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MPEC 2019-D40 : DAILY ORBIT UPDATE (2019 FEB. 27 UT)

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M.P.E.C. 2019-D40

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DAILY ORBIT UPDATE (2019 FEB. 27 UT)

Update to [MPEC 2019-D31](#)

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New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp C
J95S80V	16.4	0.15	K194R	54.383	312.358	138.745	2.717	0.08605	3.08548	12 X
J95U77K	17.2	0.15	K194R	46.926	273.339	182.843	0.576	0.15148	3.11477	6 X
J95W36C	18.1	0.15	K194R	99.056	349.227	58.179	3.188	0.16097	2.41202	7 X
J96R22J	17.2	0.15	K194R	245.058	311.805	349.549	14.321	0.17406	2.53698	8 W
J98B13U	16.8	0.15	K194R	20.865	0.888	137.980	11.252	0.14264	2.58713	7 X
J98B28Q	16.4	0.15	K194R	270.238	131.537	128.497	10.212	0.06182	2.99544	9 X
J98B40D	16.8	0.15	K194R	77.830	320.961	131.800	9.923	0.06200	2.98728	5 X
J98V47O	17.5	0.15	K194R	36.118	64.439	52.772	3.047	0.14294	2.47512	7 X
J99T43K	17.3	0.15	K194R	289.334	265.676	358.062	12.488	0.24784	2.61991	5 W
K00AG4V	17.0	0.15	K194R	184.518	248.167	93.878	5.461	0.08227	2.77924	10 X
K00B44X	16.4	0.15	K194R	13.882	51.534	114.855	5.579	0.06232	2.78297	10 X
K00CC7R	17.9	0.15	K194R	51.923	352.809	107.186	2.320	0.18500	2.41946	7 X
K00D16V	17.9	0.15	K194R	46.049	152.038	334.394	18.595	0.07660	1.94708	6 X
K00EK8V	17.7	0.15	K194R	325.085	53.355	157.168	1.586	0.13815	2.45718	7 X
K00J89X	16.7	0.15	K194R	353.489	172.987	9.948	15.252	0.07026	2.84124	9 X
K00O02L	16.1	0.15	K194R	244.004	329.616	309.518	8.574	0.05593	3.00528	8 X
K00Q34R	16.6	0.15	K194R	181.361	0.891	345.812	12.574	0.29739	2.57225	6 X
K00T00W	17.2	0.15	K194R	154.617	353.690	7.487	14.813	0.19835	2.60485	6 W
K00T30Y	17.5	0.15	K194R	58.387	10.939	88.308	4.127	0.07430	2.62791	8 X
K00W34V	16.7	0.15	K194R	115.672	280.030	105.436	9.546	0.26126	2.65792	9 X
K00Y09C	16.6	0.15	K194R	56.629	331.209	128.454	2.789	0.04216	2.68031	12 X
K01D64G	17.4	0.15	K194R	17.140	353.228	152.421	24.281	0.16332	2.35253	7 X
K01D86S	17.9	0.15	K194R	87.057	29.564	39.366	6.745	0.17286	2.34300	4 X
K01QM6Y	17.9	0.15	K194R	198.921	3.872	324.643	17.481	0.09689	1.94370	3 X
K01R04Z	16.5	0.15	K194R	72.281	65.289	338.787	12.623	0.37436	3.07260	6 X

K01R42A	17.9	0.15	K194R	45.934	73.625	351.096	21.371	0.51921	3.12075	4	X
K01R47D	17.2	0.15	K194R	40.911	75.797	350.498	27.907	0.38233	2.58948	4	X
K01RB9W	16.1	0.15	K194R	91.720	227.917	157.446	16.157	0.28091	3.04547	7	X
K01SJ9X	17.3	0.15	K194R	264.409	250.537	37.457	2.711	0.15512	2.45065	13	X
K01TA8K	16.7	0.15	K194R	22.046	222.948	271.646	5.639	0.03770	2.52392	10	X
K01TP5O	16.7	0.15	K194R	80.550	257.722	162.343	9.506	0.16252	3.04739	9	X
K01TQ2B	17.6	0.15	K194R	109.539	292.008	104.232	4.737	0.15414	2.53371	7	X
K01UI5J	15.9	0.15	K194R	229.265	296.964	17.448	11.822	0.13002	2.90952	9	W
K01UK7R	16.0	0.15	K194R	54.012	74.948	38.132	9.693	0.06714	2.99640	8	X
K01VD3U	16.3	0.15	K194R	296.246	96.387	131.434	10.767	0.01052	3.01310	9	X
K01Y04B	17.2	0.15	K194R	14.308	79.492	84.889	28.659	0.38523	2.60586	4	X
K01Y12J	16.7	0.15	K194R	5.269	205.170	317.721	7.519	0.12476	2.57012	11	X
K02A44Y	16.9	0.15	K194R	31.475	1.114	119.260	11.930	0.25603	3.14960	5	X
K02A74D	16.1	0.15	K194R	239.630	343.127	293.975	12.730	0.03179	2.59442	10	X
K02A76J	16.3	0.15	K194R	58.740	138.796	304.926	8.658	0.16267	3.13785	8	X
K02AC6M	16.6	0.15	K194R	98.649	272.954	150.714	4.561	0.04542	2.58963	13	X
K02C17T	17.1	0.15	K194R	39.925	161.612	314.282	6.093	0.14220	2.60338	9	X
K02CB8P	15.5	0.15	K194R	214.151	208.238	125.134	12.222	0.10903	3.07770	7	X
K02CG3D	17.0	0.15	K194R	70.015	93.760	347.286	11.816	0.16732	2.60990	7	X
K02CI4B	16.8	0.15	K194R	284.397	121.037	136.527	15.148	0.10628	2.60633	6	X
K02CI8N	18.0	0.15	K194R	42.548	89.889	20.293	2.004	0.13078	2.26331	7	X
K02CK5U	15.8	0.15	K194R	81.857	258.327	150.096	26.400	0.24619	3.18726	8	X
K02CQ7G	16.9	0.15	K194R	62.522	119.935	326.105	21.498	0.04619	2.63302	5	X
K02CQ9J	17.1	0.15	K194R	248.396	135.240	148.448	3.413	0.02324	2.61786	11	X
K02CS5Y	17.0	0.15	K194R	85.648	278.228	142.792	7.795	0.18582	2.60888	7	X
K02CV7K	15.9	0.15	K194R	345.192	205.093	341.109	15.937	0.15331	3.16856	7	X
K02E50L	17.5	0.15	K194R	294.620	257.859	345.920	2.952	0.08391	2.27226	9	X
K02EF8R	16.6	0.15	K194R	8.475	158.523	347.443	9.414	0.07356	3.20857	7	X
K02F23O	17.0	0.15	K194R	322.557	221.630	344.486	16.457	0.13517	3.19687	3	X
K02G97P	17.1	0.15	K194R	343.739	330.111	220.258	2.377	0.13597	2.65472	9	X
K02GJ1N	17.3	0.15	K194R	259.954	174.314	114.581	9.949	0.22596	2.30529	11	X
K02GJ2F	17.7	0.15	K194R	333.648	130.586	91.884	7.062	0.12770	2.26818	6	X
K02H18J	16.9	0.15	K194R	297.396	123.152	131.367	14.106	0.23824	2.67030	9	X
K02JF1S	17.5	0.15	K194R	277.233	198.228	85.508	6.820	0.23782	2.31694	7	X
K02L64S	17.3	0.15	K194R	198.772	190.968	142.088	6.203	0.12435	2.32797	10	X
K02M06N	16.3	0.15	K194R	242.146	177.529	117.481	10.185	0.14757	2.75991	9	W
K02P20L	17.7	0.15	K194R	266.372	327.219	303.010	5.590	0.15869	2.34609	8	X
K02P87T	17.7	0.15	K194R	165.693	33.304	325.226	19.148	0.10970	1.86848	5	X
K02PD0J	16.9	0.15	K194R	232.830	331.152	336.831	22.469	0.16197	2.35822	4	X
K02Q15K	17.1	0.15	K194R	255.147	135.877	155.570	35.243	0.22462	2.75752	4	X
K02Q80Y	17.7	0.15	K194R	320.163	106.483	117.549	6.065	0.19861	2.34475	7	X
K02Q92Z	17.1	0.15	K194R	213.187	224.213	90.737	4.819	0.08691	2.80644	9	X
K02QD1C	16.2	0.15	K194R	88.670	307.023	124.849	9.406	0.10225	2.82841	7	X
K02QE3C	17.8	0.15	K194R	0.502	206.757	323.676	17.563	0.08428	1.86654	6	X
K02QE7U	16.4	0.15	K194R	200.255	223.645	95.724	4.750	0.08915	2.80855	13	X
K02QF0E	17.3	0.15	K194R	293.257	147.459	115.240	6.694	0.12616	2.33711	9	X
K02R23G	17.4	0.15	K194R	247.822	320.158	338.828	3.149	0.20235	2.35460	10	X
K02R71P	16.6	0.15	K194R	238.962	311.035	346.408	9.107	0.18261	2.78276	8	W
K02RO5W	16.5	0.15	K194R	97.369	263.222	148.008	11.541	0.18290	2.86608	7	X
K02RS0S	16.7	0.15	K194R	139.051	229.139	144.352	15.873	0.15854	2.83622	4	X
K02RT0K	16.2	0.15	K194R	239.500	296.554	6.035	14.416	0.14095	2.77502	9	X
K02S35R	17.2	0.15	K194R	188.641	318.689	26.136	3.545	0.18439	2.39603	10	W
K02S75D	18.7	0.15	K194R	118.505	46.971	359.411	20.935	0.14365	1.87869	4	X
K02TB6Q	17.3	0.15	K194R	71.228	98.272	339.512	5.820	0.15567	2.44501	8	X
K02TQ9S	17.1	0.15	K194R	253.096	306.757	356.976	13.146	0.28387	2.35351	8	X
K02Tc7P	16.5	0.15	K194R	268.704	146.512	104.799	3.251	0.00794	2.86515	14	X
K02Tc8T	17.2	0.15	K194R	69.746	74.878	347.331	13.175	0.27321	2.96916	5	X
K02U79L	17.5	0.15	K194R	119.554	10.388	37.043	19.086	0.08190	1.88045	6	X
K02V01S	18.0	0.15	K194R	109.424	324.723	72.431	2.635	0.18533	2.45132	8	X
K02V95U	17.3	0.15	K194R	120.632	24.718	8.724	8.633	0.24051	2.44303	4	W
K03B09A	15.9	0.15	K194R	40.962	336.761	148.904	14.348	0.16588	3.01566	9	X
K03B73Z	15.7	0.15	K194R	327.071	196.240	0.074	10.202	0.04486	3.03269	11	X
K03B93L	16.6	0.15	K194R	79.747	52.509	25.844	10.096	0.06532	3.02357	10	X
K03B94G	16.7	0.15	K194R	348.954	171.731	27.040	8.958	0.19800	3.02003	6	X
K03C23D	16.5	0.15	K194R	156.901	213.164	140.850	10.021	0.15215	3.06128	5	W
K03D10Q	16.7	0.15	K194R	30.254	138.634	341.521	21.474	0.29909	3.06209	3	X
K03F87O	17.1	0.15	K194R	70.140	312.126	130.410	7.497	0.15857	2.54581	10	X
K03G18F	16.8	0.15	K194R	33.647	116.485	8.929	13.035	0.11291	3.10289	6	X
K03G20B	16.9	0.15	K194R	219.980	154.564	162.949	0.630	0.15930	2.54749	8	X
K03J09M	16.6	0.15	K194R	257.199	228.051	66.673	9.820	0.15744	2.57681	7	X
K03K34K	16.3	0.15	K194R	279.921	112.878	155.253	10.422	0.20171	3.14936	8	X
K03QA9A	16.6	0.15	K194R	149.984	199.367	165.362	6.314	0.04297	2.72038	8	X
K03S84X	17.7	0.15	K194R	82.587	334.843	75.303	10.247	0.39994	2.37212	3	X
K03SB0E	16.3	0.15	K194R	114.816	36.836	13.360	8.775	0.11334	2.76528	9	X
K03Sa1L	17.0	0.15	K194R	32.765	286.351	194.954	4.120	0.06081	2.74091	9	X
K03Sa4W	18.3	0.15	K194R	72.590	175.158	252.352	2.075	0.20181	2.34264	6	X
K03Sa7A	18.6	0.15	K194R	85.389	92.933	352.546	18.930	0.09487	2.01400	3	X
K03Sd7E	18.2	0.15	K194R	63.563	351.589	114.284	7.719	0.07782	2.32577	7	X
K03Sf4X	17.2	0.15	K194R	48.754	331.424	128.242	2.890	0.20845	2.79590	3	X
K03Sh5T	17.6	0.15	K194R	171.452	337.967	20.520	4.059	0.17786	2.29105	6	W
K03T55O	15.9	0.15	K194R	185.998	282.356	60.117	10.418	0.04394	3.45430	7	X
K03U07Y	18.9	0.15	K194R	80.611	98.857	348.347	20.415	0.10747	1.80617	4	X
K03U34H	16.6	0.15	K194R	136.659	48.431	333.062	4.407	0.00866	2.76903	12	X
K03U61Q	16.3	0.15	K194R	158.994	199.450	159.630	8.359	0.18251	2.74650	9	W
K03UI2Y	17.0	0.15	K194R	162.840	344.664	6.027	4.333	0.21657	2.75784	5	W
K03UK5C	18.4	0.15	K194R	94.220	241.652	166.100	2.113	0.22050	2.35098	6	X
K03UU5U	17.0	0.15	K194R	197.809	13.792	305.696	5.409	0.03957	2.76273	10	X
K03UU7D	17.5	0.15	K194R	54.692	100.303	356.796	7.112	0.19060	2.80689	6	X
K03UX3B	16.9	0.15	K194R	295.736	239.127	354.400	11.425	0.05309	2.71369	8	X
K03UZ5Q	16.7	0.15	K194R	52.314	87.897	18.531	8.294	0.16949	2.80542	9	X
K03UZ8C	18.8	0.15	K194R	72.839	274.316	169.349	1.189	0.14829	2.34768	6	X

K03Ua1C	17.1	0.15	K194R	122.994	205.822	178.016	6.014	0.04396	2.76655	6	X
K03Uc0D	17.4	0.15	K194R	122.286	331.516	54.803	4.137	0.10107	2.76879	9	W
K03Uc2S	16.8	0.15	K194R	226.788	140.524	153.236	6.054	0.02266	2.74923	8	X
K03Uc6P	17.9	0.15	K194R	333.366	52.922	144.592	6.560	0.04919	2.31332	8	X
K03Ud9A	16.4	0.15	K194R	288.532	132.419	139.727	13.816	0.22360	2.70324	10	X
K03WF6N	17.8	0.15	K194R	22.139	331.606	156.691	9.825	0.48488	2.90578	5	X
K03WF6S	18.0	0.15	K194R	80.281	343.186	87.909	3.825	0.21056	2.35928	4	X
K03WH7G	19.0	0.15	K194R	59.891	13.979	86.351	3.536	0.18909	2.33247	5	W
K03W11E	13.9	0.15	K194R	292.484	166.952	77.360	10.320	0.02817	5.17015	9	W
K03WJ4Y	18.3	0.15	K194R	83.744	6.814	73.506	6.539	0.13561	2.35390	7	W
K04B40Q	17.7	0.15	K194R	42.834	343.837	127.991	11.774	0.20990	2.40586	5	X
K04BA0T	17.9	0.15	K194R	351.241	71.108	124.247	5.417	0.13058	2.38994	8	X
K04C47C	18.0	0.15	K194R	62.686	29.316	49.096	3.292	0.20966	2.41625	4	X
K04CC1N	16.3	0.15	K194R	248.718	288.166	335.636	8.169	0.03640	2.94724	11	X
K04D74G	16.6	0.15	K194R	63.701	106.823	331.995	11.859	0.11028	2.94780	7	X
K04E22S	16.4	0.15	K194R	78.462	252.216	174.237	7.760	0.05585	2.98009	10	X
K04E23Q	18.6	0.15	K194R	348.645	209.157	353.750	28.057	0.13776	2.08187	8	X
K04H19O	17.4	0.15	K194R	336.886	197.995	13.011	1.984	0.16665	2.43311	8	X
K04P44T	16.8	0.15	K194R	202.718	169.053	147.376	28.831	0.13328	2.57944	6	X
K04P70S	16.8	0.15	K194R	188.856	5.335	327.352	8.774	0.13580	2.57511	7	X
K04Q16Q	17.5	0.15	K194R	15.744	53.382	102.156	5.409	0.01864	2.56980	7	W
K04R04N	16.3	0.15	K194R	168.533	284.535	83.069	9.507	0.09035	2.58903	6	X
K04R24Z	17.6	0.15	K194R	96.537	272.815	152.102	1.234	0.08383	2.61390	6	X
K04RB9B	16.9	0.15	K194R	187.092	38.831	295.396	2.438	0.05090	2.61012	9	X
K04RG6Y	17.4	0.15	K194R	245.407	319.326	337.654	15.014	0.16084	2.55359	5	W
K04RG7E	16.8	0.15	K194R	234.098	176.681	130.592	6.911	0.18613	2.56065	10	X
K04RP3E	16.7	0.15	K194R	115.253	284.796	118.588	9.914	0.23454	2.65388	7	X
K04RSON	18.3	0.15	K194R	70.342	110.935	342.100	6.075	0.09376	2.21231	7	X
K04RZ1J	18.0	0.15	K194R	239.577	310.805	348.718	7.460	0.13807	2.17589	7	X
K04T59M	17.7	0.15	K194R	38.971	68.738	42.805	2.518	0.16592	2.67295	8	X
K04T70W	18.2	0.15	K194R	118.843	23.992	24.114	5.687	0.14591	2.21865	5	X
K04T95S	18.5	0.15	K194R	93.910	40.548	25.051	6.438	0.15836	2.23665	6	X
K04TQ2S	17.1	0.15	K194R	65.605	43.017	35.897	15.924	0.30610	2.71562	6	X
K04TX8P	17.1	0.15	K194R	34.039	94.463	30.484	3.727	0.05225	2.66758	9	X
K04T26K	17.0	0.15	K194R	110.560	282.987	100.128	5.627	0.28705	2.67651	4	X
K04Ta5H	17.0	0.15	K194R	4.120	160.108	13.053	14.946	0.04090	2.61283	5	X
K04V51M	18.1	0.15	K194R	33.228	269.760	204.696	6.762	0.12569	2.26937	7	X
K04XD3Z	17.1	0.15	K194R	42.995	41.582	62.359	16.365	0.27122	2.74171	5	X
K04XF9D	16.4	0.15	K194R	214.280	201.801	105.848	6.102	0.07174	2.72490	7	X
K04XH5P	17.0	0.15	K194R	41.584	42.294	79.841	8.133	0.07789	2.71612	7	X
K04XH8R	16.2	0.15	K194R	55.381	344.791	122.133	15.319	0.15559	2.73997	10	X
K04XI0L	18.4	0.15	K194R	81.560	335.064	97.454	3.458	0.17419	2.27415	4	X
K05A76O	18.0	0.15	K194R	345.802	208.709	337.491	5.695	0.10716	2.29830	4	W
K05C07L	19.6	0.15	K194R	245.055	201.539	136.605	31.282	0.10055	1.04875	3	W
K05C29C	17.0	0.15	K194R	302.546	128.317	110.823	4.874	0.04089	2.76512	4	X
K05E37P	18.6	0.15	K194R	318.984	236.505	353.737	2.225	0.18268	2.31532	3	X
K05E59Y	16.9	0.15	K194R	108.274	256.941	152.201	6.047	0.11778	2.78022	7	X
K05ED4W	17.0	0.15	K194R	52.902	125.890	338.522	16.587	0.07062	2.80924	7	X
K05EF0D	18.3	0.15	K194R	308.079	118.387	136.348	4.765	0.23855	2.32637	6	X
K05EH3Q	18.1	0.15	K194R	319.319	10.507	207.482	5.262	0.17954	2.32832	5	X
K05EQ1W	16.2	0.15	K194R	252.608	58.235	212.567	3.659	0.06370	2.78955	8	X
K05EV6Z	17.4	0.15	K194R	84.607	306.521	124.436	5.915	0.09564	2.78892	8	X
K05F03C	19.2	0.15	K194R	356.408	88.319	158.017	9.865	0.58873	1.97420	6	X
K05G03K	17.7	0.15	K194R	32.736	26.855	108.508	6.057	0.15893	2.33040	10	W
K05G49M	18.5	0.15	K194R	309.479	189.117	52.306	2.287	0.14738	2.33469	6	X
K05G63L	18.1	0.15	K194R	339.316	181.078	48.718	10.741	0.29934	2.30595	5	W
K05GF7Y	16.4	0.15	K194R	301.547	205.865	40.708	9.726	0.07815	2.85154	7	X
K05GM9O	17.3	0.15	K194R	130.835	6.367	23.364	2.973	0.16483	2.30619	7	X
K05J18K	18.0	0.15	K194R	348.320	310.920	236.115	2.220	0.17212	2.34345	5	X
K05J30Z	17.4	0.15	K194R	214.545	308.848	18.515	5.590	0.10994	2.33650	10	X
K05JG1O	17.9	0.15	K194R	269.955	147.368	124.889	3.273	0.16023	2.36561	7	X
K05JH1T	18.2	0.15	K194R	311.400	222.870	18.700	2.407	0.17695	2.34070	5	X
K05L27D	16.2	0.15	K194R	228.181	200.224	105.531	11.703	0.10224	2.98730	5	W
K05L31Y	17.3	0.15	K194R	189.681	230.152	117.909	7.815	0.13029	2.39297	8	X
K05L46A	18.5	0.15	K194R	315.082	69.592	169.733	7.479	0.23438	2.35142	5	W
K05M27T	15.9	0.15	K194R	136.070	212.249	147.196	14.476	0.14016	3.11961	8	X
K05N15H	16.0	0.15	K194R	344.598	75.585	112.632	10.407	0.03543	2.99149	9	X
K05N52T	16.3	0.15	K194R	172.962	212.195	129.027	17.259	0.22575	3.07254	6	X
K05N68P	16.0	0.15	K194R	306.282	98.945	127.084	14.565	0.08593	3.00081	8	X
K05NA2H	17.4	0.15	K194R	276.761	147.054	128.740	4.883	0.18645	2.40093	5	X
K05Q89J	15.6	0.15	K194R	104.975	85.897	312.751	12.180	0.07588	3.12452	8	X
K05QB4V	16.1	0.15	K194R	187.814	204.212	142.083	15.974	0.09160	3.08363	9	X
K05QP9R	15.7	0.15	K194R	138.166	17.592	355.230	18.465	0.26919	3.15279	8	W
K05QI6J	16.9	0.15	K194R	4.731	68.975	87.575	1.139	0.19914	3.08438	9	X
K05R15Q	16.2	0.15	K194R	297.846	58.274	164.485	7.805	0.03834	3.10091	10	X
K05S04U	16.6	0.15	K194R	56.014	258.793	163.716	27.760	0.43479	2.60570	3	X
K05SF8O	16.0	0.15	K194R	178.811	12.370	328.438	16.317	0.12646	3.14006	5	X
K05SQ7P	17.5	0.15	K194R	155.177	188.217	161.296	2.029	0.22549	3.15142	4	W
K05SS5B	16.2	0.15	K194R	256.245	174.987	104.864	11.853	0.07245	3.14630	8	X
K05T39R	17.6	0.15	K194R	146.706	265.728	107.663	2.926	0.08599	2.52520	10	X
K05T64O	16.1	0.15	K194R	195.186	314.713	16.267	10.633	0.07802	3.14306	9	X
K05T88K	17.3	0.15	K194R	111.941	281.425	123.557	3.322	0.15483	2.52095	11	X
K05TB0V	16.0	0.15	K194R	332.324	213.759	359.946	21.450	0.19116	3.07423	7	X
K05TJ4Z	17.7	0.15	K194R	331.065	132.772	87.010	1.756	0.17254	2.44374	8	X
K05UD9K	16.7	0.15	K194R	17.344	95.696	44.905	5.632	0.08512	3.24936	5	X
K05UZ0P	15.8	0.15	K194R	162.933	19.612	340.853	11.270	0.10554	3.15801	7	X
K05UZ9K	17.3	0.15	K194R	231.207	259.143	52.207	7.077	0.10580	2.48984	7	W
K05Ug1D	18.2	0.15	K194R	76.038	33.811	45.501	5.090	0.15754	2.57151	6	W
K05Uj6P	17.3	0.15	K194R	182.678	0.100	342.428	1.661	0.10185	2.51843	6	X
K05Up9D	16.7	0.15	K194R	9.921	68.267	99.112	14.269	0.05671	3.19354	9	X
K05Uq9P	19.0	0.15	K194R	50.766	26.101	87.735	3.408	0.12586	2.14490	7	X

K05V69K	18.3	0.15	K194R	51.376	28.536	71.634	7.406	0.26811	2.59556	5	X
K05VB40	17.7	0.15	K194R	81.341	310.637	99.747	7.835	0.35269	2.59487	6	X
K05WH60	18.0	0.15	K194R	18.201	84.210	60.186	3.612	0.12262	2.61299	3	X
K05Y36Y	19.4	0.15	K194R	34.721	214.292	275.113	4.606	0.39440	1.89358	4	X
K06A28A	16.7	0.15	K194R	353.745	27.130	158.253	14.079	0.18463	2.68065	9	X
K06A33Y	16.6	0.15	K194R	350.405	246.844	320.459	28.865	0.30975	2.62703	5	X
K06B30X	17.6	0.15	K194R	18.957	175.094	323.574	13.278	0.18697	2.65641	4	X
K06B36D	17.8	0.15	K194R	113.254	297.575	107.630	4.382	0.06980	2.18437	8	X
K06B48C	17.6	0.15	K194R	59.252	97.169	357.643	2.337	0.08854	2.63734	7	X
K06B91B	17.3	0.15	K194R	32.441	334.373	147.734	13.048	0.15410	2.66271	5	X
K06B95C	17.7	0.15	K194R	37.244	328.430	154.623	14.302	0.20327	2.65791	4	X
K06BC6F	17.1	0.15	K194R	7.290	354.454	157.478	5.284	0.04814	2.67752	9	X
K06BG7Z	18.2	0.15	K194R	264.222	126.399	138.876	23.948	0.05753	1.89744	4	X
K06BN9C	17.2	0.15	K194R	56.001	296.362	156.445	4.438	0.16037	2.62869	8	X
K06BS1N	17.6	0.15	K194R	322.101	228.913	343.043	7.478	0.04022	2.63682	5	W
K06BS6O	18.4	0.15	K194R	128.758	264.225	141.279	21.949	0.13173	1.87276	4	X
K06C03U	18.2	0.15	K194R	46.139	310.346	156.148	4.376	0.20091	2.64074	5	X
K06C45Y	17.6	0.15	K194R	104.352	285.849	122.460	6.505	0.14490	2.62914	3	W
K06C64V	17.8	0.15	K194R	86.507	300.156	116.915	2.873	0.19656	2.59623	9	X
K06D17O	16.8	0.15	K194R	89.587	288.468	125.884	8.131	0.14567	2.66831	11	X
K06DK5J	17.5	0.15	K194R	322.092	114.268	108.788	3.332	0.14094	2.66388	5	X
K06G37Y	16.9	0.15	K194R	0.238	109.954	95.605	29.217	0.33320	2.66503	5	X
K06HF5C	18.0	0.15	K194R	297.878	207.793	38.127	5.088	0.08731	2.23335	6	X
K06J82K	18.4	0.15	K194R	23.601	101.844	41.324	0.901	0.12944	2.23427	6	X
K06KB1H	16.6	0.15	K194R	43.303	199.731	273.444	3.190	0.01747	2.78374	11	X
K06P00V	17.0	0.15	K194R	157.781	210.296	137.124	25.306	0.27013	2.36249	6	X
K06Q62U	17.3	0.15	K194R	123.966	248.014	121.538	5.742	0.19600	2.39593	8	X
K06Q89Y	16.4	0.15	K194R	64.536	254.380	155.493	22.155	0.36455	3.16555	4	X
K06QD6Y	16.0	0.15	K194R	108.802	259.731	128.972	11.879	0.16717	3.02995	9	X
K06QI8E	16.8	0.15	K194R	128.354	33.401	353.345	11.283	0.06362	3.00109	5	X
K06R09G	17.3	0.15	K194R	221.748	234.751	86.054	2.810	0.24002	2.32738	8	X
K06R27U	15.9	0.15	K194R	130.497	225.311	156.061	21.288	0.23385	3.02227	6	X
K06R34Y	15.7	0.15	K194R	269.031	244.296	26.360	10.874	0.08516	2.90096	10	X
K06SA6D	17.5	0.15	K194R	146.821	14.202	12.787	18.544	0.03893	2.37211	4	X
K06SE3V	17.0	0.15	K194R	41.338	218.122	231.429	2.855	0.22232	3.14331	6	X
K06SH7E	18.3	0.15	K194R	97.205	33.030	21.561	1.700	0.16446	2.41150	6	X
K06SK2B	16.6	0.15	K194R	47.711	125.380	346.587	9.896	0.12223	3.01550	9	X
K06SR1T	16.3	0.15	K194R	53.942	81.619	7.052	18.106	0.25287	3.14022	3	X
K06Sb2U	17.7	0.15	K194R	152.613	33.919	338.582	6.021	0.10576	2.38429	8	W
K06Sb5H	17.1	0.15	K194R	118.367	233.655	162.787	7.181	0.06902	3.01774	7	W
K06Sc6R	16.7	0.15	K194R	19.143	355.143	148.859	15.558	0.12370	3.10102	6	X
K06Sg2P	16.8	0.15	K194R	92.464	75.171	328.366	6.753	0.23164	3.07552	6	X
K06T13L	17.3	0.15	K194R	100.529	24.788	24.780	11.644	0.25146	2.42052	6	W
K06T68Y	17.5	0.15	K194R	121.435	344.207	50.117	8.561	0.15302	2.40105	6	X
K06TB4Q	16.4	0.15	K194R	159.940	210.644	144.765	12.167	0.10111	3.04344	8	X
K06US0E	16.3	0.15	K194R	10.298	286.383	213.323	6.227	0.10019	3.13459	9	X
K06V66N	18.0	0.15	K194R	88.460	277.556	138.930	1.636	0.17430	2.44047	6	X
K06VE5V	15.9	0.15	K194R	97.208	68.100	350.106	12.962	0.10695	3.09165	9	X
K06VG9W	18.2	0.15	K194R	61.223	359.788	90.504	2.475	0.15429	2.46253	6	X
K06W75R	16.0	0.15	K194R	249.337	208.900	74.582	2.002	0.17458	3.03400	9	X
K06WK9F	17.1	0.15	K194R	34.023	335.806	137.660	11.984	0.18142	2.46813	6	X
K07D19Z	18.4	0.15	K194R	19.037	151.818	341.575	4.050	0.19704	2.53856	5	X
K07D73Q	18.3	0.15	K194R	38.725	354.406	125.322	0.907	0.13220	2.53732	8	X
K07DA0Q	17.3	0.15	K194R	326.055	204.216	14.193	6.044	0.17363	2.53207	8	X
K07EE5W	17.7	0.15	K194R	283.357	128.109	141.177	4.004	0.17493	2.54111	8	X
K07F29E	18.1	0.15	K194R	24.118	122.914	14.942	4.761	0.18436	2.54463	5	X
K07H78D	17.4	0.15	K194R	356.438	45.365	141.190	7.346	0.11526	2.55328	11	X
K07H99T	17.5	0.15	K194R	11.229	105.605	58.004	27.472	0.23156	2.57176	6	X
K07L37J	17.4	0.15	K194R	310.655	118.980	134.304	13.853	0.24263	2.58277	5	X
K07N07H	16.7	0.15	K194R	85.362	68.624	356.319	10.086	0.10203	2.73694	8	X
K07O10H	16.3	0.15	K194R	86.850	80.516	337.733	14.081	0.14941	2.87193	6	X
K07P11O	18.0	0.15	K194R	118.719	253.115	134.436	4.017	0.28420	2.26713	7	W
K07RX2E	17.3	0.15	K194R	68.857	93.066	345.919	14.278	0.13045	2.88164	5	X
K07TD5S	17.0	0.15	K194R	299.186	252.066	9.243	13.222	0.26493	2.66708	4	X
K07TG8Y	18.0	0.15	K194R	91.517	91.307	316.726	3.947	0.14004	2.29816	7	X
K07Tb0B	18.6	0.15	K194R	63.479	7.124	75.398	2.119	0.21266	2.32114	5	X
K07Tj6Z	17.0	0.15	K194R	117.559	357.651	42.692	2.592	0.07573	2.85421	8	X
K07Tj9K	17.0	0.15	K194R	10.483	44.201	105.169	7.594	0.06200	2.90808	10	X
K07VE2N	17.9	0.15	K194R	115.349	331.697	71.277	6.643	0.14018	2.29450	4	X
K07VR7K	18.7	0.15	K194R	112.480	15.059	23.929	5.522	0.18854	2.29182	7	W
K07VX9Y	17.0	0.15	K194R	190.699	129.839	201.993	1.781	0.05965	2.89268	10	X
K07VY2C	17.0	0.15	K194R	115.348	36.276	354.866	14.912	0.13512	2.92317	5	X
K07W55M	16.6	0.15	K194R	32.844	336.556	138.102	11.503	0.23282	3.02173	5	X
K07X60Y	18.2	0.15	K194R	60.935	2.992	108.203	4.486	0.10994	2.32805	5	X
K07Y75N	17.3	0.15	K194R	348.843	140.986	44.472	3.068	0.22104	3.06072	4	X
K07Y76R	16.6	0.15	K194R	67.936	323.086	137.425	10.729	0.04874	3.02342	7	X
K08A49B	16.5	0.15	K194R	49.956	4.816	106.964	10.394	0.09454	3.03422	6	X
K08A57G	18.4	0.15	K194R	6.332	33.208	121.902	5.242	0.13174	2.36769	6	X
K08A60G	17.0	0.15	K194R	352.966	282.062	250.663	1.413	0.05670	3.06459	5	X
K08A64C	18.2	0.15	K194R	342.812	61.007	129.960	2.930	0.13665	2.36771	6	X
K08A67N	16.8	0.15	K194R	10.667	200.197	307.432	6.875	0.12521	3.09935	6	X
K08A75U	16.6	0.15	K194R	271.448	122.407	131.500	11.765	0.04985	3.07089	6	X
K08A81Z	17.0	0.15	K194R	358.665	31.514	145.403	8.336	0.06344	3.02867	4	W
K08A85P	17.1	0.15	K194R	29.847	21.013	109.694	2.766	0.15231	3.07605	6	X
K08A87T	18.5	0.15	K194R	356.367	290.746	242.224	1.196	0.15358	2.35763	6	X
K08A88J	15.9	0.15	K194R	115.669	281.050	118.499	13.786	0.20112	3.00025	9	X
K08A93X	16.8	0.15	K194R	69.214	109.965	310.506	16.840	0.18043	3.09226	4	X
K08AA8Q	18.5	0.15	K194R	56.474	328.179	129.870	5.307	0.18971	2.35794	3	X
K08AB7M	17.6	0.15	K194R	84.065	100.370	311.903	22.414	0.19165	2.36171	5	X
K08AD6Z	16.3	0.15	K194R	301.757	190.848	63.287	5.476	0.25731	3.07003	8	W
K08AE0B	16.6	0.15	K194R	70.002	110.173	312.000	16.903	0.19633	3.12792	3	X

K08B08B	16.7	0.15	K194R	9.472	176.339	332.104	14.972	0.22094	3.11788	2	X
K08B27N	16.2	0.15	K194R	197.683	9.408	301.542	10.388	0.09137	3.09756	5	X
K08B37L	16.0	0.15	K194R	213.457	180.306	133.553	16.210	0.11041	3.04522	9	X
K08B38K	16.6	0.15	K194R	334.714	238.746	319.015	7.014	0.12929	3.11977	9	X
K08B46E	17.1	0.15	K194R	26.247	356.084	138.082	1.847	0.13175	3.10948	4	X
K08B47E	18.1	0.15	K194R	19.915	163.684	331.826	5.911	0.23752	2.38885	4	X
K08B55B	17.2	0.15	K194R	64.679	95.280	349.108	6.435	0.18272	3.04934	4	X
K08B55J	16.6	0.15	K194R	91.552	272.909	130.545	16.813	0.25414	3.10773	3	X
K08C01C	16.3	0.15	K194R	306.474	191.459	40.237	10.579	0.06527	3.05445	9	X
K08C130	16.5	0.15	K194R	29.610	354.831	136.138	11.220	0.14841	3.11260	4	X
K08C34E	18.3	0.15	K194R	351.060	66.142	126.274	1.369	0.15203	2.36976	3	X
K08C55A	16.5	0.15	K194R	66.276	129.967	295.831	11.219	0.16417	3.11657	4	X
K08C58K	16.1	0.15	K194R	72.268	98.362	339.044	26.198	0.08520	3.14196	6	X
K08C60U	16.6	0.15	K194R	51.438	298.102	153.806	10.565	0.15798	3.11189	8	X
K08C61H	16.3	0.15	K194R	276.854	228.187	29.871	4.853	0.14896	3.14774	5	X
K08C72A	16.7	0.15	K194R	351.421	232.966	319.848	22.405	0.26772	2.38467	3	X
K08C80G	16.1	0.15	K194R	116.141	32.291	3.400	7.721	0.04352	3.13171	10	X
K08C85X	16.9	0.15	K194R	1.932	17.947	135.650	9.966	0.10037	3.15590	5	X
K08C94H	17.9	0.15	K194R	166.055	17.286	346.353	19.652	0.04297	1.97186	5	X
K08CA7F	16.2	0.15	K194R	232.018	159.428	146.459	20.851	0.07079	3.08266	7	X
K08CB7Y	16.6	0.15	K194R	48.714	310.607	143.417	24.508	0.26943	3.10136	5	X
K08CD3U	16.8	0.15	K194R	30.903	322.014	151.910	10.092	0.19986	3.14784	5	X
K08CD8W	16.9	0.15	K194R	336.397	58.331	152.005	26.683	0.30413	3.12928	4	X
K08CE5T	18.3	0.15	K194R	4.423	218.409	311.228	1.914	0.14023	2.37985	6	X
K08CH3V	16.9	0.15	K194R	301.185	141.887	101.220	2.937	0.13368	3.07385	6	W
K08CT4B	16.5	0.15	K194R	337.903	110.578	96.538	8.206	0.09156	3.08536	7	X
K08CK3B	18.2	0.15	K194R	69.848	31.535	54.065	3.101	0.17928	2.38475	7	X
K08CK6C	17.4	0.15	K194R	356.610	43.151	125.615	2.351	0.09702	3.12094	4	X
K08CL8D	16.3	0.15	K194R	55.080	321.555	133.720	8.964	0.06564	3.15648	9	X
K08D03S	17.9	0.15	K194R	35.087	344.775	148.274	24.353	0.07396	1.96345	5	X
K08D08L	17.2	0.15	K194R	32.764	131.211	344.974	10.060	0.17721	3.12879	3	X
K08D08Z	17.0	0.15	K194R	352.927	35.005	142.248	10.476	0.26725	3.11805	6	X
K08D11T	16.5	0.15	K194R	54.862	126.497	333.095	10.703	0.04920	3.10271	4	X
K08D14B	18.5	0.15	K194R	342.671	75.361	126.376	6.126	0.17646	2.37889	3	X
K08D41Q	17.5	0.15	K194R	58.991	282.274	146.548	18.890	0.36388	3.08595	3	X
K08D58M	16.7	0.15	K194R	345.884	37.862	148.566	15.252	0.07065	3.07034	5	X
K08D60F	18.7	0.15	K194R	15.897	69.843	86.449	2.709	0.12880	2.36654	3	X
K08D75A	17.2	0.15	K194R	7.275	103.298	45.343	2.911	0.18280	3.14706	5	X
K08E08T	17.6	0.15	K194R	1.152	224.947	325.876	4.821	0.24094	2.37769	5	X
K08E12B	18.5	0.15	K194R	17.493	134.146	23.943	5.045	0.12994	2.38509	6	X
K08E12U	18.6	0.15	K194R	343.616	79.127	129.445	4.942	0.19625	2.38427	5	X
K08E16T	18.1	0.15	K194R	350.965	13.478	171.723	3.062	0.16380	2.40745	5	X
K08E49Z	16.7	0.15	K194R	349.565	27.903	157.036	8.991	0.14780	3.12220	5	X
K08E54C	13.6	0.15	K194R	207.883	274.133	47.907	13.165	0.06802	5.18328	10	X
K08E60E	16.2	0.15	K194R	339.444	199.540	348.687	20.379	0.10031	3.16253	4	X
K08E74J	16.4	0.15	K194R	299.519	97.657	122.386	6.016	0.06101	3.21596	8	X
K08E75Y	17.8	0.15	K194R	311.028	159.295	83.907	3.097	0.19451	2.40376	6	W
K08E78P	16.9	0.15	K194R	327.685	151.097	57.420	4.213	0.10425	3.13914	6	X
K08EA9Y	16.2	0.15	K194R	196.950	351.032	330.405	8.605	0.08606	3.14475	6	X
K08EB0W	17.2	0.15	K194R	324.545	97.026	118.682	6.187	0.18167	3.14023	6	X
K08EC2M	17.2	0.15	K194R	327.947	195.608	14.149	3.681	0.17373	3.16921	5	W
K08EC6D	18.0	0.15	K194R	71.704	273.778	184.039	22.605	0.08892	1.98160	4	W
K08EC9O	15.5	0.15	K194R	325.847	207.088	9.039	27.279	0.08240	3.13602	6	X
K08EG0B	16.8	0.15	K194R	29.532	114.206	18.697	9.919	0.03294	3.19203	5	X
K08EH1W	16.8	0.15	K194R	302.930	252.850	12.762	13.492	0.26819	3.16176	6	W
K08F17L	17.7	0.15	K194R	83.604	331.767	88.290	2.631	0.16676	2.41044	8	X
K08F20M	17.9	0.15	K194R	351.529	269.103	273.863	1.303	0.14453	2.40571	5	X
K08F45Y	18.4	0.15	K194R	329.303	141.464	57.513	2.018	0.13095	2.41199	6	X
K08F49O	18.2	0.15	K194R	317.422	164.003	54.063	2.265	0.13705	2.42270	7	X
K08F89Q	16.9	0.15	K194R	339.359	51.015	149.727	11.732	0.23408	3.08848	4	X
K08F90Q	16.7	0.15	K194R	56.808	289.965	151.634	10.650	0.22080	3.12201	4	X
K08F94Z	17.9	0.15	K194R	304.050	138.249	108.278	3.361	0.15721	2.42664	6	W
K08FA2D	16.6	0.15	K194R	19.640	88.306	66.706	11.442	0.09832	3.20746	8	W
K08FB7O	17.1	0.15	K194R	108.516	33.074	28.324	7.059	0.08880	2.43758	4	X
K08FC5S	16.9	0.15	K194R	13.107	124.601	38.083	10.634	0.15178	3.14770	3	X
K08G08Z	17.8	0.15	K194R	7.139	130.885	35.599	7.517	0.07440	2.41244	5	X
K08G48L	16.9	0.15	K194R	10.271	352.089	155.251	21.966	0.26031	3.12573	4	X
K08G58C	17.8	0.15	K194R	302.339	181.738	52.535	1.857	0.14879	2.43152	4	X
K08G99G	17.8	0.15	K194R	322.803	273.379	306.367	1.170	0.19141	2.40545	7	X
K08GB3E	16.1	0.15	K194R	320.244	253.218	351.957	25.529	0.31453	3.17486	6	X
K08GD3O	18.5	0.15	K194R	336.507	83.744	124.821	4.837	0.13839	2.43241	4	X
K08H00S	18.3	0.15	K194R	345.291	162.622	26.978	5.794	0.13519	2.41792	3	X
K08O14J	16.4	0.15	K194R	195.823	196.105	131.635	12.855	0.19505	2.59095	10	X
K08Q44C	16.7	0.15	K194R	206.044	179.680	152.844	13.863	0.18305	2.59668	6	X
K08R18M	16.9	0.15	K194R	118.500	36.453	338.733	11.182	0.20856	2.72182	5	X
K08RA3R	16.8	0.15	K194R	69.298	87.603	342.028	12.573	0.18400	2.75241	4	X
K08RD9J	17.2	0.15	K194R	161.746	17.363	324.871	13.724	0.26986	2.67643	4	W
K08S00Y	16.8	0.15	K194R	156.601	239.200	131.236	4.076	0.09461	2.64734	8	X
K08S27D	17.3	0.15	K194R	83.755	218.173	200.140	3.049	0.18902	2.73823	5	X
K08S77F	17.3	0.15	K194R	75.184	208.253	215.614	2.803	0.18440	2.74489	4	X
K08SF0F	17.0	0.15	K194R	131.630	302.439	103.477	6.265	0.02803	2.67101	9	W
K08SO4M	17.0	0.15	K194R	97.995	244.068	138.974	5.142	0.24708	2.78957	5	X
K08SO8T	17.0	0.15	K194R	79.943	153.679	267.587	2.860	0.08581	2.74567	6	X
K08SP2V	17.1	0.15	K194R	88.825	71.275	9.114	22.113	0.05455	2.67149	3	X
K08SR0L	17.0	0.15	K194R	119.185	2.681	37.267	8.932	0.07902	2.70862	4	X
K08SR8E	17.6	0.15	K194R	97.074	14.084	41.005	5.092	0.06721	2.70295	4	X
K08SS8C	17.4	0.15	K194R	132.998	348.100	40.290	7.650	0.08140	2.70755	5	X
K08SU8D	16.7	0.15	K194R	95.467	91.772	317.117	11.314	0.13766	2.74426	4	X
K08SU8L	16.5	0.15	K194R	211.413	328.951	2.890	32.485	0.15119	2.61692	4	X
K08SV0H	17.7	0.15	K194R	65.210	31.215	53.349	4.242	0.18903	2.73946	7	W
K08SV2C	17.3	0.15	K194R	120.084	287.061	110.074	3.348	0.10468	2.69642	6	X

K08SV3Z	16.9	0.15	K194R	192.313	246.183	91.792	7.225	0.08455	2.66737	10	X
K08T04S	17.0	0.15	K194R	212.207	309.968	10.038	14.801	0.12650	2.63155	5	X
K08T52O	17.1	0.15	K194R	72.081	258.455	174.000	4.688	0.11367	2.73977	4	X
K08T65X	16.9	0.15	K194R	217.959	310.893	6.003	11.341	0.20769	2.61268	6	W
K08TA8N	17.5	0.15	K194R	103.112	296.763	106.849	3.331	0.17048	2.72549	3	X
K08TA8T	17.2	0.15	K194R	162.637	313.048	48.164	6.666	0.06396	2.66870	4	X
K08TD2F	17.2	0.15	K194R	62.587	128.872	307.878	3.834	0.21967	2.78521	5	X
K08TF1X	17.2	0.15	K194R	132.556	215.822	162.150	5.496	0.11930	2.69880	7	X
K08TJ1R	15.8	0.15	K194R	24.722	78.067	54.173	4.243	0.11065	4.00130	7	X
K08U01A	16.5	0.15	K194R	234.613	304.952	357.214	13.911	0.18508	2.61946	6	X
K08U72E	18.6	0.15	K194R	31.082	100.730	3.658	6.017	0.45075	2.88508	4	X
K08UG5Q	17.4	0.15	K194R	111.285	346.279	57.182	3.481	0.06859	2.73779	4	X
K08UN4R	17.3	0.15	K194R	141.344	36.893	344.458	5.308	0.04390	2.72678	10	X
K08UQ7C	17.4	0.15	K194R	210.526	302.034	15.644	5.918	0.03283	2.70494	8	X
K08UY7E	17.3	0.15	K194R	71.884	246.176	191.079	3.179	0.07066	2.75982	6	X
K08Ub4L	17.0	0.15	K194R	144.618	243.068	128.027	1.149	0.07190	2.72998	9	X
K08V30F	16.8	0.15	K194R	17.565	125.335	13.912	4.331	0.01489	2.75506	3	X
K08V73Y	16.9	0.15	K194R	174.856	296.164	68.031	7.471	0.14240	2.68531	4	X
K08WE3H	17.1	0.15	K194R	30.564	39.622	90.535	4.965	0.12619	2.78905	6	X
K08YD3W	17.5	0.15	K194R	54.221	29.711	75.318	8.865	0.18479	2.80569	4	X
K08YF3S	17.6	0.15	K194R	60.670	139.768	296.978	1.516	0.18691	2.89307	3	X
K09B23C	18.2	0.15	K194R	52.517	35.294	76.841	4.585	0.08206	2.22312	7	X
K09B71W	17.9	0.15	K194R	95.655	255.600	149.618	24.946	0.36571	2.21029	4	X
K09B75F	16.1	0.15	K194R	84.500	74.606	353.134	16.481	0.16595	2.85630	10	X
K09B88Y	18.8	0.15	K194R	341.720	50.314	139.994	4.395	0.17036	2.23307	4	X
K09B66E	17.3	0.15	K194R	23.460	353.752	146.992	10.308	0.09480	2.91639	7	X
K09BH1A	17.5	0.15	K194R	27.624	40.513	91.200	2.920	0.15538	2.90078	6	X
K09D01L	19.0	0.15	K194R	355.436	224.912	352.952	3.578	0.46811	2.23750	2	X
K09D29A	18.0	0.15	K194R	268.564	292.633	347.595	6.563	0.14390	2.24396	5	W
K09D46W	17.6	0.15	K194R	18.695	323.205	165.782	10.153	0.32174	2.94240	4	X
K09D94S	16.8	0.15	K194R	338.299	162.338	46.564	7.034	0.15019	2.94677	6	X
K09E24P	17.6	0.15	K194R	355.558	333.029	195.952	2.116	0.14660	2.98287	3	X
K09F10C	17.3	0.15	K194R	169.560	350.040	355.611	7.457	0.20790	2.28366	9	X
K09F45K	18.4	0.15	K194R	320.104	114.233	116.635	3.369	0.22580	2.27289	5	X
K09F46T	17.7	0.15	K194R	312.343	164.050	74.588	4.850	0.20480	2.26225	8	X
K09H06U	17.4	0.15	K194R	21.220	110.106	44.940	24.102	0.19490	2.25914	4	X
K09HB0Q	17.0	0.15	K194R	126.982	327.928	72.167	7.659	0.11311	2.30940	9	X
K09K00Z	17.8	0.15	K194R	324.202	86.166	147.524	8.343	0.33827	2.99825	3	X
K09K17X	17.0	0.15	K194R	325.625	93.267	122.821	10.409	0.17625	3.03258	5	X
K09K21Q	18.5	0.15	K194R	356.688	103.838	86.217	22.923	0.11286	1.87646	5	X
K09K23E	18.5	0.15	K194R	293.400	117.429	147.289	5.526	0.22741	2.29166	7	W
K09K24U	18.0	0.15	K194R	271.751	221.151	58.800	4.693	0.14983	2.30199	9	W
K09Q04Z	16.5	0.15	K194R	64.337	107.890	327.695	31.448	0.27126	2.54627	7	X
K09S17V	19.6	0.15	K194R	28.782	125.922	322.479	3.440	0.58714	2.70086	2	X
K09T18Q	18.2	0.15	K194R	53.554	189.106	263.524	1.616	0.19443	2.58346	7	X
K09T23X	18.0	0.15	K194R	71.021	31.987	32.165	4.688	0.26163	2.60559	6	X
K09U11S	17.5	0.15	K194R	3.690	89.557	72.026	4.342	0.11501	2.53442	8	X
K09UD5S	17.2	0.15	K194R	61.795	195.066	228.119	4.254	0.28939	2.64362	6	X
K09V40W	17.2	0.15	K194R	55.294	300.412	145.762	31.204	0.27480	2.59856	4	X
K09W28C	17.8	0.15	K194R	27.743	76.034	52.059	3.773	0.23266	2.63863	4	X
K09WF7G	16.8	0.15	K194R	132.621	237.945	147.750	4.050	0.15633	2.56602	9	W
K09WN6P	17.4	0.15	K194R	53.526	21.776	70.910	5.157	0.24529	2.66183	5	X
K10A31G	17.8	0.15	K194R	10.329	33.264	130.362	9.196	0.28123	2.71257	5	X
K10A34Q	17.8	0.15	K194R	28.645	335.177	156.913	4.963	0.12558	2.69969	7	X
K10A54Y	17.8	0.15	K194R	347.128	90.668	113.675	7.532	0.26802	2.70791	6	X
K10AE0Z	16.6	0.15	K194R	157.683	41.725	309.575	4.892	0.01536	2.74887	8	X
K10AE4E	16.4	0.15	K194R	152.797	39.277	323.621	14.198	0.13115	2.66273	7	X
K10AE4F	17.1	0.15	K194R	206.972	197.793	117.445	4.303	0.10419	2.68171	8	X
K10B01Q	17.6	0.15	K194R	329.033	88.430	129.299	4.624	0.12991	2.67581	3	X
K10B79Q	17.1	0.15	K194R	14.286	131.268	35.006	9.522	0.12902	2.78848	5	W
K10C05H	17.5	0.15	K194R	351.425	60.586	139.090	11.950	0.26376	2.72395	5	X
K10C69O	16.9	0.15	K194R	43.867	330.012	132.322	5.934	0.07670	2.70737	10	X
K10C72X	16.7	0.15	K194R	133.652	215.178	141.251	11.767	0.21355	2.73098	3	X
K10CG9A	17.0	0.15	K194R	86.962	117.135	301.618	4.994	0.05581	2.70056	5	X
K10CI5L	16.5	0.15	K194R	330.004	161.551	60.974	11.371	0.15508	2.72704	9	X
K10CL4B	16.3	0.15	K194R	272.053	287.215	331.881	16.123	0.06227	2.87554	8	X
K10D02H	17.8	0.15	K194R	38.013	348.835	130.665	10.497	0.23848	2.69673	3	X
K10D04H	17.6	0.15	K194R	44.462	140.599	324.276	9.247	0.12048	2.71976	7	X
K10D42M	17.3	0.15	K194R	42.446	152.814	321.204	4.376	0.11369	2.76101	3	X
K10E93S	17.2	0.15	K194R	108.407	260.861	141.544	4.578	0.10299	2.77488	9	W
K10F16M	17.3	0.15	K194R	278.244	259.967	6.184	7.446	0.18527	2.76292	7	X
K10F26G	17.2	0.15	K194R	340.755	187.623	20.063	12.817	0.12603	2.74291	7	X
K10F66P	17.2	0.15	K194R	69.549	303.503	151.898	14.045	0.11440	2.63451	5	X
K10GD3S	17.0	0.15	K194R	32.796	77.894	55.376	2.826	0.01221	2.84703	8	X
K10H55Q	17.0	0.15	K194R	320.326	198.678	9.942	2.656	0.04088	2.69325	10	X
K10H98J	17.2	0.15	K194R	40.926	120.624	345.392	4.503	0.09697	2.73028	10	X
K10J63E	16.3	0.15	K194R	270.924	256.996	2.096	8.717	0.09909	3.06428	8	X
K10J79N	16.3	0.15	K194R	255.715	178.670	107.895	13.612	0.03605	2.85295	7	X
K10JD8J	16.5	0.15	K194R	20.840	30.022	122.810	9.510	0.11052	2.70774	9	X
K10L37F	16.5	0.15	K194R	250.103	247.290	38.862	10.858	0.06483	3.13453	7	X
K10LD0C	15.7	0.15	K194R	50.283	119.196	1.394	23.362	0.04848	3.21668	4	X
K10M42C	15.8	0.15	K194R	188.939	235.292	116.518	8.586	0.11326	3.19485	11	X
K10M45D	16.2	0.15	K194R	245.580	305.807	340.069	15.748	0.11874	3.18419	4	W
K10M50M	17.1	0.15	K194R	271.835	305.016	317.822	7.778	0.12646	2.81263	5	X
K10MA0P	17.3	0.15	K194R	10.575	159.648	7.047	8.137	0.15196	2.76040	6	X
K10O05B	17.6	0.15	K194R	183.837	239.744	107.718	8.478	0.23274	2.30410	7	W
K10O39P	16.5	0.15	K194R	289.912	126.889	132.568	10.693	0.20376	3.16079	7	W
K10T69E	16.2	0.15	K194R	314.857	232.409	3.149	17.405	0.13129	3.15201	6	X
K10T87U	18.7	0.15	K194R	76.750	293.491	135.815	0.662	0.18767	2.38445	3	X
K10T97V	18.7	0.15	K194R	59.311	78.873	19.499	3.888	0.12620	2.35748	5	X
K10TE5S	17.8	0.15	K194R	82.336	61.570	13.941	10.109	0.15414	2.38193	5	W

K10U52B	17.7	0.15	K194R	100.477	152.542	237.186	2.272	0.20739	2.41875	7	X
K10UA3K	18.0	0.15	K194R	103.410	358.154	58.322	7.865	0.10394	2.37816	5	X
K10V13Y	17.7	0.15	K194R	77.917	26.587	48.485	6.794	0.18073	2.40013	7	X
K10V43X	15.8	0.15	K194R	122.279	14.550	9.373	8.836	0.11756	3.46093	7	X
K10V55S	18.3	0.15	K194R	69.805	330.988	117.151	2.031	0.10273	2.39587	3	X
K10V78G	18.4	0.15	K194R	93.326	36.745	19.742	2.631	0.21319	2.39467	5	W
K10V90E	18.3	0.15	K194R	92.246	17.804	45.521	3.097	0.15688	2.40794	6	W
K10VA0A	17.2	0.15	K194R	204.350	61.407	251.506	6.041	0.12392	2.35491	11	X
K10VG6Q	15.9	0.15	K194R	93.083	5.322	58.633	5.916	0.05882	3.49527	10	X
K10VG9A	18.5	0.15	K194R	75.041	203.954	230.008	0.948	0.15343	2.42440	4	X
K10VK6N	17.2	0.15	K194R	255.541	280.824	18.949	5.845	0.19428	2.27547	11	X
K10VL6D	17.7	0.15	K194R	263.828	249.730	35.219	7.825	0.11482	2.30256	4	X
K10VM8G	17.3	0.15	K194R	235.989	286.498	16.135	6.720	0.11661	2.32540	7	X
K10X17P	18.1	0.15	K194R	10.311	320.356	194.422	1.283	0.13543	2.47433	5	X
K10X30C	17.9	0.15	K194R	25.092	85.877	69.657	7.548	0.11709	2.41040	7	W
K10X92M	18.0	0.15	K194R	22.187	236.167	265.066	1.536	0.14008	2.43500	8	X
K11A11R	17.6	0.15	K194R	118.436	301.281	87.292	3.443	0.21018	2.45412	7	X
K11A15G	16.5	0.15	K194R	44.008	4.745	128.539	6.626	0.06428	2.45428	10	X
K11A39Q	18.5	0.15	K194R	50.916	95.523	17.029	2.652	0.14864	2.46771	4	W
K11A45N	16.7	0.15	K194R	82.262	315.075	125.404	9.389	0.19614	2.46545	10	X
K11B23C	16.1	0.15	K194R	354.762	264.887	258.768	1.719	0.16445	3.95817	4	X
K11B25C	16.7	0.15	K194R	117.660	35.481	352.559	7.755	0.26641	2.45385	9	X
K11B27P	17.8	0.15	K194R	328.948	58.969	142.230	23.854	0.05064	1.93113	8	X
K11B37Q	17.6	0.15	K194R	343.982	221.194	321.270	12.548	0.11283	2.52724	5	X
K11B47H	18.1	0.15	K194R	20.395	268.835	230.015	3.784	0.12128	2.51692	4	X
K11B65U	18.0	0.15	K194R	109.321	87.173	325.368	18.549	0.10379	1.90922	5	X
K11B66T	18.4	0.15	K194R	352.902	197.747	2.190	19.006	0.06131	1.93080	6	X
K11B82E	18.7	0.15	K194R	34.220	179.300	313.517	17.393	0.06381	1.91290	4	X
K11BA5R	16.4	0.15	K194R	27.967	288.175	185.591	6.373	0.17117	3.96657	5	X
K11BD5F	17.7	0.15	K194R	324.074	124.694	104.389	6.962	0.17302	2.44944	5	X
K11BF2Q	18.2	0.15	K194R	352.728	25.747	143.779	2.962	0.12801	2.54685	5	X
K11BG6G	17.9	0.15	K194R	58.903	83.197	9.157	4.014	0.13694	2.50987	6	X
K11C19H	17.8	0.15	K194R	18.986	16.741	129.973	3.527	0.16957	2.48464	5	X
K11C47X	18.7	0.15	K194R	13.359	215.563	298.381	8.803	0.40517	2.52579	5	X
K11C53W	16.3	0.15	K194R	34.994	323.209	143.193	7.778	0.21460	3.97666	5	X
K11C59J	16.3	0.15	K194R	3.546	198.259	318.722	3.008	0.10809	3.96079	3	W
K11C73H	17.6	0.15	K194R	278.380	278.018	344.243	19.871	0.05538	1.92129	8	X
K11C75X	18.0	0.15	K194R	13.676	186.799	346.402	19.092	0.06917	1.91413	5	X
K11D20N	16.1	0.15	K194R	22.259	21.661	97.862	3.867	0.21358	3.99526	4	X
K11D38A	18.1	0.15	K194R	45.216	136.973	328.909	5.274	0.19841	2.53490	6	X
K11D51O	16.7	0.15	K194R	52.075	329.462	137.853	13.456	0.16652	2.53200	7	X
K11E16H	16.9	0.15	K194R	26.853	7.721	122.332	5.392	0.17884	2.55554	7	X
K11E23O	18.2	0.15	K194R	60.504	111.950	1.541	19.847	0.09538	1.92875	3	X
K11E24E	17.4	0.15	K194R	7.627	79.608	81.320	3.755	0.16632	2.54751	9	X
K11E51D	17.5	0.15	K194R	50.046	63.467	52.043	22.088	0.08869	1.94076	8	X
K11E52J	17.7	0.15	K194R	321.813	58.304	156.240	5.668	0.20918	2.58626	5	X
K11E53V	18.0	0.15	K194R	335.193	57.839	141.526	5.419	0.22208	2.58765	4	X
K11E60D	17.4	0.15	K194R	205.822	192.601	130.524	11.956	0.03314	2.55258	4	W
K11E81L	17.5	0.15	K194R	3.565	359.241	155.923	8.058	0.13505	2.55869	7	X
K11E85X	17.4	0.15	K194R	34.091	69.657	56.998	6.950	0.21349	2.54196	8	X
K11E86P	17.5	0.15	K194R	270.584	170.839	109.958	24.162	0.06644	1.94952	7	W
K11E90A	18.2	0.15	K194R	349.932	173.438	17.910	6.142	0.10536	2.55883	4	W
K11E90S	18.5	0.15	K194R	44.079	117.375	359.610	8.210	0.20119	2.53617	7	X
K11F06E	17.9	0.15	K194R	348.473	60.997	122.342	4.671	0.20194	2.57715	4	X
K11F60R	17.5	0.15	K194R	301.304	235.627	13.608	12.283	0.13275	2.56739	4	X
K11F80J	18.2	0.15	K194R	20.818	123.050	26.683	10.337	0.11848	2.55283	5	X
K11FA2U	16.8	0.15	K194R	230.108	201.560	107.808	5.923	0.03711	2.52825	10	X
K11FF7F	17.0	0.15	K194R	355.939	39.578	141.168	14.138	0.11280	2.57983	7	X
K11G56Z	17.4	0.15	K194R	40.825	57.136	63.465	6.379	0.24058	2.56418	5	X
K11G61K	18.1	0.15	K194R	325.677	91.019	140.651	5.978	0.22387	2.55121	5	X
K11G71N	17.1	0.15	K194R	310.617	111.920	139.269	29.590	0.34885	2.60027	3	X
K11G90D	18.2	0.15	K194R	347.005	184.372	9.030	6.850	0.11304	2.57847	4	X
K11H12A	17.0	0.15	K194R	250.284	171.393	115.503	10.533	0.11805	2.67691	7	X
K11H17P	17.7	0.15	K194R	306.452	201.904	27.338	1.641	0.12221	2.59785	7	X
K11H28V	16.8	0.15	K194R	294.034	154.449	92.989	6.705	0.05880	2.62083	10	X
K11H56B	16.4	0.15	K194R	245.893	167.528	124.173	12.633	0.17421	2.69897	9	X
K11H93W	18.4	0.15	K194R	338.156	109.394	97.904	9.819	0.15928	2.60417	3	X
K11J12Y	17.2	0.15	K194R	305.210	108.298	144.699	12.490	0.24548	2.60929	5	X
K11J14O	16.4	0.15	K194R	227.011	152.104	146.258	13.790	0.11613	2.71607	8	X
K11K04O	17.1	0.15	K194R	3.333	105.613	56.668	28.830	0.37386	2.59478	5	X
K11K08Y	16.3	0.15	K194R	265.399	173.222	119.662	15.278	0.24046	2.67269	9	X
K11K12U	17.3	0.15	K194R	290.656	112.561	143.644	15.923	0.12360	2.65287	4	X
K11K22O	17.4	0.15	K194R	295.497	111.982	148.041	12.712	0.24705	2.63859	5	X
K11K30J	16.5	0.15	K194R	332.613	134.924	84.456	9.414	0.17412	2.61820	10	X
K11L02R	17.6	0.15	K194R	11.839	61.010	101.212	4.654	0.17328	2.59577	8	X
K11L12D	16.3	0.15	K194R	146.796	240.851	127.129	4.578	0.13618	2.77301	13	X
K11M11S	17.2	0.15	K194R	284.625	163.858	85.529	5.521	0.02133	2.78457	7	X
K11P01A	13.1	0.15	K194R	245.476	145.552	144.797	22.504	0.04706	5.25858	7	X
K11Q02Y	16.5	0.15	K194R	244.955	150.699	153.059	14.285	0.25049	2.79866	6	X
K11Q60D	15.9	0.15	K194R	180.707	17.675	315.515	8.461	0.02960	3.01781	10	X
K11Q74A	16.2	0.15	K194R	103.750	62.491	335.016	7.561	0.06636	3.07567	8	X
K11S12Q	20.9	0.15	K194R	102.992	40.084	8.749	13.686	0.39630	1.72698	2	X
K11S49E	15.9	0.15	K194R	148.076	21.338	353.642	15.289	0.12018	3.02052	7	W
K11SA4N	18.6	0.15	K194R	115.844	84.446	315.532	5.327	0.13154	2.17464	5	W
K11SB0D	15.5	0.15	K194R	115.642	69.047	319.504	15.304	0.12068	3.10157	9	X
K11SH8K	18.0	0.15	K194R	93.147	72.308	347.005	6.694	0.15053	2.18114	7	X
K11SM7Y	16.3	0.15	K194R	204.643	320.836	354.416	9.919	0.08346	3.06981	4	X
K11SN1H	16.5	0.15	K194R	150.944	23.727	342.549	8.546	0.07327	3.10335	6	X
K11SP6B	16.0	0.15	K194R	202.602	5.932	313.457	8.085	0.09163	2.98925	7	X
K11SR2A	16.0	0.15	K194R	137.572	246.890	145.517	9.338	0.05820	2.99966	12	X
K11T13N	16.1	0.15	K194R	126.129	251.549	110.128	6.743	0.21222	3.17107	7	X

K11T14P	15.6	0.15	K194R	230.671	216.915	91.246	10.404	0.06603	2.93490	9	X
K11U45F	17.2	0.15	K194R	166.259	241.743	117.023	11.382	0.06200	3.08628	4	W
K11U54X	18.4	0.15	K194R	130.028	347.775	44.106	6.285	0.09909	2.18050	5	X
K11UE1J	15.5	0.15	K194R	173.274	301.304	54.977	12.198	0.14514	3.06486	13	X
K11UG5X	15.9	0.15	K194R	203.892	240.503	90.309	10.750	0.07260	3.13201	11	X
K11UH3F	15.7	0.15	K194R	215.333	132.029	170.863	8.947	0.04429	3.12180	11	X
K11UI1H	15.8	0.15	K194R	182.990	309.977	37.938	9.713	0.09268	3.10542	9	X
K11UM3F	16.8	0.15	K194R	262.163	85.898	182.160	1.062	0.13473	3.01209	7	X
K11UQ6D	19.0	0.15	K194R	112.213	345.710	56.747	5.699	0.15449	2.20238	4	W
K11UQ7P	18.3	0.15	K194R	102.645	17.079	33.676	6.985	0.15104	2.20246	6	X
K11UR3Z	16.1	0.15	K194R	150.465	348.983	15.314	10.237	0.09630	3.13805	7	X
K11UF4B	15.9	0.15	K194R	211.174	208.727	122.090	12.266	0.12625	3.09977	9	W
K11W54G	19.0	0.15	K194R	82.927	1.759	65.534	5.153	0.17606	2.20618	3	W
K11WA7F	16.6	0.15	K194R	127.060	319.578	79.604	10.060	0.06091	3.21690	5	X
K11Y03P	17.5	0.15	K194R	83.581	9.118	61.632	7.061	0.17697	2.24804	7	X
K11Y38B	18.4	0.15	K194R	64.028	329.314	125.062	6.524	0.18990	2.27232	5	X
K11Y74O	17.5	0.15	K194R	54.178	142.815	320.161	25.500	0.26332	2.27190	4	W
K12A06C	17.8	0.15	K194R	40.900	222.829	256.270	1.028	0.12524	2.27523	10	X
K12A20N	18.3	0.15	K194R	37.418	345.108	142.899	2.755	0.09685	2.26951	7	X
K12A24S	17.3	0.15	K194R	334.373	82.311	112.538	7.502	0.06576	2.38278	9	X
K12A25Y	18.1	0.15	K194R	303.062	303.397	284.390	3.029	0.11348	2.27569	8	X
K12B04T	18.1	0.15	K194R	72.641	139.532	290.676	2.362	0.13454	2.28643	7	X
K12B11N	20.8	0.15	K194R	359.441	69.677	153.764	4.357	0.39492	1.45765	5	X
K12B37D	17.9	0.15	K194R	61.995	326.419	124.797	7.519	0.04351	2.27815	5	X
K12B85W	17.7	0.15	K194R	353.991	329.758	235.873	4.460	0.35697	2.32774	5	X
K12BC4T	18.5	0.15	K194R	53.082	286.119	170.594	4.901	0.20648	2.29641	6	X
K12BD6P	17.3	0.15	K194R	230.564	208.938	109.348	8.770	0.09858	2.23275	6	X
K12BE3T	18.4	0.15	K194R	25.539	22.759	119.270	5.897	0.13347	2.30695	6	X
K12BE5K	17.8	0.15	K194R	111.193	259.865	131.071	5.981	0.16924	2.30805	3	X
K12BF9W	17.8	0.15	K194R	242.679	345.788	313.314	4.888	0.16245	2.25099	8	X
K12C11V	18.1	0.15	K194R	305.485	224.041	21.413	2.588	0.17745	2.29439	9	X
K12C14L	18.6	0.15	K194R	42.953	327.979	137.234	5.341	0.15420	2.32357	4	X
K12C40O	17.9	0.15	K194R	1.575	65.080	105.385	4.278	0.06504	2.30084	9	X
K12C53H	17.2	0.15	K194R	88.178	343.410	107.031	6.502	0.04514	2.25559	11	X
K12D10E	18.8	0.15	K194R	10.074	95.472	65.681	2.521	0.11757	2.31515	3	X
K12D23S	17.8	0.15	K194R	324.240	237.784	342.976	4.696	0.19927	2.33968	7	X
K12D35D	18.5	0.15	K194R	15.160	2.945	138.488	5.683	0.12120	2.34531	6	X
K12D58Q	18.1	0.15	K194R	39.214	129.318	350.389	6.258	0.05949	2.35066	3	X
K12D67K	17.9	0.15	K194R	331.852	117.004	113.287	6.075	0.20680	2.32575	7	X
K12D74Q	18.3	0.15	K194R	342.435	167.011	29.648	3.189	0.13449	2.32623	5	X
K12D76R	17.3	0.15	K194R	41.470	138.139	339.788	4.571	0.18143	2.33150	10	X
K12D77Q	17.3	0.15	K194R	348.281	237.025	316.338	23.684	0.14613	2.31268	5	X
K12D85O	18.2	0.15	K194R	20.157	156.677	346.262	4.885	0.09000	2.34263	7	X
K12D87G	18.5	0.15	K194R	26.019	82.375	69.229	3.904	0.12574	2.28942	5	X
K12D90D	18.5	0.15	K194R	344.026	111.325	110.138	4.897	0.34717	2.30451	4	X
K12D98F	17.6	0.15	K194R	355.393	192.071	353.606	21.617	0.17036	2.33583	4	X
K12DA5M	17.7	0.15	K194R	125.456	273.896	125.346	7.480	0.11554	2.35246	8	X
K12DA6D	17.6	0.15	K194R	202.538	215.022	115.719	7.430	0.13160	2.31449	10	X
K12F04G	17.8	0.15	K194R	336.314	233.942	327.162	6.651	0.14765	2.33210	4	X
K12F15F	18.0	0.15	K194R	348.904	108.015	79.849	6.700	0.03963	2.32507	8	X
K12F26M	18.6	0.15	K194R	352.886	181.866	0.246	3.873	0.10774	2.34330	5	X
K12F28T	17.3	0.15	K194R	207.378	330.170	3.188	23.562	0.09239	2.32844	5	W
K12F30R	17.3	0.15	K194R	279.254	173.035	107.682	7.711	0.11884	2.29799	11	X
K12F34T	18.0	0.15	K194R	318.876	102.531	109.585	3.593	0.14278	2.37472	7	X
K12F45Q	18.6	0.15	K194R	346.982	0.440	187.645	0.875	0.12628	2.34060	6	X
K12F64G	18.6	0.15	K194R	310.977	213.772	31.367	2.523	0.18613	2.33469	6	W
K12F70Y	18.2	0.15	K194R	28.991	113.659	20.844	1.651	0.13349	2.36236	6	X
K12F74J	17.8	0.15	K194R	275.941	181.249	83.576	2.474	0.15935	2.40370	3	X
K12G06K	18.1	0.15	K194R	344.937	175.203	15.306	3.132	0.12687	2.35627	6	X
K12G23S	17.0	0.15	K194R	235.729	231.247	80.135	6.862	0.10100	2.34326	11	X
K12G24U	18.3	0.15	K194R	307.213	260.582	336.101	1.972	0.16044	2.37232	4	X
K12H26M	18.3	0.15	K194R	15.264	35.760	120.823	2.317	0.12218	2.37657	8	X
K12H31W	17.9	0.15	K194R	326.554	193.030	27.263	4.351	0.13477	2.35602	8	X
K12H33V	17.5	0.15	K194R	323.128	206.764	35.671	6.774	0.26870	2.35839	8	X
K12H63K	17.1	0.15	K194R	13.068	103.446	66.044	7.166	0.04053	2.38957	8	X
K12H70J	18.1	0.15	K194R	339.253	134.142	73.183	3.321	0.16884	2.36428	5	X
K12H70T	17.8	0.15	K194R	291.370	168.681	83.700	7.192	0.09274	2.41056	4	X
K12H85M	18.1	0.15	K194R	317.882	90.766	137.437	3.231	0.13297	2.39813	5	X
K12H85X	17.9	0.15	K194R	342.185	51.957	139.670	1.955	0.12289	2.38074	6	X
K12J14X	17.9	0.15	K194R	303.015	117.076	129.995	9.605	0.14099	2.40044	6	X
K12J24L	17.7	0.15	K194R	297.682	101.285	147.427	6.023	0.19284	2.41450	9	X
K12J67P	17.7	0.15	K194R	340.922	39.052	155.877	2.250	0.09839	2.42780	8	X
K12M07W	16.4	0.15	K194R	175.949	241.886	99.793	4.829	0.21129	2.56806	10	X
K12P06D	16.5	0.15	K194R	102.526	90.498	296.811	13.674	0.18161	2.83138	7	X
K12P27Z	17.0	0.15	K194R	218.675	182.302	137.696	14.817	0.17724	2.60140	4	W
K12P30D	16.1	0.15	K194R	188.959	206.447	132.716	14.851	0.17693	2.63614	10	X
K12P33B	15.7	0.15	K194R	136.881	219.754	151.449	22.070	0.19444	2.79857	10	X
K12P35F	16.0	0.15	K194R	193.674	179.834	134.636	11.850	0.10837	2.72997	11	X
K12P44X	16.7	0.15	K194R	92.702	206.710	208.198	4.834	0.03736	2.78458	9	X
K12P45L	16.7	0.15	K194R	202.532	342.776	327.428	11.179	0.17599	2.67990	8	X
K12Q07F	16.1	0.15	K194R	84.504	287.212	147.525	22.177	0.03177	2.68555	4	X
K12Q16R	15.9	0.15	K194R	173.846	254.848	106.825	12.347	0.08495	2.75426	9	X
K12Q45C	16.4	0.15	K194R	59.045	82.690	328.459	9.482	0.34976	3.05786	6	W
K12Q54D	17.1	0.15	K194R	163.765	214.750	148.105	6.214	0.10472	2.67771	7	X
K12R04J	18.1	0.15	K194R	134.850	55.816	337.327	18.684	0.09953	1.93492	5	X
K12R04V	16.3	0.15	K194R	117.763	27.444	356.323	8.831	0.25291	2.84574	7	X
K12R26F	16.0	0.15	K194R	207.068	155.932	156.881	13.944	0.22061	2.73314	12	X
K12R32E	16.4	0.15	K194R	186.094	232.321	109.070	4.545	0.18380	2.69061	10	X
K12R32Q	16.5	0.15	K194R	192.001	182.338	151.501	15.557	0.14644	2.69885	6	X
K12R43Z	16.6	0.15	K194R	131.018	36.633	355.596	26.255	0.13371	2.72200	4	X
K12R44K	16.7	0.15	K194R	186.670	8.174	325.145	8.410	0.17718	2.72722	7	X

K12S00J	16.1	0.15	K194R	304.009	251.805	352.542	13.055	0.13880	2.60946	7	X
K12S04T	16.2	0.15	K194R	109.768	351.806	63.394	5.322	0.10425	2.80902	10	X
K12S12J	17.2	0.15	K194R	169.787	343.627	16.170	4.641	0.09074	2.74619	7	W
K12S34F	16.7	0.15	K194R	169.039	352.837	355.153	5.820	0.01554	2.76710	11	X
K12S50S	17.2	0.15	K194R	277.841	253.780	8.408	13.280	0.11334	2.64522	5	X
K12S59D	15.9	0.15	K194R	109.395	76.157	324.829	13.996	0.10931	2.80652	8	X
K12S63U	16.6	0.15	K194R	52.311	113.991	348.716	8.650	0.06008	2.78707	11	X
K12S64F	16.0	0.15	K194R	222.057	149.862	149.567	5.496	0.09350	2.71794	10	X
K12S65A	15.8	0.15	K194R	217.228	322.991	357.387	11.569	0.03204	2.72317	10	X
K12S68R	16.9	0.15	K194R	141.812	333.922	38.840	4.917	0.08853	2.81276	7	X
K12T17J	17.1	0.15	K194R	146.742	350.481	19.182	5.524	0.04576	2.80968	8	X
K12T51N	17.1	0.15	K194R	150.025	352.680	15.082	4.420	0.08590	2.80803	3	X
K12T58R	16.7	0.15	K194R	216.239	171.708	142.093	5.526	0.10535	2.72043	11	X
K12T69E	16.6	0.15	K194R	309.522	218.328	38.418	14.232	0.23436	2.62852	8	X
K12TA3H	16.8	0.15	K194R	46.808	80.810	10.898	15.943	0.36653	3.05069	5	X
K12TB3D	17.2	0.15	K194R	200.231	0.975	323.334	3.658	0.07046	2.76977	7	X
K12TB6P	16.7	0.15	K194R	323.259	227.582	337.023	6.959	0.15918	2.79033	10	X
K12TC6O	16.5	0.15	K194R	121.692	278.907	122.309	1.539	0.07576	2.76706	12	X
K12TC6P	17.4	0.15	K194R	138.678	293.817	86.870	1.721	0.08705	2.77095	8	X
K12TD5D	17.2	0.15	K194R	153.533	280.892	94.565	6.826	0.05896	2.74977	9	W
K12TF4T	17.1	0.15	K194R	203.450	286.242	33.684	6.147	0.04024	2.76640	4	W
K12TG1K	16.7	0.15	K194R	357.613	116.619	52.354	4.409	0.03345	2.79570	9	X
K12TL7L	18.3	0.15	K194R	99.523	253.449	153.770	25.133	0.15217	1.99966	3	X
K12TM3X	16.8	0.15	K194R	183.755	151.743	186.632	3.282	0.09892	2.76362	9	W
K12TN7A	16.8	0.15	K194R	220.535	206.571	112.767	4.829	0.08260	2.71794	10	W
K12TT9A	17.0	0.15	K194R	184.092	282.367	61.191	1.176	0.08423	2.77769	12	X
K12U09F	16.4	0.15	K194R	177.345	276.163	78.565	6.000	0.05987	2.76477	11	X
K12U13H	17.1	0.15	K194R	81.378	29.559	42.627	7.549	0.16366	2.89330	3	X
K12U13O	17.0	0.15	K194R	282.134	134.807	104.594	4.602	0.03672	2.79843	10	X
K12UC0H	16.5	0.15	K194R	62.280	134.043	297.798	5.671	0.15423	3.04382	4	X
K12UF1O	16.4	0.15	K194R	244.625	221.020	63.713	7.157	0.00391	2.87620	11	X
K12UH8U	17.3	0.15	K194R	51.373	20.706	67.796	4.427	0.18652	3.03662	5	X
K12UI0B	16.2	0.15	K194R	90.547	38.871	31.411	10.636	0.10670	2.94893	6	X
K12V15D	16.4	0.15	K194R	279.765	165.018	108.129	13.086	0.13357	2.67881	11	X
K12V19J	17.1	0.15	K194R	87.308	296.915	121.151	4.151	0.14650	2.98835	4	X
K12V44U	17.0	0.15	K194R	106.779	71.995	321.540	0.717	0.18681	3.01198	6	X
K12V45R	16.6	0.15	K194R	51.992	249.327	184.463	8.076	0.25960	3.09389	3	X
K12V98Z	15.6	0.15	K194R	96.292	271.730	132.505	11.756	0.22394	3.00630	12	X
K12VA0E	16.3	0.15	K194R	177.376	282.114	78.343	6.526	0.05789	2.80281	10	X
K12VB4T	16.6	0.15	K194R	75.014	344.832	105.676	8.541	0.04207	2.96435	6	X
K12VB5J	16.1	0.15	K194R	177.667	236.494	113.869	14.467	0.11309	3.06872	5	X
K12W00Q	16.5	0.15	K194R	91.960	315.393	115.108	11.845	0.07632	2.95962	8	X
K12W20A	16.7	0.15	K194R	154.127	349.127	14.459	1.823	0.09953	2.91462	3	X
K12W36Z	16.9	0.15	K194R	55.618	310.182	137.504	1.808	0.15662	3.04742	6	X
K12X27L	17.3	0.15	K194R	88.732	52.915	6.691	1.678	0.16882	3.01353	8	W
K12X64T	16.8	0.15	K194R	186.895	222.850	120.852	9.393	0.02065	2.92383	4	W
K12X69H	16.0	0.15	K194R	112.551	296.115	106.973	7.950	0.10146	2.95042	11	X
K12X83U	15.4	0.15	K194R	345.915	240.551	297.885	20.151	0.17399	3.19901	6	X
K12XA5P	16.0	0.15	K194R	337.161	225.829	313.440	14.152	0.04390	3.16533	3	X
K12XB5K	17.2	0.15	K194R	44.750	3.188	96.353	3.687	0.18201	3.03217	5	X
K12XF5Y	16.2	0.15	K194R	92.272	299.014	102.142	7.776	0.23409	3.02870	8	X
K12XF9E	17.0	0.15	K194R	94.380	86.827	313.610	8.945	0.22600	3.16070	5	W
K12Y11J	16.9	0.15	K194R	60.230	5.238	94.160	11.968	0.19378	3.12704	3	X
K13A07P	16.3	0.15	K194R	72.385	319.382	123.818	11.452	0.21101	3.15724	7	X
K13A32M	15.7	0.15	K194R	60.325	117.557	312.240	23.553	0.19878	3.19516	7	X
K13A38K	16.9	0.15	K194R	44.293	357.556	117.356	12.020	0.18664	3.17623	4	X
K13A58F	16.2	0.15	K194R	342.014	71.585	118.268	13.446	0.03550	3.16143	4	X
K13A70Z	16.5	0.15	K194R	36.955	344.168	133.271	6.897	0.12289	3.22656	5	X
K13A86G	16.5	0.15	K194R	93.159	324.119	104.689	7.920	0.10299	3.08484	7	X
K13A96U	16.0	0.15	K194R	271.160	164.693	101.643	11.601	0.08639	3.10285	7	X
K13AB6K	16.1	0.15	K194R	12.471	172.715	341.265	9.380	0.06908	3.19872	9	X
K13AB8K	16.3	0.15	K194R	20.955	165.400	332.953	13.317	0.06005	3.20537	5	X
K13AC2D	15.7	0.15	K194R	168.541	253.133	111.217	11.823	0.09269	3.08937	11	W
K13AC4D	15.5	0.15	K194R	244.060	186.936	110.183	11.609	0.08103	3.11586	14	X
K13AC4K	16.4	0.15	K194R	95.408	337.993	87.561	6.571	0.13176	3.14161	8	X
K13AE8G	16.6	0.15	K194R	307.503	73.197	151.708	16.429	0.16279	3.17642	6	X
K13AF3O	16.9	0.15	K194R	273.140	102.319	154.258	17.855	0.08532	3.13969	7	X
K13AF9Q	16.7	0.15	K194R	132.994	215.779	161.382	11.753	0.11207	3.14639	9	W
K13AI4Z	16.0	0.15	K194R	356.076	40.003	128.121	10.385	0.02295	3.17425	7	X
K13AI7D	16.4	0.15	K194R	114.655	270.761	138.146	18.863	0.09702	3.11653	6	W
K13B08M	16.3	0.15	K194R	117.228	318.339	96.692	11.974	0.04459	3.06616	7	X
K13B21F	16.3	0.15	K194R	74.738	98.884	336.804	11.164	0.03272	3.19328	6	X
K13B70X	17.0	0.15	K194R	32.057	129.130	10.431	17.098	0.16711	3.13746	6	X
K13B71Z	17.0	0.15	K194R	26.567	9.043	135.040	11.437	0.14511	3.14967	5	X
K13B83C	16.4	0.15	K194R	208.796	188.430	130.378	13.317	0.03532	3.20254	7	X
K13C32A	16.0	0.15	K194R	100.968	302.379	117.207	12.824	0.09967	3.14729	7	X
K13C75T	16.1	0.15	K194R	18.910	240.824	246.226	6.426	0.07433	3.37086	7	X
K13CI1M	15.8	0.15	K194R	347.027	204.575	331.989	17.306	0.10610	3.34568	4	X
K13CI9W	15.9	0.15	K194R	28.209	358.428	141.321	11.058	0.01238	3.15620	8	X
K13CK9T	16.5	0.15	K194R	20.023	357.604	151.139	9.519	0.06255	3.18040	7	X
K13D16Q	15.2	0.15	K194R	350.146	192.173	342.927	26.962	0.12010	3.23881	4	X
K13G89Y	17.7	0.15	K194R	288.161	148.110	121.338	3.820	0.13937	2.16056	10	X
K13H36H	19.1	0.15	K194R	69.416	104.635	352.658	6.800	0.09005	2.14571	6	X
K13J42D	17.8	0.15	K194R	313.338	190.677	41.696	3.825	0.12008	2.16259	8	X
K13K14U	18.7	0.15	K194R	303.312	167.996	89.008	6.354	0.14704	2.15552	3	X
K13L02G	18.4	0.15	K194R	319.317	145.343	71.353	3.878	0.09372	2.18239	7	X
K13N25E	18.1	0.15	K194R	306.382	257.080	332.490	3.497	0.07582	2.30758	6	X
K13N30T	18.0	0.15	K194R	37.964	35.355	111.578	7.595	0.02920	2.31403	5	X
K13N33S	18.2	0.15	K194R	325.801	68.493	154.935	4.649	0.16109	2.24431	7	X
K13P10V	16.5	0.15	K194R	69.393	275.114	139.641	13.316	0.26393	2.68127	9	X
K13P50V	17.4	0.15	K194R	52.090	24.250	66.356	15.125	0.22582	2.67025	3	X

K13Q26D	16.9	0.15	K194R	80.217	36.546	24.362	0.740	0.18786	2.52636	11	X
K13Q33B	17.0	0.15	K194R	274.343	299.020	341.587	23.669	0.21424	2.26214	7	X
K13Q73O	17.6	0.15	K194R	259.872	194.060	102.217	4.053	0.16781	2.27802	10	X
K13Q82S	17.5	0.15	K194R	138.569	207.704	154.194	14.093	0.31624	2.52783	7	X
K13R08A	17.3	0.15	K194R	63.224	115.435	337.947	7.006	0.05063	2.46996	6	X
K13R08J	18.5	0.15	K194R	280.100	295.710	328.644	5.741	0.11865	2.33242	5	X
K13R08U	17.6	0.15	K194R	33.028	149.072	337.301	5.837	0.09698	2.47215	6	X
K13R14W	17.2	0.15	K194R	184.468	220.085	126.786	2.179	0.19613	2.41479	7	X
K13R16R	17.7	0.15	K194R	69.181	83.669	327.418	8.693	0.39655	2.74763	4	X
K13R24M	16.9	0.15	K194R	247.177	210.416	70.368	2.792	0.16718	2.39798	13	X
K13RA0B	17.3	0.15	K194R	101.037	145.652	254.256	1.133	0.14326	2.66506	9	X
K13RA8W	17.1	0.15	K194R	101.410	268.496	126.649	11.453	0.13743	2.60126	9	X
K13S14Q	18.0	0.15	K194R	77.627	63.018	351.903	5.817	0.26074	2.62949	4	X
K13S17Z	18.4	0.15	K194R	266.270	269.313	10.570	8.249	0.16024	2.33334	5	W
K13S71S	17.2	0.15	K194R	79.807	4.454	56.085	7.504	0.30452	2.64483	6	X
K13T33Y	17.0	0.15	K194R	241.036	256.045	46.608	5.068	0.23807	2.38487	14	X
K13T53Y	17.5	0.15	K194R	105.601	53.032	351.637	7.054	0.20497	2.58856	4	W
K13TA2O	17.3	0.15	K194R	69.635	51.943	27.624	6.429	0.20551	2.63496	4	X
K13U20K	17.6	0.15	K194R	71.043	50.988	38.293	3.969	0.14891	2.64393	7	W
K13U21Z	17.7	0.15	K194R	31.630	197.909	279.114	2.571	0.10093	2.70315	7	X
K13V15R	16.9	0.15	K194R	105.780	266.590	128.198	4.738	0.08770	2.67568	9	X
K13V21H	17.4	0.15	K194R	106.196	38.305	4.937	15.394	0.22407	2.61180	3	W
K13V25H	17.0	0.15	K194R	27.869	129.702	8.334	13.188	0.18652	2.67345	6	X
K13V26O	17.1	0.15	K194R	14.780	24.741	130.490	14.288	0.12560	2.69300	8	X
K13V29R	18.0	0.15	K194R	35.593	23.700	104.684	7.853	0.17452	2.68468	5	X
K13V30Y	17.8	0.15	K194R	80.290	261.416	165.706	5.637	0.16064	2.63765	5	X
K13W14D	17.3	0.15	K194R	74.408	297.417	125.998	5.953	0.11499	2.74597	4	X
K13W15F	16.7	0.15	K194R	207.370	242.308	88.567	10.038	0.06868	2.55564	10	X
K13W23T	16.5	0.15	K194R	271.067	124.892	135.459	11.444	0.09724	2.57258	13	X
K13W68E	17.0	0.15	K194R	103.371	44.582	9.371	10.512	0.10310	2.62533	6	W
K13W80M	16.5	0.15	K194R	56.001	20.904	93.617	10.132	0.11400	2.73838	8	X
K13WA2Z	17.0	0.15	K194R	111.033	319.676	69.855	4.834	0.26449	2.62457	6	X
K13WA4G	16.9	0.15	K194R	123.499	239.824	137.876	4.918	0.19572	2.65855	10	X
K13WA9V	17.7	0.15	K194R	39.413	147.043	315.296	5.832	0.26196	2.73718	4	X
K13WB1M	16.6	0.15	K194R	181.424	235.404	110.859	7.823	0.18053	2.54994	7	W
K13WB4B	17.4	0.15	K194R	86.262	304.526	131.776	3.055	0.06201	2.64266	7	W
K13Y09E	17.6	0.15	K194R	49.255	345.889	127.645	3.530	0.14908	2.77801	4	X
K13Y23F	17.0	0.15	K194R	242.115	244.059	50.200	2.601	0.12123	2.54268	11	X
K13Y35Y	16.1	0.15	K194R	135.232	358.241	28.050	7.578	0.13754	2.72531	9	X
K13Y43P	17.2	0.15	K194R	40.674	5.413	102.928	6.579	0.18352	2.85899	5	X
K13Y45L	16.8	0.15	K194R	97.056	309.183	117.996	7.137	0.12536	2.71655	9	X
K13YB6L	16.2	0.15	K194R	156.866	249.229	119.530	13.834	0.09392	2.80357	8	X
K13YC0U	17.8	0.15	K194R	58.285	343.694	117.732	4.222	0.16223	2.77436	5	X
K13YD2N	17.2	0.15	K194R	302.279	205.899	45.453	8.304	0.17920	2.68259	5	X
K13YE0L	16.8	0.15	K194R	169.358	265.059	89.643	4.618	0.05087	2.66198	11	W
K13YE2L	17.6	0.15	K194R	27.791	48.402	79.046	3.772	0.16061	2.75573	4	X
K13YF1V	16.4	0.15	K194R	19.306	161.184	344.374	13.300	0.19784	2.99355	4	X
K13YF2J	16.8	0.15	K194R	137.709	242.562	133.650	5.243	0.08545	2.78678	10	X
K13YF3G	17.1	0.15	K194R	137.955	278.087	100.197	7.513	0.05450	2.77520	8	X
K14A45M	16.7	0.15	K194R	83.955	261.620	175.372	2.866	0.04744	2.78149	14	X
K14A51Y	18.5	0.15	K194R	107.962	81.996	331.535	18.677	0.08658	1.82331	3	X
K14A57B	16.1	0.15	K194R	286.360	223.668	27.369	12.681	0.05771	2.92539	7	X
K14A58F	16.6	0.15	K194R	74.139	122.121	314.764	7.680	0.03860	2.81487	5	X
K14A59D	16.3	0.15	K194R	318.239	214.368	348.241	10.458	0.07276	3.10210	6	X
K14A60U	17.6	0.15	K194R	93.916	277.190	144.800	6.714	0.11068	2.77638	6	W
K14B09R	17.1	0.15	K194R	44.242	132.387	341.088	9.353	0.15253	2.80338	4	X
K14B16H	16.9	0.15	K194R	146.252	312.747	70.050	6.570	0.05191	2.73970	9	X
K14B17S	16.7	0.15	K194R	147.593	281.618	110.909	7.256	0.03846	2.74079	11	X
K14B26X	17.0	0.15	K194R	39.919	349.857	136.471	6.319	0.12305	2.77636	9	X
K14B38A	18.3	0.15	K194R	129.381	246.678	145.320	22.554	0.10135	1.85755	4	X
K14B52F	16.4	0.15	K194R	243.402	300.001	348.781	6.134	0.09458	2.76505	10	X
K14B65W	16.9	0.15	K194R	219.850	169.719	138.201	6.563	0.03946	2.86099	9	X
K14B66A	16.4	0.15	K194R	102.881	72.771	324.864	10.638	0.06685	3.05156	7	X
K14B66P	16.7	0.15	K194R	301.889	81.032	134.792	6.611	0.01147	2.85677	7	X
K14B69E	16.3	0.15	K194R	11.746	161.178	1.767	10.684	0.09288	3.03008	7	X
K14C04C	17.8	0.15	K194R	21.621	118.395	23.760	1.051	0.16687	2.87015	4	X
K14D00P	18.5	0.15	K194R	107.101	270.526	141.299	23.755	0.09915	1.86489	4	X
K14D05K	16.5	0.15	K194R	310.087	268.122	294.932	9.610	0.03336	3.00360	6	X
K14D07U	16.9	0.15	K194R	222.064	243.846	59.693	3.054	0.02899	2.85376	10	X
K14D17X	16.8	0.15	K194R	50.828	57.305	38.251	8.479	0.27278	2.74304	8	X
K14D18Z	15.8	0.15	K194R	101.531	83.990	311.291	10.277	0.09159	3.01729	9	X
K14D20S	15.8	0.15	K194R	68.393	289.503	134.818	10.115	0.14240	3.03076	10	X
K14D22F	18.8	0.15	K194R	108.464	260.379	141.410	24.254	0.20990	1.86177	3	X
K14D24M	17.2	0.15	K194R	3.750	149.409	20.779	2.889	0.15288	2.89603	4	X
K14D26X	15.9	0.15	K194R	148.404	218.739	153.534	21.358	0.15489	2.87112	8	X
K14D30U	15.7	0.15	K194R	334.433	23.365	162.671	10.931	0.05635	3.05932	14	X
K14D34E	16.5	0.15	K194R	354.917	45.474	119.134	2.813	0.10536	2.98799	10	X
K14D35U	15.9	0.15	K194R	246.584	138.736	140.207	11.726	0.03834	3.01473	8	X
K14D42P	16.4	0.15	K194R	1.508	20.196	132.656	10.132	0.04962	3.02232	10	X
K14D45P	16.8	0.15	K194R	356.983	30.333	145.860	12.091	0.15200	2.92878	5	X
K14D49G	15.7	0.15	K194R	338.582	192.626	349.089	8.926	0.01212	3.08663	10	X
K14D49W	17.0	0.15	K194R	324.241	167.497	40.280	5.328	0.03411	2.98916	6	W
K14D57O	16.8	0.15	K194R	287.767	110.999	135.006	5.322	0.08962	3.04101	6	X
K14D61C	16.1	0.15	K194R	232.084	153.764	124.575	4.031	0.07532	3.18893	14	X
K14D73Q	15.9	0.15	K194R	63.273	334.345	137.042	11.096	0.03781	2.99257	9	X
K14D75F	15.9	0.15	K194R	121.605	260.138	136.952	9.684	0.08039	3.09478	10	X
K14D78H	15.9	0.15	K194R	97.403	262.644	144.507	10.282	0.08010	3.13023	11	X
K14DA5B	15.9	0.15	K194R	225.274	149.533	156.062	10.910	0.06601	2.97373	10	X
K14DA5P	15.6	0.15	K194R	306.915	244.306	342.788	8.665	0.15488	3.04724	13	X
K14DA5W	17.0	0.15	K194R	355.870	184.178	349.355	11.008	0.14634	2.97666	5	W
K14DB0Q	18.2	0.15	K194R	85.760	68.568	8.843	20.915	0.07593	1.87229	4	X

K14DB4G	16.7	0.15	K194R	59.204	326.355	125.083	9.039	0.04922	3.05213	8	X
K14DC1A	16.0	0.15	K194R	34.702	291.358	180.579	5.587	0.08356	3.03589	9	X
K14DD1Z	16.2	0.15	K194R	278.549	265.262	351.927	11.115	0.05529	2.97972	4	X
K14DE1M	15.5	0.15	K194R	235.093	178.085	119.499	12.924	0.01313	2.95832	10	X
K14DE6T	16.7	0.15	K194R	189.215	260.177	82.307	3.465	0.00492	2.99867	8	W
K14DE8S	16.6	0.15	K194R	226.565	277.712	38.471	11.668	0.07744	3.04796	5	W
K14DE9E	16.5	0.15	K194R	97.591	84.409	340.012	10.243	0.01698	3.06082	7	X
K14DF0U	16.1	0.15	K194R	255.491	246.137	43.968	10.879	0.09226	2.92302	6	X
K14DF2K	16.8	0.15	K194R	270.853	132.173	139.352	10.868	0.07246	3.02569	5	W
K14DF5Q	16.5	0.15	K194R	198.964	266.738	78.392	6.992	0.07705	2.89829	5	X
K14DF5T	16.4	0.15	K194R	260.130	223.090	62.851	2.946	0.14048	3.00333	10	X
K14E01J	16.1	0.15	K194R	61.901	290.379	162.025	12.022	0.06220	3.04307	10	X
K14E03B	16.8	0.15	K194R	356.153	90.785	89.675	3.290	0.05096	2.95197	4	X
K14E10Y	17.9	0.15	K194R	61.808	86.337	12.500	20.698	0.10134	1.88054	5	X
K14E11C	16.0	0.15	K194R	244.240	159.715	127.085	5.024	0.06259	3.08913	11	W
K14E11Y	15.5	0.15	K194R	342.115	55.611	140.873	12.606	0.02746	2.98085	9	X
K14E17U	16.3	0.15	K194R	5.511	2.978	142.751	15.988	0.08089	3.04073	6	X
K14E22F	16.7	0.15	K194R	318.781	52.355	160.296	9.464	0.15431	3.01657	6	X
K14E31R	16.2	0.15	K194R	202.978	170.649	143.474	10.114	0.07387	3.16242	12	X
K14E31S	18.2	0.15	K194R	54.218	97.000	6.546	20.552	0.13764	1.88125	4	X
K14E40E	16.8	0.15	K194R	324.722	145.205	65.052	10.504	0.03822	3.01775	5	X
K14E44O	15.8	0.15	K194R	264.304	141.373	128.448	10.779	0.13285	3.02597	9	X
K14E50T	15.9	0.15	K194R	327.452	228.064	331.072	16.593	0.14203	3.07679	7	X
K14E08Y	17.0	0.15	K194R	332.317	106.190	96.703	0.124	0.10781	3.08068	4	X
K14E08Z	16.5	0.15	K194R	258.958	277.686	345.156	9.674	0.08553	3.08656	6	X
K14E09K	17.0	0.15	K194R	306.205	166.622	73.393	2.373	0.13566	3.00873	5	W
K14F00Q	18.4	0.15	K194R	330.844	105.927	120.673	23.912	0.10126	1.84867	4	X
K14F01O	16.0	0.15	K194R	184.988	332.236	354.903	8.646	0.07830	3.15681	6	X
K14F05U	16.4	0.15	K194R	113.850	338.883	71.013	5.410	0.06656	2.98583	8	X
K14F08Q	16.2	0.15	K194R	56.211	265.552	174.013	10.167	0.13750	3.13240	9	X
K14F10Z	16.5	0.15	K194R	290.176	259.151	330.587	1.250	0.03684	3.09585	7	X
K14F34R	16.3	0.15	K194R	69.691	286.874	147.220	10.965	0.09599	3.04011	10	X
K14F37Y	18.0	0.15	K194R	88.111	73.593	356.501	21.167	0.07973	1.91128	7	X
K14F43S	17.7	0.15	K194R	88.358	92.114	352.118	19.387	0.08956	1.86763	4	X
K14F47S	16.2	0.15	K194R	314.638	78.617	141.582	6.317	0.19857	3.07331	9	X
K14F51R	17.0	0.15	K194R	318.788	91.743	131.411	6.426	0.23182	3.04864	6	X
K14F65R	15.9	0.15	K194R	276.806	239.733	20.730	11.339	0.10448	3.09460	10	X
K14F74B	16.6	0.15	K194R	140.025	237.732	143.082	10.869	0.04730	3.20287	6	X
K14F74C	16.8	0.15	K194R	32.826	75.115	63.125	5.495	0.10029	3.09766	6	X
K14F75F	16.5	0.15	K194R	293.374	143.840	119.937	10.972	0.23868	3.09715	6	W
K14G11G	16.9	0.15	K194R	44.365	97.094	32.559	10.544	0.05449	3.02414	6	X
K14G29C	17.0	0.15	K194R	341.636	88.046	110.451	2.072	0.15778	3.10183	6	W
K14G29H	16.4	0.15	K194R	315.907	216.392	10.828	16.730	0.04921	3.03656	3	X
K14G31M	16.9	0.15	K194R	353.100	179.944	1.949	1.017	0.24697	3.03201	6	X
K14G33R	16.1	0.15	K194R	1.428	125.897	46.768	10.937	0.04269	3.12666	6	X
K14G37T	15.9	0.15	K194R	58.247	282.940	164.974	11.591	0.04393	3.18843	9	X
K14G56L	16.5	0.15	K194R	305.143	223.600	10.868	7.022	0.12572	3.07152	9	X
K14G57S	16.6	0.15	K194R	24.719	102.442	37.342	5.934	0.08062	3.06625	5	X
K14G57V	16.2	0.15	K194R	232.096	157.843	149.251	15.221	0.07548	3.16880	7	X
K14G59V	16.1	0.15	K194R	29.947	48.917	80.051	27.902	0.22698	3.14299	8	X
K14G61Y	16.7	0.15	K194R	320.974	196.639	20.620	7.316	0.10089	3.15070	5	W
K14G65B	16.7	0.15	K194R	31.216	127.835	13.355	9.765	0.02008	3.04232	8	X
K14H02Q	18.1	0.15	K194R	343.758	156.472	54.901	18.720	0.11676	1.86750	5	X
K14H12K	16.9	0.15	K194R	2.620	90.373	69.049	5.126	0.17890	3.15034	5	X
K14H24Y	16.5	0.15	K194R	323.062	121.436	109.385	12.758	0.20652	3.10406	5	X
K14H34B	16.1	0.15	K194R	174.467	287.058	75.230	11.351	0.00390	3.15428	3	W
K14H44P	17.6	0.15	K194R	3.900	105.449	65.462	1.669	0.32241	3.00575	5	X
K14H45R	16.8	0.15	K194R	355.129	79.633	105.109	7.674	0.17795	3.06137	4	X
K14H50S	16.4	0.15	K194R	74.409	54.183	39.766	9.936	0.06188	3.12450	7	W
K14H51U	16.5	0.15	K194R	343.625	151.214	44.259	8.364	0.05998	3.07900	7	X
K14HC4L	18.1	0.15	K194R	160.500	219.280	150.745	23.424	0.09221	1.94057	4	X
K14HG5O	16.9	0.15	K194R	322.987	87.911	128.424	9.600	0.12605	3.08999	6	X
K14HK3M	16.5	0.15	K194R	36.812	50.776	82.597	11.156	0.07102	3.18489	6	X
K14HK5B	16.5	0.15	K194R	267.916	190.600	87.281	10.380	0.05390	3.16892	4	X
K14HL1E	16.2	0.15	K194R	251.757	184.981	100.538	10.113	0.05794	3.16727	7	X
K14K08G	17.2	0.15	K194R	3.356	131.381	35.951	2.057	0.30816	3.05127	3	X
K14K17Q	16.5	0.15	K194R	13.862	70.012	92.899	11.098	0.16590	3.16307	4	X
K14K27S	16.0	0.15	K194R	42.877	93.182	37.170	11.597	0.07514	3.03556	8	X
K14M32J	16.5	0.15	K194R	318.696	86.480	140.443	10.923	0.18939	3.20258	6	X
K14QN5H	18.3	0.15	K194R	83.098	80.075	8.347	3.855	0.04154	2.12073	9	X
K14QT5R	18.4	0.15	K194R	28.001	10.093	64.642	8.787	0.72047	2.49878	4	X
K14R12C	18.8	0.15	K194R	85.796	12.833	14.153	7.494	0.46407	2.39309	2	X
K14SA4A	17.6	0.15	K194R	42.736	88.913	1.333	21.381	0.34607	2.37169	4	X
K14SK7M	18.0	0.15	K194R	66.345	304.522	145.843	4.821	0.19054	2.33072	5	X
K14S00T	17.9	0.15	K194R	104.021	269.459	136.015	6.225	0.18825	2.22868	4	X
K14ST9T	17.7	0.15	K194R	67.700	82.044	351.671	5.021	0.26513	2.34488	4	X
K14T22F	18.9	0.15	K194R	57.589	335.146	108.361	1.286	0.26546	2.35682	4	X
K14T36Q	17.5	0.15	K194R	68.099	281.075	152.351	4.258	0.22419	2.34931	6	X
K14T53P	17.8	0.15	K194R	86.609	233.330	184.538	3.894	0.16334	2.33197	9	X
K14T69O	18.2	0.15	K194R	166.217	285.236	69.393	3.800	0.15805	2.21932	6	W
K14U04F	18.1	0.15	K194R	44.678	7.101	112.192	4.976	0.17746	2.32595	6	X
K14U32S	18.1	0.15	K194R	69.066	5.104	93.117	6.536	0.04435	2.26876	4	X
K14U41N	18.4	0.15	K194R	68.751	71.886	7.491	2.373	0.18876	2.35424	6	X
K14U49S	18.2	0.15	K194R	39.323	121.699	3.071	2.641	0.16332	2.34050	6	X
K14UB8E	18.5	0.15	K194R	81.797	30.018	41.061	1.557	0.19718	2.32927	3	X
K14UD3O	18.1	0.15	K194R	61.949	335.877	130.885	3.380	0.07962	2.24394	10	X
K14UH1X	17.8	0.15	K194R	271.226	144.638	116.657	7.396	0.09720	2.20341	9	X
K14UJ9Q	17.9	0.15	K194R	100.389	19.784	16.518	5.632	0.23094	2.33390	7	X
K14UN3B	18.3	0.15	K194R	100.255	9.305	54.578	7.229	0.08053	2.31531	5	W
K14U01B	18.5	0.15	K194R	104.497	51.179	6.348	7.525	0.09495	2.25413	7	X
K14W00L	18.1	0.15	K194R	83.143	341.792	83.089	3.255	0.19615	2.33290	4	X

K14W30U	17.8	0.15	K194R	89.891	195.334	213.183	4.635	0.15505	2.34342	9	X
K14W49O	18.0	0.15	K194R	92.043	337.959	89.382	5.850	0.16063	2.30357	5	X
K14W74G	18.0	0.15	K194R	51.660	226.255	227.633	4.342	0.17139	2.36485	4	X
K14WC7N	18.0	0.15	K194R	106.966	349.841	51.185	2.417	0.17347	2.32795	9	X
K14WG7C	17.9	0.15	K194R	98.447	11.415	56.793	6.687	0.13460	2.24694	4	X
K14WJ5N	18.2	0.15	K194R	28.649	152.063	341.352	6.291	0.16604	2.33930	3	X
K14WN1W	17.9	0.15	K194R	63.044	66.526	31.492	6.193	0.19634	2.32658	6	X
K14WP3Y	18.0	0.15	K194R	354.808	35.927	133.623	6.841	0.04309	2.28772	5	X
K14WQ4C	18.0	0.15	K194R	110.478	294.754	109.758	7.178	0.12897	2.29947	5	X
K14WY6W	18.2	0.15	K194R	74.295	66.577	353.308	7.454	0.19858	2.37189	7	X
K14Wa3V	19.1	0.15	K194R	312.043	210.019	77.971	5.528	0.51599	1.84552	5	W
K14Wh3X	17.7	0.15	K194R	91.629	97.600	312.235	9.861	0.21266	2.33369	4	X
K14Wk5P	18.5	0.15	K194R	74.673	220.274	218.462	0.634	0.14928	2.33553	3	X
K14Wp8R	17.7	0.15	K194R	61.666	329.384	131.174	5.895	0.08968	2.46509	5	X
K14Wq9T	18.1	0.15	K194R	178.972	257.677	95.863	7.538	0.05404	2.25026	5	X
K14X08J	17.7	0.15	K194R	7.862	146.908	32.322	6.567	0.36958	2.33995	6	X
K14X27S	18.4	0.15	K194R	94.815	92.121	318.637	1.540	0.19268	2.34359	6	X
K14X41Y	17.5	0.15	K194R	2.536	171.427	1.660	11.724	0.06688	2.38802	7	X
K14Y05X	17.6	0.15	K194R	53.109	94.636	5.184	2.691	0.16009	2.46695	3	X
K14Y35A	16.0	0.15	K194R	345.212	177.228	7.087	34.187	0.17704	2.61531	6	X
K14Y54M	17.8	0.15	K194R	351.942	124.401	53.898	3.586	0.11381	2.42471	6	X
K14Y54Q	17.2	0.15	K194R	308.806	220.083	13.538	9.577	0.06725	2.39737	6	X
K14Y55G	18.2	0.15	K194R	346.055	156.729	40.158	2.158	0.11185	2.41650	5	X
K14Y59W	18.4	0.15	K194R	70.755	17.396	67.836	5.235	0.14478	2.43875	4	X
K14Y60D	17.5	0.15	K194R	346.306	105.542	88.882	6.792	0.04969	2.40299	7	X
K14Y60X	18.3	0.15	K194R	346.407	202.302	353.580	2.754	0.14140	2.41919	4	X
K15A41H	18.2	0.15	K194R	83.929	314.077	114.959	5.940	0.21578	2.40242	5	W
K15A85S	18.5	0.15	K194R	36.104	59.292	65.145	2.441	0.13196	2.44666	6	X
K15AF8M	17.6	0.15	K194R	83.960	140.168	287.797	2.811	0.11930	2.45610	7	X
K15AG9O	17.9	0.15	K194R	352.414	80.897	116.996	9.012	0.16079	2.41701	6	X
K15AI9G	16.6	0.15	K194R	172.721	233.431	111.138	7.747	0.10739	2.42224	11	X
K15AO1H	17.3	0.15	K194R	74.575	288.691	119.320	7.888	0.33699	2.53885	6	X
K15AP7H	17.7	0.15	K194R	13.948	169.141	340.024	4.581	0.11981	2.46033	3	X
K15AQ2V	17.1	0.15	K194R	93.146	270.802	133.621	10.401	0.13898	2.56568	10	X
K15AR9U	17.5	0.15	K194R	316.679	256.115	322.806	11.820	0.13442	2.53596	4	X
K15AS3V	17.6	0.15	K194R	298.850	223.259	28.890	6.903	0.10283	2.37928	5	W
K15AS3W	17.0	0.15	K194R	189.273	282.028	64.143	9.229	0.13532	2.41095	9	X
K15AS5T	18.2	0.15	K194R	2.797	73.053	98.351	2.438	0.13065	2.44994	5	X
K15B02A	18.3	0.15	K194R	346.631	178.452	13.425	3.473	0.13507	2.41878	3	X
K15B10Z	17.4	0.15	K194R	111.087	44.714	344.511	5.623	0.13057	2.45083	8	X
K15B11J	17.6	0.15	K194R	7.677	99.564	73.889	5.985	0.16084	2.40346	4	X
K15B16B	17.5	0.15	K194R	95.250	296.123	123.545	2.687	0.10852	2.45726	9	X
K15B27C	18.0	0.15	K194R	337.973	44.000	148.761	6.830	0.13224	2.55492	6	X
K15B27D	18.3	0.15	K194R	34.170	168.019	313.452	2.219	0.15172	2.54489	4	X
K15B56A	17.5	0.15	K194R	189.290	311.428	29.729	7.197	0.15419	2.34886	9	W
K15B56H	18.1	0.15	K194R	53.687	110.075	8.402	6.870	0.06089	2.39385	4	W
K15B60C	17.9	0.15	K194R	124.219	272.564	119.872	6.365	0.09646	2.46380	4	X
K15B60E	17.8	0.15	K194R	15.138	40.249	118.555	6.958	0.08650	2.45387	4	X
K15B65B	18.1	0.15	K194R	69.493	346.898	102.546	8.695	0.10649	2.47573	6	W
K15B65Z	18.4	0.15	K194R	22.372	76.615	67.907	1.932	0.11402	2.48142	5	X
K15B75H	18.3	0.15	K194R	14.016	136.329	14.071	4.392	0.09208	2.48309	3	X
K15B86Y	17.0	0.15	K194R	203.002	178.202	131.622	10.718	0.11857	2.55930	3	X
K15B89J	17.1	0.15	K194R	47.866	122.614	350.698	6.329	0.09062	2.44416	8	X
K15B90R	17.8	0.15	K194R	30.653	342.581	146.363	15.740	0.18222	2.54145	4	X
K15B90X	17.0	0.15	K194R	246.543	143.239	149.150	11.684	0.12707	2.53314	4	X
K15B91L	17.8	0.15	K194R	39.413	339.864	143.294	10.191	0.05954	2.53865	5	X
K15B92U	16.9	0.15	K194R	357.562	115.723	88.583	30.346	0.36045	2.62376	3	X
K15B99J	18.0	0.15	K194R	320.549	23.577	200.311	0.180	0.17669	2.46598	4	X
K15BB9V	17.1	0.15	K194R	94.553	297.131	129.206	14.385	0.05820	2.52224	7	X
K15BD3Q	18.0	0.15	K194R	345.852	174.450	22.553	2.634	0.14416	2.45691	4	X
K15BF6S	17.6	0.15	K194R	106.468	305.003	102.914	6.437	0.10875	2.52706	5	X
K15BH2P	18.2	0.15	K194R	350.230	93.771	98.335	2.509	0.11966	2.44811	3	W
K15BH7M	17.8	0.15	K194R	180.977	305.488	45.904	4.041	0.14441	2.40137	4	W
K15BI1P	17.7	0.15	K194R	335.743	184.012	36.779	5.391	0.18215	2.42836	4	X
K15BK6R	17.6	0.15	K194R	91.672	302.248	134.513	2.204	0.06667	2.31235	9	X
K15BL0N	17.8	0.15	K194R	52.132	28.434	78.329	5.378	0.18682	2.42280	8	X
K15BM1J	17.8	0.15	K194R	313.818	198.308	25.419	3.188	0.13139	2.40997	4	X
K15BN5B	17.8	0.15	K194R	242.684	270.277	31.927	5.714	0.16927	2.30250	10	X
K15BP4Z	17.3	0.15	K194R	65.108	142.724	301.417	13.617	0.04857	2.53063	5	X
K15BR6J	16.4	0.15	K194R	209.364	197.431	132.231	4.444	0.14765	2.51535	4	X
K15BR7H	18.3	0.15	K194R	42.930	321.467	130.169	6.002	0.27263	2.58001	4	X
K15BT2V	16.6	0.15	K194R	16.897	13.658	139.354	14.509	0.07550	2.59575	5	X
K15BT7G	17.6	0.15	K194R	57.134	321.976	152.192	15.509	0.06888	2.52887	6	X
K15BT7R	17.8	0.15	K194R	347.516	41.046	140.677	14.138	0.17793	2.60452	3	X
K15BT7V	16.9	0.15	K194R	59.105	306.253	154.646	22.079	0.08204	2.58732	6	X
K15BT9S	17.7	0.15	K194R	10.662	72.405	88.960	3.116	0.11932	2.57682	7	X
K15BT9T	17.7	0.15	K194R	330.403	94.614	125.693	5.060	0.16442	2.56183	6	X
K15BU0R	17.1	0.15	K194R	70.388	330.415	126.838	11.289	0.07516	2.57710	6	X
K15BU1H	17.5	0.15	K194R	29.665	48.406	83.002	3.825	0.14098	2.60496	5	X
K15BU1Z	16.5	0.15	K194R	139.942	247.766	143.510	22.385	0.02538	2.60540	4	X
K15BU4Q	17.5	0.15	K194R	293.723	90.543	140.108	11.710	0.12265	2.66671	4	X
K15BU5B	16.5	0.15	K194R	344.185	40.717	149.988	13.398	0.11365	2.60705	9	X
K15BY5H	17.9	0.15	K194R	59.917	0.006	98.633	8.566	0.17123	2.40907	5	X
K15BZ5U	17.3	0.15	K194R	297.694	117.726	121.088	8.030	0.16028	2.53949	9	X
K15Bg5S	18.4	0.15	K194R	52.485	318.041	140.699	18.291	0.21446	2.51003	5	X
K15Bh0W	16.6	0.15	K194R	237.362	173.122	120.431	10.516	0.17197	2.54866	4	X
K15Bh3Q	16.9	0.15	K194R	232.008	168.187	133.597	15.693	0.13938	2.52667	4	X
K15Bj0R	16.9	0.15	K194R	179.279	291.126	42.677	1.748	0.12469	2.60183	11	X
K15Bj2L	18.7	0.15	K194R	20.720	359.343	137.285	5.703	0.21836	2.52740	3	X
K15Bj9M	17.5	0.15	K194R	353.190	40.041	121.862	2.215	0.06443	2.57513	10	X
K15Bk2L	17.5	0.15	K194R	137.568	11.506	4.013	5.769	0.08330	2.56898	4	X

K15Br1A	17.3	0.15	K194R	115.557	279.626	128.920	15.074	0.11175	2.59487	3	X
K15Br2T	18.0	0.15	K194R	4.919	144.529	18.694	5.766	0.11943	2.63383	4	W
K15Br7X	18.0	0.15	K194R	7.075	129.816	44.690	7.769	0.14461	2.54135	4	X
K15Br8L	16.6	0.15	K194R	163.251	359.481	354.564	6.177	0.05131	2.71809	10	X
K15Br8O	18.1	0.15	K194R	57.217	62.442	34.829	4.988	0.17002	2.52538	5	X
K15Br8Q	16.9	0.15	K194R	256.231	157.784	122.769	5.512	0.15084	2.80290	6	X
K15Br9T	17.6	0.15	K194R	335.498	53.550	148.657	15.128	0.04939	2.58166	6	X
K15Bs2B	16.9	0.15	K194R	126.798	266.765	133.542	12.431	0.05960	2.58195	8	X
K15Bs4S	17.0	0.15	K194R	270.690	210.710	69.423	7.244	0.10012	2.66387	5	W
K15Bs6W	17.3	0.15	K194R	39.702	160.131	313.155	8.090	0.08631	2.58733	4	X
K15Bs7M	17.0	0.15	K194R	294.948	165.494	86.787	6.111	0.16564	2.53842	6	X
K15Bt0F	17.2	0.15	K194R	313.154	149.014	82.804	5.971	0.17306	2.53965	4	X
K15Bt1C	17.2	0.15	K194R	292.939	99.493	137.566	5.151	0.04160	2.61040	10	X
K15Bt1N	16.9	0.15	K194R	96.325	53.858	7.553	11.592	0.11366	2.65229	7	X
K15Bt1V	16.8	0.15	K194R	196.517	217.180	126.001	14.807	0.18133	2.62022	9	X
K15Bt1W	17.8	0.15	K194R	346.938	195.511	1.449	14.483	0.07564	2.52491	6	W
K15Bt7A	19.2	0.15	K194R	37.208	8.836	110.917	6.611	0.24325	2.49393	3	X
K15Bu5M	17.5	0.15	K194R	328.470	192.891	27.048	6.943	0.10009	2.46914	7	X
K15Bu5O	16.5	0.15	K194R	78.491	106.521	337.574	21.633	0.05942	2.67233	5	X
K15C04J	17.6	0.15	K194R	316.027	187.196	45.893	1.977	0.17247	2.47520	3	X
K15C11J	18.2	0.15	K194R	346.042	219.312	328.977	2.330	0.16369	2.56625	3	X
K15C14G	18.0	0.15	K194R	56.261	324.306	138.710	4.119	0.17065	2.47053	6	X
K15C23J	17.2	0.15	K194R	127.687	54.359	341.296	16.208	0.09403	2.54529	5	X
K15C23K	17.2	0.15	K194R	358.275	1.842	157.106	8.283	0.12274	2.60941	6	X
K15C23W	17.8	0.15	K194R	357.882	193.835	328.211	7.441	0.16249	2.59658	4	X
K15C24H	18.1	0.15	K194R	37.311	353.810	134.607	6.030	0.17063	2.53007	4	X
K15C25K	16.1	0.15	K194R	133.141	39.801	339.121	12.178	0.19567	2.58591	10	X
K15C25M	17.3	0.15	K194R	15.704	163.280	332.585	7.596	0.09122	2.62626	5	X
K15C32M	18.2	0.15	K194R	35.896	145.652	322.844	4.679	0.27102	2.57250	3	X
K15C37U	17.5	0.15	K194R	56.842	108.264	353.452	6.684	0.10541	2.45990	5	X
K15C48X	17.0	0.15	K194R	85.410	80.458	356.287	14.845	0.11541	2.53832	6	X
K15C49D	16.5	0.15	K194R	94.152	261.676	152.957	13.740	0.07085	2.63970	10	X
K15C50E	18.4	0.15	K194R	341.313	52.212	153.768	13.754	0.19288	2.53235	3	X
K15C52Y	17.9	0.15	K194R	13.339	2.821	144.477	6.995	0.24165	2.60953	4	X
K15C53P	17.3	0.15	K194R	44.565	311.093	155.251	8.263	0.17790	2.62219	6	X
K15C54Q	17.4	0.15	K194R	1.249	181.799	351.619	9.564	0.13264	2.57963	7	X
K15C58E	15.8	0.15	K194R	107.749	291.282	122.395	15.346	0.08317	2.70292	4	X
K15C67J	17.5	0.15	K194R	61.265	313.228	131.623	8.288	0.15597	2.55143	6	X
K15C68Y	17.7	0.15	K194R	356.991	130.840	62.263	3.086	0.12718	2.47203	7	W
K15D00A	16.7	0.15	K194R	1.577	59.338	115.454	31.423	0.27213	2.62643	4	X
K15D16L	18.0	0.15	K194R	5.598	22.161	143.110	5.522	0.06266	2.45380	7	X
K15D22C	17.5	0.15	K194R	57.917	332.388	122.899	6.609	0.17996	2.53295	7	X
K15D26K	17.6	0.15	K194R	20.697	34.135	105.592	5.808	0.07020	2.57287	7	X
K15D32U	17.7	0.15	K194R	18.948	13.137	120.698	5.567	0.21266	2.58340	4	X
K15D35X	17.2	0.15	K194R	11.510	30.516	130.717	6.937	0.05498	2.53994	4	X
K15D40B	17.8	0.15	K194R	30.351	74.076	68.610	7.287	0.08863	2.52162	4	X
K15D42N	17.3	0.15	K194R	252.938	161.536	128.201	15.179	0.14135	2.57317	7	X
K15D58K	17.9	0.15	K194R	337.902	215.002	335.431	7.539	0.13642	2.54841	5	X
K15D67J	17.4	0.15	K194R	243.149	226.856	65.649	3.086	0.13592	2.52743	8	W
K15D68B	17.3	0.15	K194R	269.084	193.870	74.499	3.098	0.12789	2.53683	11	X
K15D82X	17.4	0.15	K194R	45.735	34.460	75.063	2.542	0.10039	2.56237	4	X
K15D93G	17.7	0.15	K194R	116.839	39.750	5.929	2.339	0.04462	2.53963	4	X
K15D95B	17.5	0.15	K194R	332.743	310.845	254.127	2.428	0.13440	2.55493	4	X
K15D97A	17.4	0.15	K194R	71.276	278.472	152.686	13.386	0.15005	2.63315	5	X
K15D97G	18.0	0.15	K194R	45.735	357.086	98.573	3.432	0.17918	2.62766	4	X
K15D99O	17.9	0.15	K194R	7.635	15.818	141.492	6.118	0.15572	2.61312	4	X
K15DB8X	17.3	0.15	K194R	68.165	78.550	18.635	9.943	0.05469	2.57231	4	X
K15DB9S	17.1	0.15	K194R	69.295	308.555	129.665	8.902	0.11166	2.63849	4	X
K15DC8N	16.9	0.15	K194R	302.347	109.138	134.855	14.793	0.05628	2.53518	4	X
K15DC8P	17.5	0.15	K194R	338.316	50.330	134.518	15.879	0.13694	2.63699	4	X
K15DD5F	16.9	0.15	K194R	56.886	339.398	120.375	14.980	0.20801	2.61079	4	X
K15DF3S	17.0	0.15	K194R	9.073	12.039	146.913	12.107	0.18934	2.58193	7	X
K15DG3U	17.4	0.15	K194R	302.362	105.612	146.982	11.854	0.24597	2.59849	4	X
K15DJ6B	17.1	0.15	K194R	331.889	198.770	15.498	13.209	0.12899	2.42111	6	X
K15DJ7N	17.2	0.15	K194R	25.956	177.155	314.048	13.054	0.12372	2.62029	3	X
K15DK3C	16.6	0.15	K194R	205.802	359.050	316.202	14.656	0.05503	2.64250	4	X
K15DK8P	17.6	0.15	K194R	43.052	19.733	104.222	5.911	0.17122	2.64299	4	X
K15DL1W	17.5	0.15	K194R	349.354	135.602	68.555	6.554	0.27159	2.61292	3	X
K15DL6K	17.3	0.15	K194R	57.275	123.765	338.518	13.015	0.04997	2.60806	5	X
K15DN0Q	16.8	0.15	K194R	208.512	343.546	342.304	9.579	0.17054	2.54561	4	X
K15DN0S	17.9	0.15	K194R	352.884	193.205	343.824	11.690	0.00715	2.53895	6	X
K15DN1A	18.3	0.15	K194R	15.635	354.027	157.967	13.135	0.09458	2.55869	4	W
K15DN1W	15.7	0.15	K194R	161.004	219.639	124.239	13.880	0.27462	3.00817	6	X
K15DN4M	17.7	0.15	K194R	308.843	107.215	120.679	3.692	0.08500	2.57167	8	X
K15DN4P	18.1	0.15	K194R	30.809	218.689	268.609	1.476	0.11333	2.60943	6	X
K15DN4T	17.1	0.15	K194R	252.802	290.998	3.512	4.350	0.14331	2.62639	9	W
K15DN5W	17.7	0.15	K194R	291.755	214.824	33.104	8.964	0.06602	2.53999	5	X
K15DN6W	17.9	0.15	K194R	24.087	325.658	172.952	4.100	0.15681	2.57213	4	X
K15DN7H	17.0	0.15	K194R	164.657	203.912	154.230	15.182	0.19244	2.58293	8	X
K15DN9S	17.3	0.15	K194R	311.804	128.591	114.367	12.461	0.13889	2.63710	4	X
K15DO2F	17.6	0.15	K194R	316.351	203.172	13.044	10.390	0.04320	2.60625	4	X
K15DO6O	17.5	0.15	K194R	320.738	252.406	325.589	12.077	0.12155	2.57871	5	X
K15DO6T	17.4	0.15	K194R	332.252	249.063	312.890	5.733	0.17545	2.62897	4	X
K15DP0M	17.4	0.15	K194R	50.673	18.276	94.666	8.583	0.09105	2.55711	6	W
K15E08T	17.6	0.15	K194R	306.734	206.988	26.318	3.715	0.19481	2.61723	3	X
K15E29A	17.3	0.15	K194R	292.094	262.660	341.850	11.694	0.14570	2.58649	6	X
K15E30G	16.9	0.15	K194R	130.045	234.294	153.531	15.396	0.13898	2.53715	12	X
K15E32J	17.2	0.15	K194R	103.325	354.719	58.899	4.612	0.17253	2.51704	8	X
K15E49Z	17.4	0.15	K194R	59.121	133.512	309.447	6.460	0.17960	2.59864	3	X
K15E64Y	16.6	0.15	K194R	334.569	154.101	54.406	6.182	0.18325	2.62834	10	X
K15F21T	17.7	0.15	K194R	353.067	85.765	109.004	12.426	0.14537	2.56277	6	X

K15F73P	16.8	0.15	K194R	353.258	147.409	28.355	9.698	0.02681	2.73167	9	W
K15F75M	16.6	0.15	K194R	25.209	111.512	37.630	8.570	0.12117	2.66412	11	X
K15F78S	16.4	0.15	K194R	229.676	214.178	84.369	5.514	0.04379	2.79054	12	X
K15F95A	17.2	0.15	K194R	80.591	92.824	343.683	21.649	0.08812	2.65715	5	W
K15F95P	17.1	0.15	K194R	36.044	145.189	352.564	29.253	0.10336	2.57740	4	X
K15FA1F	17.8	0.15	K194R	23.581	190.877	296.126	6.663	0.12953	2.68214	3	X
K15FA8B	17.5	0.15	K194R	10.298	166.163	350.320	12.971	0.18222	2.62248	5	X
K15FE2X	17.2	0.15	K194R	259.827	268.825	1.338	1.807	0.01621	2.67986	10	X
K15FE3Z	17.6	0.15	K194R	336.892	196.210	22.024	6.319	0.26500	2.59226	5	W
K15FE4H	17.3	0.15	K194R	280.370	211.749	35.083	5.291	0.06478	2.71480	3	X
K15FF0K	17.3	0.15	K194R	275.485	118.710	141.367	6.151	0.10356	2.70291	7	X
K15FG5U	17.2	0.15	K194R	258.669	211.251	72.664	3.582	0.07173	2.68503	5	W
K15FH4G	17.3	0.15	K194R	332.825	153.983	56.355	12.764	0.06457	2.64371	4	X
K15FL2X	16.9	0.15	K194R	249.426	196.037	99.521	9.329	0.10244	2.68631	6	X
K15FL4S	18.5	0.15	K194R	21.887	121.078	28.796	7.685	0.20475	2.55268	3	X
K15FL8U	17.8	0.15	K194R	0.824	158.027	16.971	9.138	0.09720	2.57468	5	X
K15FQ9V	17.6	0.15	K194R	300.500	110.571	143.111	6.593	0.17508	2.55683	5	X
K15FS0A	17.4	0.15	K194R	46.591	302.311	155.694	13.481	0.23831	2.59253	5	X
K15FS7B	16.8	0.15	K194R	333.368	64.392	149.568	13.933	0.22098	2.68298	5	X
K15FT9H	17.5	0.15	K194R	11.233	15.449	133.081	10.153	0.19959	2.74825	5	X
K15FU3P	16.2	0.15	K194R	342.039	54.357	144.247	14.859	0.02717	2.77732	10	X
K15FV8U	17.2	0.15	K194R	252.223	184.281	103.956	7.669	0.08816	2.67756	7	W
K15FW4E	16.8	0.15	K194R	64.364	308.204	142.970	13.865	0.22269	2.62918	7	X
K15FX6H	17.0	0.15	K194R	299.660	142.965	109.764	10.358	0.15564	2.75414	6	W
K15FX6M	16.0	0.15	K194R	227.911	137.246	153.403	9.494	0.05680	2.99160	12	X
K15FY2T	16.5	0.15	K194R	268.110	118.666	141.616	9.970	0.10859	2.75379	9	X
K15Fz7V	17.4	0.15	K194R	50.520	123.386	318.159	8.902	0.23194	2.71018	4	X
K15Fe3J	17.5	0.15	K194R	280.166	248.374	10.898	10.001	0.11389	2.66696	6	X
K15Fe3Y	16.6	0.15	K194R	143.702	304.044	74.130	8.777	0.08350	2.81222	6	X
K15Fe4K	17.0	0.15	K194R	190.077	193.051	147.332	13.642	0.07246	2.86215	6	W
K15Fe4L	16.9	0.15	K194R	335.588	48.549	143.397	12.042	0.04567	2.89971	6	X
K15Fe4P	17.2	0.15	K194R	111.750	293.963	115.359	3.973	0.07634	2.70764	7	X
K15Fe5C	17.2	0.15	K194R	6.286	48.153	125.334	13.966	0.18739	2.65495	5	X
K15Fe5L	17.9	0.15	K194R	55.865	305.124	153.407	2.444	0.17153	2.66380	7	X
K15Fe5N	16.6	0.15	K194R	129.588	264.657	132.124	13.049	0.12091	2.68898	10	X
K15Fe9P	16.9	0.15	K194R	44.359	17.545	110.941	13.063	0.10531	2.63522	5	X
K15Ff0C	17.3	0.15	K194R	312.412	226.873	7.084	7.294	0.15807	2.75501	5	X
K15Ff0D	16.7	0.15	K194R	266.073	263.948	359.311	10.943	0.07983	2.89929	5	X
K15Ff0U	17.8	0.15	K194R	339.210	127.544	82.627	5.582	0.16457	2.63158	6	X
K15Ff1K	17.2	0.15	K194R	276.468	121.905	131.002	15.855	0.11972	2.84002	4	X
K15Ff2K	17.0	0.15	K194R	279.650	105.831	147.891	15.439	0.12028	2.86761	4	X
K15G04H	17.3	0.15	K194R	333.760	204.956	8.243	13.544	0.11902	2.61052	6	X
K15G17O	17.7	0.15	K194R	322.684	189.674	26.305	2.533	0.13554	2.63584	6	X
K15G23C	17.6	0.15	K194R	21.908	350.974	141.077	14.713	0.19342	2.73759	3	X
K15G24J	17.9	0.15	K194R	17.539	354.931	149.749	13.331	0.22128	2.64954	3	X
K15G25M	16.2	0.15	K194R	191.465	204.945	142.655	13.750	0.04450	2.70633	12	X
K15G25P	16.6	0.15	K194R	260.730	196.640	98.946	13.759	0.15677	2.68972	4	X
K15G25T	17.1	0.15	K194R	334.982	58.118	153.517	13.938	0.15228	2.66717	4	X
K15G28D	17.2	0.15	K194R	339.313	181.989	15.041	13.015	0.09845	2.65196	4	X
K15G33W	16.5	0.15	K194R	344.623	75.908	125.655	13.544	0.11145	2.64687	9	X
K15G34O	17.3	0.15	K194R	321.435	191.130	12.638	4.835	0.08891	2.67109	7	X
K15G36P	17.3	0.15	K194R	317.019	139.521	107.637	10.184	0.22708	2.65665	3	X
K15G36U	17.6	0.15	K194R	313.407	109.203	126.597	5.671	0.16609	2.63910	6	X
K15G37X	17.9	0.15	K194R	26.552	10.366	131.966	5.632	0.14543	2.61586	5	X
K15G45X	17.0	0.15	K194R	117.143	310.403	99.266	6.681	0.06762	2.70193	4	X
K15G48O	17.4	0.15	K194R	18.642	80.953	62.495	13.719	0.22636	2.63195	3	X
K15G52G	17.2	0.15	K194R	46.622	348.364	139.289	11.883	0.07369	2.70317	4	X
K15G53E	17.1	0.15	K194R	4.034	29.059	150.286	14.107	0.18410	2.66622	5	X
K15H13T	17.3	0.15	K194R	318.598	84.518	129.647	4.796	0.11886	2.72375	5	X
K15H60K	17.2	0.15	K194R	328.726	70.787	148.947	12.715	0.18284	2.74800	3	X
K15H62U	17.3	0.15	K194R	10.484	89.831	81.526	4.248	0.19602	2.62312	9	X
K15H69S	17.6	0.15	K194R	9.109	127.257	43.934	5.443	0.17099	2.63156	4	X
K15H74B	16.8	0.15	K194R	166.352	189.253	163.995	2.320	0.08219	2.86416	12	X
K15H78J	17.5	0.15	K194R	323.591	208.346	358.167	2.995	0.12612	2.74737	7	X
K15H79W	17.1	0.15	K194R	226.194	303.017	353.170	1.550	0.06634	2.85868	8	X
K15H86M	17.3	0.15	K194R	319.729	78.845	131.640	4.261	0.03044	2.76193	8	X
K15H89B	16.9	0.15	K194R	243.762	213.250	76.040	5.280	0.07632	2.81048	5	X
K15H95O	17.3	0.15	K194R	354.725	53.172	115.288	4.084	0.13185	2.75539	7	X
K15HA6U	17.0	0.15	K194R	19.603	69.320	77.515	16.159	0.18618	2.65064	5	X
K15HG1E	16.4	0.15	K194R	103.296	38.221	28.007	13.571	0.09282	2.73126	4	X
K15HG8U	16.7	0.15	K194R	342.687	102.395	90.062	3.592	0.12704	2.72377	8	X
K15HH8Y	16.5	0.15	K194R	235.340	188.393	120.833	6.154	0.14759	2.80480	4	W
K15HI0F	16.2	0.15	K194R	267.020	135.637	144.313	14.645	0.10617	2.80315	9	X
K15HI6G	16.2	0.15	K194R	196.615	233.965	96.307	9.859	0.14734	3.06610	7	X
K15HI6O	17.1	0.15	K194R	295.128	239.864	3.276	13.682	0.03928	2.74899	8	W
K15HI7E	16.2	0.15	K194R	151.001	233.359	135.038	16.933	0.09658	3.16188	8	W
K15HI7Z	16.9	0.15	K194R	272.429	155.419	103.751	4.977	0.08227	2.79314	9	X
K15HJ1V	17.2	0.15	K194R	359.035	87.416	84.493	6.548	0.06409	2.81417	6	W
K15K25C	16.8	0.15	K194R	311.554	162.056	89.986	8.680	0.19692	2.67024	7	X
K15K72T	16.4	0.15	K194R	113.693	271.714	119.684	10.315	0.08200	3.03694	3	X
K15KA5P	16.0	0.15	K194R	256.871	187.430	97.902	11.796	0.11221	2.88470	5	X
K15KB2H	16.5	0.15	K194R	142.155	258.242	125.374	12.762	0.04597	2.99349	5	W
K15KC2U	17.4	0.15	K194R	315.133	185.235	43.074	4.952	0.14037	2.77945	3	X
K15KD2Z	17.6	0.15	K194R	329.174	117.508	119.983	14.500	0.28442	2.64903	3	X
K15KG8X	16.6	0.15	K194R	153.099	247.518	127.741	12.840	0.07882	2.94248	6	W
K15L00B	16.9	0.15	K194R	320.657	74.055	194.416	28.950	0.32392	2.60045	2	X
K15L02U	17.1	0.15	K194R	299.478	112.629	127.547	10.032	0.09029	2.71089	6	X
K15L45O	16.4	0.15	K194R	186.140	224.814	130.236	9.081	0.02651	2.92635	7	X
K15L45Z	16.7	0.15	K194R	317.986	85.820	129.534	9.353	0.10326	3.12208	3	X
K15M66D	15.9	0.15	K194R	285.450	128.828	131.091	11.311	0.06442	3.09034	10	W
K15M72E	16.5	0.15	K194R	319.127	65.002	139.351	16.102	0.15391	3.14738	6	X

K15M93P	16.3	0.15	K194R	218.408	151.898	160.973	4.538	0.15094	3.06687	5 X
K15MB0C	15.9	0.15	K194R	248.835	194.021	103.568	5.278	0.11003	3.12346	8 X
K15MD4Q	16.2	0.15	K194R	224.574	213.843	97.190	10.256	0.08866	3.21250	6 X
K15O16P	15.9	0.15	K194R	277.019	155.564	115.591	12.681	0.17315	3.11644	4 X
K15O44H	16.3	0.15	K194R	256.978	236.592	40.726	5.942	0.11115	3.18251	7 X
K15O46T	16.0	0.15	K194R	251.562	186.795	103.895	11.198	0.09292	3.14186	10 X
K15O74Q	16.1	0.15	K194R	293.632	287.123	331.228	15.405	0.26613	3.09579	7 X
K15O97D	16.6	0.15	K194R	309.795	255.736	332.398	10.334	0.12723	3.08586	7 X
K15P81V	16.6	0.15	K194R	289.941	292.824	311.682	3.878	0.14632	3.15751	5 X
K15R14F	15.8	0.15	K194R	321.389	241.694	330.635	17.867	0.20455	3.19180	6 X
K15RP0W	18.2	0.15	K194R	286.697	200.943	153.415	4.400	0.16934	2.82298	2 X
K15T00W	19.2	0.15	K194R	257.385	157.147	138.123	15.522	0.10435	1.76032	4 W
K15TZ1Q	17.9	0.15	K194R	47.021	101.855	18.274	20.588	0.06235	1.92738	5 X
K15V02M	18.9	0.15	K194R	93.153	87.008	2.625	20.979	0.02989	1.84158	5 X
K15VC5V	18.0	0.15	K194R	59.964	47.856	61.825	23.012	0.12298	1.88632	5 X
K15W02R	17.9	0.15	K194R	132.719	295.458	98.525	23.106	0.09286	1.90970	6 X
K15Xc8W	18.4	0.15	K194R	119.119	263.978	153.957	23.335	0.11659	1.99336	3 X
K15Y00M	17.1	0.15	K194R	334.003	267.189	285.530	18.045	0.06551	1.93789	10 X
K15Y10J	17.4	0.15	K194R	189.401	345.449	7.418	19.998	0.07363	1.95078	8 X
K16AF3Q	18.5	0.15	K194R	286.827	106.643	144.648	24.323	0.02394	2.00515	3 X
K16B82A	18.0	0.15	K194R	142.364	253.520	140.773	25.100	0.14540	1.88524	5 X
K16B89B	18.1	0.15	K194R	84.765	133.956	305.360	5.961	0.01940	2.19155	7 X
K16CQ0F	18.1	0.15	K194R	347.356	200.991	345.629	5.443	0.15390	2.22575	5 X
K16CV4D	18.4	0.15	K194R	14.429	41.733	111.824	2.758	0.06474	2.23964	6 X
K16E84O	22.3	0.15	K194R	159.925	29.801	350.164	12.082	0.54783	0.83240	2 W
K16EH0P	17.8	0.15	K194R	256.023	135.584	154.064	5.096	0.14142	2.18950	7 W
K16EH8J	17.8	0.15	K194R	134.954	36.520	349.899	8.399	0.09839	2.20841	7 X
K16EL6A	18.0	0.15	K194R	330.933	44.271	149.550	2.636	0.04677	2.35624	9 W
K16F38J	18.0	0.15	K194R	259.871	163.514	113.561	2.959	0.17670	2.29747	7 X
K16F41X	17.8	0.15	K194R	260.492	204.010	83.209	3.748	0.17120	2.21995	4 X
K16F46D	18.3	0.15	K194R	239.190	275.873	27.842	7.788	0.16543	2.24129	5 W
K16F65X	19.0	0.15	K194R	1.353	147.286	26.986	6.398	0.02259	2.13158	6 W
K16G96C	18.8	0.15	K194R	340.859	34.165	155.939	5.089	0.08806	2.22637	4 X
K16GC3Z	17.6	0.15	K194R	301.340	106.970	142.979	11.613	0.16387	2.26224	9 X
K16GH9M	17.6	0.15	K194R	184.153	213.362	135.063	7.858	0.14550	2.30614	7 X
K16GQ0E	16.8	0.15	K194R	144.252	257.351	117.105	13.017	0.17430	2.57032	7 X
K16H06K	17.7	0.15	K194R	293.925	163.376	90.549	5.579	0.18525	2.22970	10 X
K16H18F	18.4	0.15	K194R	311.314	201.730	34.115	6.065	0.13169	2.21658	5 X
K16J13D	18.1	0.15	K194R	327.244	140.290	87.188	5.573	0.14973	2.20914	7 X
K16J22X	18.0	0.15	K194R	287.415	187.277	67.755	4.169	0.11299	2.29544	8 X
K16J26O	17.4	0.15	K194R	238.407	194.453	103.134	3.641	0.19169	2.39368	9 X
K16J30U	17.3	0.15	K194R	279.003	174.047	106.254	6.242	0.17696	2.24768	10 X
K16J31S	18.2	0.15	K194R	283.040	219.213	50.444	3.638	0.21491	2.29367	9 X
K16J32M	16.8	0.15	K194R	247.337	201.789	91.096	7.699	0.11214	2.38102	12 X
K16L00T	21.7	0.15	K194R	182.316	251.304	80.552	8.925	0.36169	1.48169	2 X
K16L59J	18.1	0.15	K194R	321.832	152.937	67.249	3.159	0.10469	2.31277	7 X
K16L59Y	17.5	0.15	K194R	150.446	211.270	159.728	4.542	0.12837	2.56808	7 W
K16L61S	17.2	0.15	K194R	267.053	124.978	145.838	14.823	0.08840	2.63250	3 X
K16L65R	17.2	0.15	K194R	27.845	80.326	74.098	7.152	0.03402	2.31790	10 X
K16M03Y	16.1	0.15	K194R	229.132	326.758	327.807	9.882	0.09527	3.00241	6 X
K16N09F	17.6	0.15	K194R	321.146	313.996	263.500	1.480	0.15056	2.45724	3 X
K16N09K	17.0	0.15	K194R	158.320	255.401	109.327	5.685	0.08557	2.77521	8 W
K16N11O	15.5	0.15	K194R	112.081	253.274	132.060	11.105	0.08415	3.03847	10 X
K16N17T	17.1	0.15	K194R	322.959	94.346	134.241	11.395	0.07373	2.55117	8 X
K16N21P	16.5	0.15	K194R	222.560	171.309	144.612	33.498	0.15539	2.61448	4 X
K16N40N	16.4	0.15	K194R	180.325	208.823	137.811	11.918	0.14903	2.83658	11 X
K16N42O	17.4	0.15	K194R	244.867	146.562	138.464	5.955	0.08975	2.72247	8 X
K16N47D	15.9	0.15	K194R	165.707	9.474	340.399	9.048	0.09944	3.17267	8 X
K16N66Q	17.1	0.15	K194R	257.233	270.669	17.016	7.088	0.18167	2.53354	9 X
K16N67A	16.0	0.15	K194R	131.777	253.898	123.655	10.699	0.08901	3.10206	8 X
K16N68M	17.2	0.15	K194R	211.815	162.177	156.350	9.359	0.04502	2.77062	5 X
K16N70K	16.3	0.15	K194R	77.021	76.167	8.701	9.143	0.02558	3.10767	6 X
K16N72Q	16.6	0.15	K194R	126.571	76.181	313.898	10.766	0.04350	2.95854	6 X
K16N73R	16.5	0.15	K194R	174.091	258.252	90.754	6.961	0.07840	2.79221	9 X
K16N73S	16.6	0.15	K194R	217.233	10.420	296.508	5.289	0.05253	2.78920	10 X
K16N74R	17.3	0.15	K194R	221.345	166.815	144.893	5.820	0.11997	2.70410	9 X
K16N74U	16.4	0.15	K194R	35.090	170.557	300.191	8.505	0.04421	3.04012	6 X
K16N80N	17.6	0.15	K194R	249.844	160.247	137.936	12.516	0.18096	2.59476	4 W
K16N84M	17.2	0.15	K194R	262.361	260.462	20.233	7.332	0.13237	2.72310	5 X
K16N85H	17.5	0.15	K194R	290.713	142.102	111.286	9.535	0.14266	2.63903	6 W
K16O04Q	17.2	0.15	K194R	265.411	182.357	111.763	11.846	0.24150	2.43355	9 X
K16P03X	17.2	0.15	K194R	280.194	183.117	97.761	6.141	0.14767	2.47498	8 X
K16P07C	18.0	0.15	K194R	307.473	114.463	121.313	7.331	0.13826	2.56665	5 W
K16P77V	15.8	0.15	K194R	241.599	301.815	330.949	11.167	0.08331	3.15831	4 X
K16P91S	16.8	0.15	K194R	172.862	268.079	88.010	9.467	0.11101	3.02354	6 X
K16P91Y	16.4	0.15	K194R	94.025	46.708	17.998	15.862	0.10300	3.09624	6 X
K16P92S	16.8	0.15	K194R	38.630	59.264	67.894	4.787	0.04470	2.80136	8 X
K16P95G	16.3	0.15	K194R	0.685	40.858	120.674	11.159	0.05734	3.12779	5 X
K16P95H	16.6	0.15	K194R	47.905	90.465	21.566	9.179	0.04502	3.18366	4 X
K16P95K	16.5	0.15	K194R	321.252	116.522	108.967	7.321	0.16030	2.91798	8 X
K16P95Y	16.0	0.15	K194R	110.268	296.313	125.348	10.500	0.03173	3.14919	7 X
K16P96J	15.9	0.15	K194R	321.378	210.904	17.331	10.596	0.15120	3.01866	7 X
K16P96Q	16.6	0.15	K194R	204.235	327.074	354.504	7.229	0.03552	3.17519	5 X
K16P99X	18.2	0.15	K194R	304.820	195.507	50.655	2.078	0.14873	2.47127	7 W
K16PA1D	17.3	0.15	K194R	235.099	297.708	0.588	5.482	0.06705	2.70969	10 W
K16PA2H	16.3	0.15	K194R	286.751	116.651	127.899	11.791	0.09004	3.01848	6 X
K16PA8E	17.0	0.15	K194R	235.402	202.149	108.427	12.874	0.17407	2.65415	4 W
K16PA9S	16.5	0.15	K194R	185.480	352.154	352.569	11.734	0.06827	2.91883	4 X
K16PB7N	16.8	0.15	K194R	226.380	328.803	343.235	11.502	0.13440	2.75544	4 W
K16PC5E	16.5	0.15	K194R	148.576	5.810	358.342	8.709	0.08567	3.08997	8 X
K16PC7U	16.4	0.15	K194R	315.088	85.954	130.182	14.863	0.04881	3.00133	5 X

K16Q05L	16.6	0.15	K194R	116.014	77.891	322.251	10.421	0.04405	2.99864	3	X
K16Q38B	16.0	0.15	K194R	158.602	17.521	331.482	8.677	0.09322	3.16597	4	X
K16Q42S	16.2	0.15	K194R	189.894	15.473	311.532	13.510	0.03385	3.06505	4	X
K16Q43N	16.1	0.15	K194R	307.574	245.831	357.279	12.817	0.16858	2.72819	3	X
K16Q47C	16.3	0.15	K194R	242.648	298.020	358.410	14.002	0.11647	2.78891	8	W
K16Q88W	16.8	0.15	K194R	306.053	164.522	83.959	9.176	0.16535	2.77636	7	X
K16Q90U	15.3	0.15	K194R	228.260	273.682	49.115	10.671	0.14166	3.06769	11	X
K16Q93Y	16.5	0.15	K194R	128.895	263.735	141.957	15.313	0.05325	3.11747	5	W
K16Q94T	16.3	0.15	K194R	233.550	335.430	311.076	14.939	0.05684	3.19277	6	X
K16R01Y	16.1	0.15	K194R	172.376	24.993	321.018	11.395	0.10885	3.16653	10	X
K16R35E	16.5	0.15	K194R	165.849	8.962	348.414	13.891	0.09738	3.12210	5	W
K16R50B	16.1	0.15	K194R	219.014	315.868	353.023	8.964	0.07950	3.16838	5	X
K16R50L	16.1	0.15	K194R	269.944	355.162	260.939	7.079	0.14855	3.05024	8	X
K16S12C	15.8	0.15	K194R	134.410	14.981	23.327	7.999	0.04013	3.23957	11	X
K16S50A	16.3	0.15	K194R	260.023	163.212	120.821	12.668	0.11986	3.02646	6	X
K16S50N	16.4	0.15	K194R	225.925	299.278	3.646	8.378	0.09340	3.08711	6	X
K16T04O	16.4	0.15	K194R	271.998	255.636	355.778	10.332	0.05043	3.11505	7	X
K16T32E	16.2	0.15	K194R	176.342	357.370	346.435	10.222	0.22393	3.14031	8	W
K16T42N	16.3	0.15	K194R	257.353	260.434	19.635	9.138	0.12202	3.06910	9	W
K16T72Z	15.2	0.15	K194R	49.498	58.426	44.929	6.280	0.16055	3.97805	7	X
K16T96S	16.3	0.15	K194R	270.868	125.539	149.999	6.308	0.23140	2.92864	8	X
K16U00V	16.1	0.15	K194R	250.666	270.153	15.040	10.306	0.07981	3.16278	9	X
K16U11W	16.5	0.15	K194R	260.569	290.386	351.695	4.520	0.13510	3.00470	8	X
K16UA0U	15.7	0.15	K194R	322.429	298.800	277.230	29.144	0.30073	2.61504	7	X
K17D06Y	13.4	0.15	K194R	233.150	168.826	145.166	24.559	0.14697	5.20086	4	X
K17M02T	18.2	0.15	K194R	178.485	212.434	142.078	24.221	0.04719	1.84864	5	X
K17O05T	17.0	0.15	K194R	75.905	287.503	144.020	18.516	0.27200	2.59507	7	X
K17O06T	18.3	0.15	K194R	109.461	285.308	115.207	7.323	0.15671	2.34321	6	X
K17O11S	17.6	0.15	K194R	111.755	252.918	133.423	6.615	0.14892	2.43570	10	X
K17O49K	17.2	0.15	K194R	106.222	107.466	301.449	5.528	0.07543	2.34024	3	X
K17O59V	17.4	0.15	K194R	80.686	80.924	337.409	9.729	0.16097	2.65374	5	X
K17O62E	17.2	0.15	K194R	101.489	72.965	331.171	14.033	0.17901	2.56827	4	X
K17O64M	16.9	0.15	K194R	105.332	255.805	139.389	13.644	0.18541	2.63575	7	X
K17O64U	18.1	0.15	K194R	122.589	254.416	141.134	4.422	0.15180	2.34307	6	W
K17O67M	18.6	0.15	K194R	29.557	29.483	115.967	27.734	0.11176	1.88838	3	X
K17O69H	20.9	0.15	K194R	210.331	230.323	80.646	4.019	0.38034	2.10278	2	W
K17P10R	18.0	0.15	K194R	33.623	178.032	310.312	5.322	0.11416	2.28210	6	X
K17P19V	17.5	0.15	K194R	62.763	310.898	127.505	5.429	0.20110	2.74974	7	X
K17P25V	24.7	0.15	K194R	125.006	115.931	303.849	1.826	0.22890	1.06281	2	X
K17Q04D	17.9	0.15	K194R	111.120	89.266	300.316	6.409	0.18171	2.40080	3	X
K17Q41B	17.5	0.15	K194R	181.016	74.834	263.692	4.493	0.02023	2.22604	5	X
K17Q55W	17.0	0.15	K194R	113.548	27.256	2.033	13.888	0.24575	2.62341	3	W
K17R22Z	17.9	0.15	K194R	332.387	229.760	323.058	6.137	0.07684	2.16438	3	X
K17R31B	16.7	0.15	K194R	65.258	258.257	153.901	17.466	0.32302	3.11272	3	X
K17R32Z	17.6	0.15	K194R	91.029	65.354	345.959	4.519	0.17367	2.62649	4	X
K17R36Z	18.0	0.15	K194R	47.974	118.482	354.585	6.822	0.06274	2.32085	4	X
K17R38N	17.4	0.15	K194R	86.308	204.166	231.072	1.274	0.05394	2.31240	6	X
K17R39O	18.4	0.15	K194R	47.269	267.833	205.101	1.109	0.14338	2.41622	3	X
K17R44H	17.7	0.15	K194R	22.966	165.915	320.544	3.811	0.20258	2.60492	3	X
K17R50T	18.3	0.15	K194R	80.193	9.119	62.947	1.835	0.13665	2.52420	4	W
K17R52U	17.3	0.15	K194R	65.016	260.506	167.630	8.029	0.24446	2.96492	3	X
K17R67A	18.7	0.15	K194R	26.833	357.382	146.928	5.565	0.10266	2.25645	5	X
K17R69Q	17.0	0.15	K194R	161.830	184.404	154.810	2.938	0.20578	2.44976	5	X
K17R71S	18.1	0.15	K194R	16.432	160.139	352.249	5.642	0.13953	2.29521	4	X
K17R77D	18.0	0.15	K194R	68.015	60.240	33.716	4.050	0.08088	2.34657	3	X
K17R77M	16.8	0.15	K194R	95.983	259.281	141.279	11.790	0.13661	2.63286	7	X
K17R81Z	18.0	0.15	K194R	206.663	341.513	339.950	3.209	0.05779	2.22022	5	X
K17R83H	17.7	0.15	K194R	103.143	72.796	345.608	6.208	0.08427	2.41475	5	X
K17R89L	17.7	0.15	K194R	103.385	40.174	9.332	3.977	0.16510	2.63579	4	W
K17R93K	16.8	0.15	K194R	85.802	48.545	9.145	9.222	0.16649	2.76955	3	X
K17RA4J	16.6	0.15	K194R	123.754	58.964	306.653	13.372	0.21622	2.68901	6	X
K17RA7Q	16.7	0.15	K194R	25.939	171.123	313.131	11.382	0.14696	2.60406	8	X
K17S09O	17.3	0.15	K194R	101.870	8.314	50.595	5.816	0.14714	2.48274	6	X
K17S15J	16.6	0.15	K194R	115.631	273.142	139.851	9.471	0.07703	2.72802	10	X
K17S38E	16.5	0.15	K194R	46.700	116.275	334.484	16.166	0.19963	3.08047	5	X
K17S41C	17.7	0.15	K194R	10.070	128.017	45.507	7.708	0.02964	2.29851	7	X
K17S42K	17.3	0.15	K194R	126.550	279.150	119.762	6.482	0.04168	2.60122	7	X
K17S48R	18.2	0.15	K194R	29.147	190.519	292.690	2.693	0.11623	2.48407	3	X
K17S53F	17.1	0.15	K194R	184.810	109.048	222.113	4.786	0.04513	2.35203	10	X
K17S55T	17.4	0.15	K194R	69.945	42.212	50.338	8.700	0.14152	2.56812	4	X
K17S55U	17.5	0.15	K194R	85.643	292.464	143.440	9.256	0.14302	2.56931	4	X
K17S58R	17.0	0.15	K194R	119.741	262.660	120.560	5.882	0.13365	2.70821	6	X
K17S60C	17.3	0.15	K194R	82.877	313.237	122.616	7.489	0.09531	2.63422	4	X
K17S61K	17.9	0.15	K194R	302.536	135.555	98.302	7.111	0.06026	2.25099	4	W
K17S72G	18.5	0.15	K194R	48.912	124.352	355.844	2.644	0.09517	2.31923	7	X
K17S84V	16.8	0.15	K194R	80.826	5.523	47.494	3.464	0.21276	3.10235	4	X
K17S85J	17.4	0.15	K194R	109.614	278.178	113.442	5.665	0.08015	2.76521	3	X
K17S86H	17.5	0.15	K194R	120.013	280.537	117.890	4.284	0.16127	2.61240	5	W
K17S90P	17.3	0.15	K194R	70.653	71.487	13.972	14.577	0.23456	2.66269	4	X
K17S93M	17.3	0.15	K194R	93.921	249.499	162.575	6.187	0.14831	2.65086	5	X
K17S96V	17.3	0.15	K194R	78.186	53.614	26.028	12.166	0.15111	2.58057	6	X
K17S98K	18.2	0.15	K194R	35.214	62.860	80.053	4.846	0.10920	2.31359	5	W
K17S98N	17.1	0.15	K194R	54.579	30.139	67.806	4.466	0.16338	2.73601	6	X
K17S99R	17.1	0.15	K194R	122.003	273.222	116.605	5.982	0.15668	2.56438	7	X
K17SA1H	16.2	0.15	K194R	67.011	284.372	140.002	16.897	0.24017	3.10462	5	X
K17SA3R	16.9	0.15	K194R	25.559	132.827	357.856	7.321	0.10889	2.62579	3	X
K17SA4V	17.5	0.15	K194R	152.086	351.516	17.414	7.404	0.08897	2.47246	3	X
K17SA6Q	16.6	0.15	K194R	120.992	216.350	161.968	14.259	0.19491	2.75270	4	X
K17SA8P	16.7	0.15	K194R	93.744	77.785	348.164	14.228	0.08785	2.61939	6	X
K17SC3Z	17.9	0.15	K194R	197.386	206.730	129.987	6.188	0.13772	2.19051	6	X
K17SC5N	17.2	0.15	K194R	141.077	216.603	157.838	9.563	0.10663	2.64025	4	X

K17SC5R	16.4	0.15	K194R	54.025	287.166	162.051	10.727	0.07882	3.04271	4	X
K17T11W	17.6	0.15	K194R	174.191	5.895	349.828	6.455	0.15146	2.34234	8	X
K17U13W	17.7	0.15	K194R	184.527	35.892	307.164	3.517	0.08059	2.27005	9	X
K17U21J	17.5	0.15	K194R	78.519	307.446	125.441	4.627	0.13071	2.65151	4	X
K17U23F	17.4	0.15	K194R	79.805	289.287	136.615	4.541	0.13250	2.74647	6	X
K17U23S	16.5	0.15	K194R	31.699	92.767	16.270	16.487	0.25259	3.11226	5	X
K17U29O	17.1	0.15	K194R	72.744	255.223	179.825	6.636	0.10219	2.68303	9	X
K17U31M	17.3	0.15	K194R	97.702	49.960	359.829	8.447	0.12400	2.63825	4	X
K17U34A	17.1	0.15	K194R	55.612	62.113	30.394	4.834	0.18656	3.04723	7	X
K17U37U	16.1	0.15	K194R	230.232	229.378	65.389	14.976	0.12655	2.61323	10	X
K17U40E	16.5	0.15	K194R	116.488	59.530	323.370	11.124	0.07792	2.92025	4	X
K17U48G	16.6	0.15	K194R	14.799	345.914	144.835	11.058	0.08278	3.24220	7	X
K17V03L	16.9	0.15	K194R	72.279	302.843	126.527	11.119	0.23050	3.16095	5	X
K17V04O	16.8	0.15	K194R	156.472	1.247	8.103	24.681	0.18503	2.55851	6	X
K17V06B	17.5	0.15	K194R	130.163	349.144	47.201	6.191	0.08210	2.66348	6	W
K17V06N	16.5	0.15	K194R	93.497	341.334	83.110	7.796	0.14379	3.01500	7	X
K17V07K	17.2	0.15	K194R	68.965	71.302	8.253	7.329	0.14163	3.08728	5	X
K17V09W	16.6	0.15	K194R	20.037	137.954	357.754	7.808	0.12438	3.18598	5	X
K17V10D	16.9	0.15	K194R	298.118	265.919	327.899	14.465	0.04972	2.57027	7	X
K17V10T	16.6	0.15	K194R	92.010	266.614	151.921	10.215	0.16965	3.05289	6	X
K17V17W	16.7	0.15	K194R	81.850	126.071	317.326	3.599	0.17052	3.19352	8	X
K17V21G	17.4	0.15	K194R	116.820	29.169	9.852	5.595	0.06077	2.76570	3	X
K17V25O	17.6	0.15	K194R	80.290	56.806	29.308	6.578	0.01139	2.69344	7	W
K17V31E	17.4	0.15	K194R	218.907	264.596	47.799	2.681	0.06536	2.51177	9	X
K17W08W	16.3	0.15	K194R	96.383	277.486	141.415	7.862	0.06556	3.16023	3	X
K17W09L	16.6	0.15	K194R	171.141	6.968	340.728	4.159	0.27809	2.54802	5	W
K17W09O	17.0	0.15	K194R	172.477	313.639	39.819	8.295	0.22731	2.54934	5	X
K17W29U	16.0	0.15	K194R	87.048	257.034	135.466	26.600	0.30348	3.14767	4	X
K17X03F	15.7	0.15	K194R	74.890	324.787	123.730	27.331	0.18790	2.71405	10	X
K17X08L	16.9	0.15	K194R	111.980	14.062	42.796	6.316	0.10202	2.76025	8	W
K17X10J	17.1	0.15	K194R	183.055	288.798	51.140	4.803	0.08943	2.67360	6	X
K17X12H	17.1	0.15	K194R	153.463	304.866	65.422	3.948	0.15573	2.63364	9	X
K17X13Z	16.8	0.15	K194R	105.825	338.160	70.066	2.739	0.15240	2.97648	6	W
K17X15A	17.3	0.15	K194R	128.340	346.279	51.009	5.182	0.07311	2.76488	9	X
K17X16J	16.8	0.15	K194R	121.748	104.660	293.793	0.824	0.02235	2.90673	13	X
K17X16Q	17.4	0.15	K194R	229.700	328.794	329.539	2.177	0.07560	2.65258	7	X
K17X18J	16.9	0.15	K194R	300.800	205.702	14.550	2.177	0.03660	2.93739	9	X
K17X20F	17.0	0.15	K194R	101.019	91.874	313.734	4.299	0.15085	3.12645	6	X
K17X21V	17.1	0.15	K194R	37.336	102.014	34.127	9.605	0.07731	2.85950	7	X
K17X24R	17.2	0.15	K194R	96.016	4.309	59.258	2.494	0.10214	2.96313	6	W
K17X26A	17.1	0.15	K194R	51.372	66.742	60.629	7.004	0.02125	2.67157	6	X
K17X26U	17.3	0.15	K194R	79.945	17.519	73.213	5.622	0.03624	2.76293	7	W
K17X27H	17.0	0.15	K194R	59.825	27.566	77.385	5.740	0.10181	2.98302	4	X
K17X28P	16.6	0.15	K194R	95.181	6.511	69.023	9.559	0.07019	2.78489	6	W
K17X28V	17.0	0.15	K194R	71.897	8.488	77.848	6.161	0.10552	3.07807	5	W
K17X28Y	16.9	0.15	K194R	34.458	62.300	66.906	6.696	0.00704	2.88598	8	X
K17X31A	17.1	0.15	K194R	192.320	252.084	76.581	5.358	0.07180	2.79851	7	X
K17X34F	16.8	0.15	K194R	184.097	276.653	58.214	4.822	0.10912	2.78689	8	X
K17X39A	16.9	0.15	K194R	92.137	35.623	51.768	7.355	0.01058	2.71275	9	X
K17X39F	16.7	0.15	K194R	242.913	250.589	44.800	4.870	0.13623	2.53956	11	X
K17X40Z	17.3	0.15	K194R	244.023	248.082	49.996	3.315	0.08230	2.54315	8	W
K17X41L	16.7	0.15	K194R	5.378	235.396	279.257	2.694	0.04987	3.17729	7	X
K17X42T	17.1	0.15	K194R	289.416	189.977	65.478	3.718	0.14573	2.53491	11	W
K17X44M	17.0	0.15	K194R	231.830	218.654	79.891	3.543	0.05449	2.74608	11	X
K17X45G	17.4	0.15	K194R	246.452	187.983	101.290	4.435	0.05446	2.66594	6	W
K17X45K	17.0	0.15	K194R	208.740	232.192	88.597	2.543	0.09897	2.66636	10	X
K17X46B	16.4	0.15	K194R	16.282	70.158	79.899	6.644	0.08590	3.10636	11	X
K17X46K	16.6	0.15	K194R	101.405	315.968	90.365	6.563	0.16824	3.18943	8	W
K17X46U	17.4	0.15	K194R	220.157	205.898	108.069	3.136	0.06792	2.65604	9	X
K17X48U	17.2	0.15	K194R	223.527	112.790	182.321	1.726	0.03980	2.93482	8	X
K17X50U	17.2	0.15	K194R	168.345	14.303	341.023	4.794	0.07434	2.70637	7	X
K17X52Z	17.2	0.15	K194R	252.386	32.571	251.407	2.718	0.17189	2.44582	11	X
K17X54E	16.8	0.15	K194R	59.347	40.196	62.134	9.891	0.10569	3.05237	4	X
K17X56W	17.0	0.15	K194R	207.587	238.195	88.901	6.160	0.05705	2.67553	7	X
K18B00E	15.5	0.15	K194R	251.710	177.653	92.625	25.661	0.05373	2.77419	4	X
K18D04O	13.7	0.15	K194R	359.149	175.979	251.133	160.475	0.90693	25.84969	4	X
K18P23X	21.0	0.15	K194R	41.884	276.074	151.321	11.470	0.60358	2.21874	2	X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K18V07Y	21.7	0.15	K194R	28.607	94.699	350.087	4.607	0.63139	2.87754	108	X
K18X02T	22.1	0.15	K194R	35.299	57.972	79.961	7.178	0.35665	1.65965	78	X
K18X02Y	22.3	0.15	K194R	36.075	158.099	333.293	4.443	0.37916	1.78463	79	X
K18X05D	24.7	0.15	K194R	351.707	356.278	271.881	4.512	0.29242	0.82015	26	X
K18X06U	21.8	0.15	K194R	26.099	192.050	323.368	6.019	0.35709	1.77727	74	X
K19A03F	23.6	0.15	K194R	57.110	172.539	304.485	11.140	0.23813	1.42840	46	X
K19A03P	20.6	0.15	K194R	8.942	54.952	128.958	2.363	0.53015	2.45259	54	X
K19A09Y	21.2	0.15	K194R	128.353	226.426	143.857	11.974	0.46232	1.29612	64	X
K19A11W	22.5	0.15	K194R	17.105	85.584	83.620	2.174	0.50961	2.17992	53	X
K19B00F	23.0	0.15	K194R	9.494	28.881	161.239	4.498	0.59296	2.41099	54	X
K19B01C	20.6	0.15	K194R	32.807	328.743	118.234	17.761	0.63702	2.52717	38	X
K19B01O	19.6	0.15	K194R	332.319	196.863	80.689	22.365	0.30262	1.02717	35	X
K19C00J	25.5	0.15	K194R	26.448	41.595	132.542	2.297	0.29840	1.40965	32	X
K19C00S	22.9	0.15	K194R	8.231	73.043	131.208	3.404	0.43378	1.74234	54	X
K19C00T	23.8	0.15	K194R	24.237	335.559	172.018	1.916	0.45044	2.04523	49	X
K19C00W	23.8	0.15	K194R	5.664	68.534	150.818	7.763	0.48432	1.61730	42	X
K19C01R	23.8	0.15	K194R	68.365	306.790	129.842	2.390	0.41927	1.54465	22	X
K19C04E	18.0	0.15	K194R	27.773	346.513	38.826	20.638	0.64918	2.75957	19	X
K19C04J	25.5	0.15	K194R	103.123	86.042	327.026	3.244	0.37979	1.20271	18	X
K19C04M	23.0	0.15	K194R	3.882	225.216	356.448	5.376	0.48356	1.72352	18	X
K19C04O	18.6	0.15	K194R	34.212	232.135	152.921	44.546	0.83496	2.83739	18	X

K19C04S	23.5	0.15	K194R	31.546	21.040	140.838	19.055	0.15526	1.46312	17	X
K19C04T	24.3	0.15	K194R	7.723	235.097	339.506	16.405	0.33740	1.36116	17	X
K19C05C	22.0	0.15	K194R	50.463	295.487	131.308	7.488	0.60637	1.84427	18	X
K19C05D	22.1	0.15	K194R	359.081	211.094	32.741	2.624	0.66730	2.31472	22	X
K19C05O	21.3	0.15	K194R	26.950	116.165	345.888	19.780	0.60663	2.48574	15	X
K19D00B	26.2	0.15	K194R	52.630	333.387	156.588	9.076	0.27752	1.34878	1	W
K19D00C	26.2	0.15	K194R	9.582	201.966	338.241	6.271	0.61044	2.57129	1	W
K19D00D	27.1	0.15	K194R	357.936	80.852	155.826	11.435	0.28978	1.16694	1	W
K19D00E	26.0	0.15	K194R	13.702	13.624	147.479	3.054	0.59408	2.54634	1	W
K19D00F	29.8	0.15	K194R	6.063	55.179	156.833	2.949	0.65186	2.37848	0	W

New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K18V08K	18.1	0.15	K18CS	6.506	321.905	145.834	9.525	0.41728	2.63571	109	W
K18Y03F	16.4	0.15	K18CS	343.185	111.165	39.812	13.516	0.16881	2.93601	110	W
K19A11Y	18.1	0.15	K191H	42.779	254.997	149.871	27.830	0.44477	2.60395	47	W
K19C00L	18.9	0.15	K191H	183.636	337.708	332.257	19.730	0.07366	1.82838	49	W
K19C00M	18.1	0.15	K191H	113.044	39.236	330.649	18.382	0.08548	1.90661	49	W
K19C03H	19.2	0.15	K191H	171.582	344.004	340.465	19.690	0.11686	1.92163	49	W
K19C03Y	18.3	0.15	K191H	212.655	142.664	145.774	28.450	0.13019	1.98584	72	W

New observations:

K05C07L	C2019	02	26.49897	15	14	24.77	+48	03	15.0	18.7	GVED040703
K05C07L	C2019	02	26.51013	15	14	27.30	+48	04	01.4	19.6	GVED040703
K05C07L	C2019	02	26.51610	15	14	28.64	+48	04	26.6	20.4	GVED040703
K05F03C	C2019	02	26.48063811	29	06.78	+05	12	51.7	17.48	oVED040T08	
K05F03C	C2019	02	26.48868311	29	07.20	+05	13	09.3	17.40	oVED040T08	
K05F03C	C2019	02	26.49671211	29	07.62	+05	13	26.5	17.54	oVED040T08	
K05F03C	C2019	02	26.50474411	29	08.04	+05	13	43.8	17.61	oVED040T08	
K05Y36Y	C2019	02	26.45393510	39	36.73	-16	36	59.2	17.39	oVED040T08	
K05Y36Y	C2019	02	26.46205510	39	36.90	-16	37	01.3	17.50	oVED040T08	
K05Y36Y	C2019	02	26.46346710	39	36.90	-16	37	01.5	17.43	oVED040T08	
K05Y36Y	C2019	02	26.47012910	39	37.06	-16	37	03.1	17.77	oVED040T08	
K05Y36Y	C2019	02	26.47159410	39	37.06	-16	37	03.3	17.33	oVED040T08	
K05Y36Y	C2019	02	26.47820510	39	37.22	-16	37	04.5	17.50	oVED040T08	
K05Y36Y	C2019	02	26.47965110	39	37.23	-16	37	05.2	17.43	oVED040T08	
K05Y36Y	C2019	02	26.48771410	39	37.38	-16	37	06.4	17.24	oVED040T08	
K09D01L	C2019	02	26.39756	10	37	21.63	+12	11	07.2	18.4	GVED040G96
K09D01L	C2019	02	26.40268	10	37	21.33	+12	11	06.6	18.4	GVED040G96
K09D01L	C2019	02	26.40782	10	37	21.02	+12	11	06.3	18.4	GVED040G96
K09D01L	C2019	02	26.41295	10	37	20.71	+12	11	05.9	18.4	GVED040G96
K09S17V	C2019	02	26.29516	09	17	44.78	+13	55	17.1	19.2	GVED040G96
K09S17V	C2019	02	26.30074	09	17	44.89	+13	55	14.4	19.1	GVED040G96
K09S17V	C2019	02	26.30633	09	17	44.99	+13	55	11.3	19.2	GVED040G96
K09S17V	C2019	02	26.31189	09	17	45.09	+13	55	08.5	19.3	GVED040G96
K12B11N	KC2019	02	25.79541	07	16	24.46	+20	25	58.5	18.4	VSED040151
K12B11N	KC2019	02	25.80738	07	16	21.37	+20	26	22.9	18.3	VSED040151
K12B11N	KC2019	02	26.00506907	15	31.46	+20	32	56.1	18.6	VED040Z80	
K12B11N	KC2019	02	26.01195607	15	29.72	+20	33	10.0		VED040Z80	
K12B11N	KC2019	02	26.01832207	15	28.16	+20	33	23.1	18.2	GVED040Z80	
K14QT5R	KC2019	02	24.89782213	52	53.71	+59	50	38.0	16.4	VqED040J69	
K14QT5R	KC2019	02	24.90152113	52	49.65	+59	50	20.7	16.6	VqED040J69	
K14QT5R	KC2019	02	24.90521713	52	45.62	+59	50	03.3	16.5	VqED040J69	
K14QT5R	KC2019	02	24.90891413	52	41.56	+59	49	45.5	16.6	VqED040J69	
K14QT5R	KC2019	02	24.91260713	52	37.51	+59	49	28.0	16.6	VqED040J69	
K14QT5R	C2019	02	26.43018	13	27	39.55	+57	41	50.6	16.6	GVED040703
K14QT5R	C2019	02	26.43606	13	27	34.19	+57	41	20.3	16.6	GVED040703
K14QT5R	C2019	02	26.44183	13	27	28.93	+57	40	50.3	16.6	GVED040703
K14QT5R	C2019	02	26.44760	13	27	23.78	+57	40	20.3	16.6	GVED040703
K14R12C	KC2019	02	26.27800610	05	05.97	+20	50	41.1	22.1	VuED040H21	
K14R12C	KC2019	02	26.29190210	05	04.94	+20	50	43.7	22.4	VuED040H21	
K14R12C	KC2019	02	26.30412610	05	04.05	+20	50	45.2	22.3	VuED040H21	
K17P25V	C2019	02	26.45393510	27	48.95	-12	21	26.2	19.12	oVED040T08	
K17P25V	C2019	02	26.46205510	27	46.80	-12	20	50.7	18.85	oVED040T08	
K17P25V	C2019	02	26.47012910	27	44.64	-12	20	15.6	18.93	oVED040T08	
K17P25V	C2019	02	26.47820510	27	42.40	-12	19	39.5	19.19	oVED040T08	
K18P23X	C2019	02	26.35637	10	08	10.95	+14	13	21.5	20.2	GVED040G96
K18P23X	C2019	02	26.36148	10	08	10.77	+14	13	29.6	20.2	GVED040G96
K18P23X	C2019	02	26.36660	10	08	10.57	+14	13	38.3	20.1	GVED040G96
K18P23X	C2019	02	26.37172	10	08	10.38	+14	13	46.7	20.3	GVED040G96
K18V07Y	C2019	02	26.41899	11	01	57.96	+09	02	35.8	20.8	GVED040G96
K18V07Y	C2019	02	26.42411	11	01	57.51	+09	02	35.4	22.3	GVED040G96
K18V07Y	C2019	02	26.42924	11	01	57.03	+09	02	34.0	21.0	GVED040G96
K18V07Y	C2019	02	26.43436	11	01	56.60	+09	02	33.7	21.9	GVED040G96
K18X02T	C2019	02	26.35983	11	33	29.35	+66	46	09.3	19.7	GVED040703
K18X02T	C2019	02	26.37102	11	33	32.12	+66	45	41.4	20.8	GVED040703
K18X02T	C2019	02	26.37651	11	33	33.61	+66	45	26.7	19.9	GVED040703
K18X02Y	KC2019	02	25.98651611	00	16.79	+03	28	30.9	18.5	VED040Z80	
K18X02Y	KC2019	02	25.99108811	00	16.90	+03	28	19.6	18.4	VED040Z80	
K18X02Y	KC2019	02	25.99571811	00	17.05	+03	28	10.6	19.0	VED040Z80	
K18X05D	6C2019	01	05.16999	04	26	12.21	+11	44	25.8	20.2	RoED040290
K18X05D	6C2019	01	05.17207	04	26	11.14	+11	44	19.0	20.3	RoED040290
K18X05D	6C2019	01	05.17829	04	26	07.79	+11	43	58.5	20.3	RoED040290
K18X06U	C2019	02	26.45777810	47	37.43	-04	42	17.8	18.80	oVED040T08	
K18X06U	C2019	02	26.46583410	47	37.45	-04	42	42.4	18.86	oVED040T08	
K18X06U	C2019	02	26.47391310	47	37.70	-04	43	06.0	18.92	oVED040T08	
K18X06U	C2019	02	26.48203810	47	37.89	-04	43	30.5	18.76	oVED040T08	
K19A03F	KC2019	02	16.02636	08	00	17.82	-09	30	22.8	20.3	RVED040304
K19A03F	KC2019	02	16.02877	08	00	17.88	-09	30	30.4	21.1	RVED040304
K19A03F	KC2019	02	19.19955	08	02	28.83	-11	56	31.4	21.7	RVED040304
K19A03F	KC2019	02	19.21090	08	02	29.16	-11	56	59.6	19.9	RVED040304

K19A03F	KC2019	02	19.22499	08	02	29.57	-11	57	34.4	20.0	RVED040304
K19A03P	C2019	02	26.46984	11	47	23.92	+09	04	24.2	18.6	GVED040G96
K19A03P	C2019	02	26.47502	11	47	24.89	+09	04	23.4	18.5	GVED040G96
K19A03P	C2019	02	26.48020	11	47	25.85	+09	04	22.4	18.6	GVED040G96
K19A03P	C2019	02	26.48538	11	47	26.81	+09	04	21.4	18.5	GVED040G96
K19A09Y	C2019	02	26.19834	08	43	35.18	+19	34	51.5	21.6	GVED040G96
K19A09Y	C2019	02	26.20390	08	43	34.80	+19	34	56.5	22.0	GVED040G96
K19A09Y	C2019	02	26.20947	08	43	34.43	+19	35	02.1	22.0	GVED040G96
K19A09Y	C2019	02	26.21502	08	43	34.06	+19	35	07.7	22.2	GVED040G96
K19A11W	KC2019	02	27.48482	15	01	09.85	-02	40	10.6		oED040711
K19A11W	KC2019	02	27.48821	15	01	10.89	-02	40	16.6		oED040711
K19A11W	KC2019	02	27.49158	15	01	12.05	-02	40	23.6		oED040711
K19B00F	IC2019	02	27.47250	14	43	18.36	-14	46	20.0		oED040711
K19B00F	KC2019	02	27.47506	14	43	21.31	-14	46	22.5		oED040711
K19B00F	KC2019	02	27.47874	14	43	25.54	-14	46	25.8		oED040711
K19B01C	C2019	02	26.49066	13	42	58.69	+33	08	29.1	19.9	GVED040I52
K19B01C	C2019	02	26.50046	13	42	57.71	+33	08	41.5	20.7	GVED040I52
K19B01C	C2019	02	26.52483	13	42	55.33	+33	09	12.0		VED040I52
K19B01C	C2019	02	26.52650	13	42	55.17	+33	09	14.6	20.5	GVED040I52
K19B01O	KC2019	02	27.49711	17	33	34.98	+63	53	44.2		oED040711
K19B01O	KC2019	02	27.50017	17	33	36.25	+63	53	45.2		oED040711
K19B01O	KC2019	02	27.50327	17	33	37.54	+63	53	46.2		oED040711
K19C00J	C2019	02	26.34662214	22	12.95	+53	12	48.6		18.76	RUED040I41
K19C00J	C2019	02	26.34697214	22	13.93	+53	12	45.0		18.76	RUED040I41
K19C00J	C2019	02	26.37317414	23	29.51	+53	08	28.4		19.23	gUED040I41
K19C00J	C2019	02	26.37352114	23	30.64	+53	08	24.3		19.23	gUED040I41
K19C00J	C2019	02	26.47287	14	28	04.41	+52	50	47.4	18.6	GVED040703
K19C00J	C2019	02	26.47846	14	28	19.58	+52	49	41.8	18.4	GVED040703
K19C00J	C2019	02	26.49031	14	28	52.04	+52	47	21.7	18.6	GVED040703
K19C00S	C2019	02	26.51834	12	02	27.95	+18	17	49.5	18.9	GVED040G96
K19C00S	C2019	02	26.52546	12	02	31.24	+18	18	01.1	18.9	GVED040G96
K19C00S	C2019	02	26.53509	12	02	35.68	+18	18	16.7	18.9	GVED040G96
K19C00S	C2019	02	26.54024	12	02	38.08	+18	18	25.4	18.7	GVED040G96
K19C00T	C2019	02	26.52831	11	44	44.39	-01	39	34.1	21.3	GVED040I52
K19C00T	C2019	02	26.52955	11	44	44.56	-01	39	34.4	20.6	GVED040I52
K19C00T	C2019	02	26.53080	11	44	44.79	-01	39	34.3	20.7	GVED040I52
K19C00T	C2019	02	26.53205	11	44	44.96	-01	39	33.9	21.1	GVED040I52
K19C00W	KC2019	02	27.15894	06	42	17.06	+32	57	13.7	19.8	GVED040V01
K19C00W	KC2019	02	27.17166	06	42	02.06	+32	59	44.1	20.0	GVED040V01
K19C01R	C2019	02	26.44673	11	15	19.90	+11	47	17.3	21.6	GVED040G96
K19C01R	C2019	02	26.45190	11	15	19.29	+11	47	21.7	21.5	GVED040G96
K19C01R	C2019	02	26.45708	11	15	18.63	+11	47	25.8	20.7	GVED040G96
K19C01R	C2019	02	26.46226	11	15	18.04	+11	47	28.0	21.2	GVED040G96
K19C01R	C2019	02	26.46382	11	15	17.85	+11	47	30.3	21.9	GVED040I52
K19C01R	C2019	02	26.46714	11	15	17.44	+11	47	32.6	21.4	GVED040I52
K19C01R	C2019	02	26.47047	11	15	17.02	+11	47	35.2	21.1	GVED040I52
K19C04E	BC2019	02	26.79455102	43	34.29	+36	03	38.6			VED040J95
K19C04E	KC2019	02	26.80650602	43	37.41	+36	03	54.4		21.6	GVED040J95
K19C04J	KC2019	02	26.23338909	45	43.68	+09	10	09.3		21.7	VuED040H21
K19C04J	KC2019	02	26.24009409	45	42.96	+09	10	07.7		22.1	VuED040H21
K19C04J	KC2019	02	26.24558009	45	42.41	+09	10	05.7		22.1	VuED040H21
K19C04M	KC2019	02	26.22712112	03	47.65	+19	10	12.3		19.6	GVED040W89
K19C04M	KC2019	02	26.23301612	03	49.45	+19	10	03.0		19.0	GVED040W89
K19C04M	KC2019	02	26.23896912	03	51.37	+19	09	53.7		19.2	GVED040W89
K19C04M	KC2019	02	26.24494712	03	53.29	+19	09	45.3		19.3	GVED040W89
K19C04M	KC2019	02	26.25097112	03	55.20	+19	09	35.1		18.9	GVED040W89
K19C04M	KC2019	02	26.26309412	03	59.01	+19	09	16.7		19.2	GVED040W89
K19C04M	C2019	02	26.51834	12	05	25.42	+19	00	54.4	19.3	GVED040G96
K19C04M	C2019	02	26.52546	12	05	27.85	+19	00	41.8	19.4	GVED040G96
K19C04M	C2019	02	26.53509	12	05	31.14	+19	00	25.0	19.4	GVED040G96
K19C04M	C2019	02	26.54024	12	05	32.92	+19	00	15.6	19.1	GVED040G96
K19C04O	C2019	02	26.37596	10	17	24.24	+13	57	49.7	20.0	GVED040G96
K19C04O	C2019	02	26.38112	10	17	23.58	+13	58	01.0	19.9	GVED040G96
K19C04O	C2019	02	26.38630	10	17	22.91	+13	58	11.7	19.9	GVED040G96
K19C04O	C2019	02	26.39147	10	17	22.22	+13	58	23.2	19.9	GVED040G96
K19C04S	KC2019	02	26.26548211	52	16.69	+31	49	05.4		22.1	VuED040H21
K19C04S	KC2019	02	26.27507511	52	17.18	+31	49	44.2		22.4	VuED040H21
K19C04S	KC2019	02	26.28476411	52	17.63	+31	50	23.3		22.2	VuED040H21
K19C04T	KC2019	02	25.96814011	05	40.38	+31	54	34.6		17.7	GVED040Z80
K19C04T	KC2019	02	25.96947111	05	39.58	+31	54	13.3		17.7	GVED040Z80
K19C04T	KC2019	02	25.97086311	05	38.84	+31	53	52.3		17.9	GVED040Z80
K19C04T	KC2019	02	25.97224911	05	38.08	+31	53	31.3		18.2	GVED040Z80
K19C04T	KC2019	02	25.97363811	05	37.29	+31	53	10.2		17.7	GVED040Z80
K19C04T	KC2019	02	25.97502811	05	36.52	+31	52	48.8		18.6	GVED040Z80
K19C04T	KC2019	02	25.97641411	05	35.77	+31	52	26.5		17.3	GVED040Z80
K19C04T	KC2019	02	25.97780611	05	34.93	+31	52	05.6		17.7	GVED040Z80
K19C04T	KC2019	02	25.97919111	05	34.20	+31	51	42.8		17.7	GVED040Z80
K19C04T	KC2019	02	25.98058111	05	33.36	+31	51	22.3		17.8	GVED040Z80
K19C04T	'C2019	02	26.16001	11	03	50.21	+31	04	21.6	17.4	GVED040G40
K19C04T	'C2019	02	26.19817	11	03	27.02	+30	53	21.9	18.1	GVED040G40
K19C04T	C2019	02	26.44153711	01	15.24	+29	41	04.2		17.7	GVED040V37
K19C04T	C2019	02	26.44576011	01	12.54	+29	39	43.3		18.1	GVED040V37
K19C04T	C2019	02	26.45120811	01	09.09	+29	37	58.6		17.8	GVED040V37
K19C04T	C2019	02	26.45537711	01	06.44	+29	36	38.4		18.1	GVED040V37
K19C04T	FC2019	02	26.45956711	01	03.77	+29	35	17.6		18.3	GVED040V37
K19C05C	C2019	02	26.51834	12	07	41.11	+19	30	21.7	19.9	GVED040G96
K19C05C	C2019	02	26.52546	12	07	39.48	+19	30	30.1	20.0	GVED040G96
K19C05C	KC2019	02	26.53209	12	07	37.95	+19	30	38.9		oED040291
K19C05C	C2019	02	26.53509	12	07	37.23	+19	30	41.9	20.0	GVED040G96
K19C05C	KC2019	02	26.53634	12	07	36.95	+19	30	43.9	20.0	RoED040291
K19C05C	C2019	02	26.54024	12	07	36.06	+19	30	48.0	21.1	GVED040G96

	K19C05D	C2019	02	26.34144611	33	33.03	+15	11	32.2		
	K19C05D	C2019	02	26.34388811	33	33.13	+15	11	34.7		
	K19C05D	C2019	02	26.34633211	33	33.24	+15	11	37.0		
	K19C05D	C2019	02	26.34877811	33	33.34	+15	11	39.3		
	K19C05D	C2019	02	26.35121911	33	33.46	+15	11	42.0		
	K19C05D	C2019	02	26.49080	11	33	40.18	+15	13	55.6	
	K19C05D	C2019	02	26.49586	11	33	40.44	+15	14	00.3	
	K19C05D	C2019	02	26.50355	11	33	40.81	+15	14	07.9	
	K19C05D	C2019	02	26.50863	11	33	41.09	+15	14	12.4	
	K19C050	KC2019	02	25.86306	11	08	37.34	+29	22	41.5	
	K19C050	KC2019	02	25.86487	11	08	36.84	+29	22	25.3	
	K19C050	KC2019	02	25.86579	11	08	36.53	+29	22	19.2	
00433		KC2019	02	26.78991806	21	53.95	+07	29	00.1		
00433		KC2019	02	26.79014806	21	54.00	+07	28	59.6		
00433		KC2019	02	26.79038006	21	54.04	+07	28	59.3		
00433		KC2019	02	26.79243706	21	54.36	+07	28	55.6		
00433		KC2019	02	26.79264706	21	54.39	+07	28	55.2		
00433		KC2019	02	26.79286606	21	54.43	+07	28	54.9		
00433		KC2019	02	26.79379206	21	54.58	+07	28	53.3		
00433		KC2019	02	26.79409606	21	54.64	+07	28	52.6		
00433		KC2019	02	26.79428906	21	54.66	+07	28	52.2		
00433		KC2019	02	26.79601206	21	54.95	+07	28	49.3		
00433		KC2019	02	26.79626406	21	54.99	+07	28	48.9		
00433		KC2019	02	26.79645906	21	55.01	+07	28	48.5		
01620		C2019	02	26.18722005	34	42.51	+36	07	06.5		
01620		C2019	02	26.20539005	34	42.93	+36	06	44.9		
01620		C2019	02	26.27462005	34	44.61	+36	05	22.4		
01620		C2019	02	26.27692005	34	44.66	+36	05	19.6		
01627		C2019	02	26.21885102	31	45.46	+07	37	16.9		
01627		C2019	02	26.22408102	31	46.05	+07	37	20.5		
01627		C2019	02	26.23122702	31	46.83	+07	37	25.6		
01627		C2019	02	26.23924202	31	47.73	+07	37	31.3		
01863		C2019	02	26.18675	07	04	58.70	+40	59	35.4	
01863		C2019	02	26.19221	07	04	58.39	+40	59	32.9	
01863		C2019	02	26.19766	07	04	58.10	+40	59	29.6	
01863		C2019	02	26.20312	07	04	57.87	+40	59	26.8	
01866		C2019	02	26.63092117	15	07.62	-11	17	31.7		
01866		C2019	02	26.63944617	15	08.32	-11	17	35.4		
01866		C2019	02	26.64797217	15	09.01	-11	17	39.4		
01866		C2019	02	26.65636417	15	09.72	-11	17	43.2		
04596		C2019	02	26.42340909	22	53.40	+07	22	35.6		
04596		C2019	02	26.43151909	22	52.89	+07	22	52.1		
04596		C2019	02	26.43962309	22	52.42	+07	23	09.0		
04596		C2019	02	26.44770009	22	51.91	+07	23	26.1		
05189		C2019	02	26.50715312	21	31.26	+02	35	51.1		
05189		C2019	02	26.51551312	21	30.83	+02	35	56.1		
05189		C2019	02	26.52455212	21	30.40	+02	36	03.1		
05189		C2019	02	26.53373712	21	29.98	+02	36	08.5		
05332		KC2019	02	16.15505515	34	44.86	+07	58	54.8		
05332		KC2019	02	16.15756215	34	45.03	+07	58	56.1		
05332		KC2019	02	16.16006415	34	45.16	+07	58	57.7		
05587		C2019	02	26.39921208	23	22.40	-02	01	36.0		
05587		C2019	02	26.40722708	23	22.01	-02	01	32.2		
05587		C2019	02	26.41528808	23	21.60	-02	01	27.6		
05646		+C2019	02	27.08406	01	37	04.52	+14	42	59.1	
05646		+C2019	02	27.09311	01	37	06.14	+14	43	09.5	
05646		+C2019	02	27.10636	01	37	08.52	+14	43	24.8	
05646		+C2019	02	27.11485	01	37	09.96	+14	43	34.7	
06050		C2019	02	26.51457	12	09	03.08	+09	07	59.1	
06050		C2019	02	26.52166	12	09	02.73	+09	08	01.9	
06050		C2019	02	26.53249	12	09	02.14	+09	08	06.6	
06050		C2019	02	26.53841	12	09	01.81	+09	08	09.5	
08176		C2019	02	26.45712016	53	50.01	+29	08	06.2		
08176		C2019	02	26.49793116	53	56.66	+29	08	19.8		
08176		C2019	02	26.50627016	53	58.03	+29	08	22.5		
08176		C2019	02	26.52670916	54	01.34	+29	08	29.3		
08176		C2019	02	26.54723016	54	04.72	+29	08	36.1		
18736		KC2019	02	26.80397407	58	01.96	+13	51	31.8		
18736		KC2019	02	26.80584407	58	02.13	+13	51	30.2		
18736		KC2019	02	26.82012707	58	03.35	+13	51	18.8		
18736		KC2019	02	26.82226407	58	03.52	+13	51	15.9		
18736		KC2019	02	26.82469507	58	03.76	+13	51	14.0		
32906		C2019	02	26.50150412	08	15.10	-15	19	01.2		
32906		C2019	02	26.50956312	08	14.49	-15	19	03.6		
32906		C2019	02	26.51807512	08	13.79	-15	19	05.3		
32906		C2019	02	26.52735812	08	12.97	-15	19	06.6		
39572		C2019	02	26.19880	08	40	02.89	+17	19	07.5	
39572		C2019	02	26.20436	08	40	02.51	+17	19	08.1	
39572		C2019	02	26.20993	08	40	02.13	+17	19	08.4	
39572		C2019	02	26.21548	08	40	01.74	+17	19	07.7	
42286		KC2019	02	16.18745717	56	19.51	+22	43	14.6		
42286		KC2019	02	16.18947317	56	19.99	+22	43	08.7		
42286		KC2019	02	16.19147417	56	20.46	+22	43	03.3		
48603		C2019	02	26.46157610	47	05.90	+05	29	53.3		
48603		C2019	02	26.46966410	47	05.11	+05	29	55.7		
48603		C2019	02	26.47774410	47	04.28	+05	29	57.5		
48603		C2019	02	26.48579610	47	03.55	+05	30	01.4		
85275		C2019	02	26.33742	09	52	34.60	+17	09	13.7	
85275		C2019	02	26.34248	09	52	34.24	+17	09	16.9	
85275		C2019	02	26.34756	09	52	33.89	+17	09	20.1	
85275		C2019	02	26.35262	09	52	33.54	+17	09	23.3	

19.2	GVED040V37
19.3	GVED040V37
19.4	GVED040V37
19.4	GVED040V37
19.4	GVED040V37
20.0	GVED040G96
20.0	GVED040G96
19.7	GVED040G96
19.8	GVED040G96
19.1	VSED040I51
18.6	VSED040I51
19.0	VSED040I51
11.2	VqED040G33
11.4	VqED040G33
11.5	VqED040G33
11.2	VqED040G33
11.2	VqED040G33
11.2	VqED040G33
11.2	VqED040G33
11.3	VqED040G33
11.3	VqED040G33
11.3	VqED040G33
11.3	VqED040G33
11.2	VqED040G33
17.18g	UED040I41
16.18r	UED040I41
17.28r	UED040I41
17.21r	UED040I41
16.61o	VED040T08
16.60o	VED040T08
16.71o	VED040T08
16.85o	VED040T08
19.0	GVED040703
19.0	GVED040703
18.7	GVED040703
19.0	GVED040703
16.22o	VED040T08
16.23o	VED040T08
16.21o	VED040T08
16.23o	VED040T08
18.06o	VED040T08
18.06o	VED040T08
18.02o	VED040T08
18.03o	VED040T08
18.83o	VED040T08
19.09o	VED040T08
18.92o	VED040T08
18.67o	VED040T08
18.2	RqED040I60
17.7	RqED040I60
17.7	RqED040I60
18.08o	VED040T08
18.05o	VED040T08
18.43o	VED040T08
19.3	GUED040H06
18.9	GUED040H06
18.8	GUED040H06
19.6	GUED040H06
19.6	GUED040H06
19.5	GVED040G96
19.6	GVED040G96
19.8	GVED040G96
19.58g	UED040I41
19.97g	UED040I41
19.40r	UED040I41
19.80r	UED040I41
19.47r	UED040I41
14.7	GVED040G33
15.0	GVED040G33
15.2	GVED040G33
15.1	GVED040G33
14.6	GVED040G33
18.73o	VED040T08
18.77o	VED040T08
18.61o	VED040T08
18.79o	VED040T08
20.7	GVED040G96
21.4	GVED040G96
21.0	GVED040G96
20.8	GVED040G96
17.9	RqED040I60
17.2	RqED040I60
17.7	RqED040I60
18.84o	VED040T08
18.93o	VED040T08
18.98o	VED040T08
18.65o	VED040T08
19.7	GVED040G96
19.8	GVED040G96
19.7	GVED040G96
19.6	GVED040G96

89959	KC2019	02	16.14787215	00	08.72	+45	21	52.1	17.7	RqED040160	
89959	KC2019	02	16.14978115	00	08.72	+45	21	58.4	17.5	RqED040160	
89959	KC2019	02	16.15179115	00	08.76	+45	22	05.9	16.4	RqED040160	
89959	C2019	02	26.47472	15	01	04.26	+53	51	03.3	17.6	GVED040703
89959	C2019	02	26.49216	15	01	03.64	+53	51	47.4		VED040703
90403	C2019	02	26.31976905	33	31.20	-10	11	05.1	17.73	oVED040T08	
90403	C2019	02	26.32769105	33	30.89	-10	11	15.0	17.86	oVED040T08	
90403	C2019	02	26.33566405	33	30.52	-10	11	25.3	17.88	oVED040T08	
D6635	C2019	02	26.42528309	39	40.28	-15	49	43.8	18.34	oVED040T08	
D6635	C2019	02	26.43483309	39	39.75	-15	49	40.3	17.98	oVED040T08	
D6635	C2019	02	26.44152109	39	39.40	-15	49	37.5	17.84	oVED040T08	
D6635	C2019	02	26.44295609	39	39.29	-15	49	36.5	18.05	oVED040T08	
D6635	C2019	02	26.44964609	39	38.97	-15	49	34.4	18.19	oVED040T08	
D6635	C2019	02	26.45107609	39	38.87	-15	49	34.4	18.21	oVED040T08	
D6635	C2019	02	26.45916109	39	38.38	-15	49	30.9	17.98	oVED040T08	
D7802	C2019	02	26.29327	09	07	04.62	+46	34	26.4	18.5	GVED040703
D7802	C2019	02	26.29862	09	07	04.29	+46	34	30.0	18.8	GVED040703
D7802	C2019	02	26.30397	09	07	03.71	+46	34	34.3	19.0	GVED040703
D7802	C2019	02	26.30931	09	07	03.29	+46	34	37.8	19.0	GVED040703
D9359	KC2019	02	16.12215912	31	34.50	+09	27	36.0	18.2	RqED040160	
D9359	KC2019	02	16.12469912	31	34.14	+09	27	38.5	17.6	RqED040160	
D9359	KC2019	02	16.12720512	31	33.77	+09	27	41.6	17.8	RqED040160	
D9359	C2019	02	26.51503	12	04	36.23	+12	32	31.9	18.1	GVED040G96
D9359	C2019	02	26.52212	12	04	35.11	+12	32	38.7	18.1	GVED040G96
D9359	C2019	02	26.53371	12	04	33.26	+12	32	49.0	17.5	GVED040G96
D9359	C2019	02	26.53886	12	04	32.48	+12	32	54.7	17.9	GVED040G96
E2561	C2019	02	26.43723	11	06	39.27	+12	49	59.3	19.1	GVED040G96
E2561	C2019	02	26.44812	11	06	38.54	+12	50	16.5		VED040G96
E2561	C2019	02	26.45331	11	06	38.19	+12	50	24.4	19.1	GVED040G96
E2561	C2019	02	26.45848	11	06	37.86	+12	50	32.4	18.9	GVED040G96
F2931	KC2019	02	16.17242515	57	41.77	+28	56	26.5	17.4	RqED040160	
F2931	KC2019	02	16.17494815	57	42.05	+28	56	28.3	17.1	RqED040160	
F2931	KC2019	02	16.17751115	57	42.34	+28	56	29.8	17.6	RqED040160	
F4652	C2019	02	26.37606307	35	59.23	+08	28	51.5	19.13	oVED040T08	
F4652	C2019	02	26.38412507	35	58.98	+08	29	07.9	19.79	oVED040T08	
F4652	C2019	02	26.39216807	35	58.93	+08	29	25.8	19.13	oVED040T08	
F4652	C2019	02	26.40014207	35	58.69	+08	29	41.0	18.84	oVED040T08	
G2361	C2019	02	26.48988	11	37	48.35	+17	58	16.3	17.4	GVED040G96
G2361	C2019	02	26.49494	11	37	47.00	+17	58	34.9	17.2	GVED040G96
G2361	C2019	02	26.50172	11	37	45.21	+17	58	59.9	17.4	GVED040G96
G2361	C2019	02	26.50771	11	37	43.63	+17	59	22.0	17.3	GVED040G96
G2433	C2019	02	26.38157	12	18	52.31	+35	09	19.7	20.8	GVED040703
G2433	C2019	02	26.38734	12	18	51.73	+35	09	27.9	20.3	GVED040703
G2433	C2019	02	26.39279	12	18	51.16	+35	09	36.4	20.1	GVED040703
G2433	C2019	02	26.39821	12	18	50.80	+35	09	44.6	20.2	GVED040703
G3000	C2019	02	26.44673	11	18	06.26	+12	30	38.5	17.8	GVED040G96
G3000	C2019	02	26.45190	11	18	05.64	+12	30	39.7	17.8	GVED040G96
G3000	C2019	02	26.45708	11	18	05.03	+12	30	40.9	17.8	GVED040G96
G3000	C2019	02	26.46226	11	18	04.42	+12	30	42.1	17.7	GVED040G96
G3051	C2019	02	26.31417305	45	26.48	+08	04	16.3	18.32	oVED040T08	
G3051	C2019	02	26.32209505	45	26.43	+08	04	16.2	18.01	oVED040T08	
G3051	C2019	02	26.33001905	45	26.41	+08	04	16.3	18.07	oVED040T08	
G3051	C2019	02	26.33800605	45	26.37	+08	04	16.3	17.89	oVED040T08	
G3693	KC2019	02	16.18074517	36	31.30	+17	14	50.1	17.2	RqED040160	
G3693	KC2019	02	16.18184817	36	31.55	+17	14	51.2	17.1	RqED040160	
G3693	KC2019	02	16.18272017	36	31.76	+17	14	51.1	17.1	RqED040160	
G3693	KC2019	02	16.18327517	36	31.91	+17	14	51.3	17.3	RqED040160	
G9675	KC2019	02	26.23938409	54	32.89	+30	27	00.0	22.2	VuED040H21	
G9675	KC2019	02	26.24692409	54	32.41	+30	27	01.5	21.9	VuED040H21	
G9675	KC2019	02	26.26005709	54	31.66	+30	27	04.4	22.1	VuED040H21	
I0186	C2019	02	26.38412507	33	36.45	+07	05	44.2	17.61	oVED040T08	
I0186	C2019	02	26.40014207	33	39.06	+07	06	07.5	17.72	oVED040T08	
P1732	C2019	02	26.51219	11	57	48.03	+16	07	33.1	20.9	GVED040G96
P1732	C2019	02	26.51929	11	57	47.19	+16	07	37.6	20.3	GVED040G96
P1732	C2019	02	26.52641	11	57	46.35	+16	07	42.4	20.5	GVED040G96
Q7759	C2019	02	26.36227	11	18	22.51	+37	24	27.5	18.1	GVED040703
Q7759	C2019	02	26.36784	11	18	22.47	+37	24	50.3	17.9	GVED040703
Q7759	C2019	02	26.37336	11	18	22.37	+37	25	12.5	18.0	GVED040703
Q7759	C2019	02	26.37882	11	18	22.31	+37	25	35.3	18.1	GVED040703
R5611	C2019	02	26.33834	09	56	00.32	+12	56	58.6	17.6	GVED040G96
R5611	C2019	02	26.34340	09	55	59.80	+12	56	55.9	17.6	GVED040G96
R5611	C2019	02	26.34848	09	55	59.30	+12	56	52.7	17.6	GVED040G96
R5611	C2019	02	26.35354	09	55	58.77	+12	56	49.9	17.6	GVED040G96
U7564	C2019	02	26.46560	11	42	25.32	+12	25	35.1	20.9	GVED040G96
U7564	C2019	02	26.47077	11	42	24.89	+12	25	38.9	21.8	GVED040G96
U7564	C2019	02	26.47596	11	42	24.41	+12	25	44.4		VED040G96
U7564	C2019	02	26.48114	11	42	23.99	+12	25	47.1	21.1	GVED040G96
V8411	KC2019	02	16.13090414	22	53.35	+15	22	04.8	17.4	RqED040160	
V8411	KC2019	02	16.13338414	22	53.83	+15	22	04.3	17.7	RqED040160	
V8411	KC2019	02	16.13588814	22	54.34	+15	22	03.7	17.8	RqED040160	
Z6285	C2019	02	26.51292512	46	00.81	-09	06	09.6	19.06	oVED040T08	
Z6285	C2019	02	26.52153412	46	00.54	-09	05	55.6	18.38	oVED040T08	
Z6285	C2019	02	26.53114712	46	00.24	-09	05	38.1	18.72	oVED040T08	
Z6285	C2019	02	26.54025612	45	59.88	-09	05	22.6	18.30	oVED040T08	
Z7621	C2019	02	26.35963	10	03	46.67	+11	30	03.4	20.4	GVED040G96
Z7621	C2019	02	26.36475	10	03	46.11	+11	30	04.2	20.9	GVED040G96
Z7621	C2019	02	26.36987	10	03	45.54	+11	30	04.8	20.7	GVED040G96
Z7621	C2019	02	26.37499	10	03	44.98	+11	30	06.4	20.5	GVED040G96
b6864	C2019	02	26.41015009	07	55.53	-04	16	54.4	18.53	oVED040T08	
b6864	C2019	02	26.41815809	07	55.91	-04	16	45.8	18.73	oVED040T08	
b6864	C2019	02	26.42620309	07	56.27	-04	16	38.6	18.77	oVED040T08	

b6864	C2019	02	26.43434009	07	56.64	-04	16	31.5	18.77	oVED040T08	
c1677	C2019	02	26.38043	11	43	49.18	+45	14	39.5	15.6	GVED040703
c1677	C2019	02	26.38631	11	43	51.70	+45	15	01.4	15.6	GVED040703
c1677	C2019	02	26.39184	11	43	54.13	+45	15	21.9	15.6	GVED040703
c1677	C2019	02	26.39730	11	43	56.40	+45	15	42.3	15.5	GVED040703
f0777	C2019	02	26.39946	10	48	01.68	+14	34	00.9	20.9	GVED040G96
f0777	C2019	02	26.40458	10	48	00.64	+14	34	07.1	21.1	GVED040G96
f0777	C2019	02	26.41484	10	47	58.53	+14	34	19.3	21.6	GVED040G96
f8929	C2019	02	25.19416007	24	16.24	-07	10	03.9	18.25	rUED040I41	
f8929	C2019	02	25.21267007	24	17.75	-07	09	33.9	18.90	gUED040I41	
f8929	C2019	02	26.17047007	25	40.31	-06	43	57.4	18.94	gUED040I41	
f8929	C2019	02	26.21053007	25	43.58	-06	42	53.8	18.24	rUED040I41	
f8929	C2019	02	26.36100507	25	56.29	-06	38	53.2	18.21	oVED040T08	
f8929	C2019	02	26.36292607	25	56.46	-06	38	50.7	18.43	oVED040T08	
f8929	C2019	02	26.38689107	25	58.43	-06	38	12.2	18.16	oVED040T08	
g4532	C2019	02	26.51219	11	57	30.29	+17	37	18.7	20.6	GVED040G96
g4532	C2019	02	26.51929	11	57	29.94	+17	37	22.9	20.3	GVED040G96
g4532	C2019	02	26.52641	11	57	29.60	+17	37	27.1	20.0	GVED040G96
g4532	C2019	02	26.53603	11	57	29.11	+17	37	32.7	20.3	GVED040G96
j3778	C2019	02	26.37420707	48	40.25	+00	00	08.2	17.92	oVED040T08	
j3778	C2019	02	26.38226507	48	39.56	+00	00	13.5	17.82	oVED040T08	
j3778	C2019	02	26.39023907	48	38.86	+00	00	17.8	17.78	oVED040T08	
j3778	C2019	02	26.39822507	48	38.17	+00	00	23.1	17.70	oVED040T08	
j8198	C2019	02	26.46920511	02	40.13	+00	45	43.3	19.45	oVED040T08	
j8198	C2019	02	26.47728511	02	39.60	+00	45	46.6	19.08	oVED040T08	
j8198	C2019	02	26.48532111	02	39.13	+00	45	48.5	19.25	oVED040T08	
j8198	C2019	02	26.49341111	02	38.62	+00	45	49.9	19.60	oVED040T08	
k8684	C2019	02	26.40067908	44	28.92	-02	04	03.5	17.80	oVED040T08	
k8684	C2019	02	26.40868408	44	29.63	-02	03	13.3	17.86	oVED040T08	
k8684	C2019	02	26.41671108	44	30.38	-02	02	23.1	17.81	oVED040T08	
k8684	C2019	02	26.42478908	44	31.14	-02	01	32.1	17.74	oVED040T08	
q3631	C2019	02	26.50336412	30	39.25	-09	52	06.5	17.45	oVED040T08	
q3631	C2019	02	26.51141012	30	37.86	-09	52	12.0	17.38	oVED040T08	
q3631	C2019	02	26.51292512	30	37.60	-09	52	13.3	17.24	oVED040T08	
q3631	C2019	02	26.52000112	30	36.36	-09	52	18.3	17.47	oVED040T08	
q3631	C2019	02	26.52153412	30	36.06	-09	52	19.3	17.59	oVED040T08	
q3631	C2019	02	26.52954512	30	34.65	-09	52	25.5	17.41	oVED040T08	
q3631	C2019	02	26.53114712	30	34.40	-09	52	26.0	17.41	oVED040T08	
q3631	C2019	02	26.54025612	30	32.79	-09	52	32.9	17.37	oVED040T08	

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