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MPEC 2015-W25 : DAILY ORBIT UPDATE (2015 NOV. 19 UT)

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M.P.E.C. 2015-W25

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DAILY ORBIT UPDATE (2015 NOV. 19 UT)

Update to [MPEC 2015-W19](#)

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

New identification:

K08CC3V	K15VE7G	MPCW
K08CH7H	K15VE6Y	MPCW
K08F78V	K15VE9M	MPCW
K11A04F	K15VE8K	MPCW
K14O31C	K15VE8J	MPCW

New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J94W04H	17.1	0.15	K161D	352.447	305.876	141.149	5.241	0.22983	2.60545	6	X
J95S57Z	17.4	0.15	K161D	54.786	344.804	0.345	5.871	0.07353	2.89268	5	X
J98V43H	17.8	0.15	K161D	352.120	200.968	224.882	5.245	0.17615	2.63094	5	X
J98X02N	19.7	0.15	K161D	30.419	126.339	255.694	1.780	0.54139	1.99895	5	X
J98X16R	18.4	0.15	K161D	333.249	68.157	91.850	20.541	0.57864	2.27579	3	X
J99VC9K	16.6	0.15	K161D	45.818	121.194	226.034	14.165	0.22845	3.04782	5	X
J99VE7A	17.3	0.15	K161D	35.556	162.780	227.114	6.395	0.12485	2.51846	6	X
J99XA6D	17.0	0.15	K161D	29.224	301.332	84.285	24.684	0.56849	3.04966	3	X
J99Y08J	17.0	0.15	K161D	330.855	349.447	108.579	22.917	0.06063	2.57203	3	X
K00A48L	16.7	0.15	K161D	26.566	101.502	303.585	3.330	0.25100	2.54291	5	X
K00A49M	17.8	0.15	K161D	48.465	113.064	283.163	19.005	0.32028	1.92177	4	X
K00D65E	17.6	0.15	K161D	324.818	321.522	165.926	5.240	0.26513	2.57480	6	X
K00P07W	18.1	0.15	K161D	44.857	87.013	252.253	4.941	0.35726	2.40196	2	X
K01L00B	21.0	0.15	K161D	263.070	118.134	80.919	20.794	0.18926	1.23611	3	X
K01O00U	18.0	0.15	K161D	63.208	234.581	109.116	6.908	0.21569	2.26137	2	X
K01O02P	17.4	0.15	K161D	59.891	109.052	243.663	9.159	0.19636	2.26521	4	X
K01Q85O	16.5	0.15	K161D	67.470	240.267	100.938	10.318	0.18603	2.72905	8	X
K01RD1S	16.9	0.15	K161D	18.141	11.250	5.128	13.815	0.19778	2.78242	3	X
K01RE9W	17.0	0.15	K161D	41.762	222.242	156.340	8.713	0.23765	2.73599	5	X
K01RF0N	17.2	0.15	K161D	46.986	180.434	179.041	9.893	0.22211	2.74250	6	X
K01SS5M	17.3	0.15	K161D	8.846	211.487	203.873	8.263	0.19622	2.77741	4	X
K01SV7W	16.7	0.15	K161D	72.012	289.791	16.095	13.175	0.21229	2.77817	7	X
K01T09Z	16.7	0.15	K161D	72.126	116.312	200.796	31.161	0.35554	2.75852	4	X
K01T96Z	17.9	0.15	K161D	43.982	42.988	336.408	2.305	0.26196	2.29075	6	X
K01TN2V	18.3	0.15	K161D	63.483	255.497	83.167	6.331	0.29915	2.28854	3	X
K01U00T	18.4	0.15	K161D	49.246	305.624	51.507	8.297	0.35636	2.29112	3	X
K01U38C	17.5	0.15	K161D	51.286	157.057	202.756	14.273	0.29074	2.75774	4	X
K01U68Z	17.7	0.15	K161D	17.864	199.368	186.574	3.684	0.22705	2.79185	5	X
K01UE3O	16.7	0.15	K161D	44.049	315.811	41.412	11.924	0.15803	2.79891	2	X
K01V05W	16.6	0.15	K161D	347.636	248.784	220.692	25.161	0.29687	2.77617	2	X
K01V22L	16.8	0.15	K161D	358.762	200.216	238.201	16.443	0.20473	2.79189	3	X

K01X72Y	17.1	0.15	K161D	7.968	197.764	234.715	8.636	0.26488	2.79012	5	X
K01XM3A	17.5	0.15	K161D	34.330	329.752	62.106	7.605	0.10590	2.31065	5	X
K01XM9D	18.4	0.15	K161D	6.330	16.551	55.127	3.442	0.18116	2.31060	6	X
K02CR8D	17.6	0.15	K161D	340.013	262.364	203.311	5.072	0.20423	2.34128	6	X
K02EB9W	17.9	0.15	K161D	290.962	171.354	327.445	3.476	0.16545	2.39349	4	X
K02G18N	15.6	0.15	K161D	45.473	334.418	49.718	11.239	0.11152	2.97821	6	X
K02J03M	17.6	0.15	K161D	262.298	122.083	53.135	3.796	0.16069	2.41732	6	X
K02JFF1B	15.5	0.15	K161D	358.486	16.466	56.655	16.747	0.01789	3.06850	7	X
K02L06V	18.1	0.15	K161D	85.146	40.027	241.714	9.098	0.37380	2.16784	4	X
K02L48C	16.5	0.15	K161D	71.000	226.406	95.199	14.889	0.27415	2.58491	7	X
K02M05W	16.8	0.15	K161D	42.529	84.252	252.197	11.390	0.29541	2.62743	4	X
K02N06C	18.6	0.15	K161D	51.909	222.139	142.435	3.204	0.20051	2.15373	4	X
K02N60T	16.8	0.15	K161D	41.217	8.787	359.526	4.445	0.18660	2.58857	7	X
K02N80J	16.6	0.15	K161D	82.866	189.708	129.482	15.310	0.15288	2.57592	5	X
K02P03N	17.3	0.15	K161D	103.033	121.469	189.996	4.546	0.13406	2.55516	4	X
K02P08O	17.2	0.15	K161D	40.186	211.814	169.197	5.508	0.26150	2.57951	4	X
K02P08S	17.5	0.15	K161D	43.492	129.774	232.787	4.929	0.29563	2.60029	4	X
K02P21W	17.6	0.15	K161D	44.125	30.813	310.337	5.511	0.28176	2.62155	4	X
K02P32H	17.2	0.15	K161D	90.168	128.675	177.196	4.650	0.22439	2.58807	7	X
K02P36Z	16.6	0.15	K161D	66.415	132.629	220.567	11.228	0.20174	2.56689	3	X
K02PA6W	17.3	0.15	K161D	103.593	95.358	212.627	7.729	0.16555	2.56691	6	X
K02PG1V	16.3	0.15	K161D	28.872	249.550	134.685	13.193	0.18244	2.59609	7	X
K02PH5L	17.6	0.15	K161D	30.672	288.865	85.107	4.958	0.31248	2.61748	4	X
K02PI9P	17.1	0.15	K161D	22.570	232.183	131.824	12.710	0.20370	2.62787	5	X
K02PJ5N	17.5	0.15	K161D	73.462	194.614	135.616	10.840	0.20904	2.59077	6	X
K02PJ8S	16.0	0.15	K161D	113.544	70.470	224.694	12.573	0.18806	2.57225	4	X
K02PK0A	17.6	0.15	K161D	99.648	157.815	160.344	7.014	0.11225	2.55290	4	X
K02Q60V	17.2	0.15	K161D	33.885	199.137	182.386	4.836	0.17350	2.59963	6	X
K02Q63G	17.8	0.15	K161D	32.893	228.394	150.018	14.070	0.29107	2.61503	2	X
K02Q83B	17.3	0.15	K161D	25.764	95.056	301.155	6.841	0.21993	2.59717	5	X
K02Q95M	17.1	0.15	K161D	120.325	155.811	139.236	15.245	0.07894	2.57076	4	X
K02QA6Z	17.2	0.15	K161D	39.140	212.375	154.947	4.960	0.22165	2.60651	5	X
K02R01M	16.2	0.15	K161D	51.934	140.821	241.725	10.834	0.06848	2.56473	6	X
K02RA9Q	17.4	0.15	K161D	40.181	158.953	218.220	4.895	0.26770	2.61812	5	X
K02RF1Y	17.0	0.15	K161D	51.969	138.235	241.562	6.423	0.12779	2.58535	5	X
K02RL0Q	17.1	0.15	K161D	26.897	215.562	181.520	13.443	0.25668	2.62435	3	X
K02RL8R	16.7	0.15	K161D	48.119	275.111	79.745	4.682	0.19006	2.61805	7	X
K02RO3B	17.6	0.15	K161D	61.618	146.076	195.415	3.990	0.25120	2.60643	5	X
K02RO9G	18.3	0.15	K161D	31.940	177.641	201.159	6.484	0.22891	2.62283	2	X
K02RS1B	18.9	0.15	K161D	69.915	25.427	287.997	5.273	0.24509	2.18731	3	X
K02S01W	17.6	0.15	K161D	29.909	350.975	35.053	2.890	0.22146	2.62682	4	X
K02S67N	17.0	0.15	K161D	89.389	221.634	101.185	5.875	0.15776	2.58249	5	X
K02T64T	17.6	0.15	K161D	26.278	352.244	30.736	14.807	0.24409	2.63724	3	X
K02T75R	18.7	0.15	K161D	42.118	10.206	346.349	5.465	0.20498	2.19394	3	X
K02TF2R	17.4	0.15	K161D	37.622	156.331	223.584	6.977	0.19308	2.62785	5	X
K02TF4M	17.0	0.15	K161D	52.310	169.880	203.757	15.175	0.16268	2.59325	6	X
K02TI3B	17.5	0.15	K161D	26.180	186.327	206.168	7.187	0.34104	2.63115	3	X
K02TJ9R	16.5	0.15	K161D	44.401	154.317	231.443	12.925	0.19430	2.61289	7	X
K02TMT0T	17.4	0.15	K161D	34.977	122.806	238.732	10.623	0.31957	2.64113	4	X
K02TO5E	17.1	0.15	K161D	63.323	278.752	66.333	7.658	0.21289	2.62996	6	X
K02TP7A	17.9	0.15	K161D	33.421	175.151	193.153	5.895	0.31885	2.65291	2	X
K02TQ9V	16.5	0.15	K161D	75.590	122.692	214.786	11.360	0.21371	2.61071	4	X
K02TT1G	18.1	0.15	K161D	27.534	48.397	334.348	4.121	0.33818	2.19893	3	X
K02TU0M	17.9	0.15	K161D	2.329	353.323	72.929	9.118	0.34202	2.65278	4	X
K02TU3X	17.7	0.15	K161D	44.466	292.749	79.407	5.833	0.06443	2.62772	6	X
K02Ta7X	17.3	0.15	K161D	42.165	292.680	87.909	8.494	0.08880	2.63016	7	X
K02U46J	18.3	0.15	K161D	72.398	123.952	222.353	4.738	0.21157	2.18066	5	X
K02U50N	16.8	0.15	K161D	119.607	73.739	225.817	14.987	0.13278	2.54963	5	X
K02U77O	17.7	0.15	K161D	35.011	330.253	50.931	7.840	0.12577	2.19561	3	X
K02U79L	17.5	0.15	K161D	21.022	10.323	37.053	19.084	0.08158	1.88054	5	X
K02V18P	16.4	0.15	K161D	76.986	299.171	32.990	8.792	0.08964	2.64949	6	X
K02V25J	17.0	0.15	K161D	44.507	114.361	232.685	11.803	0.29294	2.66305	6	X
K02VA5V	16.8	0.15	K161D	35.428	327.573	47.236	14.696	0.26631	2.66435	5	X
K02VB6X	17.3	0.15	K161D	17.208	59.476	324.472	6.796	0.23488	2.67978	5	X
K02VB7N	17.2	0.15	K161D	64.079	142.246	206.285	2.355	0.23630	2.64519	5	X
K02VE0W	16.6	0.15	K161D	339.312	325.214	88.335	15.354	0.04510	2.72247	5	X
K02V00K	16.3	0.15	K161D	45.593	109.506	279.819	27.473	0.43518	2.61672	4	X
K02W04S	17.1	0.15	K161D	15.089	160.751	250.993	12.680	0.24040	2.65014	4	X
K02W29W	17.3	0.15	K161D	1.819	355.465	61.312	13.999	0.17320	2.66748	3	X
K02W31Q	17.2	0.15	K161D	20.543	351.557	51.885	8.033	0.18108	2.66041	5	X
K02X38A	17.8	0.15	K161D	343.632	37.583	48.978	22.604	0.06141	1.90056	6	X
K02X38Y	22.9	0.15	K161D	173.556	119.478	159.378	2.101	0.21734	0.91105	3	X
K02X45P	17.8	0.15	K161D	56.939	298.988	77.912	22.874	0.12173	1.89404	2	X
K03A85Q	17.3	0.15	K161D	17.183	209.502	211.065	8.026	0.28576	2.65981	5	X
K03E46F	17.2	0.15	K161D	189.975	94.488	140.429	5.179	0.16942	2.31052	5	X
K03G21X	18.1	0.15	K161D	212.557	176.030	24.478	20.959	0.04899	1.97623	4	X
K03SQ1U	16.8	0.15	K161D	15.589	38.458	349.845	6.414	0.35175	3.30384	3	X
K03Sa0Q	16.3	0.15	K161D	13.506	251.652	172.663	11.619	0.06105	3.17401	6	X
K03Sb9L	17.0	0.15	K161D	358.221	260.159	172.121	5.648	0.16363	3.20599	5	X
K03UV0C	17.0	0.15	K161D	271.737	307.288	214.206	13.368	0.01345	2.51062	6	X
K03UX3C	17.4	0.15	K161D	248.738	334.475	204.837	6.211	0.07338	2.45935	7	X
K03W00A	19.9	0.15	K161D	11.278	190.401	232.616	11.795	0.41865	2.51720	4	X
K03W39P	15.3	0.15	K161D	33.827	160.501	242.520	21.339	0.06327	3.24358	4	X
K03WE0F	16.7	0.15	K161D	346.961	195.605	242.713	12.616	0.11825	2.54510	5	X
K03Y22F	17.4	0.15	K161D	32.768	97.053	293.750	2.759	0.18325	2.53504	4	X
K03YB4X	17.4	0.15	K161D	349.424	348.725	112.972	5.830	0.24016	2.54973	5	X
K04B15G	17.5	0.15	K161D	301.925	26.674	114.134	5.154	0.14618	2.58720	5	X
K04F30F	15.6	0.15	K161D	262.597	96.643	97.908	16.654	0.22101	2.64946	4	X
K04H08Q	17.9	0.15	K161D	175.219	73.946	176.237	5.850	0.24507	2.21634	8	X
K04H55A	16.4	0.15	K161D	204.648	143.723	76.407	14.666	0.15007	2.72877	5	X
K04H78R	17.2	0.15	K161D	280.784	59.534	121.572	13.726	0.20608	2.66921	4	X
K04J13V	16.8	0.15	K161D	271.008	318.350	223.315	12.708	0.20081	2.67054	7	X
K04L03V	18.8	0.15	K161D	89.024	121.318	273.504	35.339	0.27569	1.23136	4	X
K04M00B	18.2	0.15	K161D	127.953	80.439	199.182	4.899	0.23644	2.28382	6	X
K04P40E	17.7	0.15	K161D	67.534	176.859	159.990	7.072	0.26080	2.34011	4	X
K04P42N	18.0	0.15	K161D	66.351	131.731	223.668	5.627	0.16948	2.31351	6	X
K04PB0A	18.5	0.15	K161D	79.010	218.175	102.832	4.164	0.26543	2.31599	2	X

K04PB0N	18.2	0.15	K161D	69.589	256.865	80.321	1.539	0.25000	2.33319	4	X
K04Q24F	16.9	0.15	K161D	44.582	99.502	260.349	20.659	0.32494	2.36012	4	X
K04R03A	17.5	0.15	K161D	31.698	160.472	249.242	17.756	0.05984	1.93284	4	X
K04R51Y	17.7	0.15	K161D	36.805	310.886	61.667	2.495	0.19412	2.35252	5	X
K04RELS	18.0	0.15	K161D	34.451	219.884	152.291	2.822	0.22721	2.35436	4	X
K04RH6E	18.3	0.15	K161D	39.410	182.420	188.468	11.089	0.28947	2.35051	2	X
K04RK5J	16.8	0.15	K161D	14.176	189.658	202.543	16.717	0.33632	3.08997	2	X
K04RK9J	15.9	0.15	K161D	61.455	94.440	247.675	10.904	0.25996	3.01578	5	X
K04RT9O	17.9	0.15	K161D	1.816	259.667	156.401	1.549	0.17200	2.35758	2	X
K04S01T	16.6	0.15	K161D	50.533	310.709	53.525	2.516	0.18693	3.01737	7	X
K04S18G	16.5	0.15	K161D	35.251	265.283	116.430	12.889	0.25122	3.05023	5	X
K04S41P	16.1	0.15	K161D	35.237	182.815	204.742	10.118	0.10761	3.01773	7	X
K04T22W	17.1	0.15	K161D	32.654	357.143	0.939	9.349	0.17900	3.10456	3	X
K04T56L	17.2	0.15	K161D	96.061	293.691	0.893	7.610	0.11535	2.37276	6	X
K04T58D	18.3	0.15	K161D	54.684	160.872	194.011	0.767	0.20757	2.35499	3	X
K04T77N	16.2	0.15	K161D	102.910	104.812	215.474	15.204	0.12722	3.05647	5	X
K04TF5X	18.6	0.15	K161D	22.332	250.836	154.667	1.588	0.17836	2.35537	6	X
K04TK1M	16.6	0.15	K161D	35.980	128.071	242.582	8.132	0.19401	3.12974	4	X
K04TM7S	16.7	0.15	K161D	6.074	26.603	11.224	10.877	0.22563	3.12667	3	X
K04TU7D	15.7	0.15	K161D	63.491	98.818	215.115	25.505	0.17524	3.12436	5	X
K04TY7J	17.9	0.15	K161D	47.374	19.953	332.604	4.444	0.21679	2.37740	6	X
K04V01T	16.5	0.15	K161D	8.027	170.257	249.222	6.929	0.30101	3.09828	4	X
K04V05T	16.2	0.15	K161D	14.744	187.097	215.478	9.987	0.14138	3.11894	5	X
K04V31A	16.6	0.15	K161D	25.857	169.918	218.762	10.604	0.11353	3.12757	3	X
K04V39E	16.4	0.15	K161D	332.591	33.568	63.446	5.902	0.10634	3.11810	3	X
K04V74J	15.1	0.15	K161D	80.433	270.320	64.147	22.854	0.12641	3.10294	3	X
K04W04Z	15.8	0.15	K161D	56.533	297.881	57.417	27.404	0.13760	3.10975	3	X
K04W12V	17.6	0.15	K161D	359.050	353.227	94.902	5.919	0.19713	2.36976	6	X
K04X04E	16.0	0.15	K161D	28.368	264.552	125.222	16.707	0.31567	3.12958	4	X
K04XA1V	17.1	0.15	K161D	333.923	20.125	89.621	23.450	0.29811	2.42158	5	X
K04XC4P	15.5	0.15	K161D	327.038	69.684	67.432	26.493	0.24711	3.19280	4	X
K04Y15L	17.6	0.15	K161D	13.545	324.419	93.166	4.787	0.14992	2.42529	6	X
K05A16X	16.9	0.15	K161D	35.680	268.574	109.716	10.345	0.23777	2.42200	2	X
K05A68J	15.9	0.15	K161D	298.196	4.781	153.865	18.763	0.33279	3.26604	4	X
K05JD4C	16.4	0.15	K161D	76.869	129.519	220.588	26.841	0.10164	2.60399	4	X
K05J15D	16.4	0.15	K161D	152.569	36.100	220.035	14.512	0.07188	2.65340	6	X
K05L04H	16.5	0.15	K161D	323.957	230.607	217.139	20.865	0.09754	2.62568	5	X
K05L13W	17.2	0.15	K161D	123.667	163.063	131.555	4.928	0.11409	2.65199	4	X
K05N28B	16.7	0.15	K161D	51.772	216.520	151.906	10.028	0.16972	2.77056	7	X
K05O30Y	15.9	0.15	K161D	31.506	277.965	120.918	10.967	0.13909	2.76998	8	X
K05Q06R	17.9	0.15	K161D	68.733	186.149	162.652	6.729	0.21969	2.18701	5	X
K05Q82B	18.2	0.15	K161D	44.590	232.577	136.849	6.173	0.21955	2.20014	3	X
K05QA8J	17.9	0.15	K161D	93.340	330.633	332.286	6.387	0.11666	2.20622	3	X
K05QF3G	18.1	0.15	K161D	125.479	186.793	104.545	2.525	0.12408	2.16413	7	X
K05QG6A	17.5	0.15	K161D	63.259	300.250	60.747	5.662	0.19790	2.20062	5	X
K05QH5A	18.0	0.15	K161D	64.001	81.645	263.463	4.949	0.28679	2.20372	4	X
K05R11Q	17.3	0.15	K161D	26.107	178.121	216.231	6.712	0.33053	2.23097	6	X
K05R22F	18.0	0.15	K161D	53.237	147.744	200.959	3.363	0.18735	2.21464	6	X
K05S18A	17.0	0.15	K161D	66.400	166.851	188.920	12.227	0.12521	2.83457	4	X
K05S66Z	17.6	0.15	K161D	39.662	182.088	190.208	5.377	0.13032	2.87317	4	X
K05SP1U	18.3	0.15	K161D	50.790	309.427	46.209	7.200	0.20245	2.20820	3	X
K05SQ8H	18.1	0.15	K161D	0.379	250.349	189.614	22.524	0.15851	1.84274	4	X
K05SR8O	16.1	0.15	K161D	52.575	125.496	246.103	13.887	0.15737	2.87039	5	X
K05T46M	18.2	0.15	K161D	82.169	173.396	161.305	3.753	0.11086	2.20791	5	X
K05T51T	18.2	0.15	K161D	58.107	126.893	225.884	4.129	0.21215	2.22098	4	X
K05T75T	17.6	0.15	K161D	24.933	123.961	253.336	6.788	0.17548	2.23565	3	X
K05TE2R	18.5	0.15	K161D	347.241	303.563	147.529	3.095	0.13141	2.21155	5	X
K05TF9Z	19.2	0.15	K161D	57.405	111.363	224.423	5.608	0.28582	2.22616	2	X
K05TI8P	17.3	0.15	K161D	154.837	186.367	79.779	4.767	0.13438	2.18275	8	X
K05UI2B	16.7	0.15	K161D	342.567	42.292	52.553	11.728	0.10593	2.91897	6	X
K05UI4D	17.3	0.15	K161D	29.507	163.716	225.089	13.111	0.18674	2.91857	3	X
K05UL3M	16.9	0.15	K161D	43.266	200.269	167.550	9.640	0.12872	2.88517	5	X
K05UM6E	17.1	0.15	K161D	40.143	311.490	59.808	3.121	0.10780	2.92863	4	X
K05UN1N	18.0	0.15	K161D	321.666	265.168	220.015	3.095	0.10997	2.21964	7	X
K05UP0K	17.4	0.15	K161D	14.410	190.205	233.123	4.844	0.10510	2.21622	6	X
K05UV8A	17.7	0.15	K161D	88.439	263.956	37.689	8.881	0.18790	2.94556	3	X
K05UW8Z	16.4	0.15	K161D	94.349	105.470	210.925	12.661	0.09550	2.90303	5	X
K05Ud9Y	19.4	0.15	K161D	336.912	243.018	225.932	19.794	0.13631	1.84811	5	X
K05Uh8P	18.0	0.15	K161D	15.210	219.251	208.164	4.948	0.14507	2.21385	6	X
K05U18W	18.3	0.15	K161D	60.336	116.208	245.230	4.824	0.15002	2.22889	6	X
K05Uq5R	18.3	0.15	K161D	24.469	335.447	56.980	7.021	0.14561	2.24955	4	X
K05V04T	18.6	0.15	K161D	19.295	86.371	305.489	4.127	0.15890	2.25310	4	X
K05W15S	18.1	0.15	K161D	57.833	111.900	247.996	4.332	0.18140	2.23808	5	X
K05W97G	17.1	0.15	K161D	16.639	341.927	66.283	11.596	0.11524	2.94726	3	X
K05WB0K	18.4	0.15	K161D	41.236	299.462	80.131	3.781	0.18855	2.23969	4	X
K05WD5N	16.2	0.15	K161D	49.984	254.290	108.459	17.107	0.19422	3.04343	4	X
K05WF4Z	16.7	0.15	K161D	296.117	70.848	74.734	12.239	0.13142	2.97264	4	X
K05WI2M	16.6	0.15	K161D	21.334	307.290	90.749	7.531	0.23418	2.93754	4	X
K05WJ5O	15.0	0.15	K161D	311.416	51.118	116.488	20.940	0.38571	3.06680	4	X
K05X18J	17.8	0.15	K161D	61.231	240.941	111.930	3.957	0.19377	2.26808	5	X
K05X23O	16.0	0.15	K161D	21.761	127.772	257.013	8.881	0.11480	2.99592	4	X
K05X26P	16.2	0.15	K161D	336.992	354.143	103.664	14.982	0.07509	3.02087	4	X
K05X60X	19.0	0.15	K161D	28.160	127.746	254.278	4.121	0.19721	2.25709	4	X
K05XA5L	16.5	0.15	K161D	6.290	82.653	308.468	8.356	0.08633	3.16904	4	X
K05Y22A	18.8	0.15	K161D	345.365	357.780	96.476	5.227	0.10519	2.27127	5	X
K05Y23X	18.0	0.15	K161D	293.042	201.705	280.471	3.611	0.08035	2.31392	3	X
K05Y27C	17.3	0.15	K161D	16.211	321.206	70.237	2.532	0.29375	3.02168	3	X
K05Y67J	18.1	0.15	K161D	344.389	23.685	73.052	3.388	0.13159	2.27041	5	X
K05Y75L	17.8	0.15	K161D	20.657	343.193	47.383	2.560	0.26014	3.00167	2	X
K05YA5B	16.1	0.15	K161D	30.456	297.168	103.677	10.650	0.08953	2.99683	6	X
K05YC2A	15.9	0.15	K161D	302.856	40.279	99.985	11.537	0.08160	3.02753	6	X
K05YD2C	16.3	0.15	K161D	41.287	254.395	121.733	10.059	0.15173	3.06402	7	X
K06A02W	18.5	0.15	K161D	316.134	59.529	71.251	5.844	0.15176	2.26914	5	X
K06AA1G	18.1	0.15	K161D	325.601	150.875	311.992	5.232	0.17468	2.30737	4	X
K06B44P	16.6	0.15	K161D	315.082	343.175	160.240	8.764	0.21696	3.07467	7	X
K06B66J	16.4	0.15	K161D	40.741	292.715	79.008	2.660	0.16543	3.09529	6	X
K06B81X	18.1	0.15	K161D	316.211	6.860	113.696	4.318	0.10236	2.32268	5	X

K06BB2D	15.2	0.15	K161D	85.628	197.146	127.861	12.463	0.11929	3.17518	9	X
K06BCOX	16.5	0.15	K161D	274.801	354.501	164.659	9.921	0.03075	3.13018	7	X
K06BG2M	18.1	0.15	K161D	45.295	244.904	130.713	7.200	0.25272	2.29880	5	X
K06D12B	16.2	0.15	K161D	347.258	279.374	160.261	18.120	0.16066	3.11094	7	X
K06D20T	16.6	0.15	K161D	339.848	277.935	167.948	4.244	0.13172	3.12754	5	X
K06D27W	16.2	0.15	K161D	254.409	18.216	167.396	15.318	0.07389	3.18134	4	X
K06D68P	15.5	0.15	K161D	250.248	110.030	92.324	14.943	0.24084	3.16229	5	X
K06D94Q	15.9	0.15	K161D	299.799	311.221	181.758	25.520	0.06729	3.22171	5	X
K06DD6N	17.8	0.15	K161D	188.020	107.952	127.573	5.033	0.08230	2.37529	6	X
K06DD8T	18.2	0.15	K161D	357.498	17.419	59.908	3.793	0.13782	2.32174	5	X
K06DH2F	18.4	0.15	K161D	287.769	15.849	136.149	3.777	0.09223	2.33982	3	X
K06G24Y	18.2	0.15	K161D	291.048	326.230	191.956	8.055	0.15253	2.34930	4	X
K06H21F	18.0	0.15	K161D	309.653	56.067	91.944	3.472	0.16271	2.33521	6	X
K06K99U	18.0	0.15	K161D	333.775	276.486	207.741	20.338	0.09005	1.92886	4	X
K06M09G	17.1	0.15	K161D	31.375	229.404	126.205	14.108	0.27617	2.67631	5	X
K06P07Y	17.3	0.15	K161D	40.522	224.238	114.787	14.779	0.27820	2.68369	3	X
K06Q05M	17.3	0.15	K161D	44.766	262.893	94.966	9.209	0.34343	2.66970	4	X
K06Q29Z	16.4	0.15	K161D	89.812	162.834	141.834	18.568	0.21748	2.62573	5	X
K06Q61K	17.1	0.15	K161D	50.707	135.704	230.122	7.603	0.19058	2.62886	4	X
K06Q75Y	17.2	0.15	K161D	109.382	161.645	136.940	3.520	0.15689	2.60882	6	X
K06Q98L	17.7	0.15	K161D	39.684	185.235	180.687	10.825	0.37517	2.67404	2	X
K06R40G	17.6	0.15	K161D	49.242	304.074	20.152	11.989	0.39381	2.70722	2	X
K06R51F	17.8	0.15	K161D	95.926	131.181	184.875	3.366	0.11464	2.67208	4	X
K06R82M	17.6	0.15	K161D	17.856	25.743	357.606	4.968	0.12463	2.71201	4	X
K06S00F	17.0	0.15	K161D	60.811	97.424	236.829	8.765	0.34331	2.66757	4	X
K06S01V	17.2	0.15	K161D	26.965	213.480	174.188	7.562	0.27645	2.68629	5	X
K06S23G	17.4	0.15	K161D	12.873	39.477	34.085	13.943	0.42265	2.68207	3	X
K06S94H	17.0	0.15	K161D	37.252	341.742	32.392	6.276	0.02635	2.71572	4	X
K06SB0J	16.5	0.15	K161D	42.805	323.205	35.631	14.229	0.26889	2.69138	3	X
K06SBOX	16.6	0.15	K161D	41.535	253.139	107.709	9.334	0.28825	2.69299	5	X
K06SC7O	17.5	0.15	K161D	36.103	319.747	57.443	15.873	0.29326	2.68871	2	X
K06SD4W	16.4	0.15	K161D	94.446	54.584	261.135	11.915	0.15004	2.61714	5	X
K06SG0E	17.7	0.15	K161D	77.888	146.070	176.146	3.976	0.26054	2.68192	4	X
K06SK5Y	17.2	0.15	K161D	22.798	0.734	32.313	17.049	0.18952	2.70053	2	X
K06SQ8S	17.0	0.15	K161D	11.148	108.830	308.687	3.974	0.16283	2.69321	5	X
K06SQ9M	16.7	0.15	K161D	51.029	168.204	199.577	6.480	0.05033	2.71306	5	X
K06SR7H	17.0	0.15	K161D	54.451	197.937	159.921	4.361	0.11403	2.66241	6	X
K06SS3W	17.0	0.15	K161D	41.402	337.552	31.631	26.482	0.13403	2.69425	2	X
K06SS5V	16.9	0.15	K161D	29.114	197.787	197.419	4.134	0.12010	2.66782	8	X
K06ST9W	18.0	0.15	K161D	2.743	243.790	183.173	6.167	0.14676	2.67369	4	X
K06SW3B	17.7	0.15	K161D	23.294	353.770	19.751	16.437	0.28874	2.72592	2	X
K06SX6S	17.4	0.15	K161D	28.361	233.195	168.879	10.453	0.17483	2.66826	4	X
K06Sa5U	17.1	0.15	K161D	43.830	163.370	206.826	11.123	0.19059	2.70791	4	X
K06Sc5G	17.4	0.15	K161D	31.731	318.892	71.297	13.443	0.15500	2.69452	3	X
K06Sc9A	18.1	0.15	K161D	70.735	258.738	70.790	14.052	0.23685	2.69625	3	X
K06T11P	18.0	0.15	K161D	15.739	217.815	200.277	6.885	0.34994	2.68903	3	X
K06T31Z	17.9	0.15	K161D	23.500	180.887	208.701	9.457	0.24736	2.71654	3	X
K06T63Z	16.9	0.15	K161D	58.952	205.230	140.149	10.648	0.28339	2.68773	4	X
K06T67O	17.8	0.15	K161D	31.129	191.211	201.137	13.733	0.24755	2.69460	2	X
K06T73A	17.0	0.15	K161D	48.325	71.974	298.234	3.810	0.21682	2.68779	4	X
K06T98U	17.4	0.15	K161D	49.459	174.451	186.765	1.231	0.19927	2.69821	5	X
K06TC5G	17.0	0.15	K161D	4.760	314.744	120.741	8.456	0.23112	2.68563	6	X
K06U02O	17.1	0.15	K161D	27.645	102.189	268.057	3.255	0.07287	2.74129	6	X
K06U23R	17.5	0.15	K161D	61.096	21.016	316.963	1.819	0.08883	2.72970	3	X
K06U85Q	17.9	0.15	K161D	31.037	138.785	242.640	4.210	0.25105	2.71963	4	X
K06UA3Y	17.3	0.15	K161D	328.608	70.290	50.624	11.071	0.24038	2.71861	4	X
K06UA5N	17.2	0.15	K161D	44.270	308.807	64.423	9.583	0.16612	2.71519	3	X
K06UE2L	16.6	0.15	K161D	223.000	262.499	274.523	5.024	0.01780	2.78463	4	X
K06UI4T	16.5	0.15	K161D	54.288	295.240	68.710	8.865	0.23349	2.69002	4	X
K06UJ1R	16.7	0.15	K161D	20.484	159.392	249.516	12.241	0.18859	2.69601	4	X
K06UR3M	16.8	0.15	K161D	1.856	49.238	357.325	3.987	0.06552	2.77861	6	X
K06UX0Q	16.5	0.15	K161D	208.831	86.571	143.592	10.122	0.16404	2.64233	10	X
K06UX5P	16.8	0.15	K161D	49.667	251.850	91.443	13.628	0.32942	2.71287	3	X
K06UX7Z	16.2	0.15	K161D	147.150	220.730	62.990	14.000	0.01920	2.70286	5	X
K06V04Z	16.8	0.15	K161D	20.749	180.023	217.002	13.251	0.19277	2.70465	4	X
K06V10R	16.9	0.15	K161D	55.196	123.810	232.587	12.341	0.22438	2.71185	3	X
K06V59S	17.1	0.15	K161D	17.230	301.194	66.995	13.914	0.23683	2.79532	3	X
K06V64J	16.7	0.15	K161D	72.665	259.549	69.056	15.660	0.20927	2.75508	5	X
K06V72O	18.1	0.15	K161D	40.692	290.271	60.261	17.740	0.38794	2.73911	2	X
K06V76N	17.1	0.15	K161D	114.167	70.473	222.920	11.355	0.17411	2.73236	3	X
K06V94A	15.8	0.15	K161D	35.868	192.244	254.627	21.223	0.03753	2.63414	6	X
K06VA3E	17.2	0.15	K161D	330.681	146.945	295.450	3.627	0.13806	2.81540	3	X
K06VE5A	15.9	0.15	K161D	76.040	74.560	270.925	9.131	0.19682	2.69204	5	X
K06VE8X	17.5	0.15	K161D	4.604	219.661	197.795	9.598	0.28691	2.73985	2	X
K06VH3T	17.7	0.15	K161D	31.070	317.402	67.378	1.452	0.08433	2.76449	4	X
K06W30E	16.8	0.15	K161D	5.535	340.108	96.501	15.061	0.33940	2.73725	3	X
K06W44T	17.5	0.15	K161D	341.427	326.610	121.596	5.694	0.08467	2.74913	2	X
K06W87O	16.8	0.15	K161D	247.157	92.800	86.296	9.720	0.04122	2.74964	5	X
K06WD7Y	17.6	0.15	K161D	16.064	181.644	225.860	2.689	0.19371	2.74107	2	X
K06WE2L	16.8	0.15	K161D	36.129	165.922	214.447	9.156	0.17831	2.73425	6	X
K06WG1K	16.6	0.15	K161D	98.495	244.053	67.531	10.136	0.17918	2.72503	5	X
K06WH6X	17.7	0.15	K161D	326.235	308.017	174.860	6.798	0.24825	2.74069	5	X
K06WK4C	16.6	0.15	K161D	339.023	199.820	266.262	8.093	0.12325	2.76650	5	X
K06Y42S	17.2	0.15	K161D	348.303	11.949	83.026	14.187	0.24599	2.78287	7	X
K07B72Z	17.4	0.15	K161D	11.951	294.969	151.331	12.638	0.46862	2.73846	3	X
K07D23T	17.0	0.15	K161D	317.119	329.086	160.087	10.872	0.08228	2.88434	5	X
K07F46U	17.7	0.15	K161D	96.567	116.860	197.795	6.176	0.13699	2.25887	4	X
K07G16R	16.0	0.15	K161D	196.772	356.236	219.538	16.872	0.15048	3.17208	5	X
K07H55Z	16.5	0.15	K161D	127.811	118.614	183.089	11.633	0.06901	3.13825	6	X
K07H66M	17.3	0.15	K161D	141.477	180.701	89.632	6.577	0.19477	2.31571	4	X
K07H67O	18.0	0.15	K161D	92.565	104.983	196.357	13.257	0.35648	2.35836	5	X
K07J01E	16.4	0.15	K161D	154.367	75.469	211.001	9.440	0.02276	3.06141	4	X
K07J17C	17.2	0.15	K161D	17.952	198.884	217.266	6.663	0.06104	2.26162	6	X
K07L09S	17.7	0.15	K161D	84.869	176.042	142.035	2.834	0.22905	2.36553	4	X
K07Q11K	18.1	0.15	K161D	43.790	250.606	116.820	0.739	0.28166	2.46932	5	X
K07RE7Z	17.5	0.15	K161D	56.702	266.777	87.217	5.738	0.21205	2.46269	4	X
K07RF7S	17.9	0.15	K161D	47.235	295.503	67.871	4.725	0.23860	2.46951	4	X

K07RH8J	17.9	0.15	K161D	98.352	169.242	150.564	6.796	0.11988	2.44827	5	X
K07RN6B	17.7	0.15	K161D	61.432	220.422	121.410	2.631	0.19998	2.46998	6	X
K07S18U	18.1	0.15	K161D	42.108	295.631	74.613	2.032	0.24140	2.52108	6	X
K07T32P	18.4	0.15	K161D	19.358	217.206	185.790	2.530	0.19126	2.46682	3	X
K07TH0Q	16.8	0.15	K161D	355.101	170.797	249.100	12.900	0.23887	2.57217	3	X
K07TJ6G	17.6	0.15	K161D	74.091	186.767	150.395	1.699	0.09798	2.51969	6	X
K07TJL3M	16.7	0.15	K161D	177.917	357.942	228.295	13.027	0.11709	2.54535	7	X
K07TN4L	16.2	0.15	K161D	21.065	216.745	175.333	2.674	0.24738	3.99114	5	X
K07TT9W	16.3	0.15	K161D	11.989	184.730	218.248	2.100	0.26560	3.94720	2	X
K07Tj1P	15.3	0.15	K161D	23.002	122.294	253.968	14.143	0.28621	3.97770	4	X
K07U43E	17.7	0.15	K161D	345.782	32.338	38.170	9.836	0.12013	2.52850	3	X
K07V08C	17.0	0.15	K161D	355.797	87.229	13.954	29.276	0.30188	2.60043	3	X
K07V55V	17.2	0.15	K161D	37.726	282.764	96.260	5.298	0.15259	2.52596	5	X
K07V58P	17.8	0.15	K161D	233.944	309.499	241.319	19.485	0.05266	1.94553	3	X
K07V64T	17.2	0.15	K161D	357.696	9.665	59.922	15.365	0.15838	2.55513	3	X
K07V85Y	18.1	0.15	K161D	77.409	115.238	227.147	19.981	0.09870	1.91685	3	X
K07VD3C	16.0	0.15	K161D	31.380	174.703	202.309	8.574	0.22192	3.93947	3	X
K07V6G6P	17.3	0.15	K161D	72.105	264.816	72.928	10.065	0.13884	2.55327	4	X
K07V6K6K	17.8	0.15	K161D	63.590	114.922	235.173	18.681	0.13055	1.91447	4	X
K07V7L5H	17.3	0.15	K161D	355.541	127.134	290.632	2.957	0.09130	2.56796	5	X
K07V03C	17.1	0.15	K161D	21.198	234.282	154.753	8.674	0.27788	2.54482	5	X
K07V06B	15.7	0.15	K161D	23.237	293.435	95.167	9.934	0.27119	3.97732	4	X
K07V56G	17.1	0.15	K161D	25.547	136.953	262.934	8.916	0.10632	2.55198	4	X
K07VT1X	17.5	0.15	K161D	226.774	152.051	68.192	24.843	0.06254	1.92708	4	X
K07VU0Y	16.6	0.15	K161D	43.355	267.668	108.667	15.166	0.13150	2.53250	5	X
K07VV3F	17.5	0.15	K161D	342.474	194.656	269.545	3.421	0.18114	2.53873	5	X
K07VW3L	18.0	0.15	K161D	24.754	342.941	56.927	2.438	0.22908	2.52293	3	X
K07W01J	18.5	0.15	K161D	32.797	155.296	240.117	19.362	0.10319	1.92652	4	X
K07W11F	16.9	0.15	K161D	15.559	179.708	213.240	15.241	0.12856	2.56427	4	X
K07W13B	16.8	0.15	K161D	347.450	178.610	270.583	14.142	0.10211	2.52160	4	X
K07W23V	16.1	0.15	K161D	22.692	300.787	100.294	4.482	0.23118	3.92723	3	X
K07W41C	16.0	0.15	K161D	46.131	260.159	110.066	4.372	0.10760	3.96362	5	X
K07W49T	17.8	0.15	K161D	34.795	278.414	105.823	3.636	0.10680	2.54092	5	X
K07X15B	17.2	0.15	K161D	26.167	301.750	109.058	11.921	0.19221	2.56258	5	X
K07X20V	16.4	0.15	K161D	334.809	352.502	80.788	20.243	0.15791	2.61138	5	X
K07X45U	17.6	0.15	K161D	319.650	359.078	123.261	4.143	0.17553	2.58378	6	X
K07X52V	17.0	0.15	K161D	331.862	335.549	106.897	13.825	0.21136	2.63653	4	X
K07Y18R	17.1	0.15	K161D	353.348	194.708	257.342	6.640	0.16958	2.54696	6	X
K07Y19B	17.3	0.15	K161D	337.205	235.702	232.868	3.663	0.14490	2.55617	5	X
K07Y38S	17.1	0.15	K161D	143.899	193.973	77.557	6.729	0.05940	2.65705	5	X
K07Y70A	18.3	0.15	K161D	354.633	326.256	115.669	6.446	0.20950	2.60063	2	X
K08A79M	17.1	0.15	K161D	2.122	285.342	135.920	15.167	0.10544	2.65993	3	X
K08A90Q	17.2	0.15	K161D	21.769	275.670	130.996	4.902	0.12622	2.60355	4	X
K08A93H	17.4	0.15	K161D	289.963	61.595	91.457	7.159	0.13308	2.62193	4	X
K08AA6U	17.7	0.15	K161D	15.151	115.384	305.133	3.407	0.19909	2.57882	5	X
K08B02F	16.8	0.15	K161D	2.714	88.740	332.703	22.547	0.46706	2.59821	3	X
K08B17R	16.5	0.15	K161D	318.836	325.602	119.132	15.762	0.07331	2.69117	6	X
K08B44T	18.0	0.15	K161D	316.582	63.052	75.798	5.303	0.26552	2.60903	4	X
K08C07L	17.4	0.15	K161D	324.923	122.680	334.682	4.469	0.17926	2.66675	3	X
K08C09Z	16.3	0.15	K161D	343.234	308.164	137.147	13.487	0.08254	2.67568	6	X
K08C13X	16.9	0.15	K161D	1.964	305.622	105.177	3.468	0.15703	2.70896	4	X
K08C21H	17.0	0.15	K161D	337.009	58.960	39.950	11.760	0.27820	2.64439	5	X
K08C40D	17.5	0.15	K161D	341.041	310.504	150.021	5.092	0.21120	2.61833	4	X
K08C58Z	17.3	0.15	K161D	14.471	253.564	151.698	14.961	0.18735	2.65821	3	X
K08CC3V	17.8	0.15	K161D	338.824	312.066	148.602	13.922	0.16022	2.63404	2	X
K08CE6P	17.9	0.15	K161D	5.920	252.058	180.860	6.200	0.20691	2.62436	3	X
K08CG0X	17.6	0.15	K161D	345.086	212.896	249.168	1.904	0.22344	2.63952	4	X
K08CH7H	17.3	0.15	K161D	321.211	9.275	117.861	13.900	0.22906	2.63856	3	X
K08CIOF	16.9	0.15	K161D	352.812	180.304	266.274	12.792	0.21801	2.61191	4	X
K08D30S	17.7	0.15	K161D	31.174	250.126	137.580	5.217	0.23849	2.61909	2	X
K08D40Z	17.2	0.15	K161D	309.206	356.250	127.588	5.957	0.03461	2.65872	5	X
K08D54Q	16.3	0.15	K161D	257.870	82.741	120.326	16.024	0.25586	2.67620	4	X
K08E01D	16.6	0.15	K161D	267.191	184.154	326.862	7.234	0.15993	2.76997	4	X
K08E05K	16.9	0.15	K161D	12.469	4.013	105.819	8.449	0.25069	2.54986	4	X
K08E33B	16.6	0.15	K161D	320.112	216.389	271.273	11.392	0.23067	2.63065	4	X
K08EG4Q	16.8	0.15	K161D	261.164	47.434	137.469	10.000	0.21064	2.71930	4	X
K08F21X	17.4	0.15	K161D	89.307	209.286	111.842	5.647	0.18552	2.11215	5	X
K08F23N	16.4	0.15	K161D	99.269	235.940	59.176	8.011	0.20043	3.02530	5	X
K08F46J	17.6	0.15	K161D	330.634	308.668	173.917	13.141	0.20899	2.64364	6	X
K08F78V	17.0	0.15	K161D	340.261	264.588	193.411	11.574	0.14392	2.72280	4	X
K08F80N	17.5	0.15	K161D	293.588	325.165	195.987	11.981	0.12329	2.70527	5	X
K08GD0J	16.1	0.15	K161D	79.783	274.794	14.166	15.636	0.26387	3.14559	4	X
K08GE1W	16.9	0.15	K161D	337.998	40.285	67.026	8.821	0.18521	2.77131	6	X
K08GE5Z	17.0	0.15	K161D	320.626	264.939	219.736	14.274	0.10633	2.76542	6	X
K08H08L	16.8	0.15	K161D	309.224	5.060	149.193	9.583	0.23950	2.68894	4	X
K08H68E	16.3	0.15	K161D	82.952	116.770	205.792	16.530	0.26351	3.09106	3	X
K08H70Q	16.1	0.15	K161D	130.823	203.734	70.290	14.134	0.23202	3.08618	6	X
K08K01F	16.4	0.15	K161D	111.809	208.039	91.918	13.544	0.13570	3.04855	5	X
K08K34N	15.9	0.15	K161D	41.870	231.309	118.348	21.595	0.24662	3.19439	5	X
K08K39G	16.4	0.15	K161D	44.846	234.545	143.773	11.087	0.08585	2.98973	5	X
K08Q18T	17.9	0.15	K161D	89.414	152.601	169.620	7.976	0.18007	2.23877	7	X
K08R43D	18.5	0.15	K161D	41.809	226.104	154.724	2.112	0.07681	2.25849	7	X
K08R78J	17.9	0.15	K161D	34.700	155.654	234.749	6.138	0.12517	2.27974	4	X
K08RA0P	18.5	0.15	K161D	4.910	43.399	8.162	6.611	0.20158	2.28622	3	X
K08RE6M	18.0	0.15	K161D	46.760	43.590	328.936	3.105	0.16811	2.25107	5	X
K08S02B	18.1	0.15	K161D	78.253	212.059	117.292	4.865	0.20129	2.24876	5	X
K08S04N	17.6	0.15	K161D	28.979	0.337	45.679	6.491	0.14091	2.24699	5	X
K08S07Z	17.5	0.15	K161D	45.353	121.243	251.457	3.286	0.19161	2.25189	5	X
K08S280	17.9	0.15	K161D	71.597	38.710	288.778	1.946	0.32202	2.26484	5	X
K08S84N	18.0	0.15	K161D	46.735	11.077	343.415	6.032	0.11852	2.29924	2	X
K08SB5B	17.6	0.15	K161D	129.205	223.121	56.746	5.780	0.15281	2.26249	4	X
K08SL7S	18.1	0.15	K161D	43.262	172.364	196.114	4.972	0.24952	2.31693	2	X
K08SO1X	18.3	0.15	K161D	71.266	173.711	155.829	5.526	0.24496	2.26983	4	X
K08T10C	19.1	0.15	K161D	29.836	149.072	232.235	4.209	0.26236	2.29285	4	X
K08T27B	18.4	0.15	K161D	25.908	169.409	265.056	38.024	0.36059	1.77277	2	X
K08T53Y	18.3	0.15	K161D	41.923	258.949	125.886	2.140	0.19204	2.26644	6	X
K08T76M	19.0	0.15	K161D	42.241	191.936	181.624	1.531	0.15606	2.27517	4	X

K08TD8L	18.0	0.15	K161D	55.772	358.502	345.351	4.236	0.13506	2.31209	3	X
K08TF6M	17.9	0.15	K161D	61.014	98.114	234.687	20.038	0.27427	2.28009	3	X
K08TH4A	18.7	0.15	K161D	355.887	254.479	182.436	2.761	0.08326	2.26861	4	X
K08U19K	19.1	0.15	K161D	354.831	239.407	208.143	4.078	0.20850	2.28287	3	X
K08U20J	18.9	0.15	K161D	17.363	206.761	216.338	3.573	0.10958	2.25926	4	X
K08U53E	18.7	0.15	K161D	9.830	15.831	48.703	3.138	0.21975	2.31361	6	X
K08UI4N	18.2	0.15	K161D	71.194	85.828	236.653	3.512	0.22777	2.33626	5	X
K08UL9L	18.3	0.15	K161D	16.439	7.248	30.864	6.713	0.19305	2.32094	2	X
K08UM2E	17.5	0.15	K161D	41.975	352.496	20.333	7.051	0.16484	2.31584	3	X
K08UM8Z	17.8	0.15	K161D	326.095	196.111	255.049	4.842	0.10430	2.35944	4	X
K08UP8C	17.9	0.15	K161D	39.854	321.857	42.198	6.765	0.24581	2.32264	3	X
K08UQ8X	17.9	0.15	K161D	65.363	144.169	208.690	7.473	0.15616	2.29040	5	X
K08US1R	18.1	0.15	K161D	343.227	211.933	231.765	9.427	0.17483	2.33955	4	X
K08US4C	18.6	0.15	K161D	32.044	292.058	99.983	1.881	0.15642	2.29405	5	X
K08Ua8Q	17.5	0.15	K161D	20.718	327.569	63.472	12.408	0.22003	2.33562	3	X
K08V23U	18.4	0.15	K161D	49.186	161.857	198.303	3.982	0.23362	2.31936	2	X
K08V33S	18.3	0.15	K161D	24.886	255.070	144.172	2.607	0.22225	2.30593	5	X
K08V60A	17.6	0.15	K161D	60.268	110.402	228.863	3.659	0.24962	2.31683	5	X
K08W00G	18.3	0.15	K161D	15.025	325.718	88.821	8.109	0.29321	2.30042	3	X
K08W66P	18.1	0.15	K161D	48.027	291.570	77.548	4.112	0.22356	2.31062	4	X
K08W70Y	18.3	0.15	K161D	359.333	81.651	354.745	0.915	0.15491	2.34245	8	X
K08W76L	17.9	0.15	K161D	47.620	191.941	181.090	2.481	0.14592	2.31584	7	X
K08WDOB	18.0	0.15	K161D	301.773	53.044	94.515	4.451	0.15500	2.33157	5	X
K08Y12R	17.9	0.15	K161D	277.244	97.723	71.065	5.024	0.16143	2.34402	4	X
K08Y43B	18.6	0.15	K161D	48.839	276.491	81.004	7.216	0.24444	2.33251	2	X
K08Y52P	18.8	0.15	K161D	7.186	38.039	30.150	1.962	0.23042	2.36395	5	X
K08Y90O	18.1	0.15	K161D	346.898	323.605	131.735	1.889	0.13943	2.35510	5	X
K08Y93O	18.4	0.15	K161D	298.131	47.577	97.183	3.522	0.13645	2.38857	3	X
K08YA4J	18.2	0.15	K161D	30.133	285.574	107.507	4.897	0.09092	2.40989	4	X
K08YA9A	17.6	0.15	K161D	321.531	4.539	113.698	7.144	0.08065	2.40189	6	X
K08YC3S	18.0	0.15	K161D	312.833	334.148	152.592	2.474	0.13466	2.38605	6	X
K08YF5M	17.5	0.15	K161D	290.096	31.793	117.928	7.054	0.06781	2.41548	4	X
K09A18J	18.3	0.15	K161D	356.011	319.541	123.770	2.963	0.15740	2.35201	3	X
K09A25R	18.0	0.15	K161D	17.642	279.311	126.461	3.922	0.12425	2.39157	8	X
K09A33L	17.7	0.15	K161D	344.407	330.958	120.062	6.189	0.09940	2.41016	5	X
K09B30G	17.8	0.15	K161D	33.236	271.656	100.478	3.503	0.21995	2.43013	6	X
K09B74J	16.9	0.15	K161D	3.987	176.430	256.218	9.829	0.17313	2.37176	6	X
K09BA0R	18.1	0.15	K161D	30.681	229.392	157.062	2.299	0.16999	2.41436	4	X
K09BA6U	17.5	0.15	K161D	11.777	155.469	270.916	2.665	0.14006	2.38765	6	X
K09BC6N	18.2	0.15	K161D	320.318	14.552	115.728	2.194	0.11670	2.39884	6	X
K09BE9W	18.5	0.15	K161D	312.042	335.778	158.392	2.343	0.15913	2.42711	6	X
K09C22S	17.9	0.15	K161D	334.149	300.760	162.008	5.439	0.10093	2.41224	6	X
K09D63N	17.5	0.15	K161D	89.562	182.352	135.890	4.092	0.10975	2.54677	6	X
K09F77A	17.6	0.15	K161D	218.423	356.940	216.528	11.345	0.09576	2.60044	7	X
K09F78L	16.1	0.15	K161D	207.658	142.865	89.751	28.938	0.14961	2.53757	8	X
K09G04Y	17.7	0.15	K161D	219.124	359.217	215.499	5.727	0.15130	2.59751	4	X
K09G05W	17.0	0.15	K161D	74.747	278.285	64.414	5.334	0.10699	2.65624	6	X
K09O09H	16.0	0.15	K161D	40.656	171.040	192.409	12.198	0.28542	3.11775	4	X
K09O21S	16.6	0.15	K161D	51.973	78.381	246.842	8.928	0.22132	3.13761	7	X
K09P08P	16.2	0.15	K161D	33.169	241.793	137.479	3.404	0.18009	3.11443	8	X
K09P09D	16.5	0.15	K161D	60.797	326.998	355.240	6.145	0.16680	3.20887	4	X
K09Q30H	16.1	0.15	K161D	77.628	77.355	244.808	17.333	0.25556	3.04041	5	X
K09Q42H	16.0	0.15	K161D	24.739	217.007	168.795	17.389	0.22360	3.14496	5	X
K09Q51P	16.4	0.15	K161D	0.663	236.351	179.675	14.003	0.27303	3.20389	2	X
K09Q58N	17.0	0.15	K161D	53.499	231.413	133.450	2.183	0.18464	3.10081	4	X
K09S31G	16.5	0.15	K161D	103.446	192.280	108.338	2.568	0.16935	3.15004	7	X
K09S99D	16.2	0.15	K161D	16.878	217.732	190.117	9.615	0.09371	3.12709	6	X
K09SA0K	16.1	0.15	K161D	32.973	130.324	260.382	11.311	0.03184	3.05956	5	X
K09SB4M	16.6	0.15	K161D	88.433	112.270	208.774	8.214	0.11066	3.13005	4	X
K09SF4E	16.5	0.15	K161D	17.226	225.284	184.810	4.802	0.13319	3.13937	6	X
K09SJ1Q	16.7	0.15	K161D	75.543	142.652	206.165	9.042	0.10183	3.08472	5	X
K09SL6N	16.9	0.15	K161D	31.984	213.911	179.252	5.520	0.05429	3.09742	4	X
K09SM5Q	15.7	0.15	K161D	34.626	145.297	249.064	21.293	0.22084	3.11195	4	X
K09SP6X	16.8	0.15	K161D	31.877	196.738	188.012	15.640	0.26009	3.15245	2	X
K09SR7X	16.8	0.15	K161D	84.437	164.425	168.280	7.762	0.09505	3.11962	6	X
K09ST9T	16.6	0.15	K161D	10.490	215.009	208.174	13.780	0.25315	3.19130	3	X
K09SV8B	16.4	0.15	K161D	321.863	270.303	190.319	9.543	0.04043	3.14210	6	X
K09Sa1K	15.5	0.15	K161D	41.912	336.824	37.086	27.471	0.16002	3.17547	3	X
K09Sa1Q	15.9	0.15	K161D	23.722	307.845	106.571	28.297	0.42177	3.22092	2	X
K09Sa4D	16.5	0.15	K161D	51.414	243.987	122.977	6.776	0.10462	3.17500	4	X
K09T02Q	15.3	0.15	K161D	80.045	270.732	43.782	13.943	0.12513	3.18443	5	X
K09T33Y	16.2	0.15	K161D	50.816	117.126	247.323	15.096	0.24276	3.14989	4	X
K09U16Y	15.0	0.15	K161D	34.016	122.267	249.827	22.149	0.18375	3.21001	3	X
K09U17B	15.2	0.15	K161D	71.526	271.337	61.177	25.878	0.27884	3.15825	5	X
K09U24J	16.2	0.15	K161D	6.202	212.676	213.331	26.162	0.13238	3.21551	4	X
K09U54X	16.2	0.15	K161D	344.252	247.080	219.730	10.198	0.17730	3.17833	6	X
K09UD1L	15.5	0.15	K161D	25.681	331.950	71.870	21.511	0.19844	3.21593	5	X
K09V10R	15.8	0.15	K161D	108.202	85.021	219.772	24.438	0.24842	3.15815	5	X
K09V37V	17.0	0.15	K161D	357.322	70.498	40.392	6.918	0.43245	3.24920	4	X
K09V73A	15.3	0.15	K161D	62.039	277.175	53.285	26.378	0.24435	3.20277	3	X
K09V77Z	16.0	0.15	K161D	56.569	294.036	64.768	26.756	0.19982	3.21863	4	X
K09WB0B	15.3	0.15	K161D	332.407	32.871	86.197	28.173	0.15140	3.21007	4	X
K09WI6B	15.6	0.15	K161D	31.327	304.690	113.528	22.346	0.29489	3.09764	4	X
K09WJ7S	16.3	0.15	K161D	59.097	163.243	195.020	9.849	0.08085	3.34841	5	X
K10B12H	16.3	0.15	K161D	40.731	211.648	168.149	13.507	0.13135	3.20227	6	X
K10B25V	15.4	0.15	K161D	356.140	9.787	64.641	28.407	0.13303	3.21271	6	X
K10C80F	17.9	0.15	K161D	286.865	15.190	145.855	4.578	0.14198	2.20593	4	X
K10CO9D	17.8	0.15	K161D	270.368	46.759	113.006	3.313	0.03560	2.19968	6	X
K10GA8S	17.7	0.15	K161D	196.203	20.849	213.896	6.078	0.06405	2.36428	4	X
K10GF8K	17.6	0.15	K161D	196.037	151.292	84.378	8.864	0.13107	2.34410	5	X
K10J69O	15.0	0.15	K161D	22.998	104.653	248.126	31.619	0.26926	2.88597	3	X
K10J82J	17.9	0.15	K161D	176.503	52.510	198.519	6.521	0.09539	2.38908	7	X
K10JE8G	17.0	0.15	K161D	94.450	239.675	51.499	4.677	0.24756	2.59519	6	X
K10K74M	17.1	0.15	K161D	56.280	183.247	167.840	7.272	0.25670	2.76025	4	X
K10L42W	17.8	0.15	K161D	37.542	219.970	163.500	8.302	0.23078	2.76400	3	X
K10N34K	16.8	0.15	K161D	79.327	177.547	156.548	10.623	0.22501	2.76885	6	X
K10OC6L	16.6	0.15	K161D	193.159	98.175	134.684	22.117	0.09301	2.46321	5	X

K10P62D	17.2	0.15	K161D	56.041	192.380	150.778	3.355	0.18820	2.79081	3	X
K10Q01G	17.0	0.15	K161D	122.361	59.415	221.691	15.207	0.16407	2.65285	4	X
K10R28L	16.9	0.15	K161D	346.415	94.791	322.999	5.424	0.01794	2.77432	6	X
K10RA5N	16.9	0.15	K161D	283.435	329.035	198.958	14.638	0.13552	2.72390	5	X
K10RG2Q	18.0	0.15	K161D	34.227	205.213	175.324	9.568	0.27605	2.80023	2	X
K10S08M	17.9	0.15	K161D	64.644	166.599	185.751	3.640	0.10851	2.73099	4	X
K10S09V	17.1	0.15	K161D	67.928	171.101	183.133	12.424	0.11592	2.74771	4	X
K10S34N	17.2	0.15	K161D	138.236	153.800	131.014	5.373	0.04809	2.75012	7	X
K10S37S	17.1	0.15	K161D	113.043	110.698	190.363	14.492	0.21837	2.70811	4	X
K10T09J	17.2	0.15	K161D	21.356	221.217	191.163	11.924	0.13085	2.76041	6	X
K10T10F	17.0	0.15	K161D	36.600	351.747	8.460	7.215	0.08605	2.87650	4	X
K10TB3D	17.1	0.15	K161D	72.660	137.699	209.156	7.260	0.07486	2.80682	5	X
K10TB5V	18.5	0.15	K161D	331.142	270.990	216.702	20.129	0.13156	1.80887	3	X
K10TH6A	16.3	0.15	K161D	359.350	185.619	232.178	11.838	0.10287	2.85700	5	X
K10TI4W	17.0	0.15	K161D	33.762	209.434	189.195	13.345	0.09662	2.77728	6	X
K10U61W	16.1	0.15	K161D	35.728	170.573	244.274	12.100	0.28640	2.77818	3	X
K10U62P	16.9	0.15	K161D	20.656	86.836	287.544	6.924	0.12435	2.99626	2	X
K10V23U	16.8	0.15	K161D	7.364	156.468	237.270	14.534	0.19867	3.03933	3	X
K10V48A	16.7	0.15	K161D	21.865	331.145	61.934	11.014	0.09953	3.01837	4	X
K10V48S	16.8	0.15	K161D	57.035	235.422	108.523	1.860	0.26385	2.98342	4	X
K10V48W	16.5	0.15	K161D	76.507	122.791	217.068	11.766	0.21097	2.78151	7	X
K10V58C	16.1	0.15	K161D	346.028	33.413	46.807	11.589	0.13343	2.98905	4	X
K10VC6F	17.1	0.15	K161D	41.843	140.612	223.894	10.738	0.16973	3.00105	2	X
K10VF7B	17.1	0.15	K161D	10.930	132.782	254.935	8.333	0.15851	3.03987	4	X
K10VH6Q	16.2	0.15	K161D	36.781	313.872	16.817	10.800	0.40359	3.02134	3	X
K10VI7B	16.2	0.15	K161D	320.993	82.426	15.740	10.294	0.17897	3.03830	5	X
K10VJ5S	16.4	0.15	K161D	349.159	349.303	102.490	17.038	0.23393	3.09251	2	X
K10VK3G	15.8	0.15	K161D	266.155	245.432	252.090	9.003	0.03244	2.96270	8	X
K10VL4Y	17.2	0.15	K161D	23.611	151.053	232.546	5.432	0.17588	2.96438	4	X
K10W35C	17.3	0.15	K161D	339.706	0.319	93.338	4.005	0.11189	2.96354	4	X
K10X08R	16.8	0.15	K161D	9.951	313.049	104.144	11.089	0.09830	3.00038	3	X
K10X21T	16.2	0.15	K161D	30.020	325.384	49.904	15.571	0.21136	3.01685	4	X
K10X39P	15.6	0.15	K161D	278.569	279.837	227.846	20.887	0.26499	3.15009	5	X
K10X58K	15.8	0.15	K161D	328.145	335.015	99.331	18.765	0.19109	3.16417	6	X
K10X66R	16.5	0.15	K161D	17.835	218.464	185.147	5.394	0.16291	3.00989	5	X
K10X83G	16.0	0.15	K161D	59.903	266.193	84.389	16.517	0.22032	2.97723	6	X
K11A04F	17.2	0.15	K161D	6.163	331.567	83.533	15.370	0.18714	3.10170	2	X
K11A07T	16.5	0.15	K161D	23.801	283.490	112.346	8.185	0.17033	3.12165	5	X
K11A08H	17.0	0.15	K161D	20.760	301.860	90.775	2.229	0.16264	3.16466	5	X
K11A19X	16.5	0.15	K161D	1.333	2.256	66.877	4.348	0.18951	3.08471	4	X
K11A21Q	16.2	0.15	K161D	357.155	109.232	316.109	8.970	0.20645	3.16137	4	X
K11A52S	17.1	0.15	K161D	343.679	353.025	105.165	7.669	0.25978	3.09153	4	X
K11A65A	16.4	0.15	K161D	286.742	34.245	111.945	11.142	0.08617	3.20251	5	X
K11B05Q	17.6	0.15	K161D	351.201	326.763	117.128	5.151	0.24846	3.08692	2	X
K11B05Z	16.2	0.15	K161D	7.287	300.549	120.757	2.237	0.14926	3.13403	8	X
K11B08U	15.9	0.15	K161D	61.879	244.945	113.888	13.620	0.10716	3.21358	6	X
K11B12N	16.9	0.15	K161D	13.447	269.449	140.642	9.409	0.28410	3.08621	4	X
K11B24O	18.8	0.15	K161D	255.821	178.577	91.508	20.367	0.27772	1.38038	4	X
K11B28H	15.9	0.15	K161D	312.745	6.662	118.196	10.418	0.15427	3.13269	6	X
K11B37P	16.6	0.15	K161D	340.356	318.962	137.714	17.708	0.19753	3.17311	3	X
K11B54H	16.1	0.15	K161D	315.933	355.254	130.373	18.177	0.22993	3.18603	5	X
K11B95C	16.4	0.15	K161D	266.322	66.068	114.089	18.180	0.10324	3.19127	5	X
K11BB7M	16.4	0.15	K161D	301.773	50.209	84.757	11.576	0.07594	3.14829	5	X
K11BB8S	16.5	0.15	K161D	332.814	0.494	107.865	11.957	0.17434	3.15478	3	X
K11C40T	16.8	0.15	K161D	10.450	295.755	128.471	8.099	0.13396	3.16941	5	X
K11C44A	16.7	0.15	K161D	13.317	267.533	150.654	10.131	0.16605	3.17323	3	X
K11D11D	16.5	0.15	K161D	352.013	297.536	160.141	8.938	0.40488	3.11788	6	X
K11D31F	16.3	0.15	K161D	350.453	308.586	150.516	10.910	0.23271	3.15449	4	X
K11F08V	17.0	0.15	K161D	348.937	103.497	15.918	20.868	0.12896	1.93234	5	X
K11H05Q	17.6	0.15	K161D	161.727	158.740	99.545	8.472	0.32525	2.15186	4	X
K11J17C	18.3	0.15	K161D	119.560	132.778	157.925	5.165	0.20511	2.18158	4	X
K11L18R	18.0	0.15	K161D	100.214	226.729	84.046	4.822	0.15966	2.19434	4	X
K11M06Z	17.7	0.15	K161D	115.754	348.251	289.425	3.831	0.12425	2.31379	8	X
K11O12F	17.7	0.15	K161D	10.011	282.186	143.433	8.271	0.08613	2.23659	5	X
K11O24Y	17.9	0.15	K161D	60.997	224.685	124.082	9.123	0.24209	2.35468	3	X
K11O35D	17.9	0.15	K161D	49.992	31.320	300.317	6.027	0.24725	2.41538	3	X
K11O39S	18.0	0.15	K161D	62.505	158.592	193.007	6.631	0.23264	2.36222	3	X
K11O44M	17.4	0.15	K161D	71.816	229.199	116.041	7.013	0.14702	2.29272	8	X
K11Q01Z	19.2	0.15	K161D	46.697	164.740	199.378	1.902	0.23191	2.41619	2	X
K11Q46R	17.0	0.15	K161D	81.045	103.326	235.332	9.483	0.18071	2.35382	4	X
K11Q68U	17.8	0.15	K161D	53.850	178.435	181.167	2.001	0.22831	2.40193	5	X
K11Q77V	18.1	0.15	K161D	39.249	180.526	192.919	6.179	0.16952	2.40142	4	X
K11Q88T	18.3	0.15	K161D	35.051	20.644	4.341	0.932	0.19754	2.41683	3	X
K11Q97G	17.8	0.15	K161D	112.072	109.805	180.918	4.334	0.25339	2.36435	5	X
K11Q98Y	17.1	0.15	K161D	118.968	240.536	61.244	7.322	0.10306	2.35095	4	X
K11R02K	17.9	0.15	K161D	9.753	230.834	188.617	5.948	0.09500	2.36518	6	X
K11R16U	18.7	0.15	K161D	40.482	143.740	223.927	5.200	0.23166	2.41768	2	X
K11S02K	18.8	0.15	K161D	17.701	114.786	295.861	1.640	0.21447	2.41057	5	X
K11S09P	18.5	0.15	K161D	11.810	192.292	224.761	5.013	0.22369	2.40903	2	X
K11S10S	18.2	0.15	K161D	40.430	91.924	288.063	1.191	0.18477	2.41026	4	X
K11S11K	17.5	0.15	K161D	68.080	51.025	292.184	4.681	0.21231	2.41560	5	X
K11S18P	18.1	0.15	K161D	326.244	257.942	215.644	7.179	0.16212	2.34122	4	X
K11S27H	18.1	0.15	K161D	56.213	265.651	82.492	2.367	0.22979	2.41774	4	X
K11S27J	16.9	0.15	K161D	71.345	178.370	152.382	10.619	0.23968	2.40454	8	X
K11S39X	18.4	0.15	K161D	22.584	135.378	271.376	1.475	0.20518	2.40220	4	X
K11S53U	18.1	0.15	K161D	17.036	2.036	31.517	14.413	0.27786	2.55613	2	X
K11S58U	19.1	0.15	K161D	16.927	202.146	218.378	2.422	0.30521	2.41659	3	X
K11S61O	18.1	0.15	K161D	218.197	4.293	216.579	7.944	0.13472	2.22791	6	X
K11S71B	17.7	0.15	K161D	56.391	129.667	246.889	3.678	0.16592	2.39014	8	X
K11S83Z	18.0	0.15	K161D	27.363	33.401	11.516	6.633	0.18936	2.40287	4	X
K11SA2Y	17.6	0.15	K161D	21.080	345.366	46.284	6.186	0.24068	2.46814	4	X
K11SA7K	16.6	0.15	K161D	44.028	315.618	40.718	12.442	0.11288	2.61353	3	X
K11SA7R	17.3	0.15	K161D	41.825	155.874	224.302	5.949	0.21816	2.42432	5	X
K11SB0L	18.2	0.15	K161D	77.626	156.651	173.231	2.463	0.20795	2.38886	3	X
K11SD1S	18.2	0.15	K161D	49.956	186.088	192.128	5.875	0.14458	2.44637	4	X
K11SD9O	17.9	0.15	K161D	11.299	241.007	180.328	2.323	0.20571	2.45141	6	X
K11SH5P	17.9	0.15	K161D	21.033	281.865	121.909	2.228	0.18800	2.44527	5	X

K11SK8N	17.3	0.15	K161D	27.950	358.985	46.076	5.760	0.20760	2.43931	4	X
K11SN6A	17.3	0.15	K161D	42.787	127.666	259.817	6.974	0.17571	2.44555	4	X
K11SO2V	17.7	0.15	K161D	76.659	271.359	43.905	0.919	0.21800	2.44575	4	X
K11T11Z	17.1	0.15	K161D	6.186	354.745	61.040	7.313	0.11441	2.46988	3	X
K11T16X	18.4	0.15	K161D	42.044	232.336	142.509	1.908	0.19297	2.41777	2	X
K11U31J	16.8	0.15	K161D	16.868	171.159	226.533	11.289	0.05469	2.58777	3	X
K11U47J	16.9	0.15	K161D	83.582	74.704	230.017	13.559	0.11186	2.60077	7	X
K11U78D	18.6	0.15	K161D	29.620	347.205	18.548	6.438	0.26685	2.56642	3	X
K11U80Z	19.7	0.15	K161D	24.666	168.754	213.655	3.827	0.33251	2.53968	3	X
K11U88L	17.4	0.15	K161D	38.881	325.871	51.028	13.875	0.18823	2.54600	3	X
K11UA3P	16.2	0.15	K161D	79.625	294.948	35.040	12.014	0.16925	2.54974	5	X
K11UB3K	16.7	0.15	K161D	5.200	182.274	226.852	21.445	0.01931	2.59266	3	X
K11UB6O	17.4	0.15	K161D	74.214	80.239	226.773	13.003	0.21018	2.55467	5	X
K11UB8Y	18.0	0.15	K161D	3.759	201.082	229.940	1.912	0.18243	2.46062	4	X
K11UC3H	17.3	0.15	K161D	75.789	284.010	49.837	5.420	0.20488	2.41480	5	X
K11UC9U	17.8	0.15	K161D	344.225	64.589	29.024	3.709	0.16542	2.54892	4	X
K11UG8X	17.0	0.15	K161D	10.855	169.054	221.934	12.125	0.05302	2.60585	7	X
K11UI2W	16.2	0.15	K161D	71.849	296.052	39.018	14.519	0.03572	2.62138	5	X
K11UJ3J	17.4	0.15	K161D	3.959	357.717	50.454	5.502	0.16686	2.58969	4	X
K11UJ9F	16.5	0.15	K161D	93.184	54.270	257.570	13.474	0.10715	2.60507	7	X
K11UK0O	16.9	0.15	K161D	63.932	323.824	12.976	6.344	0.22281	2.56754	6	X
K11UK4W	16.4	0.15	K161D	27.329	262.057	102.796	15.135	0.14983	2.62335	5	X
K11UM8V	17.8	0.15	K161D	352.381	35.802	53.800	3.168	0.16570	2.43987	6	X
K11UO7O	17.6	0.15	K161D	44.876	310.335	53.258	2.951	0.12617	2.57787	5	X
K11UQ2H	17.2	0.15	K161D	16.091	159.532	240.921	11.117	0.10738	2.57596	5	X
K11UQ8K	17.9	0.15	K161D	10.443	165.390	232.738	13.887	0.25507	2.60063	2	X
K11UU0O	18.1	0.15	K161D	38.867	319.190	41.121	14.397	0.27939	2.57802	2	X
K11UW7Y	18.4	0.15	K161D	13.049	343.325	55.453	4.934	0.27685	2.57793	3	X
K11Ua2C	17.2	0.15	K161D	35.145	168.647	196.807	2.811	0.26075	2.58932	10	X
K11Ue5P	17.5	0.15	K161D	37.451	97.563	265.800	1.931	0.16427	2.59122	4	X
K11Ud4M	16.5	0.15	K161D	20.766	4.511	90.070	7.457	0.28907	2.58136	7	X
K11Ue6G	17.8	0.15	K161D	65.892	204.045	135.467	3.279	0.21415	2.46695	5	X
K11V16O	18.1	0.15	K161D	347.768	180.044	258.100	5.763	0.27351	2.59648	3	X
K11W01A	17.3	0.15	K161D	44.457	109.209	244.308	12.109	0.20644	2.62222	3	X
K11W11N	17.0	0.15	K161D	136.344	206.399	65.743	9.945	0.13864	2.57551	5	X
K11W16L	16.9	0.15	K161D	8.207	197.722	211.149	4.733	0.25628	2.59163	5	X
K11W20J	16.7	0.15	K161D	157.115	349.822	244.677	8.202	0.09303	2.77117	4	X
K11W27E	16.4	0.15	K161D	69.906	241.525	87.006	13.074	0.18239	2.62917	3	X
K11W29A	16.5	0.15	K161D	55.252	140.216	221.653	14.556	0.14813	2.54288	5	X
K11W29F	17.4	0.15	K161D	359.046	160.957	249.638	10.862	0.17140	2.60124	2	X
K11W40C	17.7	0.15	K161D	253.987	35.110	154.188	12.023	0.08151	2.42377	5	X
K11W43Q	17.0	0.15	K161D	9.657	161.867	237.194	12.758	0.17957	2.62807	5	X
K11W49H	17.6	0.15	K161D	320.322	39.349	78.049	5.319	0.15060	2.57792	5	X
K11W52J	17.1	0.15	K161D	77.215	268.087	67.022	12.034	0.17589	2.55392	4	X
K11W55A	18.2	0.15	K161D	24.000	295.085	113.957	2.330	0.16671	2.47017	4	X
K11W58Z	18.0	0.15	K161D	27.405	264.638	135.127	3.189	0.10092	2.54584	4	X
K11W62W	17.4	0.15	K161D	10.300	346.058	81.572	4.899	0.18493	2.54152	3	X
K11W62Z	16.8	0.15	K161D	5.635	269.460	123.538	13.212	0.17483	2.64178	3	X
K11W68W	17.1	0.15	K161D	33.511	337.586	49.065	5.015	0.24151	2.54257	4	X
K11W70D	16.6	0.15	K161D	11.365	172.441	239.096	16.100	0.22857	2.58083	3	X
K11W70E	16.3	0.15	K161D	44.759	165.467	221.986	12.771	0.09707	2.53517	5	X
K11W71A	17.0	0.15	K161D	50.807	310.188	46.061	4.681	0.17571	2.59473	8	X
K11W71O	18.5	0.15	K161D	359.013	9.320	66.714	6.301	0.19607	2.53897	3	X
K11W82H	17.7	0.15	K161D	304.113	60.776	71.121	10.039	0.12677	2.57696	6	X
K11W84F	17.8	0.15	K161D	6.294	264.413	156.304	2.606	0.24199	2.56322	5	X
K11W89R	16.6	0.15	K161D	51.588	305.359	66.139	8.889	0.19516	2.54968	4	X
K11W91G	17.3	0.15	K161D	325.772	56.125	79.251	31.592	0.28942	2.61032	4	X
K11W94U	17.6	0.15	K161D	310.265	15.493	103.168	5.398	0.05199	2.58219	4	X
K11W97B	17.2	0.15	K161D	4.390	168.940	239.410	4.042	0.22181	2.59558	3	X
K11WB5L	16.8	0.15	K161D	23.528	128.476	273.514	11.135	0.17903	2.55289	3	X
K11WB6E	17.7	0.15	K161D	17.912	331.037	70.549	6.520	0.19863	2.58150	4	X
K11WC1E	17.7	0.15	K161D	23.235	284.696	110.832	5.558	0.22938	2.54755	4	X
K11WE0W	17.2	0.15	K161D	343.193	317.120	136.653	6.638	0.10139	2.55498	7	X
K11WE0Y	16.9	0.15	K161D	331.010	199.512	270.027	2.382	0.09472	2.60357	8	X
K11WE8B	17.1	0.15	K161D	61.468	270.809	79.210	8.692	0.16395	2.58193	5	X
K11X01S	17.1	0.15	K161D	68.000	135.394	210.162	4.929	0.21536	2.57037	6	X
K11X02O	17.7	0.15	K161D	272.985	332.176	194.744	8.565	0.10370	2.57940	3	X
K11Y01J	17.8	0.15	K161D	24.503	145.858	234.853	4.307	0.34327	2.58608	3	X
K11Y04A	17.8	0.15	K161D	346.877	222.666	224.079	7.295	0.26967	2.69404	2	X
K11Y07W	16.8	0.15	K161D	9.280	165.901	258.334	6.563	0.17247	2.62659	5	X
K11Y27T	17.1	0.15	K161D	17.775	110.898	287.149	9.442	0.17851	2.74015	5	X
K11Y28P	17.0	0.15	K161D	55.512	273.290	83.220	5.837	0.15148	2.59345	5	X
K11Y29O	16.7	0.15	K161D	31.451	275.387	110.320	15.315	0.15233	2.68305	3	X
K11Y32M	18.2	0.15	K161D	347.276	333.917	126.581	5.736	0.24601	2.60310	5	X
K11Y45B	17.5	0.15	K161D	25.415	147.800	247.219	5.709	0.21638	2.67351	4	X
K11Y50T	16.4	0.15	K161D	95.799	34.286	285.127	2.520	0.15801	2.53362	6	X
K11Y58H	18.0	0.15	K161D	316.046	45.214	102.212	3.000	0.23542	2.63769	3	X
K11Y62S	19.7	0.15	K161D	12.888	356.919	58.688	21.515	0.57834	2.51110	2	X
K11Y66G	16.7	0.15	K161D	33.699	287.973	96.907	13.668	0.15256	2.73349	2	X
K11Y69M	16.7	0.15	K161D	356.898	356.304	88.219	13.207	0.16124	2.61631	6	X
K11Y78S	17.0	0.15	K161D	30.207	252.345	131.676	12.642	0.17892	2.73934	5	X
K12A04J	15.9	0.15	K161D	7.538	281.185	105.636	15.993	0.15823	2.83552	8	X
K12A14W	16.5	0.15	K161D	344.895	20.514	70.573	16.027	0.16021	2.69031	3	X
K12A16X	18.4	0.15	K161D	5.007	342.643	96.725	10.865	0.34136	2.56953	3	X
K12A18X	16.8	0.15	K161D	10.729	335.440	84.643	13.986	0.20082	2.65107	5	X
K12A21C	17.4	0.15	K161D	347.297	228.767	234.744	6.848	0.15371	2.61284	6	X
K12B21P	17.2	0.15	K161D	11.543	215.696	210.278	5.289	0.31221	2.58641	4	X
K12B30M	17.1	0.15	K161D	221.335	65.544	136.576	4.736	0.04163	2.81041	7	X
K12B37Q	16.7	0.15	K161D	37.759	347.274	73.388	8.664	0.23188	2.55744	5	X
K12B57V	17.0	0.15	K161D	43.204	250.439	123.640	13.429	0.18562	2.68925	5	X
K12B58O	16.7	0.15	K161D	38.103	273.136	111.388	13.229	0.11834	2.73397	6	X
K12B62D	16.4	0.15	K161D	122.897	166.730	130.682	13.348	0.13501	2.92637	8	X
K12B67C	16.6	0.15	K161D	234.570	59.264	144.965	9.157	0.09674	2.78736	4	X
K12B78R	17.2	0.15	K161D	347.389	136.180	322.169	8.495	0.25388	2.67831	5	X
K12BD1P	17.1	0.15	K161D	2.135	9.603	65.204	14.007	0.25748	2.64275	4	X
K12C29O	17.0	0.15	K161D	50.496	225.107	146.296	7.005	0.07844	2.86933	5	X
K12C40R	15.9	0.15	K161D	161.095	127.146	137.782	12.136	0.06110	3.00778	8	X

K12D05T	17.3	0.15	K161D	316.432	36.117	83.274	5.260	0.12095	2.86454	5	X
K12D10M	16.5	0.15	K161D	53.579	237.420	138.435	11.932	0.06103	2.97972	4	X
K12D10Y	15.9	0.15	K161D	303.987	109.735	359.732	10.721	0.00558	3.11360	6	X
K12D40E	16.5	0.15	K161D	195.433	62.931	179.296	11.211	0.12160	3.14713	7	X
K12D40Y	15.5	0.15	K161D	74.586	219.291	118.092	12.520	0.07571	3.15547	8	X
K12D54U	15.8	0.15	K161D	262.919	115.745	61.645	10.807	0.08137	2.99878	6	X
K12D68M	17.0	0.15	K161D	15.310	263.206	158.518	9.885	0.14349	2.76037	4	X
K12D78B	16.6	0.15	K161D	322.338	6.337	122.993	14.940	0.14129	2.75531	3	X
K12D79X	16.5	0.15	K161D	328.909	70.749	51.909	17.967	0.26116	2.76311	4	X
K12D84S	16.6	0.15	K161D	167.260	91.073	169.762	5.399	0.03153	3.10996	7	X
K12D97R	15.5	0.15	K161D	330.556	326.649	138.350	11.771	0.11428	2.96759	7	X
K12E07G	15.2	0.15	K161D	197.704	140.406	88.590	18.254	0.08778	3.20962	8	X
K12F08U	16.8	0.15	K161D	319.636	284.230	181.186	6.491	0.03831	3.01772	6	X
K12F31K	16.5	0.15	K161D	247.328	82.629	109.821	6.203	0.11065	3.12456	5	X
K12F41X	15.7	0.15	K161D	269.969	20.568	150.335	9.865	0.07557	3.00976	7	X
K12F55T	16.1	0.15	K161D	27.832	295.750	104.014	6.329	0.03505	3.15468	7	X
K12F57J	15.4	0.15	K161D	65.506	272.722	88.925	16.782	0.09247	3.23770	7	X
K12F63R	16.5	0.15	K161D	252.170	27.454	148.156	2.850	0.10940	3.13180	9	X
K12F63W	16.6	0.15	K161D	88.988	164.851	178.520	11.835	0.10088	3.11282	5	X
K12F76E	15.8	0.15	K161D	345.062	265.099	168.589	15.412	0.07818	3.13137	9	X
K12G08H	16.6	0.15	K161D	283.422	306.954	205.062	4.473	0.09796	3.09683	5	X
K12G12R	15.5	0.15	K161D	319.302	60.587	69.769	22.753	0.11946	3.10604	7	X
K12G13F	16.9	0.15	K161D	323.255	69.903	65.223	24.766	0.31165	2.76217	3	X
K12G36O	15.7	0.15	K161D	279.121	299.203	228.801	13.754	0.19587	3.08026	3	X
K12H18P	16.3	0.15	K161D	300.467	348.956	161.248	11.137	0.16328	3.12705	6	X
K12H62F	16.4	0.15	K161D	257.551	18.277	179.205	11.828	0.15448	3.05743	3	X
K12H63R	15.6	0.15	K161D	343.697	27.356	69.299	15.335	0.12781	3.12774	6	X
K12H79H	15.6	0.15	K161D	302.414	283.511	222.095	11.402	0.19802	3.12842	8	X
K12J16J	15.5	0.15	K161D	328.382	24.523	86.294	28.206	0.13985	3.21176	5	X
K12J23X	15.8	0.15	K161D	273.218	313.392	220.822	27.446	0.27719	3.17868	4	X
K12J25D	16.4	0.15	K161D	282.231	320.609	216.835	11.000	0.26978	3.06346	5	X
K12J25E	16.0	0.15	K161D	277.388	324.009	218.403	12.900	0.25788	3.06638	5	X
K12K37A	16.5	0.15	K161D	305.677	72.438	78.561	11.340	0.25423	2.97793	5	X
K12K37B	16.0	0.15	K161D	307.536	49.930	86.529	9.999	0.20517	3.10508	6	X
K12L07V	15.4	0.15	K161D	308.135	284.402	298.398	29.035	0.21718	2.57744	6	X
K12R15F	19.9	0.15	K161D	51.704	297.885	29.059	5.370	0.40791	2.05463	2	X
K12R32D	17.9	0.15	K161D	31.456	53.322	359.362	23.022	0.10011	1.94131	5	X
K12T15R	17.7	0.15	K161D	356.442	239.323	212.302	20.376	0.10094	1.94521	4	X
K12T25H	18.4	0.15	K161D	185.477	61.228	186.899	21.521	0.05903	1.95511	5	X
K12T78Y	18.4	0.15	K161D	70.179	71.272	230.377	4.474	0.38884	2.14358	3	X
K12T8Z	18.8	0.15	K161D	3.983	206.152	227.245	18.083	0.06494	2.00955	3	X
K12V84Q	18.3	0.15	K161D	53.239	315.697	36.116	4.274	0.22428	2.14175	5	X
K12X58O	18.4	0.15	K161D	101.820	191.209	120.818	1.739	0.10367	2.14649	5	X
K12XB2D	21.1	0.15	K161D	322.211	76.715	97.902	3.719	0.36588	1.32309	3	X
K12XB9F	17.6	0.15	K161D	7.576	9.501	57.152	5.009	0.11379	2.18145	8	X
K12XE4U	18.3	0.15	K161D	347.360	160.416	293.907	5.550	0.22798	2.18072	3	X
K12Y00X	16.8	0.15	K161D	79.566	185.022	152.621	7.749	0.14915	2.24418	9	X
K13A24P	17.8	0.15	K161D	60.362	278.331	87.309	6.616	0.09203	2.15115	8	X
K13A29S	17.8	0.15	K161D	296.360	54.731	97.016	5.856	0.17791	2.30660	4	X
K13A58S	17.3	0.15	K161D	309.295	184.661	307.124	8.308	0.08632	2.27064	6	X
K13A80R	18.0	0.15	K161D	344.308	352.777	103.176	5.431	0.10379	2.20842	6	X
K13A98L	18.0	0.15	K161D	36.230	328.093	66.110	6.507	0.15267	2.19852	5	X
K13AB5Z	18.0	0.15	K161D	262.003	81.455	98.969	4.884	0.13245	2.32198	4	X
K13AB6Y	17.9	0.15	K161D	8.420	19.812	36.052	4.091	0.19161	2.26026	6	X
K13AB7C	16.9	0.15	K161D	264.363	144.544	26.996	7.696	0.05239	2.35358	7	X
K13B37V	16.6	0.15	K161D	183.893	108.889	131.615	5.903	0.14821	2.55694	9	X
K13B62J	17.5	0.15	K161D	34.584	271.565	125.249	6.506	0.17657	2.25354	7	X
K13B76B	17.5	0.15	K161D	149.299	170.094	100.459	6.107	0.11455	2.44949	5	X
K13C21X	17.4	0.15	K161D	6.368	334.541	87.640	7.448	0.09543	2.36750	4	X
K13C44X	18.0	0.15	K161D	36.826	5.106	23.794	3.752	0.15580	2.32636	4	X
K13C63T	17.8	0.15	K161D	310.214	300.996	181.243	6.893	0.06402	2.34587	9	X
K13C70A	17.3	0.15	K161D	315.382	30.246	89.889	2.163	0.03889	2.35288	9	X
K13C71P	18.2	0.15	K161D	319.887	305.385	177.737	4.815	0.08320	2.26341	5	X
K13C79C	17.6	0.15	K161D	311.232	149.785	312.651	5.853	0.08233	2.37376	4	X
K13C94W	18.7	0.15	K161D	1.694	282.567	153.281	6.846	0.18588	2.24861	3	X
K13CB2P	16.3	0.15	K161D	123.655	282.968	345.387	12.782	0.08627	2.69941	5	X
K13CB2Z	16.4	0.15	K161D	101.078	174.470	130.922	16.226	0.12351	2.58542	6	X
K13CC0C	18.1	0.15	K161D	324.997	34.791	79.236	8.998	0.11181	2.26638	5	X
K13CD2A	16.4	0.15	K161D	54.172	156.751	191.886	4.700	0.20570	2.57318	10	X
K13CE3A	18.5	0.15	K161D	322.061	204.079	257.684	1.733	0.12239	2.39306	5	X
K13CG6G	17.4	0.15	K161D	49.565	214.280	152.479	5.813	0.09633	2.53865	5	X
K13CHOZ	18.1	0.15	K161D	339.298	251.446	194.563	2.587	0.16550	2.36806	3	X
K13CI4L	18.0	0.15	K161D	315.023	320.591	169.546	3.866	0.13751	2.33579	8	X
K13CI8K	16.3	0.15	K161D	312.372	7.271	106.438	6.927	0.10572	2.39717	8	X
K13CL9S	18.0	0.15	K161D	197.129	111.475	123.436	4.619	0.05370	2.40986	6	X
K13E10Z	16.8	0.15	K161D	112.671	103.021	206.874	8.715	0.17275	2.52547	5	X
K13E16A	17.4	0.15	K161D	51.535	245.206	119.789	4.406	0.09598	2.54792	5	X
K13E20Y	16.3	0.15	K161D	75.727	122.996	209.077	6.889	0.19833	2.55426	6	X
K13E26P	17.9	0.15	K161D	336.316	33.957	74.810	3.127	0.13930	2.36289	5	X
K13E31V	17.6	0.15	K161D	326.511	48.936	59.484	5.676	0.17896	2.42060	2	X
K13E40R	17.2	0.15	K161D	240.018	119.782	74.458	7.932	0.04962	2.31293	7	X
K13E72B	18.0	0.15	K161D	1.975	46.719	8.715	9.708	0.21343	2.41327	5	X
K13E85Q	17.6	0.15	K161D	317.720	65.054	59.422	5.600	0.17535	2.35884	6	X
K13EA1G	18.2	0.15	K161D	342.440	19.590	79.389	6.284	0.17574	2.31048	4	X
K13EC1H	18.0	0.15	K161D	311.659	296.562	188.278	4.313	0.13162	2.45387	4	X
K13F01E	16.0	0.15	K161D	151.969	235.461	6.795	16.611	0.09515	3.07342	6	X
K13F15H	15.5	0.15	K161D	139.051	233.885	8.467	11.027	0.17371	3.15129	7	X
K13F25Z	18.0	0.15	K161D	335.965	250.904	227.238	4.964	0.16385	2.24698	5	X
K13G08W	16.9	0.15	K161D	163.261	95.892	172.776	4.364	0.02925	2.56935	10	X
K13G13B	16.8	0.15	K161D	228.543	143.316	61.734	14.667	0.12384	2.59686	5	X
K13G26N	16.9	0.15	K161D	202.229	150.059	74.149	7.572	0.08941	2.70051	6	X
K13G35J	15.8	0.15	K161D	4.065	219.294	291.239	41.196	0.48939	2.13895	4	X
K13G36U	16.6	0.15	K161D	204.719	126.778	92.448	7.835	0.13529	2.71700	5	X
K13G74O	16.9	0.15	K161D	196.846	105.196	131.905	13.853	0.07466	2.70092	4	X
K13G81Z	16.1	0.15	K161D	161.382	149.752	121.097	14.174	0.09472	2.73103	6	X
K13G84T	15.0	0.15	K161D	125.285	212.576	69.209	17.456	0.16196	3.08674	8	X
K13G85V	16.3	0.15	K161D	302.995	85.389	48.962	14.418	0.04171	2.68506	6	X

K13G86R	16.9	0.15	K161D	232.800	142.432	71.256	14.326	0.12902	2.60545	5	X
K13GA0A	16.2	0.15	K161D	137.155	183.585	89.325	10.939	0.20213	3.16372	4	X
K13GB2B	16.3	0.15	K161D	136.370	48.661	223.468	27.102	0.24007	3.17548	4	X
K13GB3H	15.6	0.15	K161D	159.368	196.680	41.184	9.739	0.05808	3.12841	8	X
K13GDOH	17.1	0.15	K161D	265.077	90.534	80.205	6.395	0.13196	2.60721	6	X
K13GD2A	16.6	0.15	K161D	129.739	183.752	102.640	9.648	0.11836	2.77323	5	X
K13GD4B	16.7	0.15	K161D	149.336	66.057	209.753	8.670	0.03542	2.73947	9	X
K13H09G	16.2	0.15	K161D	134.373	149.701	134.466	13.480	0.11950	2.77161	4	X
K13H18S	16.6	0.15	K161D	257.516	107.217	76.287	12.974	0.02160	2.68473	6	X
K13H30A	16.1	0.15	K161D	51.419	118.361	226.080	15.210	0.23153	3.17490	7	X
K13H55Q	16.9	0.15	K161D	109.789	77.182	218.333	9.113	0.20905	3.12660	5	X
K13H91X	16.6	0.15	K161D	16.918	203.343	203.206	32.966	0.19565	2.62239	4	X
K13HE2K	17.4	0.15	K161D	77.157	140.887	188.630	6.391	0.12974	3.05386	5	X
K13J02B	15.1	0.15	K161D	14.979	255.752	144.323	26.078	0.26716	3.16400	3	X
K13J11U	16.1	0.15	K161D	68.560	302.041	44.355	13.964	0.09115	3.01844	4	X
K13J13F	16.1	0.15	K161D	44.760	282.080	91.631	9.838	0.04227	3.06269	6	X
K13J19T	16.0	0.15	K161D	70.560	145.275	198.894	11.293	0.09421	3.17719	6	X
K13J23O	15.9	0.15	K161D	49.053	279.360	101.488	6.781	0.11418	2.98857	9	X
K13J27M	17.1	0.15	K161D	261.234	104.571	72.633	4.771	0.22875	2.62061	7	X
K13J45A	16.0	0.15	K161D	49.505	253.041	129.629	2.528	0.10738	2.95913	9	X
K13J61S	15.5	0.15	K161D	137.870	204.658	73.285	12.899	0.05139	3.12523	6	X
K13J63L	15.5	0.15	K161D	130.895	183.942	102.021	19.289	0.19096	3.10897	6	X
K13K02R	16.4	0.15	K161D	281.836	133.250	46.491	5.017	0.17827	2.54843	6	X
K13K09V	16.4	0.15	K161D	206.368	346.841	221.507	9.489	0.09063	3.04111	6	X
K13K10P	15.2	0.15	K161D	0.852	318.809	94.566	26.270	0.10932	3.13827	7	X
K13K14R	16.0	0.15	K161D	28.960	151.993	227.006	9.212	0.10565	3.09830	5	X
K13L03U	16.0	0.15	K161D	187.567	90.288	143.278	23.965	0.01604	3.13131	3	X
K13L03W	16.0	0.15	K161D	65.700	294.611	64.842	10.361	0.10398	3.05871	4	X
K13L10Q	15.7	0.15	K161D	197.747	27.252	202.556	10.113	0.05987	2.98498	4	X
K13L22T	15.4	0.15	K161D	76.122	276.860	71.186	17.469	0.09226	3.18584	9	X
K13L24C	16.1	0.15	K161D	124.913	156.468	145.103	10.438	0.09933	3.09415	5	X
K13L31L	20.4	0.15	K161D	338.048	276.415	208.136	17.730	0.15049	1.37398	3	X
K14D74D	17.6	0.15	K161D	94.646	232.958	73.691	7.200	0.19231	2.21370	9	X
K14F33O	18.6	0.15	K161D	109.852	126.564	189.459	22.150	0.05982	1.93513	3	X
K14F43D	16.8	0.15	K161D	96.019	281.961	353.724	12.160	0.26780	2.63492	4	X
K14F66V	17.7	0.15	K161D	127.844	124.821	153.211	5.351	0.22836	2.34049	6	X
K14G11Y	17.5	0.15	K161D	108.085	242.932	46.816	6.477	0.18114	2.27460	4	X
K14G16U	17.4	0.15	K161D	148.744	122.934	146.443	5.811	0.20647	2.32265	7	X
K14G44S	17.9	0.15	K161D	55.696	180.696	187.602	22.088	0.09399	1.98550	3	X
K14G45L	17.6	0.15	K161D	156.263	77.937	176.186	22.000	0.23955	2.32898	4	X
K14G52Y	18.6	0.15	K161D	359.471	24.941	54.693	22.982	0.05624	1.86072	3	X
K14H01A	16.3	0.15	K161D	97.035	238.797	57.080	30.987	0.31134	2.61185	5	X
K14H01B	17.7	0.15	K161D	275.400	113.155	55.108	22.953	0.04949	1.94383	4	X
K14H02R	17.7	0.15	K161D	274.521	125.425	53.582	22.237	0.12146	1.86429	3	X
K14H47O	18.2	0.15	K161D	85.204	185.941	145.263	3.719	0.09844	2.17814	4	X
K14H65G	18.2	0.15	K161D	81.285	251.687	68.388	4.948	0.14763	2.33189	6	X
K14HA3O	17.7	0.15	K161D	104.408	191.671	110.891	3.616	0.20115	2.38068	7	X
K14HD2Y	18.1	0.15	K161D	277.341	98.056	73.758	23.600	0.05962	1.90849	3	X
K14HI7P	17.2	0.15	K161D	153.765	158.309	111.708	8.105	0.16013	2.22698	8	X
K14J00C	17.7	0.15	K161D	322.423	76.713	56.936	21.918	0.10522	1.86637	3	X
K14J07U	18.5	0.15	K161D	37.042	183.985	203.168	6.771	0.11147	2.16047	2	X
K14J08G	17.8	0.15	K161D	103.640	170.769	131.848	3.373	0.19796	2.45800	6	X
K14J22T	17.4	0.15	K161D	99.284	99.896	203.802	6.056	0.15447	2.55286	6	X
K14J23L	17.0	0.15	K161D	96.943	201.446	108.263	6.185	0.22215	2.62331	5	X
K14J30U	18.6	0.15	K161D	324.724	286.383	198.049	20.970	0.10383	1.86575	4	X
K14J62Y	17.0	0.15	K161D	73.137	193.763	131.902	12.972	0.22961	2.57592	6	X
K14K06N	17.5	0.15	K161D	45.441	301.399	55.623	6.858	0.21495	2.39409	6	X
K14K16W	17.2	0.15	K161D	52.634	163.419	194.182	5.659	0.23677	2.56762	5	X
K14K19K	17.2	0.15	K161D	76.896	95.556	222.892	11.869	0.18794	2.59980	5	X
K14K22S	16.6	0.15	K161D	73.876	195.104	98.988	14.955	0.16175	2.69933	4	X
K14K24W	16.8	0.15	K161D	100.076	236.703	61.672	28.761	0.22511	2.60619	4	X
K14K33P	17.1	0.15	K161D	82.696	236.072	104.490	7.870	0.15344	2.33304	6	X
K14K34P	16.6	0.15	K161D	88.207	158.323	145.965	16.811	0.22739	2.73059	7	X
K14K53O	17.3	0.15	K161D	70.526	231.067	108.172	7.842	0.17684	2.55231	5	X
K14K57T	17.3	0.15	K161D	71.986	137.031	203.250	9.220	0.17146	2.56304	4	X
K14K59D	17.1	0.15	K161D	68.015	123.818	205.235	12.455	0.22519	2.79230	4	X
K14K61Z	16.1	0.15	K161D	91.375	247.117	72.392	19.568	0.23094	2.91256	8	X
K14K74T	16.5	0.15	K161D	60.389	249.920	93.889	14.004	0.18722	2.71908	6	X
K14K82X	17.6	0.15	K161D	49.990	321.229	49.424	6.925	0.13791	2.35432	3	X
K14K84K	17.9	0.15	K161D	344.260	232.365	233.295	18.701	0.11178	1.97860	3	X
K14K85P	17.7	0.15	K161D	125.495	219.016	63.256	3.202	0.19931	2.42658	7	X
K14K86L	16.2	0.15	K161D	118.951	88.701	207.483	12.227	0.19975	2.53546	6	X
K14L00Q	17.0	0.15	K161D	85.140	240.790	80.431	9.784	0.20377	2.61628	3	X
K14L10E	17.0	0.15	K161D	48.346	118.103	222.773	11.001	0.14303	2.71900	4	X
K14L12O	16.2	0.15	K161D	91.215	244.155	78.398	10.422	0.21612	2.57939	8	X
K14L15H	15.9	0.15	K161D	52.821	83.263	287.033	11.462	0.05265	2.85145	7	X
K14L16A	17.1	0.15	K161D	141.811	165.491	114.929	17.314	0.17277	2.62697	4	X
K14L18C	17.2	0.15	K161D	70.593	253.375	86.423	12.957	0.18766	2.53623	5	X
K14L18X	17.1	0.15	K161D	143.198	213.472	60.078	6.811	0.09023	2.21371	6	X
K14L19H	17.5	0.15	K161D	92.261	194.674	116.930	7.204	0.22924	2.65085	4	X
K14L21A	17.5	0.15	K161D	302.429	276.126	240.715	23.027	0.11297	1.92603	3	X
K14M02H	16.6	0.15	K161D	142.111	338.413	273.167	6.832	0.12763	2.46001	8	X
K14M07H	17.6	0.15	K161D	115.136	222.017	70.311	2.605	0.13326	2.44270	5	X
K14M13R	17.5	0.15	K161D	197.594	110.960	122.537	7.280	0.13259	2.42615	5	X
K14M20R	16.6	0.15	K161D	59.648	208.286	148.411	6.161	0.16885	3.04652	4	X
K14M23X	16.6	0.15	K161D	10.376	289.994	123.816	5.370	0.06245	2.79550	10	X
K14M26H	16.7	0.15	K161D	131.937	215.631	70.435	9.554	0.06765	2.70878	6	X
K14M27Z	16.8	0.15	K161D	51.714	106.921	269.331	4.142	0.16895	2.55335	11	X
K14M41A	15.3	0.15	K161D	67.916	257.471	53.832	22.910	0.30702	3.11038	6	X
K14M46R	16.3	0.15	K161D	356.377	204.341	238.269	13.071	0.03468	2.58104	6	X
K14M47N	17.6	0.15	K161D	97.894	145.351	160.881	4.512	0.22640	2.66041	3	X
K14M63H	16.5	0.15	K161D	92.687	203.406	120.535	13.076	0.14549	3.07306	4	X
K14M64S	15.2	0.15	K161D	47.743	301.183	61.644	10.055	0.09802	3.09950	6	X
K14N00Y	16.5	0.15	K161D	55.274	239.276	121.187	10.497	0.19640	2.61872	7	X
K14N03R	16.7	0.15	K161D	61.906	210.905	134.815	9.022	0.22998	2.76606	6	X
K14N09S	17.3	0.15	K161D	53.744	255.177	108.155	3.155	0.10472	2.84148	6	X
K14N17A	16.3	0.15	K161D	39.946	148.757	209.066	10.020	0.29568	2.99015	3	X

K14N20Y	17.2	0.15	K161D	174.596	92.834	163.881	14.652	0.16156	2.44425	5	X
K14N44Q	15.5	0.15	K161D	71.200	122.202	227.344	9.719	0.09802	3.12010	9	X
K14N49S	16.1	0.15	K161D	50.300	166.000	206.878	10.290	0.00807	2.98243	6	X
K14N50Y	17.2	0.15	K161D	115.048	73.358	220.968	2.884	0.07540	2.95818	6	X
K14N58D	15.6	0.15	K161D	141.430	184.917	96.727	10.903	0.01828	2.98943	9	X
K14N58P	16.2	0.15	K161D	117.006	219.138	78.302	12.621	0.07176	3.13364	5	X
K14N59P	16.2	0.15	K161D	122.437	175.113	119.440	9.518	0.20657	2.91269	7	X
K14004Q	16.9	0.15	K161D	48.645	214.189	150.238	5.842	0.08671	3.06784	3	X
K14025K	17.5	0.15	K161D	122.491	177.497	122.662	6.240	0.05840	2.71884	4	X
K14026B	17.2	0.15	K161D	75.584	233.272	116.863	6.563	0.03862	2.73349	6	X
K14030V	17.2	0.15	K161D	28.176	283.452	107.819	6.257	0.02742	2.80592	7	X
K14031C	17.2	0.15	K161D	15.330	288.666	114.552	11.326	0.09803	2.97172	3	X
K14044T	16.9	0.15	K161D	20.020	254.289	149.181	5.233	0.07366	2.81481	8	X
K14045Q	17.0	0.15	K161D	25.269	258.896	131.404	3.567	0.09956	3.05425	5	X
K14046P	16.8	0.15	K161D	6.784	340.496	70.628	2.343	0.16023	3.11944	6	X
K14049H	16.4	0.15	K161D	14.149	319.429	89.965	5.398	0.22956	3.17381	3	X
K14050Z	16.9	0.15	K161D	18.144	288.903	115.753	3.690	0.12492	3.05210	3	X
K14051R	17.7	0.15	K161D	23.277	293.994	110.784	7.865	0.04670	2.78650	4	X
K14054L	17.1	0.15	K161D	1.996	318.917	107.051	3.228	0.08155	2.88843	4	X
K14059X	16.4	0.15	K161D	13.403	19.079	41.074	4.793	0.05750	2.76137	10	X
K14085R	17.5	0.15	K161D	204.773	121.508	101.515	7.447	0.05333	2.46712	5	X
K14092T	16.6	0.15	K161D	141.230	109.009	170.752	5.148	0.08731	2.68732	7	X
K140C0H	16.9	0.15	K161D	19.963	338.448	62.058	3.644	0.11206	2.99231	3	X
K140C0R	16.2	0.15	K161D	1.945	341.756	58.647	4.240	0.25213	3.96350	3	X
K140C2L	16.8	0.15	K161D	325.023	342.190	119.412	5.757	0.02001	2.71720	7	X
K140C7J	16.1	0.15	K161D	50.775	257.619	104.798	12.038	0.09188	3.14616	3	X
K140C7M	16.3	0.15	K161D	315.589	44.045	52.778	5.795	0.11566	3.18840	2	X
K140D5S	16.7	0.15	K161D	191.088	130.804	95.162	5.237	0.02499	2.73593	5	X
K140D7C	16.7	0.15	K161D	29.699	274.228	126.031	12.978	0.09920	2.76464	4	X
K140D9M	17.2	0.15	K161D	134.287	141.018	143.601	5.437	0.08460	2.71991	3	X
K140E1D	16.9	0.15	K161D	51.383	249.278	116.828	10.495	0.11891	3.03105	6	X
K140E8Y	17.5	0.15	K161D	1.104	282.007	141.658	6.634	0.05021	2.70641	4	X
K140F4P	16.9	0.15	K161D	47.403	321.816	55.792	5.120	0.08527	2.77570	6	X
K140G0J	16.8	0.15	K161D	359.560	1.333	70.048	8.297	0.08425	2.68988	3	X
K140G6V	16.5	0.15	K161D	45.854	290.346	89.213	9.965	0.05388	2.78303	5	X
K140I0D	16.6	0.15	K161D	121.678	176.697	126.418	12.973	0.03779	2.91399	6	X
K140I1N	15.6	0.15	K161D	104.742	211.512	94.099	10.415	0.08238	3.16290	3	X
K140I5A	15.4	0.15	K161D	284.517	54.510	82.546	11.713	0.01908	3.14782	9	X
K140M4Z	17.2	0.15	K161D	54.198	279.173	83.632	11.859	0.11547	3.02125	4	X
K140M6M	16.1	0.15	K161D	116.210	213.823	74.597	6.821	0.16103	3.20019	3	X
K140M7M	15.9	0.15	K161D	119.242	215.346	82.984	10.006	0.09687	3.09068	6	X
K140N9P	17.0	0.15	K161D	64.267	242.228	105.124	2.739	0.11270	3.05732	4	X
K140O3C	16.5	0.15	K161D	345.071	15.416	53.825	2.708	0.01720	2.97576	7	X
K140P3A	16.1	0.15	K161D	219.668	194.755	343.932	11.184	0.03077	3.16333	4	X
K140P4B	17.3	0.15	K161D	110.811	226.086	85.029	7.164	0.04564	2.76350	4	X
K140P7O	16.6	0.15	K161D	72.904	256.490	89.110	10.065	0.11264	2.96527	3	X
K140R6Q	15.8	0.15	K161D	342.189	32.989	41.157	12.358	0.07414	3.17833	5	X
K140U3W	17.2	0.15	K161D	349.744	344.632	94.607	6.372	0.03855	2.68803	7	X
K140U8Y	16.8	0.15	K161D	81.216	222.577	119.457	6.518	0.04960	2.73613	11	X
K140V5K	16.5	0.15	K161D	168.906	157.720	107.452	15.546	0.07520	2.68545	4	X
K140W3S	17.3	0.15	K161D	40.221	267.037	114.144	3.182	0.07156	2.87551	7	X
K140W4P	17.1	0.15	K161D	357.966	321.276	112.738	6.500	0.10330	2.72272	6	X
K140X3W	16.2	0.15	K161D	112.372	228.996	80.127	10.978	0.06247	3.04970	4	X
K140Y0R	16.6	0.15	K161D	12.909	36.268	20.618	4.608	0.13754	3.00281	5	X
K140Z3E	17.1	0.15	K161D	90.490	155.497	179.729	4.501	0.04485	2.78244	4	X
K140Z8Q	16.3	0.15	K161D	144.817	100.635	171.751	5.780	0.08003	3.24483	4	X
K140a5W	16.1	0.15	K161D	43.654	238.803	136.525	6.004	0.08058	3.45313	4	X
K140b4V	17.0	0.15	K161D	105.339	195.979	110.985	3.906	0.12123	2.98399	5	X
K14P07Z	17.2	0.15	K161D	159.999	124.907	139.060	13.793	0.15798	2.57588	5	X
K14P13U	15.9	0.15	K161D	94.516	168.618	150.718	14.329	0.18878	3.16225	6	X
K14P18H	16.3	0.15	K161D	29.865	263.887	135.696	10.152	0.11056	3.15323	6	X
K14P37R	15.7	0.15	K161D	10.858	277.421	142.354	11.795	0.05612	3.20807	8	X
K14P40S	16.4	0.15	K161D	309.757	327.093	160.309	11.254	0.05632	3.06299	3	X
K14P58M	16.0	0.15	K161D	137.705	134.484	145.325	18.919	0.07796	3.13199	4	X
K14Q45O	17.2	0.15	K161D	81.814	205.520	142.838	12.551	0.05572	2.66242	4	X
K14Q71Q	16.8	0.15	K161D	84.925	154.303	178.989	7.872	0.07264	3.01562	3	X
K14Q90T	16.8	0.15	K161D	77.553	173.306	176.026	10.908	0.09951	3.01506	6	X
K14Q99D	16.4	0.15	K161D	71.866	179.125	178.305	9.771	0.06440	2.92820	8	X
K14QD3Q	16.2	0.15	K161D	295.305	350.279	154.560	11.282	0.05599	3.03830	3	X
K14QH4U	16.6	0.15	K161D	232.588	66.027	127.799	2.872	0.06373	3.20795	3	X
K14QI5S	16.2	0.15	K161D	287.566	340.166	168.246	15.185	0.07985	2.84072	4	X
K14QJ0Y	16.5	0.15	K161D	92.299	167.020	161.693	13.314	0.11861	3.14778	3	X
K14QL9B	16.3	0.15	K161D	322.064	279.689	191.478	9.336	0.05328	3.17140	4	X
K14QQ4B	15.9	0.15	K161D	196.583	73.069	158.396	26.759	0.17713	3.12115	5	X
K14QY2S	16.2	0.15	K161D	82.555	197.594	142.845	11.986	0.05062	3.03222	4	X
K14QY8C	15.9	0.15	K161D	42.747	294.020	83.438	14.415	0.06445	3.25709	7	X
K14Qe0D	15.8	0.15	K161D	40.539	294.993	98.107	11.854	0.06704	3.07134	5	X
K14Qf2X	16.6	0.15	K161D	346.076	291.692	153.427	12.091	0.05906	3.10321	7	X
K14Qg1L	15.8	0.15	K161D	109.065	151.499	147.941	13.733	0.28619	3.15492	6	X
K14R01J	16.6	0.15	K161D	85.590	188.837	158.226	10.409	0.05368	3.03492	5	X
K14R01O	15.3	0.15	K161D	93.530	220.432	112.221	12.824	0.07470	3.10043	9	X
K14R02T	15.9	0.15	K161D	36.874	254.582	117.244	4.954	0.13873	3.98202	3	X
K14R23D	16.1	0.15	K161D	53.580	295.041	80.797	9.860	0.08277	3.16745	6	X
K14S45L	16.6	0.15	K161D	208.857	95.655	133.483	10.916	0.05723	2.96759	4	X
K14WK2T	21.1	0.15	K161D	250.751	185.644	58.831	23.392	0.06310	0.96565	2	X
K15G13Z	19.8	0.15	K161D	62.337	282.348	44.656	33.497	0.59887	1.82174	2	X
K15K57J	21.6	0.15	K161D	59.793	336.281	14.489	2.628	0.40455	1.55987	2	X
K15O00S	16.9	0.15	K161D	16.723	56.062	307.539	21.337	0.48651	3.08417	4	X
K15O31A	17.0	0.15	K161D	7.922	54.424	328.122	23.137	0.19418	2.28144	5	W
K15Q10V	16.1	0.15	K161D	220.657	319.151	248.776	13.596	0.02613	2.64088	8	X
K15R26Y	16.1	0.15	K161D	31.838	339.546	17.775	16.580	0.19806	3.05574	2	X
K15R31A	16.2	0.15	K161D	56.317	59.544	264.291	7.412	0.17633	3.09527	7	X
K15R35B	17.8	0.15	K161D	46.140	50.611	303.454	6.219	0.14222	2.28784	5	X
K15R83T	19.9	0.15	K161D	13.565	117.792	316.169	12.248	0.30283	1.66216	2	X
K15R91A	16.0	0.15	K161D	7.091	138.390	255.737	9.528	0.19311	3.18670	6	X
K15RA8F	17.8	0.15	K161D	58.605	331.623	13.719	20.910	0.08895	1.97058	3	X
K15RA9L	17.6	0.15	K161D	23.193	27.110	3.800	5.982	0.31910	2.58121	2	X

K15RM8N	16.1	0.15	K161D	348.222	318.865	99.689		2.243	0.12504	3.22343	8	X
K15RN4L	16.0	0.15	K161D	10.555	245.966	158.271		10.426	0.21049	3.16108	8	X
K15RN9G	16.1	0.15	K161D	317.646	302.332	183.039		26.426	0.22309	3.19505	5	X
K15RN9V	16.3	0.15	K161D	23.649	309.309	86.787		15.448	0.12992	2.63559	6	X
K15RN9X	16.8	0.15	K161D	28.804	220.044	176.425		21.863	0.04121	2.60987	5	X
K15ROOF	15.9	0.15	K161D	51.198	206.617	159.543		14.009	0.09200	2.88579	6	X
K15RO2W	17.0	0.15	K161D	30.746	237.539	144.645		10.176	0.21116	2.76531	4	X
K15S06H	17.0	0.15	K161D	21.002	150.811	221.748		9.626	0.22850	3.14239	3	X
K15S08W	16.6	0.15	K161D	24.795	206.766	176.758		11.960	0.19896	2.60662	7	X
K15S19G	17.2	0.15	K161D	17.930	326.418	59.241		9.365	0.32370	2.87920	3	X
K15S19O	17.5	0.15	K161D	36.004	302.934	60.025		12.800	0.24654	2.60020	3	X
K15T08O	18.0	0.15	K161D	347.923	176.988	255.308		3.542	0.24151	2.63338	4	X
K15T18C	15.0	0.15	K161D	334.111	316.551	104.278		19.463	0.08882	3.24458	6	X
K15T23G	16.9	0.15	K161D	19.350	249.965	162.371		12.573	0.27695	2.63037	5	X
K15T71J	16.9	0.15	K161D	53.869	112.049	238.380		3.886	0.17392	2.79030	3	X
K15T75L	17.3	0.15	K161D	309.254	259.117	211.510		5.328	0.00419	2.69942	6	X
K15T76U	17.3	0.15	K161D	18.386	183.377	217.410		4.426	0.16003	2.76172	6	X
K15T77A	15.9	0.15	K161D	74.474	103.788	222.254		17.211	0.16531	3.14485	5	X
K15T77L	16.7	0.15	K161D	20.572	181.632	217.032		15.904	0.11935	2.80583	6	X
K15T77W	16.1	0.15	K161D	349.123	39.536	43.640		9.509	0.20397	2.99432	6	X
K15T78D	15.8	0.15	K161D	354.395	204.930	226.442		11.329	0.14406	3.14670	9	X
K15T79D	17.7	0.15	K161D	348.471	219.341	223.968		2.668	0.09692	2.38797	8	X
K15T79H	16.7	0.15	K161D	11.489	13.667	40.053		4.660	0.12594	2.61069	8	X
K15T83X	17.5	0.15	K161D	32.251	165.147	218.244		17.268	0.14411	2.84284	2	X
K15T87S	17.6	0.15	K161D	29.432	345.950	47.224		8.246	0.20141	2.38031	3	X
K15T87Y	17.7	0.15	K161D	7.927	220.825	202.721		5.113	0.08197	2.37792	4	X
K15T88H	17.6	0.15	K161D	340.746	238.740	218.038		13.098	0.14025	2.54600	4	X
K15T88J	15.9	0.15	K161D	172.211	200.880	49.705		15.190	0.02898	3.02628	7	X
K15T90J	16.1	0.15	K161D	43.115	342.104	35.662		10.865	0.06669	3.03741	6	X
K15T90Q	16.2	0.15	K161D	85.971	290.804	37.628		11.357	0.09752	2.98218	2	X
K15T91C	16.2	0.15	K161D	25.686	4.656	31.859		12.183	0.12416	2.98079	5	X
K15T91D	17.8	0.15	K161D	217.931	349.650	228.603		20.476	0.05025	1.91006	4	X
K15T92W	17.6	0.15	K161D	18.691	33.933	11.129		6.405	0.25944	2.62966	4	X
K15T98H	17.2	0.15	K161D	22.583	334.192	67.642		7.749	0.06677	2.78192	2	X
K15T99R	16.0	0.15	K161D	4.941	206.976	213.462		10.668	0.10734	3.07492	7	X
K15TA1B	17.3	0.15	K161D	64.074	213.932	121.799		5.845	0.25634	2.57378	5	X
K15TA2K	16.1	0.15	K161D	103.760	218.427	85.660		10.919	0.16577	2.71600	6	X
K15TA2N	16.3	0.15	K161D	26.352	334.348	59.540		29.339	0.09331	3.19495	2	X
K15TA4A	17.5	0.15	K161D	62.858	194.513	147.836		7.670	0.24008	2.36207	5	X
K15TA9G	17.9	0.15	K161D	58.299	213.941	152.267		7.554	0.12983	2.27937	4	X
K15TB0A	17.5	0.15	K161D	144.378	228.308	61.827		22.649	0.05067	1.95833	6	X
K15TB3N	17.2	0.15	K161D	1.053	290.272	152.745		9.386	0.24240	2.72319	3	X
K15TB3Q	17.2	0.15	K161D	34.677	193.784	192.513		16.389	0.26327	2.73936	5	X
K15TB4F	15.6	0.15	K161D	0.973	355.660	70.988		13.242	0.11783	3.14032	8	X
K15TC8G	16.8	0.15	K161D	9.107	295.225	115.098		10.452	0.19877	2.76596	5	X
K15TD1K	16.5	0.15	K161D	307.924	51.333	77.311		12.135	0.15732	2.61628	7	X
K15TE2Y	16.4	0.15	K161D	16.252	292.765	112.495		8.800	0.15957	2.91614	4	X
K15TE5U	15.9	0.15	K161D	62.132	327.887	1.677		11.815	0.06367	3.10733	5	X
K15TE5X	16.4	0.15	K161D	106.036	300.713	343.202		5.470	0.09243	2.72943	7	X
K15TE7D	17.5	0.15	K161D	41.458	341.623	9.571		3.831	0.27195	2.60259	4	X
K15TE7O	17.5	0.15	K161D	33.886	165.146	213.635		5.720	0.13431	2.35103	7	X
K15TE8A	16.9	0.15	K161D	356.183	148.207	256.982		4.368	0.02074	2.67181	4	X
K15TG5X	17.4	0.15	K161D	22.583	346.296	39.713		9.877	0.24365	2.69393	3	X
K15TG6H	17.7	0.15	K161D	65.605	128.157	196.870		9.378	0.27345	2.24394	6	X
K15TG9C	17.2	0.15	K161D	126.968	183.565	99.089		6.558	0.18750	2.30416	8	X
K15TH6C	17.7	0.15	K161D	335.135	0.566	96.444		6.905	0.08641	2.39208	2	X
K15TH6L	16.6	0.15	K161D	94.397	242.984	66.612		16.141	0.16272	2.61540	4	X
K15TH7S	16.0	0.15	K161D	295.145	267.056	217.566		15.512	0.19345	3.10237	6	X
K15TI7Y	15.2	0.15	K161D	310.601	26.918	88.889		10.918	0.04949	3.15157	6	X
K15TJ3V	16.1	0.15	K161D	30.131	340.743	28.652		13.067	0.20041	3.21325	5	X
K15TJ5U	16.9	0.15	K161D	359.521	32.904	31.117		13.880	0.19071	2.58129	4	X
K15TJ5V	18.0	0.15	K161D	85.600	303.857	28.979		22.571	0.06285	1.88567	3	X
K15TJ9H	16.5	0.15	K161D	28.232	342.761	28.517		12.314	0.28907	2.45534	8	X
K15TJ9U	18.0	0.15	K161D	93.764	316.832	337.173		4.063	0.18312	2.18401	6	X
K15TJ9V	17.7	0.15	K161D	0.338	46.646	10.556		15.216	0.26007	2.61949	2	X
K15TJ9X	17.9	0.15	K161D	52.965	83.973	259.168		5.190	0.17912	2.26200	6	X
K15TK2D	16.9	0.15	K161D	40.746	138.367	218.535		4.259	0.22141	2.62599	7	X
K15TK2X	16.3	0.15	K161D	20.800	8.422	17.030		10.388	0.24312	3.13163	2	X
K15TK2Z	18.1	0.15	K161D	15.597	182.424	224.916		1.793	0.22528	2.23485	7	X
K15TK3D	17.4	0.15	K161D	20.143	336.896	53.432		14.954	0.26056	2.56830	2	X
K15TK3O	16.3	0.15	K161D	42.766	169.150	209.301		21.657	0.08706	1.89378	6	X
K15TK4W	16.7	0.15	K161D	41.341	332.487	32.643		4.352	0.11476	2.76644	8	X
K15TM3S	17.6	0.15	K161D	26.158	6.404	25.677		6.044	0.22434	2.41296	5	X
K15TN3S	16.0	0.15	K161D	21.788	86.688	284.892		9.238	0.07911	3.20357	5	X
K15TN4E	16.6	0.15	K161D	336.470	214.671	226.600		17.924	0.22765	3.07736	3	X
K15TN4H	17.6	0.15	K161D	69.656	84.435	233.479		13.125	0.17271	2.54705	4	X
K15TN5B	16.0	0.15	K161D	332.537	353.976	91.108		6.527	0.10900	3.17285	2	X
K15TN9S	16.2	0.15	K161D	20.300	151.307	219.299		24.978	0.15349	2.80713	5	X
K15TO2P	17.2	0.15	K161D	60.402	54.969	281.356		8.141	0.18243	2.55796	3	X
K15TO2V	18.4	0.15	K161D	17.085	41.192	359.460		3.019	0.23129	2.42140	4	X
K15TO3B	17.2	0.15	K161D	357.853	13.827	36.893		12.340	0.04318	2.61244	4	X
K15TO3L	17.4	0.15	K161D	16.789	65.275	326.196		0.174	0.29310	3.08630	5	X
K15TO3N	17.3	0.15	K161D	353.850	68.836	5.645		6.836	0.19624	2.63021	6	X
K15TP0H	17.6	0.15	K161D	57.280	251.890	96.831		2.362	0.20050	2.39510	2	X
K15TP2T	17.0	0.15	K161D	1.960	215.491	204.204		10.439	0.18769	2.59972	5	X
K15TP9L	16.2	0.15	K161D	16.094	145.507	240.924		10.352	0.02277	2.76631	7	X
K15TS2E	17.2	0.15	K161D	49.085	11.597	334.159		4.067	0.08108	2.67888	6	X
K15TS7C	18.4	0.15	K161D	12.192	178.474	229.036		19.793	0.11994	1.91628	2	X
K15TT7Y	17.6	0.15	K161D	46.925	41.942	302.687		2.780	0.22031	2.69135	4	X
K15TU3A	15.7	0.15	K161D	8.992	312.482	81.723		8.635	0.31077	3.99376	3	X
K15TU4U	17.3	0.15	K161D	77.289	219.237	99.837		8.120	0.18089	2.30536	6	X
K15TV1Q	16.4	0.15	K161D	319.351	121.900	3.343		13.064	0.12168	2.52978	4	X
K15TW1T	18.3	0.15	K161D	14.980	188.887	221.930		19.812	0.07892	1.99517	3	X
K15TX6T	17.2	0.15	K161D	53.223	280.017	63.075		2.221	0.18931	2.40998	9	X
K15U06O	16.4	0.15	K161D	342.639	21.708	60.564		14.519	0.23074	2.65086	7	X
K15U22N	16.2	0.15	K161D	357.494	355.074	54.151		6.008	0.13633	3.10289	6	X
K15U30D	16.7	0.15	K161D	0.504	336.172	69.603		3.095	0.08461	2.87756	5	

K15U31E	16.6	0.15	K161D	62.139	247.088	83.603	3.145	0.10538	2.99815	7	X
K15U40E	18.2	0.15	K161D	50.020	165.653	176.118	2.380	0.20792	2.54567	3	X
K15U47X	15.2	0.15	K161D	284.636	23.060	117.166	10.280	0.04354	3.17759	8	X
K15U48M	16.8	0.15	K161D	335.376	36.700	73.444	16.964	0.25142	2.78800	6	X
K15U53K	15.9	0.15	K161D	55.966	249.531	77.823	2.578	0.19060	3.19424	11	X
K15U55J	18.4	0.15	K161D	51.760	159.109	182.384	2.408	0.21362	2.37941	2	X
K15U55R	18.1	0.15	K161D	75.538	244.973	69.642	3.191	0.20571	2.21142	5	X
K15U65R	16.2	0.15	K161D	350.088	279.018	162.335	12.253	0.07593	2.65875	5	X
K15U65T	16.1	0.15	K161D	350.616	350.452	90.638	18.799	0.18159	3.15683	5	X
K15U65V	16.2	0.15	K161D	44.398	225.453	137.781	11.941	0.22465	3.08669	2	X
K15U66Z	16.5	0.15	K161D	80.589	247.795	80.156	24.330	0.24455	2.38139	6	X
K15U73A	15.9	0.15	K161D	324.539	272.089	211.255	14.633	0.31612	3.10689	5	X
K15U74S	16.2	0.15	K161D	22.715	113.670	272.896	10.348	0.13106	2.87595	7	X
K15U77C	16.2	0.15	K161D	351.641	28.886	59.487	10.486	0.16543	3.06508	5	X
K15U77G	18.0	0.15	K161D	38.364	95.549	283.765	2.375	0.24772	2.37510	6	X
K15U77K	18.1	0.15	K161D	64.585	229.869	113.800	1.568	0.24857	2.24771	6	X
K15U78A	17.8	0.15	K161D	292.955	285.693	226.901	19.599	0.06850	1.95176	4	X
K15U80C	17.5	0.15	K161D	23.338	297.558	93.691	14.035	0.26664	2.66076	2	X
K15U80J	16.7	0.15	K161D	353.879	303.427	136.202	15.491	0.30862	3.18542	3	X
K15U84F	16.7	0.15	K161D	339.243	174.862	272.962	7.018	0.16969	2.59579	8	X
K15V00C	17.7	0.15	K161D	58.856	143.129	196.909	12.943	0.28806	2.33419	6	X
K15V00T	17.8	0.15	K161D	137.446	221.388	71.622	23.103	0.06010	1.89962	6	X
K15V01E	21.1	0.15	K161D	28.072	273.049	98.475	1.898	0.56888	2.24313	2	X
K15V05U	16.4	0.15	K161D	33.500	232.420	132.416	6.231	0.22370	2.98894	2	X
K15V06Q	17.1	0.15	K161D	46.642	187.666	175.185	11.223	0.14875	2.53476	3	X
K15V25G	16.8	0.15	K161D	27.508	225.738	172.765	11.749	0.19975	2.56255	6	X
K15V25K	17.0	0.15	K161D	28.803	270.427	103.158	7.561	0.22221	2.80860	3	X
K15V25T	16.6	0.15	K161D	115.278	227.287	56.752	13.108	0.18073	2.71724	4	X
K15V26C	16.3	0.15	K161D	49.676	265.872	90.714	6.211	0.14800	3.13307	5	X
K15V26D	16.1	0.15	K161D	343.143	230.016	229.334	11.718	0.21130	3.18799	6	X
K15V29X	18.2	0.15	K161D	357.423	170.096	261.267	5.978	0.17298	2.31030	2	X
K15V29Z	15.1	0.15	K161D	191.347	310.340	270.056	8.036	0.05603	3.16766	12	X
K15V36U	16.3	0.15	K161D	325.388	43.723	53.697	4.955	0.06497	3.08722	5	X
K15V37E	17.3	0.15	K161D	51.257	299.696	50.198	4.829	0.23061	2.62130	6	X
K15V39W	18.0	0.15	K161D	54.354	302.810	50.021	5.822	0.16706	2.56471	3	X
K15V40X	16.3	0.15	K161D	24.272	205.736	188.631	15.256	0.11334	3.03599	4	X
K15V41F	15.4	0.15	K161D	39.317	303.976	70.349	16.524	0.10475	3.10816	3	X
K15V42C	16.9	0.15	K161D	36.673	269.874	103.345	8.569	0.24719	2.79507	2	X
K15V72T	17.3	0.15	K161D	13.388	358.933	63.812	8.587	0.29509	2.61670	3	X
K15V74A	17.3	0.15	K161D	355.105	40.316	29.825	6.650	0.20825	2.35527	7	X
K15V74Q	17.0	0.15	K161D	57.173	213.835	139.163	3.900	0.21906	2.57156	8	X
K15V94F	17.9	0.15	K161D	26.519	203.518	182.078	1.430	0.23800	2.77940	3	X
K15V99G	17.9	0.15	K161D	346.018	356.323	89.122	2.458	0.13100	2.41939	4	X
K15V99T	17.9	0.15	K161D	48.553	196.306	169.439	2.529	0.13103	2.38294	6	X
K15V99W	17.4	0.15	K161D	24.588	224.878	169.885	4.032	0.07525	2.66946	6	X
K15VA1G	16.9	0.15	K161D	39.078	266.575	113.562	6.809	0.08030	2.72594	6	X
K15VA3L	17.6	0.15	K161D	96.482	240.451	78.555	3.745	0.13688	2.16435	6	X
K15VB2U	17.8	0.15	K161D	67.611	219.339	114.553	3.343	0.23122	2.35944	4	X
K15VB2X	17.6	0.15	K161D	39.751	228.894	140.522	4.007	0.26780	2.56549	3	X
K15VB3E	16.9	0.15	K161D	51.956	294.333	67.667	12.066	0.19588	2.56778	4	X
K15VB3V	16.0	0.15	K161D	3.263	355.395	80.904	8.058	0.17097	3.12635	6	X
K15VC3S	16.0	0.15	K161D	358.884	19.399	50.544	13.910	0.12665	3.13142	4	X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K15FB8P	19.3	0.15	K161D	59.986	107.751	201.797	2.658	0.55042	2.12031	238	W
K15M59S	21.0	0.15	K161D	40.081	168.599	168.332	2.868	0.41953	2.18566	152	X
K15MD0Q	20.9	0.15	K161D	44.613	111.772	238.987	40.178	0.53490	2.20543	146	X
K15N13K	21.0	0.15	K161D	27.954	192.002	192.978	8.093	0.55807	2.25406	129	W
K15P00S	20.9	0.15	K161D	26.778	60.363	318.441	5.563	0.46762	2.19783	114	X
K15P8M	17.0	0.15	K161D	44.084	325.836	32.505	33.448	0.22500	2.59567	98	X
K15PVLB	17.3	0.15	K161D	34.772	151.241	219.433	5.433	0.27516	2.57249	96	X
K15Q09G	17.8	0.15	K161D	42.574	306.247	44.889	12.420	0.33424	2.43183	89	X
K15R27T	16.8	0.15	K161D	22.219	185.854	191.507	10.937	0.31272	3.16844	97	X
K15R36G	20.3	0.15	K161D	20.149	21.142	39.116	9.161	0.26693	1.47546	66	X
K15R88U	17.6	0.15	K161D	74.831	357.957	307.201	6.901	0.21082	2.22009	98	X
K15S02V	20.8	0.15	K161D	11.367	143.642	282.366	6.489	0.57061	2.47568	59	X
K15S06L	18.4	0.15	K161D	30.164	354.751	9.471	9.769	0.27948	2.62765	98	X
K15S16X	18.5	0.15	K161D	40.939	278.749	65.868	27.671	0.49640	2.57798	58	X
K15T25A	20.1	0.15	K161D	335.947	122.579	38.373	31.862	0.38387	1.19893	42	X
K15TE3L	23.4	0.15	K161D	17.957	193.409	198.005	4.971	0.60402	2.58168	40	X
K15TE4W	20.9	0.15	K161D	8.399	250.225	192.174	8.438	0.37652	1.81279	39	X
K15TE4Y	21.3	0.15	K161D	21.700	266.955	139.190	5.596	0.45489	2.18409	37	X
K15TE5A	21.5	0.15	K161D	107.363	221.170	90.286	7.805	0.13820	1.43986	37	X
K15TE5B	20.0	0.15	K161D	10.498	121.737	37.732	39.671	0.86011	2.09795	21	X
K15TE5R	19.1	0.15	K161D	27.558	16.606	2.024	5.975	0.24696	2.24620	118	X
K15TH8O	24.4	0.15	K161D	12.636	227.838	193.309	3.657	0.57150	2.48940	39	X
K15TH8U	23.1	0.15	K161D	59.065	225.378	131.967	4.437	0.31621	1.62083	36	X
K15TH9B	20.4	0.15	K161D	7.403	339.403	101.868	8.065	0.53347	2.58703	37	X
K15TN7N	19.6	0.15	K161D	68.273	227.612	87.539	7.307	0.44535	2.13321	40	X
K15TN7W	23.1	0.15	K161D	7.329	46.697	49.116	7.613	0.30828	1.50402	36	X
K15TN8K	21.9	0.15	K161D	33.698	161.991	170.164	3.674	0.60769	2.40893	36	X
K15TN8R	25.2	0.15	K161D	18.694	185.873	213.063	3.234	0.54221	2.43973	34	X
K15TN8U	19.7	0.15	K161D	14.790	221.923	223.581	1.504	0.56837	2.38127	37	X
K15U00C	24.7	0.15	K161D	22.628	184.941	207.692	2.998	0.53406	2.23982	33	X
K15U51S	22.4	0.15	K161D	26.053	70.037	303.941	3.333	0.54361	2.32453	25	X
K15U52K	20.2	0.15	K161D	3.830	216.742	239.160	20.951	0.36882	1.55560	26	X
K15U52T	20.8	0.15	K161D	13.444	190.093	242.818	5.214	0.40888	2.04102	27	X
K15U66Y	20.5	0.15	K161D	2.473	329.699	159.556	9.559	0.67379	2.46820	24	X
K15U67C	19.6	0.15	K161D	188.667	28.509	225.048	21.037	0.18625	1.32539	25	X
K15V01R	21.1	0.15	K161D	353.004	244.899	214.373	19.240	0.36818	1.58529	13	X
K15V01Y	20.9	0.15	K161D	10.909	349.373	57.840	19.660	0.58169	2.96688	16	X
K15V02C	27.4	0.15	K161D	352.021	273.643	207.186	0.730	0.08283	1.06328	16	X
K15V02V	25.0	0.15	K161D	20.585	210.311	218.451	6.328	0.37940	1.62042	12	X
K15V02Z	22.6	0.15	K161D	285.175	186.507	41.677	17.022	0.42260	0.70820	20	X
K15V65B	22.9	0.15	K161D	6.198	224.590	231.206	8.639	0.56573	2.18563	13	X
K15V65E	23.7	0.15	K161D	341.475	287.605	227.367	19.384	0.33600	1.17059	11	X

K15V65T	23.1	0.15	K161D	29.307	355.754	45.615	30.400	0.36089	1.71803	9	X
K15V66D	19.9	0.15	K161D	245.889	140.236	72.422	25.759	0.17829	1.35572	10	X
K15V66E	24.2	0.15	K161D	16.095	187.447	238.390	6.119	0.50026	2.01023	10	X
K15V66G	23.1	0.15	K161D	0.441	304.965	197.481	2.745	0.70600	2.26467	12	X
K15V66N	22.5	0.15	K161D	46.217	118.335	195.807	5.351	0.67987	1.88279	10	X
K15V66O	20.6	0.15	K161D	136.146	219.209	64.532	14.118	0.60190	0.95279	11	X
K15V66P	22.1	0.15	K161D	284.025	168.833	22.911	19.002	0.25794	0.95984	7	X
K15VA5G	24.1	0.15	K161D	39.077	2.985	50.862	12.250	0.19039	1.27528	12	X
K15VA5L	18.8	0.15	K161D	15.329	189.163	255.844	27.195	0.49047	2.56781	3	W
K15VA5O	24.1	0.15	K161D	124.862	84.114	241.704	4.479	0.12054	1.04444	7	X
K15VA6A	22.6	0.15	K161D	41.331	120.255	234.772	3.747	0.52367	1.82275	6	X
K15VA6C	26.3	0.15	K161D	19.749	210.240	228.213	6.214	0.33283	1.46977	4	X
K15VA6E	24.3	0.15	K161D	32.334	193.312	234.411	9.402	0.22248	1.26181	5	X
K15VE2O	29.1	0.15	K161D	0.548	20.660	95.291	0.284	0.12633	1.07535	13	X
K15VE2U	19.4	0.15	K161D	334.125	237.010	272.765	5.170	0.49886	2.38612	5	X
K15VE6E	22.1	0.15	K161D	24.592	301.129	50.690	29.114	0.63299	2.56872	4	W
K15W00F	25.8	0.15	K161D	20.689	184.027	214.128	3.948	0.55029	2.26420	3	X
K15W00G	24.0	0.15	K161D	0.448	275.567	219.395	5.522	0.69788	2.46447	2	X

New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K15Q11N	16.6	0.15	K15A5	7.591	334.138	57.625	14.687	0.20512	2.57981	82	X
K15R27J	16.0	0.15	K15A5	354.237	13.429	13.373	13.681	0.15632	3.21300	71	X
K15R27L	17.6	0.15	K15A5	328.663	62.206	358.058	6.347	0.14866	2.41381	82	X
K15R30Z	17.6	0.15	K15A5	27.074	58.280	281.061	6.022	0.15472	2.62547	70	X
K15R31G	17.6	0.15	K158Q	20.221	354.869	350.504	6.181	0.18820	2.31475	148	W
K15R35T	18.2	0.15	K159F	356.936	161.789	226.256	5.965	0.40213	2.61340	116	W
K15R36Y	19.9	0.15	K15A5	10.981	159.199	200.912	9.757	0.46893	2.67916	70	X
K15R37A	18.8	0.15	K15A5	357.913	265.813	117.388	6.069	0.42932	2.62014	66	W
K15R82D	18.2	0.15	K159F	355.340	200.841	161.125	16.078	0.34130	2.56689	96	X
K15R89U	16.3	0.15	K159F	9.197	97.895	263.622	8.543	0.11470	2.98894	116	X
K15R90Q	17.3	0.15	K15A5	17.554	8.835	347.532	6.651	0.10050	2.42958	82	X
K15RA7O	17.2	0.15	K158Q	8.530	347.260	0.460	14.468	0.15515	2.72587	145	X
K15RA9E	16.8	0.15	K159F	339.492	21.726	23.884	14.092	0.25227	2.62212	98	X
K15RA9F	17.1	0.15	K159F	357.160	354.075	20.162	13.997	0.25429	2.63225	98	X
K15RA9K	17.9	0.15	K15A5	26.756	320.960	29.986	22.811	0.05111	1.94532	66	X
K15RK7X	17.3	0.15	K15A5	41.317	290.227	20.304	12.927	0.27607	2.67497	68	X
K15RK8K	17.6	0.15	K159F	7.772	338.270	20.573	11.893	0.18164	2.61865	98	X
K15RK9D	18.1	0.15	K15A5	25.874	314.446	16.454	14.200	0.28765	2.59347	68	X
K15RN4G	17.9	0.15	K15A5	344.140	6.071	48.466	16.506	0.22720	2.62616	68	X
K15RN5H	18.5	0.15	K15A5	236.148	113.390	45.260	21.576	0.07170	1.87381	68	X
K15RN6S	17.7	0.15	K15A5	340.200	323.670	97.852	8.009	0.21215	2.44046	68	W
K15RN7B	17.1	0.15	K15A5	28.135	234.637	102.729	6.921	0.32238	2.59820	68	W
K15RN9J	17.6	0.15	K159F	8.043	251.202	119.471	10.998	0.23300	2.40581	98	W
K15RN9K	16.8	0.15	K159F	38.694	172.679	153.923	15.011	0.25800	2.63256	98	X
K15RN9Z	17.7	0.15	K15A5	24.279	284.989	61.011	26.363	0.35232	3.15098	68	X
K15RO0Q	17.9	0.15	K15A5	63.387	215.720	90.264	10.476	0.24572	2.34596	67	W
K15RO0S	17.0	0.15	K15A5	26.528	280.538	64.166	18.514	0.33419	3.07701	68	X
K15RO0T	16.0	0.15	K15A5	352.905	324.536	85.241	14.486	0.11525	3.10381	68	W
K15RO1M	18.4	0.15	K15A5	355.640	336.919	64.069	11.877	0.22978	2.34380	68	W
K15RO1O	17.0	0.15	K159F	6.902	274.864	107.227	9.683	0.15093	2.63848	98	W
K15RO1P	17.2	0.15	K159F	9.134	275.325	99.823	9.557	0.23350	2.75752	98	W
K15RO1S	18.1	0.15	K159F	12.149	300.943	61.471	12.184	0.27783	2.40613	98	X
K15RO1T	17.2	0.15	K159F	348.958	295.297	113.153	8.874	0.24249	2.69470	98	W
K15RO2L	18.4	0.15	K15A5	11.009	302.941	66.793	14.174	0.30072	2.57543	68	X
K15RO2T	17.0	0.15	K15A5	359.030	270.388	133.428	12.977	0.06136	2.65913	67	W
K15S03G	17.7	0.15	K15A5	33.368	300.108	40.030	12.524	0.11893	2.51793	89	X
K15S03X	17.4	0.15	K158Q	342.362	152.696	233.466	15.015	0.28714	2.72314	147	X
K15S06E	17.7	0.15	K15A5	344.642	98.679	305.707	5.188	0.25129	2.65698	58	X
K15S19W	17.2	0.15	K15A5	346.435	354.271	54.617	15.186	0.24658	2.62609	56	W
K15T00Z	18.5	0.15	K15AP	358.018	151.270	239.280	5.516	0.37002	2.61953	47	X
K15T21U	16.9	0.15	K15A5	358.240	349.078	37.060	14.412	0.31295	2.59891	66	W
K15T23E	17.9	0.15	K15AP	348.792	8.378	45.045	14.894	0.23068	2.58514	43	W
K15T23F	16.7	0.15	K15AP	354.776	317.000	108.628	8.727	0.39563	3.53114	43	W
K15T65P	16.6	0.15	K15AP	7.575	162.318	228.003	14.488	0.18378	3.13755	41	X
K15T66C	18.8	0.15	K15AP	10.373	156.402	229.489	6.618	0.15008	2.41874	41	X
K15T66W	18.2	0.15	K15A5	13.676	143.172	228.217	6.632	0.19870	2.40208	70	X
K15T72B	17.8	0.15	K159F	4.226	160.634	216.703	13.273	0.26267	2.65862	116	X
K15T73C	17.3	0.15	K15A5	285.964	264.833	222.361	10.971	0.13025	2.62219	70	X
K15T74D	16.6	0.15	K15A5	33.675	127.789	221.267	7.920	0.17583	3.00263	70	X
K15T75H	17.5	0.15	K15A5	49.833	119.784	215.308	4.100	0.11278	2.59181	70	X
K15T76P	18.4	0.15	K15AP	4.549	183.249	211.114	7.164	0.19358	2.56237	41	X
K15T81J	16.3	0.15	K15A5	46.947	301.683	37.133	29.070	0.15110	2.55840	83	X
K15T81V	18.4	0.15	K15A5	346.595	196.378	223.432	9.103	0.25867	2.64085	70	W
K15T82G	17.5	0.15	K15A5	21.916	161.735	208.930	2.077	0.13534	2.65337	70	X
K15T82Y	18.9	0.15	K15AP	11.013	169.031	216.107	4.399	0.22071	2.18626	41	X
K15T83E	16.9	0.15	K15A5	355.541	184.223	221.785	14.169	0.11325	2.60497	59	W
K15T87T	17.2	0.15	K15AP	18.072	323.995	51.761	8.250	0.26719	2.99567	41	W
K15T88G	17.9	0.15	K15A5	12.774	324.948	45.595	5.032	0.30673	2.61016	70	W
K15T88O	18.0	0.15	K15A5	346.129	214.136	207.526	5.963	0.26110	2.62571	70	W
K15T88V	18.6	0.15	K15AP	7.082	184.911	210.099	5.901	0.18638	2.41747	41	X
K15T91L	17.4	0.15	K15A5	26.162	122.624	238.882	10.369	0.20940	2.64678	70	X
K15T97M	17.6	0.15	K15A5	6.101	164.829	225.756	4.442	0.16506	2.74733	70	X
K15T98G	17.8	0.15	K15AP	32.193	284.959	66.029	5.528	0.26764	2.60737	41	W
K15T98K	18.8	0.15	K15AP	2.594	357.303	41.923	12.226	0.27680	2.35590	41	W
K15TA1D	17.3	0.15	K15AP	354.224	254.345	161.917	6.231	0.22856	2.67470	41	W
K15TA1F	17.5	0.15	K15AP	302.561	67.189	61.751	13.233	0.21792	2.69524	41	X
K15TA1X	18.4	0.15	K15A5	7.358	197.877	188.642	6.790	0.17763	2.25957	70	W
K15TA2Q	18.3	0.15	K15AP	4.947	271.938	124.623	5.138	0.28291	2.54774	41	W
K15TA2X	18.3	0.15	K15AP	7.862	245.468	150.258	6.003	0.16524	2.33357	41	W
K15TA4C	17.7	0.15	K15AP	356.244	231.307	181.585	11.761	0.15237	2.45188	40	W
K15TA4E	18.6	0.15	K15AP	1.521	256.696	147.613	7.078	0.16275	2.30241	40	W
K15TA4J	16.5	0.15	K15AP	42.880	234.520	115.089	9.901	0.20106	3.39164	40	W
K15TA4O	16.7	0.15	K15AP	349.465	249.993	174.321	9.712	0.08313	2.99078	40	W
K15TA4S	15.9	0.15	K15AP	134.783	90.203	187.261	12.004	0.02671	3.37704	40	W
K15TA4T	17.2	0.15	K15AP	1.351	224.595	184.235	12.134	0.21648	3.09770	41	X
K15TA4X	17.1	0.15	K15AP	66.940	156.011	182.650	11.792	0.05309	2.55786	40	W

K15TA5B	18.0	0.15	K15AP	350.829	262.336	170.054	9.107	0.40384	3.11813	41	X
K15TA6N	17.3	0.15	K15AP	315.210	257.362	206.112	14.886	0.09635	2.54467	40	W
K15TA6O	19.7	0.15	K15AP	18.331	185.129	191.804	9.291	0.21912	2.19528	40	W
K15TA7A	16.4	0.15	K15AP	338.113	20.265	63.605	17.013	0.18195	3.12938	41	W
K15TA8R	18.1	0.15	K15AP	5.554	207.667	192.016	13.603	0.26129	2.63518	41	X
K15TB2S	17.7	0.15	K15AP	345.324	246.100	192.516	12.685	0.23946	2.60331	41	X
K15TB3H	17.4	0.15	K15AP	24.214	206.431	167.240	11.509	0.26978	3.00267	41	X
K15TB3L	18.4	0.15	K15AP	19.165	212.458	160.669	8.917	0.33908	2.65339	41	X
K15TB3R	17.4	0.15	K15AP	6.659	256.705	143.298	9.527	0.32492	2.72335	41	W
K15TB3U	16.3	0.15	K15AP	74.390	153.335	179.549	12.365	0.12124	2.90753	41	X
K15TB4B	16.5	0.15	K15AP	339.394	16.379	57.043	28.758	0.12227	3.10808	41	W
K15TB5H	17.5	0.15	K15AP	346.178	268.830	165.452	11.352	0.16402	2.59667	41	W
K15TCOP	16.6	0.15	K15A5	328.477	254.314	205.621	23.142	0.18052	2.71002	89	W
K15TC6B	18.1	0.15	K15A5	15.371	298.098	52.007	15.651	0.38524	2.60814	80	W
K15TC7P	18.6	0.15	K15AP	51.560	287.544	47.739	22.325	0.08035	1.91141	41	X
K15TD2T	17.5	0.15	K159F	343.506	334.051	78.347	10.220	0.19236	2.67699	98	X
K15TD3S	15.6	0.15	K15AP	324.500	334.977	105.922	11.436	0.02344	3.20215	40	W
K15TD5P	17.3	0.15	K15AP	329.809	294.183	149.682	11.940	0.14639	2.67611	40	W
K15TD6B	17.4	0.15	K15A5	22.180	289.195	58.114	26.784	0.35971	3.18693	67	X
K15TD6T	17.0	0.15	K15A5	328.235	13.890	69.041	14.121	0.19839	2.78614	67	X
K15TD8L	17.0	0.15	K15AP	247.258	358.939	172.870	12.255	0.12008	2.69421	40	W
K15TD8W	16.6	0.15	K15AP	300.010	58.942	63.185	27.599	0.15623	3.09622	41	X
K15TD8Z	18.9	0.15	K15A5	18.429	294.080	68.554	13.329	0.25468	2.42571	68	X
K15TEOF	16.2	0.15	K159F	330.837	326.524	110.572	12.981	0.15232	3.09781	98	W
K15TEOU	16.8	0.15	K15AP	52.036	245.564	81.716	16.957	0.22904	2.66371	40	W
K15TE1S	18.3	0.15	K15A5	6.265	189.284	185.412	18.497	0.41320	3.33726	70	X
K15TE2J	16.1	0.15	K15AP	159.104	92.881	150.943	11.650	0.03299	3.11223	40	W
K15TE5P	15.5	0.15	K15A5	320.639	64.611	13.658	17.202	0.13537	3.16567	62	X
K15TE6A	17.3	0.15	K15AP	46.067	69.578	257.371	3.946	0.11037	2.67016	47	X
K15TG6C	17.0	0.15	K15A5	29.295	304.536	46.113	9.844	0.15130	3.04723	70	W
K15TH5A	19.7	0.15	K15AP	7.714	240.668	147.840	4.516	0.19039	2.17556	39	X
K15TH6J	16.8	0.15	K15AP	8.701	191.586	201.254	17.508	0.20421	3.16437	40	W
K15TH6M	16.1	0.15	K15AP	42.257	174.137	184.506	12.015	0.07231	2.92185	40	W
K15TH7O	17.5	0.15	K15AP	21.796	296.503	74.515	7.553	0.13019	2.29705	40	X
K15TH8C	19.8	0.15	K15AP	349.225	353.469	75.399	10.316	0.39825	2.62506	41	W
K15TH9T	16.2	0.15	K15A5	352.937	6.943	40.066	17.218	0.20426	3.14329	69	X
K15TI4D	17.4	0.15	K15AP	25.324	294.178	66.362	12.017	0.27723	2.78253	40	W
K15TI7T	17.0	0.15	K15AP	2.581	264.327	135.668	4.861	0.25363	3.21468	40	X
K15TI7V	17.0	0.15	K15AP	357.763	332.482	75.655	11.500	0.15413	3.38240	40	X
K15TJ4L	17.2	0.15	K15AP	359.628	151.908	229.963	14.096	0.28190	3.17909	39	X
K15TJ4O	17.2	0.15	K15AP	345.879	174.069	228.041	11.686	0.17587	2.68052	46	X
K15TJ7L	18.5	0.15	K15A5	354.399	56.378	335.402	3.212	0.24279	2.35150	82	W
K15TJ7P	17.6	0.15	K15A5	9.720	49.182	312.564	2.542	0.19835	2.67240	67	X
K15TK2H	18.4	0.15	K159F	1.837	297.128	72.806	4.874	0.17328	2.14842	98	W
K15TK2O	17.9	0.15	K15AP	22.824	204.260	143.463	6.624	0.32151	2.56894	39	W
K15TK2V	17.4	0.15	K15A5	348.872	34.868	12.179	13.492	0.25776	2.56361	70	W
K15TK3A	16.5	0.15	K15AP	1.658	178.134	214.942	11.580	0.19099	3.01969	41	W
K15TK3J	15.7	0.15	K159F	16.439	321.775	40.350	27.176	0.20679	3.15392	96	X
K15TK3M	16.1	0.15	K15A5	329.927	41.816	30.983	21.567	0.15381	3.18958	70	W
K15TK3V	17.6	0.15	K15A5	25.554	262.518	89.358	3.439	0.23495	2.37111	82	X
K15TK4J	17.7	0.15	K15A5	355.386	357.056	36.980	9.928	0.17665	2.41600	70	W
K15TK4Z	16.6	0.15	K159F	357.504	339.379	52.635	13.402	0.25741	2.60119	98	X
K15TK5A	17.2	0.15	K15AP	0.985	341.885	62.720	8.037	0.12095	2.43431	39	X
K15TK6N	15.5	0.15	K15A5	288.410	264.213	216.452	21.193	0.11934	3.14060	70	X
K15TK7Y	16.4	0.15	K15A5	88.235	278.787	358.355	14.607	0.12372	2.56267	82	X
K15TK8M	19.1	0.15	K15A5	11.544	149.672	214.571	22.472	0.14651	1.89021	55	W
K15TK8W	16.8	0.15	K15AP	328.825	217.077	218.934	31.376	0.17310	2.59999	46	W
K15TK9H	17.8	0.15	K159F	341.229	188.371	222.056	5.105	0.24793	2.59905	116	X
K15TK9N	16.6	0.15	K159F	354.530	142.323	248.218	5.922	0.07181	2.71045	107	W
K15TK9V	16.3	0.15	K15AP	345.519	184.617	232.448	14.772	0.15975	3.14804	39	W
K15TM3U	17.8	0.15	K15AP	9.687	333.666	51.771	4.189	0.18458	2.39438	39	X
K15TN2O	17.1	0.15	K15AP	36.979	213.227	131.166	14.907	0.28011	2.57665	38	W
K15TN2P	16.8	0.15	K15AP	22.086	259.276	119.677	15.132	0.13532	2.56416	39	W
K15TN3R	17.9	0.15	K15AP	357.742	153.153	234.260	13.017	0.26475	2.67666	40	X
K15TN7D	17.9	0.15	K15AP	23.594	285.072	69.907	28.892	0.40097	2.60811	40	W
K15TO1S	18.4	0.15	K15A5	1.403	142.044	233.852	4.589	0.36272	2.62003	70	W
K15TO3U	18.0	0.15	K159F	340.112	147.656	267.650	4.467	0.27424	2.61933	116	W
K15TO4K	18.1	0.15	K159F	338.076	187.623	226.076	4.638	0.21775	2.40430	116	W
K15TO7J	17.2	0.15	K158Q	336.168	345.543	56.832	5.854	0.09465	2.36984	148	W
K15TO9S	17.0	0.15	K15A5	338.575	207.502	215.766	14.478	0.10193	2.55726	70	X
K15TP3K	17.1	0.15	K15AP	355.610	5.048	35.257	15.023	0.22283	2.81275	39	W
K15TP6U	17.5	0.15	K15A5	348.122	6.912	45.591	13.721	0.28494	2.58202	90	X
K15TP8Y	17.2	0.15	K15A5	314.120	129.512	305.786	5.207	0.12531	2.69070	66	X
K15TQOK	17.8	0.15	K159F	349.633	180.424	221.120	12.543	0.28183	2.64282	116	W
K15TS8F	19.1	0.15	K15AP	29.549	28.951	311.893	4.348	0.21306	2.20222	37	X
K15TT2S	15.6	0.15	K15AP	326.256	205.955	223.528	13.098	0.11008	3.19852	37	X
K15TT8W	16.8	0.15	K159F	28.338	11.521	316.044	6.628	0.30115	2.73633	116	W
K15TU0E	18.3	0.15	K15AP	8.017	89.680	296.181	4.345	0.14323	2.20422	37	W
K15TU1W	18.2	0.15	K15AP	14.746	141.130	242.308	19.543	0.07789	2.00551	37	W
K15TW1R	17.4	0.15	K15AP	27.838	91.822	259.393	9.948	0.27400	2.66074	39	X
K15TW4O	17.9	0.15	K15A5	335.340	321.982	94.759	7.514	0.19925	2.35511	71	W
K15TW6O	15.8	0.15	K15AP	346.455	325.513	82.188	11.573	0.20706	3.14594	40	W
K15TX2H	16.8	0.15	K15AP	10.683	323.364	49.905	30.207	0.27062	3.17064	36	W
K15TX9P	17.7	0.15	K15AP	333.483	43.712	27.591	2.140	0.21806	2.65464	46	W
K15U05Z	17.5	0.15	K15A5	5.179	345.336	42.297	8.875	0.23257	2.76768	33	X
K15U27B	17.6	0.15	K15A5	18.026	312.929	41.077	12.441	0.19102	2.66227	89	X
K15U28C	18.1	0.15	K15A5	321.124	30.442	48.263	9.624	0.21292	2.44464	89	X
K15U45O	17.0	0.15	K15AP	88.740	190.791	116.926	8.609	0.05023	2.80155	30	W
K15U47G	17.9	0.15	K15AP	27.300	152.543	194.855	19.707	0.34664	2.57293	30	W
K15U47H	17.2	0.15	K15AP	45.129	204.345	144.817	11.430	0.10931	2.61329	30	W
K15U48A	18.4	0.15	K15AP	339.756	356.046	75.125	11.472	0.17354	2.38160	31	X
K15U48C	18.4	0.15	K15AP	344.996	4.762	63.525	18.283	0.26658	2.63015	31	X
K15U48P	17.0	0.15	K15AP	17.660	186.862	188.403	12.212	0.26529	2.98366	39	W
K15U48Z	17.2	0.15	K15AP	8.324	219.338	172.099	10.023	0.23970	2.71276	35	W
K15U49J	16.4	0.15	K15A5	3.990	308.801	86.540	14.530	0.18663	3.11599	68	W
K15U49O	18.3	0.15	K15A5	16.654	256.693	102.937	9.582	0.30630	2.42440	67	W
K15U51Y	20.7	0.15	K15AP	13.708	233.756	126.283	9.500	0.41844	2.25492	29	X

K15U54H	19.6	0.15	K15A5	345.072	6.341	28.343	21.546	0.07434	1.93170	56	X
K15U55H	16.3	0.15	K159F	342.578	2.603	43.946	3.914	0.23552	3.92257	98	X
K15U59O	18.3	0.15	K15AP	46.595	237.721	105.969	7.824	0.14658	2.29837	29	W
K15U60P	17.2	0.15	K15AP	200.131	77.430	130.449	7.751	0.09382	2.67060	29	W
K15U60X	16.2	0.15	K15AP	314.514	281.476	213.761	24.139	0.27075	3.17010	30	X
K15U64W	16.7	0.15	K159F	7.248	246.223	127.726	15.217	0.28921	2.96791	98	X
K15U65U	16.5	0.15	K15AP	74.258	229.520	89.801	16.441	0.12483	2.53571	27	W
K15U65Y	17.6	0.15	K159F	343.189	329.738	89.536	14.610	0.22791	2.61215	98	X
K15U66K	17.4	0.15	K15A5	359.564	324.002	79.805	15.497	0.21614	2.57213	54	X
K15U66O	16.9	0.15	K15AP	30.954	265.760	99.443	17.938	0.22613	2.75644	28	X
K15U66P	16.1	0.15	K15AP	92.818	204.212	106.675	15.859	0.11029	2.56042	28	W
K15U77P	17.5	0.15	K15A5	7.752	150.321	237.796	13.121	0.25532	2.62089	56	X
K15U77R	17.2	0.15	K15A5	352.234	180.513	238.883	18.810	0.26339	3.06244	56	X
K15U77S	17.0	0.15	K15A5	4.896	158.693	238.489	13.461	0.20017	2.60834	56	X
K15U77Y	17.2	0.15	K15A5	4.697	158.603	236.347	12.572	0.24844	2.80296	56	W
K15U78D	17.5	0.15	K15A5	330.817	236.111	206.159	2.491	0.17840	2.56285	59	W
K15U78N	16.8	0.15	K15A5	355.775	232.274	166.080	11.780	0.17087	2.56369	82	W
K15U78P	18.0	0.15	K15AP	0.512	319.982	75.742	14.762	0.26054	2.61966	25	W
K15U79X	17.7	0.15	K15AP	353.982	303.950	104.663	14.532	0.16523	2.56734	24	W
K15U81O	18.0	0.15	K15AP	355.666	247.814	163.489	12.507	0.21175	2.42732	24	W
K15U83S	17.7	0.15	K158Q	5.639	309.447	42.832	3.479	0.25043	2.41076	149	X
K15U84E	16.8	0.15	K15A5	7.793	335.484	41.688	11.271	0.22276	3.14129	70	X
K15V00R	18.5	0.15	K15AP	318.060	39.027	48.973	26.767	0.10395	1.87154	41	DW
K15V06K	16.0	0.15	K15AP	0.730	355.954	51.546	18.799	0.18981	3.09123	40	X
K15V06O	16.3	0.15	K15A5	7.327	293.160	78.483	17.383	0.34853	3.04116	80	W
K15V24O	16.0	0.15	K15AP	9.232	328.241	61.890	29.384	0.18157	3.08640	41	X
K15V24R	17.2	0.15	K15AP	351.058	327.486	83.438	7.741	0.10940	2.35868	40	W
K15V25H	16.2	0.15	K15AP	350.135	315.525	116.816	15.298	0.26309	3.19571	17	W
K15V25W	16.0	0.15	K159F	33.015	282.425	69.382	15.304	0.14834	3.09700	98	X
K15V30Z	16.8	0.15	K15AP	351.760	173.496	233.692	8.609	0.10562	3.18006	26	W
K15V36L	19.9	0.15	K15AP	2.267	178.519	215.882	1.532	0.23153	2.35396	40	X
K15V36R	15.8	0.15	K15AP	28.599	149.100	223.553	17.730	0.02636	3.41587	41	X
K15V36W	18.6	0.15	K15AP	49.923	269.065	56.031	3.134	0.24116	2.35184	17	X
K15V36Z	18.9	0.15	K15AP	32.884	293.287	57.457	2.470	0.20819	2.34461	17	X
K15V37B	18.6	0.15	K15AP	31.367	295.302	57.444	3.342	0.21237	2.46317	17	X
K15V37C	17.0	0.15	K15AP	344.193	200.693	220.811	8.705	0.08219	3.06231	17	X
K15V40G	18.2	0.15	K15AP	346.039	202.478	221.204	6.149	0.25028	2.62878	41	W
K15V40N	18.0	0.15	K15A5	355.487	329.080	69.408	10.708	0.32499	2.77948	68	W
K15V40T	17.0	0.15	K15AP	329.121	229.363	207.210	21.339	0.03641	2.64191	16	W
K15V41E	17.2	0.15	K159F	20.892	280.658	73.770	12.401	0.25631	2.79209	98	X
K15V41G	16.1	0.15	K15AP	306.584	14.020	91.687	10.421	0.06641	3.09506	39	X
K15V41O	16.8	0.15	K15AP	275.331	57.654	88.004	13.554	0.13529	2.60218	16	W
K15V41Q	16.9	0.15	K15AP	78.990	201.317	96.559	14.732	0.24529	2.66182	16	W
K15V41T	17.1	0.15	K15AP	323.882	279.162	175.218	13.360	0.12659	2.60860	16	W
K15V41X	16.5	0.15	K15AP	14.309	312.023	78.219	20.405	0.08266	3.19968	16	W
K15V42B	18.4	0.15	K15AP	5.512	228.959	167.769	8.929	0.21476	2.42581	16	W
K15V42L	17.2	0.15	K15AP	28.562	184.437	189.632	12.470	0.10451	2.56963	16	W
K15V42M	17.8	0.15	K15AP	315.277	298.891	169.626	9.640	0.15935	2.59480	16	W
K15V42O	17.1	0.15	K15AP	38.239	245.419	100.077	10.157	0.25567	2.97871	16	W
K15V62M	18.3	0.15	K15AP	38.727	283.637	54.498	3.767	0.25632	2.59632	16	X
K15V62W	16.5	0.15	K15AP	293.378	348.835	133.066	10.394	0.03956	3.16522	15	W
K15V63H	17.1	0.15	K15AP	29.271	262.592	106.492	16.071	0.19434	2.54031	28	W
K15V63L	17.8	0.15	K15AP	5.151	211.792	192.944	12.936	0.26671	2.63646	40	X
K15V63V	16.6	0.15	K15A5	11.377	143.926	241.851	10.766	0.19343	2.57727	56	X
K15V64Y	17.9	0.15	K15AP	40.689	200.996	144.799	3.259	0.24244	2.31913	12	X
K15V65S	17.2	0.15	K15BE	9.629	309.538	85.470	32.818	0.27988	2.56449	9	Eu
K15V65Y	19.0	0.15	K15AP	14.386	308.723	75.842	24.853	0.15005	1.91119	11	X
K15V71N	15.8	0.15	K15AP	81.867	229.942	81.624	20.425	0.10053	3.15653	14	W
K15V72D	15.8	0.15	K15AP	93.960	212.469	93.103	12.623	0.06711	3.16268	14	W
K15V72G	17.8	0.15	K15AP	316.979	2.949	98.133	13.850	0.11751	2.62810	14	W
K15V72H	16.7	0.15	K15AP	26.203	261.798	113.366	12.535	0.12592	2.71855	14	W
K15V72M	18.4	0.15	K15AP	18.118	290.930	81.913	13.438	0.27687	2.61257	14	W
K15V72U	17.4	0.15	K15AP	346.002	213.869	223.964	7.255	0.21105	2.55708	25	W
K15V74K	18.3	0.15	K15AP	20.404	280.826	87.712	6.150	0.23807	2.22694	13	X
K15V74P	17.8	0.15	K15AP	24.505	264.242	101.972	6.488	0.24257	2.31152	17	X
K15V74W	17.0	0.15	K15AP	43.676	311.677	35.463	9.431	0.17928	2.58042	12	W
K15V76M	18.7	0.15	K15AP	16.511	151.026	223.063	5.210	0.19217	2.27091	16	X
K15V80X	17.5	0.15	K15AP	353.426	196.390	208.460	16.419	0.18911	2.90872	46	W
K15V88X	19.1	0.15	K15AP	357.624	8.345	31.530	12.428	0.25988	2.35006	17	W
K15V93A	18.4	0.15	K15A5	2.619	160.756	228.855	9.226	0.17625	2.56452	70	X
K15V94M	16.4	0.15	K15AP	319.545	32.280	67.278	8.451	0.11942	3.16639	17	X
K15V94T	16.2	0.15	K15AP	29.699	137.367	232.016	14.785	0.13313	3.00188	11	W
K15V95T	17.0	0.15	K15AP	11.379	326.508	54.741	17.418	0.31784	3.12078	17	W
K15VA0D	17.1	0.15	K15A5	4.782	227.419	156.993	3.497	0.25437	2.58727	82	X
K15VA0E	17.5	0.15	K15AP	20.625	262.230	109.755	4.239	0.18039	2.54580	39	X
K15VA0L	17.9	0.15	K15AP	146.526	168.888	83.897	8.502	0.07939	2.27914	11	X
K15VA0T	15.5	0.15	K15AP	217.470	106.366	84.752	11.127	0.04430	3.12755	39	X
K15VA0W	18.1	0.15	K15AP	335.884	329.741	104.120	5.459	0.11494	2.56734	11	X
K15VA0X	17.1	0.15	K15AP	124.612	135.950	141.528	4.943	0.03914	2.75967	11	X
K15VA0Y	17.8	0.15	K15A5	345.511	209.782	209.544	12.993	0.23343	2.65297	70	X
K15VA1B	16.8	0.15	K15AP	77.536	208.725	107.818	5.484	0.10033	2.80600	39	X
K15VA1L	18.2	0.15	K15AP	44.563	264.561	87.272	4.956	0.11608	2.22134	13	X
K15VA1M	18.5	0.15	K15AP	3.466	303.370	95.856	2.512	0.15738	2.20905	17	X
K15VA1X	16.8	0.15	K15AP	34.575	275.398	77.903	8.900	0.20352	3.09938	11	X
K15VA1Z	17.7	0.15	K15AP	52.938	260.724	74.965	8.256	0.13994	2.33992	39	X
K15VA2C	17.3	0.15	K15AP	282.017	354.058	143.269	5.515	0.12852	2.57410	39	X
K15VA2D	16.7	0.15	K15AP	9.124	320.209	73.510	11.169	0.08905	2.97586	11	X
K15VA2E	16.1	0.15	K15AP	71.395	230.219	83.891	8.881	0.16402	2.84722	13	X
K15VA2G	15.9	0.15	K159F	347.965	2.360	54.401	10.422	0.09444	3.02771	117	W
K15VA2K	17.8	0.15	K15AP	7.563	349.130	49.590	4.904	0.10918	2.35608	11	X
K15VA7C	17.7	0.15	K15AP	342.725	330.031	109.931	11.701	0.26547	2.70710	17	X
K15VA7L	18.1	0.15	K159F	348.013	236.330	160.096	5.010	0.29012	2.62393	98	W
K15VB1G	17.4	0.15	K15AP	19.149	131.095	236.668	16.011	0.22770	2.60167	39	X
K15VB2N	16.7	0.15	K15AP	275.890	78.811	50.872	12.757	0.03453	2.62518	39	X
K15VB2O	16.3	0.15	K15AP	5.124	344.142	51.102	18.872	0.20476	3.17063	36	X
K15VB2V	17.5	0.15	K15AP	40.382	158.966	177.096	12.428	0.29101	2.37052	31	W
K15VB2Y	16.1	0.15	K15AP	302.396	59.125	51.975	22.706	0.03949	2.66070	33	W

K15VB3J	16.6	0.15	K15AP	81.432	73.873	245.792	13.755	0.12636	2.58248	23	X
K15VB3R	16.5	0.15	K15A5	353.782	196.464	225.203	11.365	0.24922	3.11110	60	W
K15VB3X	17.1	0.15	K15A5	0.253	174.644	236.385	12.633	0.19031	2.56749	56	W
K15VB5J	17.2	0.15	K15AP	14.910	130.943	247.912	12.672	0.10549	2.61552	37	W
K15VB6U	18.2	0.15	K15AP	351.740	334.548	80.604	10.699	0.27510	2.76231	12	W
K15VB6W	16.4	0.15	K15AP	323.441	24.393	59.375	16.713	0.06719	3.12968	39	X
K15VB6Y	16.0	0.15	K15AP	32.838	158.298	207.342	10.268	0.07773	3.11321	39	X
K15VB6Z	17.8	0.15	K15AP	327.456	212.101	225.957	7.875	0.06468	2.41786	16	X
K15VB7H	16.8	0.15	K15AP	334.942	259.129	177.176	6.058	0.13656	2.96689	39	X
K15VB7R	15.9	0.15	K15AP	263.482	39.290	106.896	11.691	0.06639	3.00616	12	W
K15VB7T	19.2	0.15	K15AP	21.089	305.678	61.310	6.422	0.22212	2.16143	17	X
K15VB8D	15.6	0.15	K15AP	227.873	108.152	77.368	8.375	0.08784	3.06717	13	X
K15VB8J	18.0	0.15	K15AP	8.462	240.190	148.751	5.826	0.16517	2.31874	12	W
K15VB8N	16.6	0.15	K15AP	316.766	349.416	100.207	15.262	0.02013	2.52145	12	W
K15VB8P	16.8	0.15	K15AP	54.187	227.028	99.305	9.308	0.23620	2.62763	12	W
K15VB9C	17.6	0.15	K15AP	11.847	270.560	117.511	3.858	0.17283	2.62165	13	W
K15VB9H	18.3	0.15	K15AP	2.243	201.382	199.239	3.264	0.21104	2.43653	17	X
K15VB9J	17.4	0.15	K15AP	17.014	327.300	56.232	7.329	0.12835	2.38616	17	W
K15VB9K	17.7	0.15	K15AP	21.924	318.861	59.389	5.637	0.12029	2.41295	26	W
K15VB9Q	18.0	0.15	K15AP	351.530	23.469	37.479	10.298	0.27105	2.72684	16	W
K15VB9T	16.8	0.15	K15AP	0.778	174.321	230.758	19.399	0.25977	3.06515	13	X
K15VCOB	16.7	0.15	K15AP	339.105	223.638	219.570	8.522	0.23804	3.07027	25	W
K15VCOE	16.9	0.15	K15AP	354.126	204.337	211.189	11.320	0.11137	2.58928	25	X
K15VCOM	18.2	0.15	K15AP	23.108	191.544	168.336	7.207	0.29676	2.30457	12	W
K15VCOR	17.3	0.15	K15AP	358.623	253.457	155.476	10.557	0.30110	2.99849	12	W
K15VCOV	17.3	0.15	K15AP	0.453	319.123	90.389	6.598	0.18511	2.55863	14	X
K15VCIU	16.4	0.15	K15AP	38.073	245.920	104.656	21.181	0.28328	2.77789	24	W
K15VC3H	18.3	0.15	K15AP	348.931	159.379	261.099	0.638	0.14007	2.39299	12	W
K15VC3M	18.3	0.15	K15AP	7.687	132.245	261.910	18.562	0.13778	1.88962	12	Eu
K15VC6V	15.5	0.15	K15AP	143.721	203.328	53.421	12.059	0.05981	3.11522	11	X
K15VC6Y	16.1	0.15	K15AP	0.829	353.120	48.515	25.043	0.08826	3.13593	11	X
K15VC7G	16.5	0.15	K15AP	15.742	207.242	177.076	10.626	0.14767	2.96041	10	W
K15VC7S	18.5	0.15	K15AP	335.895	209.318	227.253	13.056	0.14533	2.51946	11	X
K15VC8H	16.6	0.15	K15AP	317.777	24.331	68.771	4.782	0.04890	3.16089	11	X
K15VC8M	17.0	0.15	K15AP	278.797	276.593	228.966	2.030	0.16121	2.73572	11	W
K15VC9J	18.1	0.15	K15AP	5.316	252.715	140.152	2.061	0.17751	2.41288	11	W
K15VC9N	18.4	0.15	K15AP	2.619	196.604	201.874	6.239	0.14322	2.24395	17	X
K15VC9Q	17.5	0.15	K15AP	353.044	300.090	115.584	4.534	0.18366	2.74637	11	X
K15VD0B	17.1	0.15	K15AP	0.492	310.094	94.387	4.039	0.10635	2.70354	17	X
K15VD0D	18.1	0.15	K15AP	348.743	348.929	73.629	6.902	0.22540	2.61833	17	W
K15VD0H	16.6	0.15	K15AP	27.421	154.737	211.955	13.826	0.16530	3.11671	11	X
K15VD0P	17.4	0.15	K15AP	1.667	171.209	232.134	9.643	0.23605	2.99248	11	W
K15VD1E	17.2	0.15	K15AP	307.279	242.707	242.141	21.636	0.19466	2.27663	29	X
K15VD1K	16.8	0.15	K15AP	32.469	114.582	228.843	9.369	0.11730	2.90024	10	X
K15VD1N	18.5	0.15	K15AP	19.148	12.352	346.135	1.889	0.23199	2.37024	10	X
K15VD1O	18.6	0.15	K15AP	346.547	17.388	32.188	28.803	0.21454	2.20284	10	X
K15VD1P	18.7	0.15	K15BE	351.623	192.400	216.037	21.117	0.11045	1.88224	11	X
K15VD1U	17.4	0.15	K15AP	327.945	23.424	50.314	8.796	0.18997	2.77468	10	X
K15VD2W	18.3	0.15	K15AP	357.530	321.116	81.172	5.402	0.23443	2.58837	10	X
K15VD3B	16.1	0.15	K15AP	48.620	294.585	47.553	11.193	0.11307	3.12867	10	X
K15VD3D	16.8	0.15	K15AP	52.066	286.467	52.249	10.301	0.11385	2.69709	10	X
K15VD3S	17.2	0.15	K15AP	2.503	226.232	171.540	4.327	0.23259	3.10548	15	X
K15VD3T	17.9	0.15	K15AP	34.464	222.264	128.370	3.784	0.20567	2.38387	10	X
K15VD3U	17.1	0.15	K15AP	21.101	302.183	70.178	10.001	0.14845	3.07083	10	X
K15VD3Y	16.8	0.15	K15AP	25.914	296.478	70.189	11.316	0.19700	3.15482	10	X
K15VD4A	17.4	0.15	K15AP	347.081	340.264	80.087	7.416	0.11890	2.47799	10	W
K15VD4P	18.7	0.15	K15AP	7.583	321.134	68.471	5.082	0.27129	2.46028	10	X
K15VD5D	18.0	0.15	K15BE	34.433	132.586	223.773	12.889	0.28673	2.60951	11	X
K15VD5J	16.6	0.15	K15AP	332.791	30.169	64.441	7.251	0.19992	3.03878	10	X
K15VD5U	17.3	0.15	K15AP	304.126	269.515	219.993	2.803	0.18427	2.54802	10	W
K15VD5V	18.0	0.15	K15AP	19.694	315.836	63.068	3.459	0.22661	2.37861	10	X
K15VD6W	16.7	0.15	K15A5	20.736	259.867	124.182	14.646	0.17220	2.54860	60	W
K15VD7N	16.3	0.15	K15BE	358.318	204.968	209.521	11.571	0.07000	3.22723	9	X
K15VD9K	16.1	0.15	K15BE	293.919	269.272	219.135	11.861	0.09342	3.17973	7	X
K15VD9T	18.4	0.15	K15BE	7.650	293.522	105.531	3.265	0.21935	2.61717	7	X
K15VD9U	17.3	0.15	K15BE	209.207	90.342	117.797	3.861	0.12228	2.36904	7	X
K15VD9W	18.7	0.15	K15BE	11.822	201.011	190.665	4.519	0.24292	2.55360	7	X
K15VD9X	17.9	0.15	K15BE	357.823	243.416	171.529	3.792	0.08909	2.76738	7	X
K15VD9Y	17.4	0.15	K15BE	47.809	262.587	93.597	4.726	0.09101	2.69618	7	X
K15VE0C	16.6	0.15	K15BE	322.039	254.883	200.512	7.297	0.12078	3.21579	7	X
K15VE0G	16.6	0.15	K15BE	100.517	105.649	199.824	7.762	0.03561	3.01841	7	X
K15VE0H	18.5	0.15	K15BE	42.043	161.152	188.039	5.047	0.20327	2.61688	7	X
K15VE0J	19.0	0.15	K15BE	2.467	321.991	84.140	5.289	0.20649	2.58405	7	X
K15VE0K	17.0	0.15	K15BE	7.606	304.608	89.704	6.474	0.31580	3.95734	7	X
K15VE0M	19.0	0.15	K15BE	12.333	281.436	109.432	3.026	0.21748	2.35458	7	X
K15VE0Q	16.4	0.15	K15BE	352.752	352.790	61.443	16.654	0.04306	3.07890	7	X
K15VE0U	18.2	0.15	K15BE	17.621	253.565	129.875	3.196	0.18600	2.35414	7	X
K15VE0X	18.4	0.15	K15BE	320.192	357.137	102.796	5.020	0.12584	2.60926	7	X
K15VE0Y	17.2	0.15	K15BE	347.629	289.264	139.342	4.469	0.19805	3.16792	7	X
K15VE0Z	18.5	0.15	K15BE	13.056	191.628	202.076	8.350	0.11534	2.39763	7	X
K15VE1A	19.0	0.15	K15BE	347.067	320.289	110.631	3.749	0.22376	2.40589	7	X
K15VE1E	16.7	0.15	K15BE	15.724	334.069	60.834	9.507	0.15661	3.06411	6	W
K15VE1G	17.2	0.15	K15BE	342.631	229.805	216.653	15.581	0.25282	2.75686	6	W
K15VE1O	17.4	0.15	K15BE	358.980	199.093	220.640	6.060	0.09790	2.34529	6	X
K15VE1Q	17.4	0.15	K15BE	28.638	129.582	242.470	17.010	0.24812	2.66778	6	X
K15VE1R	16.3	0.15	K15BE	312.958	48.230	77.297	7.373	0.19040	2.93150	6	X
K15VE1Y	17.4	0.15	K15BE	11.969	186.763	204.238	8.690	0.21102	3.17181	6	X
K15VE2C	18.7	0.15	K15BE	5.172	269.388	130.480	3.096	0.20458	2.44826	6	X
K15VE2D	18.3	0.15	K15BE	331.646	0.640	88.037	4.828	0.18563	2.39838	6	X
K15VE2E	18.7	0.15	K15BE	344.645	334.226	93.501	4.263	0.11940	2.26671	6	X
K15VE2H	17.4	0.15	K15BE	42.078	176.243	176.751	5.062	0.15370	3.04775	6	X
K15VE2Q	18.4	0.15	K15BE	230.690	104.541	82.644	24.339	0.01691	1.82210	4	X
K15VE4R	17.3	0.15	K15BE	16.677	79.917	311.370	4.227	0.11466	2.45015	6	X
K15VE5U	18.0	0.15	K15BE	52.752	255.695	72.540	5.264	0.24974	2.31582	5	X
K15VE5W	17.1	0.15	K15BE	105.752	36.476	252.744	11.949	0.14169	2.65123	5	X
K15VE6A	18.7	0.15	K15BE	357.270	86.491	285.056	6.918	0.28269	2.41258	2	W
K15VE6B	20.7	0.15	K15BE	1.648	350.953	47.294	35.244	0.14429	1.53964	4	Eu

K15VE6H	17.2	0.15	K15AP	51.499	157.814	173.717	12.700	0.18640	2.54759	40	W
K15VE6J	16.9	0.15	K15AP	357.980	306.593	98.278	15.277	0.21518	3.22636	23	W
K15VE6M	16.9	0.15	K15A5	24.533	246.173	124.223	11.471	0.08867	3.19080	66	W
K15VE6Q	16.6	0.15	K15A5	329.046	316.651	121.927	13.515	0.12192	3.15757	67	W
K15VE9U	18.1	0.15	K15BE	344.047	235.897	200.470	14.562	0.09407	2.55226	3	X
K15VFOE	18.7	0.15	K15BE	239.597	97.797	80.078	23.652	0.05928	1.83879	3	X
K15W00H	20.6	0.15	K15BE	15.466	297.676	71.475	22.562	0.39507	2.16313	1	X

New observations:

J98X02N	C2015	11	18.48437	09	43	41.58	+16	31	38.1	18.7	rREW025G45
J98X02N	C2015	11	18.48993	09	43	40.05	+16	31	38.8	18.6	rREW025G45
J98X02N	C2015	11	18.49529	09	43	38.55	+16	31	39.5	18.7	rREW025G45
J98X02N	C2015	11	18.50071	09	43	37.05	+16	31	40.3	18.7	rREW025G45
J98X02N	C2015	11	18.51197	09	43	33.92	+16	31	41.7	18.7	rREW025G45
J98X02N	C2015	11	18.51773	09	43	32.31	+16	31	42.4	18.7	rREW025G45
J98X02N	C2015	11	18.52325	09	43	30.78	+16	31	43.0	18.7	rREW025G45
J98X02N	C2015	11	18.52901	09	43	29.18	+16	31	43.7	18.4	rREW025G45
J98X16R	C2015	11	18.38836	03	18	43.892	-10	24	09.58	20.6	wLEW025F51
J98X16R	C2015	11	18.38965	03	18	43.754	-10	24	09.78	20.7	wLEW025F51
J98X16R	C2015	11	18.39995	03	18	42.645	-10	24	09.64	20.6	wLEW025F51
J98X16R	C2015	11	18.40123	03	18	42.502	-10	24	09.67	20.7	wLEW025F51
J98X16R	C2015	11	18.41154	03	18	41.398	-10	24	09.65	20.6	wLEW025F51
J98X16R	C2015	11	18.41282	03	18	41.262	-10	24	09.59	20.8	wLEW025F51
J98X16R	C2015	11	18.42439	03	18	40.013	-10	24	09.38	20.7	wLEW025F51
K01L00B	C2015	11	18.39673	03	15	42.720	-15	11	36.58	21.1	wLEW025F51
K01L00B	C2015	11	18.40832	03	15	40.719	-15	11	22.72	21.1	wLEW025F51
K01L00B	C2015	11	18.41990	03	15	38.715	-15	11	09.36	21.1	wLEW025F51
K01L00B	C2015	11	18.43146	03	15	36.716	-15	10	55.67	21.0	wLEW025F51
K02X38Y	KC2015	11	19.06422	23	16	11.13	-26	24	11.3	19.1	RoEW025291
K02X38Y	KC2015	11	19.06768	23	16	12.75	-26	23	55.8	19.6	RoEW025291
K04L03V	KC2015	11	19.53029	11	01	05.67	-08	08	38.0	20.8	RoEW025291
K04L03V	KC2015	11	19.53170	11	01	05.82	-08	08	42.1	20.8	RoEW025291
K04L03V	KC2015	11	19.53310	11	01	05.92	-08	08	46.1	21.0	RoEW025291
K08T27B	C2015	11	18.49000	09	46	09.60	+19	55	28.3	19.6	rREW025G45
K08T27B	C2015	11	18.50674	09	46	10.05	+19	54	04.9	19.4	rREW025G45
K08T27B	C2015	11	18.51224	09	46	10.17	+19	53	37.7	19.4	rREW025G45
K08T27B	C2015	11	18.51766	09	46	10.33	+19	53	10.4	19.4	rREW025G45
K08T27B	C2015	11	18.52318	09	46	10.48	+19	52	43.3	19.5	rREW025G45
K11B24O	KC2015	11	19.50720	10	24	26.29	+20	22	20.5		oEW025291
K11B24O	KC2015	11	19.51153	10	24	26.89	+20	22	21.1		oEW025291
K11B24O	KC2015	11	19.51586	10	24	27.29	+20	22	22.4		oEW025291
K11Y62S	C2015	11	18.17677	01	29	57.50	-21	02	48.2	16.7	VqEW025703
K11Y62S	C2015	11	18.18079	01	29	57.08	-21	01	54.3	16.5	VqEW025703
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K11Y62S	C2015	11	18.18883	01	29	56.20	-21	00	06.9	16.6	VqEW025703
K12R15F	C2015	11	18.21474	00	52	54.820	+08	18	55.51	20.8	rLEW025F51
K12R15F	C2015	11	18.22568	00	52	55.183	+08	19	02.08	20.6	rLEW025F51
K12R15F	C2015	11	18.23673	00	52	55.532	+08	19	08.83	21.1	rLEW025F51
K12R15F	C2015	11	18.24767	00	52	55.880	+08	19	15.17	20.3	rLEW025F51
K12XB2D	KC2015	11	19.35085	04	28	01.86	+13	17	47.6	20.0	RoEW025291
K12XB2D	KC2015	11	19.35371	04	28	01.49	+13	17	47.0	19.6	RoEW025291
K12XB2D	KC2015	11	19.35659	04	28	01.15	+13	17	46.3	20.0	RoEW025291
K13G35J	C2015	11	18.50193	10	56	14.14	+09	18	18.1	18.3	VoEW025691
K13G35J	C2015	11	18.51392	10	56	15.85	+09	17	35.4	18.2	VoEW025691
K13G35J	C2015	11	18.52616	10	56	17.60	+09	16	52.0	18.3	VoEW025691
K13L31L	C2015	11	18.39738	03	03	22.738	-13	08	43.06	19.4	wLEW025F51
K13L31L	C2015	11	18.40896	03	03	21.993	-13	09	15.22	19.4	wLEW025F51
K13L31L	C2015	11	18.42054	03	03	21.246	-13	09	47.50	19.4	wLEW025F51
K13L31L	C2015	11	18.43210	03	03	20.500	-13	10	19.64	19.4	wLEW025F51
K14WK2T	KC2015	11	18.50556	10	40	40.46	+29	49	39.8		oEW025711
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K14WK2T	KC2015	11	18.51142	10	40	42.41	+29	49	52.8		oEW025711
K15FB8P	6C2015	11	14.31266	03	54	22.34	+16	51	22.4	20.2	RoEW025290
K15FB8P	6C2015	11	14.31682	03	54	21.86	+16	51	20.7	20.3	RoEW025290
K15FB8P	6C2015	11	14.32099	03	54	21.40	+16	51	19.1	20.3	RoEW025290
K15G13Z	6C2015	11	14.35612	07	55	46.88	+57	33	16.3	20.8	RoEW025290
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03288	C2015	11	16.96453	02	16	50.64	+13	05	43.9	19.1	woEW025Z22
03288	C2015	11	16.97257	02	16	50.21	+13	05	41.1	19.4	woEW025Z22
05646	C2015	11	15.00831422	08	22.95	-09	21	25.7	17.1	VuEW025H21	
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05646	C2015	11	15.01110122	08	23.52	-09	21	20.2	17.1	VuEW025H21	
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05646	C2015	11	15.01388722	08	24.07	-09	21	15.0	17.2	VuEW025H21	
05646	C2015	11	15.01528122	08	24.36	-09	21	12.2	17.1	VuEW025H21	
05646	C2015	11	15.01653522	08	24.61	-09	21	09.8	17.1	VuEW025H21	
06611	C2015	11	17.90453	00	45	37.36	+09	41	26.0	18.5	woEW025Z22
06611	C2015	11	17.91936	00	45	36.38	+09	41	10.8	18.5	woEW025Z22
06611	C2015	11	17.92699	00	45	35.83	+09	41	03.1	18.4	woEW025Z22
07335	C2015	11	18.22466	03	49	55.59	+17	33	06.9	18.6	VqEW025703
07335	C2015	11	18.22766	03	49	55.24	+17	33	08.0	18.8	VqEW025703
07335	C2015	11	18.23066	03	49	54.83	+17	33	08.9	18.6	VqEW025703
07335	C2015	11	18.23367	03	49	54.44	+17	33	10.2	18.8	VqEW025703
09856	C2015	11	18.44510	05	03	46.354+08	04	49.24	20.7	wLEW025F51	
09856	C2015	11	18.45716	05	03	45.448+08	04	46.47	20.8	wLEW025F51	
09856	C2015	11	18.46926	05	03	44.547+08	04	43.90	20.7	wLEW025F51	
09856	C2015	11	18.48597	05	03	43.289+08	04	40.23	20.7	wLEW025F51	
11054	C2015	10	29.55338	08	11	32.37	+28	49	37.4	17.6	wLEW025T05
11054	C2015	10	29.57219	08	11	38.23	+28	49	21.9	17.3	wLEW025T05
11054	C2015	10	29.59073	08	11	43.96	+28	49	08.8	17.4	wLEW025T05
11054	C2015	10	29.60747	08	11	49.12	+28	48	55.6	17.6	wLEW025T05
11054	C2015	10	29.62023	08	11	53.24	+28	48	44.5	17.5	wLEW025T05
13553	C2015	11	18.31669	04	13	33.49	+13	16	31.9	19.1	rREW025G45
13553	C2015	11	18.32245	04	13	33.03	+13	16	29.9	19.7	rREW025G45
13553	C2015	11	18.32252	04	13	33.01	+13	16	29.7	19.4	rREW025G45
13553	C2015	11	18.32720	04	13	32.59	+13	16	27.9	19.4	rREW025G45
13553	C2015	11	18.32936	04	13	32.42	+13	16	27.5	19.8	rREW025G45
13553	C2015	11	19.35274	04	12	07.07	+13	10	50.8	19.0	VoEW025691
13553	C2015	11	19.36239	04	12	06.25	+13	10	47.7	18.9	VoEW025691
13553	C2015	11	19.37205	04	12	05.41	+13	10	44.7	18.8	VoEW025691
20826	C2015	11	19.42450	06	21	00.25	+77	23	42.0	17.0	RqEW025H45
20826	C2015	11	19.42575	06	21	00.12	+77	23	43.6	17.0	RqEW025H45
20826	C2015	11	19.42686	06	21	00.10	+77	23	45.3	17.2	RqEW025H45
20826	C2015	11	19.42804	06	20	59.92	+77	23	47.1	17.1	RqEW025H45
20826	C2015	11	19.42892	06	20	59.91	+77	23	48.1	17.1	RqEW025H45
20826	C2015	11	19.43001	06	20	59.83	+77	23	49.6	17.1	RqEW025H45
21088	C2015	09	10.03926117	41	55.00	+04	53	45.9	16.2	VuEW025H21	
21088	C2015	09	10.04124117	41	55.15	+04	53	49.3	16.2	VuEW025H21	
21088	C2015	09	10.04321817	41	55.31	+04	53	52.9	16.1	VuEW025H21	
21088	C2015	09	10.04520117	41	55.46	+04	53	56.3	16.1	VuEW025H21	
21088	C2015	09	10.04719817	41	55.62	+04	53	59.9	16.0	VuEW025H21	
25143	C2015	11	18.31979	04	35	34.38	+21	31	26.7	20.4	rREW025G45
25143	C2015	11	18.33104	04	35	33.06	+21	31	25.1	20.6	rREW025G45
25143	C2015	11	18.33643	04	35	32.37	+21	31	24.8	20.2	rREW025G45
25143	C2015	11	18.34162	04	35	31.78	+21	31	24.1	20.3	rREW025G45
25143	C2015	11	18.34738	04	35	31.03	+21	31	23.1	20.2	rREW025G45
25143	C2015	11	18.35274	04	35	30.41	+21	31	22.2	20.6	rREW025G45
33342	C2015	11	15.45820008	53	38.50	-06	11	45.1	16.7	VuEW025H21	
33342	C2015	11	15.45959308	53	38.36	-06	11	45.2	16.7	VuEW025H21	
33342	C2015	11	15.46098908	53	38.21	-06	11	45.2	16.7	VuEW025H21	
33342	C2015	11	15.46238208	53	38.06	-06	11	45.1	16.7	VuEW025H21	
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33342	C2015	11	15.46670708	53	37.60	-06	11	45.4	16.7	VuEW025H21	
33342	C2015	11	19.31929	08	47	09.18	-06	13	19.8		PEW025V78
33342	C2015	11	19.34869	08	47	05.12	-06	13	20.0		PEW025V78
33342	C2015	11	19.37895	08	47	00.91	-06	13	20.1		PEW025V78
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68216	KC2015	11	09.99725719	58	48.32	-13	39	28.2	17.7	VuEW025H21	
68216	KC2015	11	09.99869019	58	48.41	-13	39	22.7	17.7	VuEW025H21	
68216	KC2015	11	10.00012519	58	48.50	-13	39	17.4	18.1	VuEW025H21	
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68216	KC2015	11	10.00299719	58	48.65	-13	39	06.1	17.7	VuEW025H21	
85867	C2015	11	18.29281	01	59	35.244+13	08	10.62	20.5	rLEW025F51	
85867	C2015	11	18.30312	01	59	34.516+13	08	06.65	20.6	rLEW025F51	
85867	C2015	11	18.31344	01	59	33.776+13	08	02.59	20.6	rLEW025F51	
85867	C2015	11	18.32382	01	59	33.049+13	07	58.43	20.5	rLEW025F51	
88263	C2015	11	15.46052306	16	44.46	-04	13	14.2	15.9	VuEW025H21	
88263	C2015	11	15.46188406	16	44.50	-04	13	22.3	15.5	VuEW025H21	
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88263	C2015	11	15.46596806	16	44.61	-04	13	47.5	15.8	VuEW025H21	
88263	C2015	11	15.46732906	16	44.64	-04	13	55.9	15.8	VuEW025H21	
88263	C2015	11	15.46855506	16	44.68	-04	14	03.7	15.9	VuEW025H21	
96744	C2015	11	18.39222	03	41	03.932-10	56	43.15	20.3	wLEW025F51	
96744	C2015	11	18.40380	03	41	03.173-10	56	47.25	20.2	wLEW025F51	
96744	C2015	11	18.41539	03	41	02.406-10	56	51.33	20.3	wLEW025F51	
96744	C2015	11	18.42696	03	41	01.646-10	56	55.40	20.5	wLEW025F51	
B2985	C2015	11	15.01366822	07	40.28	+08	36	07.5	17.9	VuEW025H21	
B2985	C2015	11	15.01502922	07	40.64	+08	36	03.5	17.6	VuEW025H21	
B2985	C2015	11	15.01775222	07	41.34	+08	35	55.4	17.2	VuEW025H21	
B2985	C2015	11	15.01911322	07	41.71	+08	35	51.5	17.1	VuEW025H21	
B2985	C2015	11	15.02020222	07	42.00	+08	35	48.3	17.1	VuEW025H21	
B2985	C2015	11	15.02129222	07	42.29	+08	35	45.1	17.2	VuEW025H21	
E1052	KC2015	11	15.42733109	11	52.47	+24	57	07.3	19.6	VuEW025H21	
E1052	KC2015	11	15.43023309	11	52.82	+24	57	05.1	19.6	VuEW025H21	
E1052	KC2015	11	15.43323209	11	53.17	+24	57	03.1	19.6	VuEW025H21	
F2978	C2015	11	18.25363	04	13	12.30	+19	49	20.4	16.8	VqEW025703
F2978	C2015	11	18.25818	04	13	10.77	+19	49	40.0	16.9	VqEW025703
F2978	C2015	11	18.26272	04	13	09.26	+19	50	00.1	17.1	VqEW025703
F2978	C2015	11	18.26726	04	13	07.68	+19	50	20.0	17.1	VqEW025703

F2978	C2015	11	19.27984	04	07	36.57	+21	02	22.4	17.2	RqEW025850
F2978	C2015	11	19.29480	04	07	31.52	+21	03	24.8	17.0	RqEW025850
F2978	C2015	11	19.30972	04	07	26.48	+21	04	27.4	17.1	RqEW025850
F2978	C2015	11	19.32465	04	07	21.48	+21	05	29.2	17.5	RqEW025850
F2978	C2015	11	19.33961	04	07	16.43	+21	06	31.3	17.5	RqEW025850
F2978	C2015	11	19.34474	04	07	14.86	+21	06	54.0	17.7	RqEW025H45
F2978	C2015	11	19.34545	04	07	14.66	+21	06	57.0	17.6	RqEW025H45
F2978	C2015	11	19.34605	04	07	14.44	+21	06	59.5	17.8	RqEW025H45
F2978	C2015	11	19.34683	04	07	14.18	+21	07	02.8	17.8	RqEW025H45
F2978	C2015	11	19.34781	04	07	13.86	+21	07	07.1	17.7	RqEW025H45
F2978	C2015	11	19.34869	04	07	13.57	+21	07	10.8	17.8	RqEW025H45
F4007	C2015	11	18.29924	02	41	32.436+14		34	56.50	20.9	rLEW025F51
F4007	C2015	11	18.31988	02	41	30.904+14		34	48.80	20.9	rLEW025F51
F4007	C2015	11	18.33029	02	41	30.109+14		34	44.58	20.6	rLEW025F51
G3760	KC2015	11	10.01725821	27	43.11	-05	31	15.2		19.5	VuEW025H21
G3760	KC2015	11	10.01876821	27	43.25	-05	31	15.8		19.2	VuEW025H21
G3760	KC2015	11	10.02329921	27	43.71	-05	31	17.4		19.8	VuEW025H21
G3760	KC2015	11	10.02632121	27	44.03	-05	31	18.0		19.7	VuEW025H21
G3760	KC2015	11	10.02944421	27	44.33	-05	31	19.3		19.7	VuEW025H21
G3899	S2015	11	16.56982	10	32	09.28	+39	45	21.9	16	RLEW025C51
G3899	s2015	11	16.56982	1	-	5151.8067	+	1693.8313	+	4203.8370	EW025C51
G3899	S2015	11	16.70098	10	32	31.24	+39	41	46.0		LEW025C51
G3899	s2015	11	16.70098	1	-	5158.3350	+	1683.7326	+	4199.8824	EW025C51
G3899	S2015	11	16.83214	10	32	53.19	+39	38	08.8		LEW025C51
G3899	s2015	11	16.83214	1	-	5164.8683	+	1673.6293	+	4195.8863	EW025C51
G3899	S2015	11	17.22562	10	33	59.38	+39	27	10.0		LEW025C51
G3899	s2015	11	17.22562	1	-	5184.6928	+	1643.4164	+	4183.3600	EW025C51
G3899	S2015	11	17.35678	10	34	21.55	+39	23	28.1		LEW025C51
G3899	s2015	11	17.35678	1	-	5191.2407	+	1633.2900	+	4179.2056	EW025C51
G3899	S2015	11	17.48793	10	34	43.76	+39	19	44.5		LEW025C51
G3899	s2015	11	17.48793	1	-	5197.8081	+	1623.1683	+	4174.9850	EW025C51
G3899	S2015	11	17.75025	10	35	28.31	+39	12	14.4		LEW025C51
G3899	s2015	11	17.75025	1	-	5210.9679	+	1602.9161	+	4166.3949	EW025C51
G3899	S2015	11	17.81583	10	35	39.48	+39	10	20.9		LEW025C51
G3899	s2015	11	17.81583	1	-	5214.2357	+	1597.8329	+	4164.2583	EW025C51
G3899	S2015	11	17.88141	10	35	50.65	+39	08	27.5		LEW025C51
G3899	s2015	11	17.88141	1	-	5217.5383	+	1592.7709	+	4162.0599	EW025C51
G3899	S2015	11	17.88154	10	35	50.68	+39	08	27.9		LEW025C51
G3899	s2015	11	17.88154	1	-	5261.2259	+	1620.4315	+	4096.0353	EW025C51
G3899	S2015	11	17.94699	10	36	01.84	+39	06	33.4		LEW025C51
G3899	s2015	11	17.94699	1	-	5220.8431	+	1587.7062	+	4159.8540	EW025C51
G3899	S2015	11	17.94712	10	36	01.87	+39	06	33.9		LEW025C51
G3899	s2015	11	17.94712	1	-	5264.5361	+	1615.3088	+	4093.8085	EW025C51
G3899	S2015	11	18.01257	10	36	13.04	+39	04	39.1		LEW025C51
G3899	s2015	11	18.01257	1	-	5224.1330	+	1582.6323	+	4157.6524	EW025C51
G3899	S2015	11	18.01270	10	36	13.07	+39	04	39.6		LEW025C51
G3899	s2015	11	18.01270	1	-	5267.8479	+	1610.1872	+	4091.5616	EW025C51
G3899	S2015	11	18.07815	10	36	24.26	+39	02	44.4		LEW025C51
G3899	s2015	11	18.07815	1	-	5227.4435	+	1577.5667	+	4155.4227	EW025C51
G3899	S2015	11	18.07827	10	36	24.30	+39	02	45.0		LEW025C51
G3899	s2015	11	18.07827	1	-	5271.1472	+	1605.0532	+	4089.3359	EW025C51
G3899	S2015	11	18.14385	10	36	35.52	+39	00	49.8		LEW025C51
G3899	s2015	11	18.14385	1	-	5274.4590	+	1599.9271	+	4087.0687	EW025C51
G3899	S2015	11	18.20943	10	36	46.76	+38	58	54.7		LEW025C51
G3899	s2015	11	18.20943	1	-	5277.7438	+	1594.7802	+	4084.8461	EW025C51
G3899	S2015	11	18.27501	10	36	58.00	+38	56	59.0		LEW025C51
G3899	s2015	11	18.27501	1	-	5281.0594	+	1589.6516	+	4082.5555	EW025C51
G3899	S2015	11	18.34059	10	37	09.28	+38	55	03.0		LEW025C51
G3899	s2015	11	18.34059	1	-	5284.3488	+	1584.5040	+	4080.3044	EW025C51
G3899	S2015	11	18.47175	10	37	31.84	+38	51	10.1		LEW025C51
G3899	s2015	11	18.47175	1	-	5290.9886	+	1574.2408	+	4075.6711	EW025C51
I9040	C2015	11	18.38836	03	16	44.044-12		20	19.40	21.5	wLEW025F51
I9040	C2015	11	18.39995	03	16	42.636-12		20	23.51	21.3	wLEW025F51
I9040	C2015	11	18.41154	03	16	41.231-12		20	27.57	21.2	wLEW025F51
I9040	C2015	11	18.42310	03	16	39.820-12		20	31.31	21.3	wLEW025F51
J4386	C2015	11	18.32003	04	36	39.75	+25	33	56.0	18.5	rREW025G45
J4386	C2015	11	18.32532	04	36	39.31	+25	33	51.8	18.4	rREW025G45
J4386	C2015	11	18.33003	04	36	38.97	+25	33	48.4	18.4	rREW025G45
J4386	C2015	11	18.33091	04	36	38.88	+25	33	47.5	18.4	rREW025G45
J4386	C2015	11	18.33630	04	36	38.47	+25	33	43.6	18.3	rREW025G45
J4386	C2015	11	18.34149	04	36	38.05	+25	33	39.2	18.2	rREW025G45
J4386	C2015	11	18.34677	04	36	37.64	+25	33	35.1	18.3	rREW025G45
J4386	C2015	11	18.35210	04	36	37.22	+25	33	31.1	18.0	rREW025G45
J4386	C2015	11	19.34977	04	35	21.38	+25	20	25.9	18.1	RqEW025H45
J4386	C2015	11	19.35071	04	35	21.28	+25	20	24.9	18.1	RqEW025H45
J4386	C2015	11	19.35210	04	35	21.14	+25	20	23.6	18.1	RqEW025H45
J4386	C2015	11	19.35377	04	35	21.02	+25	20	22.3	18.1	RqEW025H45
J4386	C2015	11	19.35488	04	35	20.95	+25	20	21.3	18.0	RqEW025H45
J4386	C2015	11	19.35606	04	35	20.85	+25	20	20.4	18.1	RqEW025H45
K6378	C2015	11	19.43126	06	50	28.72	+49	22	19.3	18.0	RqEW025H45
K6378	C2015	11	19.43290	06	50	28.46	+49	22	18.3	18.1	RqEW025H45
K6378	C2015	11	19.43436	06	50	28.24	+49	22	17.3	18.3	RqEW025H45
K6378	C2015	11	19.43528	06	50	28.08	+49	22	16.5	18.3	RqEW025H45
K6378	C2015	11	19.43648	06	50	27.91	+49	22	15.7	18.1	RqEW025H45
K6378	C2015	11	19.43756	06	50	27.74	+49	22	15.1	17.9	RqEW025H45
P2373	C2015	11	18.40123	03	19	41.422-09		15	11.44	21.5	wLEW025F51
P2373	C2015	11	18.41282	03	19	39.971-09		15	22.85	21.2	wLEW025F51
P2373	C2015	11	18.42439	03	19	38.520-09		15	34.46	20.9	wLEW025F51
P3106	C2015	11	17.96844	02	40	40.25	+13	43	20.2	15.8	woEW025Z22
P3106	C2015	11	17.97675	02	40	35.76	+13	43	31.0	15.8	woEW025Z22
R6660	C2015	11	18.46244	09	00	18.14	+10	11	29.2	20.3	rREW025G45
R6660	C2015	11	18.46251	09	00	18.16	+10	11	29.1	20.3	rREW025G45
R6660	C2015	11	18.46642	09	00	18.56	+10	11	16.0	20.7	rREW025G45
R6660	C2015	11	18.46793	09	00	18.66	+10	11	11.0	20.3	rREW025G45
R6660	C2015	11	18.47164	09	00	19.03	+10	10	58.0	19.8	rREW025G45
R6660	C2015	11	18.47316	09	00	19.18	+10	10	53.2	20.0	rREW025G45
R6660	C2015	11	18.47700	09	00	19.55	+10	10	40.3	20.0	rREW025G45

R6660	C2015	11	18.47875	09	00	19.74	+10	10	34.5	19.9	rREW025G45
R6660	C2015	11	18.48077	09	00	19.90	+10	10	27.8	20.2	rREW025G45
R6660	C2015	11	18.49186	09	00	20.99	+10	09	50.4	19.8	rREW025G45
R6660	C2015	11	18.50331	09	00	22.12	+10	09	12.4	19.8	rREW025G45
X7866	C2015	11	19.37535	05	37	31.75	+02	27	44.8	17.6	RqEW025H45
X7866	C2015	11	19.37691	05	37	31.85	+02	27	43.8	17.6	RqEW025H45
X7866	C2015	11	19.37769	05	37	31.89	+02	27	43.5	17.5	RqEW025H45
X7866	C2015	11	19.37885	05	37	32.01	+02	27	43.0	17.5	RqEW025H45
X7866	C2015	11	19.38036	05	37	32.14	+02	27	42.3	17.7	RqEW025H45
X7866	C2015	11	19.38177	05	37	32.24	+02	27	41.8	17.6	RqEW025H45
Y8400	C2015	11	18.29245	03	40	48.93	-15	33	12.9	17.3	VqEW025703
Y8400	C2015	11	18.29695	03	40	48.62	-15	33	05.9	17.3	VqEW025703
Y8400	C2015	11	18.30146	03	40	48.22	-15	32	59.9	17.3	VqEW025703
Y8400	C2015	11	18.30597	03	40	47.87	-15	32	52.0	17.1	VqEW025703
Y8400	C2015	11	18.39544	03	40	42.286	-15	30	31.98	17.2	wLEW025F51
Y8400	C2015	11	18.40703	03	40	41.430	-15	30	14.27	17.3	wLEW025F51
Y8400	C2015	11	18.41861	03	40	40.572	-15	29	56.58	17.3	wLEW025F51
Y8400	C2015	11	18.43017	03	40	39.719	-15	29	38.81	17.2	wLEW025F51
Y9925	KC2015	11	15.21522302	02	58.25	+07	41	15.5		22.2	VuEW025H21
Y9925	KC2015	11	15.22572502	02	57.56	+07	41	11.1		22.6	VuEW025H21
Y9925	KC2015	11	15.23310402	02	57.08	+07	41	08.2		22.4	VuEW025H21
Z0713	C2015	11	18.17677	01	23	54.27	-20	12	51.2	18.6	VqEW025703
Z0713	C2015	11	18.18079	01	23	54.51	-20	12	38.8	19.0	VqEW025703
Z0713	C2015	11	18.18481	01	23	54.87	-20	12	26.3	18.7	VqEW025703
Z0713	C2015	11	18.18883	01	23	55.11	-20	12	11.9	19.6	VqEW025703
a3734	C2015	11	18.48451	09	32	41.22	+16	56	05.9	19.2	rREW025G45
a3734	C2015	11	18.49007	09	32	39.53	+16	56	16.4	19.2	rREW025G45
a3734	C2015	11	18.49543	09	32	37.91	+16	56	27.1	19.2	rREW025G45
a3734	C2015	11	18.50078	09	32	36.27	+16	56	37.4	19.2	rREW025G45
a3734	C2015	11	18.50479	09	32	35.07	+16	56	44.9	19.1	rREW025G45
a3734	C2015	11	18.51203	09	32	32.83	+16	56	58.9	19.2	rREW025G45
a3734	C2015	11	18.51739	09	32	31.19	+16	57	09.4	19.4	rREW025G45
a3734	C2015	11	18.52275	09	32	29.60	+16	57	19.9	19.4	rREW025G45
a3734	C2015	11	18.52851	09	32	27.85	+16	57	30.9	19.0	rREW025G45
c1906	C2015	11	18.39129	08	18	14.85	+15	35	46.2		qEW025703
c1906	C2015	11	18.40033	08	18	12.99	+15	35	43.4	18.0	VqEW025703
c1906	C2015	11	18.40485	08	18	11.95	+15	35	42.4	17.9	VqEW025703
g3709	KC2015	11	15.07549423	34	48.87	+23	27	54.8		22.2	VuEW025H21
g3709	KC2015	11	15.08942523	34	49.21	+23	27	43.8		22.2	VuEW025H21
g3709	KC2015	11	15.10242623	34	49.52	+23	27	34.3		22.1	VuEW025H21
h8429	C2015	11	18.21378	02	07	19.46	+15	12	04.7	19.1	rREW025G45
h8429	C2015	11	18.21968	02	07	19.41	+15	12	01.4	19.1	rREW025G45
h8429	C2015	11	18.22503	02	07	19.39	+15	11	58.9	19.2	rREW025G45
h8429	C2015	11	18.22965	02	07	19.35	+15	11	56.3	18.9	rREW025G45
h8429	C2015	11	18.23140	02	07	19.35	+15	11	55.7	19.1	rREW025G45
h8429	C2015	11	18.24252	02	07	19.27	+15	11	50.1	19.2	rREW025G45
h8429	C2015	11	18.25063	02	07	19.26	+15	11	44.9	18.4	rREW025G45
h8429	C2015	11	18.26222	02	07	19.19	+15	11	38.7	20.2	rREW025G45
h8429	C2015	11	18.26265	02	07	19.13	+15	11	39.0	19.0	rREW025G45
h8429	C2015	11	18.26306	02	07	19.11	+15	11	38.8	19.1	rREW025G45
h8429	C2015	11	18.26316	02	07	19.12	+15	11	38.5	19.2	rREW025G45
h8429	C2015	11	18.26323	02	07	19.11	+15	11	38.6	19.1	rREW025G45
h8429	C2015	11	18.26333	02	07	19.10	+15	11	38.5	19.2	rREW025G45
h8429	C2015	11	18.26339	02	07	19.17	+15	11	38.6	19.9	rREW025G45
h8429	C2015	11	18.26350	02	07	19.13	+15	11	38.3	18.9	rREW025G45
h8429	C2015	11	18.26356	02	07	19.12	+15	11	38.5	19.1	rREW025G45
h8429	C2015	11	18.26366	02	07	19.15	+15	11	38.7	18.9	rREW025G45
h8429	C2015	11	18.26393	02	07	19.13	+15	11	38.4	19.3	rREW025G45
h8429	C2015	11	18.26400	02	07	19.11	+15	11	38.6	19.0	rREW025G45
i2742	C2015	11	18.33350	05	11	26.19	+04	51	40.0	17.8	rREW025G45
i2742	C2015	11	18.34010	05	11	25.70	+04	51	24.3	18.0	rREW025G45
i2742	C2015	11	18.34455	05	11	25.47	+04	51	14.0	18.0	rREW025G45
i2742	C2015	11	18.35136	05	11	24.89	+04	50	57.9	18.0	rREW025G45
i2742	C2015	11	18.35661	05	11	24.52	+04	50	45.5	18.0	rREW025G45
i2742	C2015	11	18.35786	05	11	24.43	+04	50	42.5	17.9	rREW025G45
i2742	C2015	11	18.36338	05	11	24.02	+04	50	29.6	18.0	rREW025G45
i2742	C2015	11	18.36830	05	11	23.68	+04	50	18.0	18.0	rREW025G45
i2742	C2015	11	18.37514	05	11	23.19	+04	50	01.8	18.0	rREW025G45
i6924	C2015	11	01.42827	04	15	03.91	+20	27	07.9	17.7	RoEW025926
i6924	C2015	11	01.43242	04	15	02.86	+20	26	56.3	17.8	VqEW025703
i6924	C2015	11	01.43532	04	15	02.08	+20	26	48.8	17.7	RoEW025926
i6924	C2015	11	01.43751	04	15	01.51	+20	26	42.3	17.8	VqEW025703
i6924	C2015	11	01.44309	04	15	00.07	+20	26	27.6	17.6	RoEW025926
i6924	C2015	11	01.44759	04	14	58.85	+20	26	15.0		qEW025703

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