49.260+30	01	33.10					20.70	GVEV101G96
K17Q32Q	C2022	11	05.42522706	49	49.379+30	01	37.52					21.79	GVEV101G96
K17Q33L	C2022	11	05.11376621	09	16.884-06	42	05.36					20.30	GVEV101703
K17Q33L	C2022	11	05.11948521	09	16.042-06	41	59.35					18.93	GVEV101703
K17Q33L	C2022	11	05.13092421	09	14.072-06	41	48.16					19.09	GVEV101703
K18U01X	KC2022	10	30.87642	01	46	50.63	+06	03	12.9			19.2	GVEV101K88
K18U01X	KC2022	10	30.87882	01	46	50.95	+06	02	44.3			19.3	GVEV101K88
K18U01X	KC2022	10	30.89306	01	46	52.94	+05	59	57.9			19.3	GVEV101K88
K18U01X	KC2022	10	30.89567	01	46	53.37	+05	59	27.8			18.8	GVEV101K88
K18X05E	C2022	10	31.24237700	31	35.317+48	28	13.40					21.84	GVEV101V00
K18X05E	C2022	10	31.24752000	31	34.529+48	28	13.08					21.82	GVEV101V00
K18X05E	C2022	10	31.25248800	31	33.733+48	28	12.65					21.61	GVEV101V00
K18X05E	C2022	10	31.25744900	31	32.952+48	28	12.14					21.90	GVEV101V00
K18X05V	C2022	11	05.24424203	59	45.038-07	25	14.27					19.06	GVEV101703
K18X05V	C2022	11	05.25407603	59	43.933-07	25	15.02					18.92	GVEV101703
K18X05V	C2022	11	05.25899103	59	43.429-07	25	14.56					18.14	GVEV101703
K19P03G	KC2022	10	29.03245	03	39	20.77	+27	49	56.9			19.9	GVEV101K88
K19P03G	KC2022	10	29.03485	03	39	20.49	+27	49	58.6			19.6	GVEV101K88
K19P03G	KC2022	10	29.03725	03	39	20.20	+27	50	00.5			19.8	GVEV101K88
K19P03G	C2022	11	05.23956003	23	03.768+29	25	38.10					19.51	GVEV101G96
K19P03G	C2022	11	05.24469603	23	03.044+29	25	41.95					19.40	GVEV101G96
K19P03G	C2022	11	05.25496703	23	01.583+29	25	49.37					19.51	GVEV101G96
K20S07J	KC2022	10	20.89255	00	36	52.56	+27	15	31.1			19.8	GVEV101K88
K20S07J	KC2022	10	20.89451	00	36	52.28	+27	15	25.6			19.3	GVEV101K88
K20S07J	KC2022	10	20.89648	00	36	52.11	+27	15	20.0			19.7	GVEV101K88
K22P00B	KC2022	11	04.05450622	46	34.26	+18	06	03.3				19.7	VuEV101H21
K22P00B	KC2022	11	04.05643522	46	34.95	+18	06	06.6				19.8	VuEV101H21
K22P00B	KC2022	11	04.05836422	46	35.69	+18	06	10.4				19.7	VuEV101H21
K22P00B	KC2022	11	04.06029222	46	36.43	+18	06	14.3				19.5	VuEV101H21
K22P00B	KC2022	11	04.06196422	46	37.03	+18	06	17.7				19.3	VuEV101H21
K22R04M	v2022	10	31.77949919	11	32.40	+19	24	15.1				14.6	BVEV101270
K22R04M	v2022	10	31.77949911	006.39635						9			EV101270
K22R04M	v2022	10	31.78584719	11	40.95	+19	13	25.1				14.4	BVEV101270
K22R04M	v2022	10	31.78584711	006.39635						9			EV101270
K22R04M	v2022	10	31.79891519	11	58.54	+18	50	56.1				14.7	BVEV101270
K22R04M	v2022	10	31.79891511	006.39635						9			EV101270
K22R04M	v2022	10	31.80130519	12	01.73	+18	46	48.6				14.6	BVEV101270
K22R04M	v2022	10	31.80130511	006.39635						9			EV101270
K22R04M	KC2022	11	04.98123102	08	34.191-79	20	31.71					15.8	GXEV101Y00
K22R04M	KC2022	11	04.98476302	08	58.253-79	20	21.31					15.8	GXEV101Y00
K22R04M	KC2022	11	04.98815702	09	21.400-79	20	11.41					15.8	GXEV101Y00
K22R04M	KC2022	11	04.99141702	09	43.503-79	20	01.77					15.8	GXEV101Y00
K22R04M	C2022	11	05.16673002	28	32.496-79	07	54.34					15.210	VuEV101W68
K22R04M	C2022	11	05.16945002	28	48.497-79	07	41.56					15.170	VuEV101W68
K22R04M	C2022	11	05.17489302	29	20.366-79	07	15.60					15.280	VuEV101W68
K22R04M	C2022	11	05.18904502	30	42.617-79	06	06.66					15.380	VuEV101W68
K22R04M	KC2022	11	05.53415	03	01	47.07	-78	34	08.5			16.7	VqEV101E23
K22R04M	KC2022	11	05.54526	03	02	35.70	-78	33	04.5			16.7	VqEV101E23
K22R04M	KC2022	11	05.55637	03	03	24.03	-78	31	59.8			16.6	VqEV101E23
K22S06R	KC2022	10	31.99325	03	14	36.64	+07	30	03.6			18.9	GVEV101K88
K22S06R	KC2022	10	31.99565	03	14	36.52	+07	30	12.8			19.3	GVEV101K88
K22S06R	KC2022	10	31.99805	03	14	36.40	+07	30	21.9			19.7	GVEV101K88
K22S08X	KC2022	10	28.06002	03	52	04.45	+16	58	15.1			19.5	GVEV101K88
K22S08X	KC2022	10	28.06242	03	52	05.40	+16	58	22.4			19.6	GVEV101K88
K22S08X	KC2022	10	31.06530	04	12	49.47	+19	18	50.8			19.8	GVEV101K88
K22S08X	KC2022	10	31.06770	04	12	50.39	+19	18	57.2			19.7	GVEV101K88
K22S08X	KC2022	10	31.07010	04	12	51.32	+19	19	03.1			19.5	GVEV101K88
K22S09E	C2022	11	05.24095903	10	04.436+30	18	46.37					20.86	GVEV101G96
K22S09E	C2022	11	05.24609703	10	05.221+30	19	10.78					20.54	GVEV101G96
K22S09E	C2022	11	05.25122403	10	06.020+30	19	35.51					20.23	GVEV101G96
K22S09E	C2022	11	05.25636703	10	06.784+30	20	00.49					20.64	GVEV101G96
K22S19C	KC2022	11	04.85008523	46	08.99	+03	34	18.0				16.6	VqEV101J69
K22S19C	KC2022	11	04.85550323	46	05.18	+03	35	24.9				16.6	VqEV101J69
K22S19C	KC2022	11	04.86105423	46	01.18	+03	36	34.8				16.6	VqEV101J69
K22S19C	KC2022	11	04.86661123	45	57.27	+03	37	44.0				16.7	VqEV101J69
K22S19C	KC2022	11	04.87216323	45	53.27	+03	38	53.3				16.8	VqEV101J69
K22S20H	C2022	11	05.11976722	26	35.999+32	45	49.82					20.01	GVEV101G96

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14.7 RVEV101M32
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17.3 RVEV101M32
18.10oVEV101W68
18.12oVEV101W68
18.47oVEV101W68
18.25oVEV101W68
17.04oVEV101W68
17.04oVEV101W68
16.97oVEV101W68
17.11oVEV101W68
18.07oVEV101W68
18.31oVEV101W68
17.80oVEV101W68
17.39oVEV101W68
19.5 GXEV101858
19.2 GXEV101858
XEV101858
15.1 GXEV101L18
15.2 GXEV101L18
15.3 GXEV101L18
15.2 GXEV101L18
15.1 GXEV101L18
15.0 VqEV101X33
15.0 VqEV101X33
15.4 VqEV101X33
20.4 RoEV101K88
20.3 RoEV101K88
20.1 RoEV101K88
14.94RqEV101L92
14.89RqEV101L92
14.77RqEV101L92
14.96RqEV101L92
14.87RqEV101L92
14.83RqEV101L92
14.79RqEV101L92
14.79RqEV101L92
14.88RqEV101L92
14.64RqEV101L92
14.88RqEV101L92
14.62RqEV101L92
14.82RqEV101L92
14.76RqEV101L92
14.76RqEV101L92
14.68RqEV101L92
14.85RqEV101L92
14.73RqEV101L92
14.60RqEV101L92
14.82RqEV101L92
14.75RqEV101L92
14.83RqEV101L92
14.78RqEV101L92
14.63RqEV101L92
14.85RqEV101L92
14.68RqEV101L92
14.72RqEV101L92
14.47RqEV101L92
14.78RqEV101L92
14.62RqEV101L92
14.58RqEV101L92
14.87RqEV101L92
14.77RqEV101L92
14.66RqEV101L92
14.81RqEV101L92

g2787	C2022	11	01.82686	20	56	09.165+58	02	06.72	14.82RqEV101L92
g2787	C2022	11	01.82843	20	56	09.990+58	02	14.82	14.72RqEV101L92
g2787	C2022	11	01.82921	20	56	10.356+58	02	18.93	14.60RqEV101L92
g2787	C2022	11	01.83077	20	56	11.308+58	02	27.66	14.71RqEV101L92
g2787	C2022	11	01.83155	20	56	11.741+58	02	32.14	14.53RqEV101L92
g2787	C2022	11	01.83233	20	56	12.055+58	02	35.65	14.49RqEV101L92
g2787	C2022	11	01.83311	20	56	12.633+58	02	40.28	14.67RqEV101L92
g2787	C2022	11	03.78364	21	16	10.97	+60	45 21.7	15.1 RVEV101M32
g2787	C2022	11	03.78392	21	16	11.16	+60	45 23.3	15.1 RVEV101M32
g2787	C2022	11	03.78421	21	16	11.32	+60	45 24.2	15.1 RVEV101M32
g2787	C2022	11	03.78737	21	16	13.32	+60	45 37.5	15.8 RVEV101M32
g2787	C2022	11	03.78766	21	16	13.44	+60	45 39.4	15.4 RVEV101M32
g2787	C2022	11	03.78795	21	16	13.58	+60	45 40.7	15.4 RVEV101M32
g2787	C2022	11	03.78822	21	16	13.75	+60	45 42.1	15.1 RVEV101M32
g2787	C2022	11	03.78851	21	16	13.95	+60	45 43.3	15.2 RVEV101M32
g2787	C2022	11	03.78880	21	16	14.11	+60	45 44.5	15.2 RVEV101M32
g2787	C2022	11	03.78909	21	16	14.28	+60	45 45.8	15.1 RVEV101M32
g2787	C2022	11	03.78938	21	16	14.46	+60	45 47.0	15.2 RVEV101M32
g2787	C2022	11	03.78966	21	16	14.63	+60	45 48.4	15.2 RVEV101M32
g2787	C2022	11	03.78995	21	16	14.80	+60	45 49.7	15.1 RVEV101M32
g2787	C2022	11	03.79024	21	16	14.97	+60	45 50.9	15.1 RVEV101M32
g2787	C2022	11	03.79053	21	16	15.15	+60	45 52.3	15.2 RVEV101M32
g2787	C2022	11	03.79082	21	16	15.31	+60	45 53.5	15.2 RVEV101M32
g2787	C2022	11	03.79109	21	16	15.49	+60	45 54.9	15.2 RVEV101M32
g2787	C2022	11	03.79138	21	16	15.67	+60	45 56.0	15.1 RVEV101M32
g2787	C2022	11	03.79167	21	16	15.83	+60	45 57.2	15.2 RVEV101M32
g2787	C2022	11	03.79196	21	16	16.03	+60	45 58.4	15.1 RVEV101M32
g2787	KC2022	11	03.85459321	16	54	20	+60	50 31.3	14.8 GXEV101L18
g2787	KC2022	11	03.85543321	16	54	69	+60	50 34.8	15.0 GXEV101L18
g2787	KC2022	11	03.85627321	16	55	19	+60	50 38.6	15.1 GXEV101L18
g2787	KC2022	11	03.85711421	16	55	69	+60	50 41.9	15.0 GXEV101L18
g2787	KC2022	11	03.85796021	16	56	25	+60	50 45.8	15.5 GXEV101L18
g2787	1C2022	11	04.82143	21	27	15.39	+61	59 35.7	15.6 GVEV101C40
g2787	1C2022	11	04.82621	21	27	18.40	+61	59 54.3	15.6 GVEV101C40
g2787	1C2022	11	04.83087	21	27	21.37	+62	00 12.4	15.6 GVEV101C40
j5588	C2022	11	05.22721204	29	20	767-50	08	53.77	18.13oVEV101W68
j5588	C2022	11	05.22880404	29	21	314-50	09	05.72	17.87oVEV101W68
j5588	C2022	11	05.23150604	29	22	212-50	09	26.86	17.81oVEV101W68
j5588	C2022	11	05.23650304	29	23	904-50	10	04.04	18.01oVEV101W68
16187	KC2022	10	20.74471	22	55	32.66	+29	54 34.0	20.2 GVEV101K88
16187	KC2022	10	20.74915	22	55	33.09	+29	54 12.1	19.7 GVEV101K88
o9520	C2022	11	05.18484702	25	52	476-46	50	05.71	17.76oVEV101W68
o9520	C2022	11	05.18852802	25	51	317-46	49	25.00	17.60oVEV101W68
o9520	C2022	11	05.19691002	25	48	646-46	47	53.56	17.70oVEV101W68
o9520	C2022	11	05.20642002	25	45	619-46	46	09.41	17.37oVEV101W68
q3823	1C2022	11	04.77626	00	17	04.98	+15	27 12.1	17.1 GVEV101C40
q3823	1C2022	11	04.78448	00	17	07.79	+15	27 08.0	17.1 GVEV101C40
q3823	1C2022	11	04.79259	00	17	10.57	+15	27 04.0	17.1 GVEV101C40

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