



Mark Trueblood <winer.obs@gmail.com>

MPEC W72: Daily Orbit Update (2016 Nov. 25 UT)

mpec@si.edu <mpec@si.edu>
To: winer.obs@gmail.com

Fri, Nov 25, 2016 at 6:42 AM

M.P.E.C. 2016-W72

Issued 2016 Nov. 25, 13:05 UT

The Minor Planet Electronic Circulars contain information on unusual minor planets and routine data on comets. They are published on behalf of Division F of the International Astronomical Union by the Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

Prepared using the Tamkin Foundation Computer Network

MPC@CFA.HARVARD.EDUURL <http://www.minorplanetcenter.net/> ISSN 1523-6714**DAILY ORBIT UPDATE (2016 NOV. 25 UT)**

Update to MPEC 2016-W65

Full-precision elements for the objects listed here are available at

<http://www.minorplanetcenter.net/iau/MPCORB.html>

New identification:

K03SD0F	K16V17G	MPCW
K03SO1J	K16UD5M	MPCW
K03U23O	K16UE2F	MPCW
K05QH3A	K16W02L	MPCW
K05SJ8S	K16V08M	MPCW
K05SN1U	K16V08R	MPCW
K05ST0D	K16V08B	MPCW
K05U91R	K16V08J	MPCW
K05UM9J	K16UE3H	MPCW
K05UV2C	K16V12Y	MPCW
K05Uk2M	K16UE6H	MPCW
K05Uo1F	K16W02D	MPCW
K05W20Z	K16UE6A	MPCW
K05W66D	K16V07J	MPCW
K06Y49R	K16V07O	MPCW
K07RE7V	K16UE6P	MPCW
K07TH1C	K16UE4R	MPCW
K08FB0S	K16UC7P	MPCW
K08K14E	K16V06W	MPCW
K08ST0P	K16UE7O	MPCW
K08U32P	K16UE3M	MPCW
K08V28Q	K16UE6Z	MPCW
K09S26J	K16UE6D	MPCW
K09SX6H	K16V13J	MPCW
K10A73O	K16V08H	MPCW
K10U08Q	K16V08D	MPCW
K11F05X	K16UE4K	MPCW

K11SN2K K16UE5T	MPCW
K11U77S K16UE4C	MPCW
K11V18W K06WK3J K16UE4H	MPCW
K12R30T K16UD6Y	MPCW
K12R42E K16UE2K	MPCW
K12VA8R K16UD7T	MPCW
K12W33D K16UE4S	MPCW
K12X05U K16V16A	MPCW
K12X44Z K16V14O	MPCW
K12X87B K16UD5C	MPCW
K13CB4N K16V07K	MPCW
K15H66J K16UE5D	MPCW
K15H67F K16UC7K	MPCW
K15HG8X K16UC6T	MPCW
K15P47O K16V15W	MPCW
K15TQ5G K08CH4P K16V14T	MPCW

New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J95U53D	16.8	0.15	K172G	35.113	11.477	5.120	9.309	0.09765	3.00064	5	X
J98S36L	20.2	0.15	K172G	10.945	116.744	353.158	19.075	0.41774	1.39031	2	X
J98S60J	16.1	0.15	K172G	57.580	350.614	20.234	6.736	0.35179	3.23625	6	X
J99T18Z	17.1	0.15	K172G	35.050	128.926	248.674	11.861	0.26813	2.62217	3	X
J99TW8C	17.1	0.15	K172G	64.232	308.332	61.159	6.096	0.34279	2.58682	4	X
J99U05K	16.7	0.15	K172G	57.835	93.856	274.278	25.984	0.44413	2.60080	3	X
J99V00T	19.7	0.15	K172G	57.129	297.735	38.065	14.374	0.48647	2.00211	2	X
K00SU6O	16.8	0.15	K172G	52.374	143.016	261.426	6.055	0.17835	2.47604	6	X
K00W71H	16.5	0.15	K172G	25.231	135.861	261.667	12.178	0.25994	3.05383	5	X
K01FD4U	16.7	0.15	K172G	276.076	331.375	218.258	11.357	0.21877	2.59754	9	X
K01N01Z	18.0	0.15	K172G	174.578	359.704	253.870	24.607	0.40413	2.01651	8	X
K01P00C	16.1	0.15	K172G	55.669	118.401	214.008	32.048	0.30189	2.85528	5	X
K01P44K	16.9	0.15	K172G	127.791	345.362	295.006	5.570	0.13440	2.36730	4	X
K01QL0O	17.1	0.15	K172G	47.189	340.099	14.421	5.376	0.23712	2.41283	7	X
K01R46O	17.8	0.15	K172G	46.738	321.263	21.181	8.815	0.32655	2.40912	3	X
K01SM1W	18.0	0.15	K172G	97.351	295.446	32.601	3.540	0.20896	2.37549	5	X
K01SW3A	16.4	0.15	K172G	101.710	332.516	326.173	9.896	0.30310	2.85702	4	X
K01SZ6P	17.5	0.15	K172G	93.131	292.000	46.357	5.088	0.15712	2.37076	8	X
K01T05O	17.5	0.15	K172G	28.625	303.618	108.583	4.832	0.25965	2.38879	7	X
K01TL2A	17.4	0.15	K172G	80.404	175.496	158.554	9.439	0.20323	2.39418	5	X
K01U25H	16.9	0.15	K172G	50.789	118.869	253.566	9.031	0.24899	2.40527	4	X
K01W43H	17.8	0.15	K172G	63.035	201.041	187.989	3.207	0.19279	2.38428	5	X
K01Y48Q	17.7	0.15	K172G	343.457	161.892	276.868	8.545	0.07165	2.45727	6	X
K02EA4M	16.3	0.15	K172G	179.114	144.772	111.958	11.256	0.13391	2.54495	9	X
K02F31B	16.2	0.15	K172G	295.289	118.481	13.188	10.952	0.12487	3.11985	4	X
K02GJ1E	16.9	0.15	K172G	125.360	87.563	201.609	14.679	0.18926	2.61311	6	X
K02JC5E	16.5	0.15	K172G	179.159	36.343	227.117	12.866	0.14032	2.56696	3	X
K02JF1L	15.7	0.15	K172G	251.435	104.597	84.062	16.941	0.18189	3.16567	3	X
K02L64O	17.5	0.15	K172G	136.693	142.175	142.882	7.498	0.17142	2.23569	7	X
K02N52U	18.4	0.15	K172G	84.125	22.229	306.448	6.171	0.26483	2.26543	3	X
K02N64E	17.3	0.15	K172G	161.855	317.462	302.584	10.986	0.15212	2.65360	7	X
K02N72P	16.7	0.15	K172G	256.160	265.990	270.059	10.184	0.11623	2.63656	6	X
K02O34Q	17.1	0.15	K172G	85.286	46.321	291.438	8.872	0.13146	2.69609	7	X
K02PI6V	17.5	0.15	K172G	55.347	21.797	339.995	8.214	0.22358	2.72512	4	X
K02Q15P	17.5	0.15	K172G	179.841	280.918	335.660	7.663	0.12974	2.23599	6	X
K02Q70S	17.0	0.15	K172G	92.506	167.881	154.695	5.993	0.11872	2.71341	6	X
K02Q86Y	17.9	0.15	K172G	22.239	267.395	141.618	5.225	0.14193	2.27861	6	X
K02QB0Y	18.2	0.15	K172G	134.804	0.507	296.783	6.318	0.10339	2.24167	5	X
K02QE0A	17.1	0.15	K172G	26.404	246.944	158.754	9.181	0.14119	2.71344	5	X

K02QE8Z	17.4	0.15	K172G	113.639	149.544	166.451	9.846	0.07300	2.68832	8 X
K02RC4L	17.5	0.15	K172G	52.829	235.725	120.377	11.456	0.31940	2.74930	5 X
K02RN7F	17.2	0.15	K172G	113.127	298.730	2.630	12.201	0.17150	2.71282	4 X
K02RO0Y	18.6	0.15	K172G	65.529	176.358	191.800	5.938	0.18713	2.26744	3 X
K02RO5A	17.7	0.15	K172G	50.036	9.934	350.537	7.104	0.31300	2.74391	2 X
K02TI2T	18.0	0.15	K172G	72.193	113.506	270.048	5.089	0.16751	2.26082	7 X
K02TU6F	17.0	0.15	K172G	50.313	222.789	151.300	7.397	0.13768	2.75920	6 X
K02Tb7K	17.1	0.15	K172G	359.172	285.174	165.271	8.024	0.20333	2.77500	4 X
K02U77N	16.2	0.15	K172G	83.463	115.975	210.092	19.551	0.22712	2.77469	5 X
K02V42Z	17.9	0.15	K172G	27.386	114.422	270.236	4.646	0.16614	2.32309	9 X
K02VB5H	18.5	0.15	K172G	47.344	261.586	126.547	4.119	0.21301	2.29817	4 X
K02VD6A	16.2	0.15	K172G	81.865	319.814	50.404	11.201	0.22062	2.74788	9 X
K02VD8T	16.5	0.15	K172G	90.205	264.310	73.002	14.795	0.09616	2.78084	8 X
K02W30T	17.0	0.15	K172G	9.394	190.504	235.494	7.030	0.20235	2.80521	5 X
K03B74X	16.7	0.15	K172G	15.406	19.049	85.840	12.249	0.20026	2.80641	5 X
K03N13F	17.2	0.15	K172G	49.749	221.251	144.023	6.577	0.27705	2.60061	3 X
K03Q34T	17.8	0.15	K172G	73.354	183.711	143.893	6.998	0.29466	2.60597	3 X
K03Q72S	17.0	0.15	K172G	101.077	120.446	181.141	12.840	0.27253	2.59663	5 X
K03Q80O	16.8	0.15	K172G	118.887	320.198	341.360	11.215	0.25030	2.56984	6 X
K03QA5P	16.4	0.15	K172G	97.457	340.979	334.666	14.850	0.15243	2.59431	5 X
K03QB5B	17.8	0.15	K172G	107.006	34.653	273.113	5.098	0.22354	2.16018	6 X
K03R16W	16.9	0.15	K172G	45.429	45.115	338.634	13.101	0.17644	2.60415	6 X
K03S06A	17.7	0.15	K172G	28.295	358.153	15.556	15.331	0.29151	2.66263	2 X
K03S44E	17.3	0.15	K172G	63.079	124.218	203.466	11.142	0.30242	2.63193	5 X
K03S85B	18.2	0.15	K172G	28.503	18.785	30.667	13.688	0.48910	2.64857	2 X
K03SD0F	17.1	0.15	K172G	76.085	149.859	196.181	13.529	0.13749	2.60590	5 X
K03SF8L	16.8	0.15	K172G	31.939	358.252	28.190	14.375	0.27306	2.63502	5 X
K03SL7D	17.3	0.15	K172G	32.815	202.731	194.617	7.509	0.29009	2.64271	4 X
K03SO1J	17.6	0.15	K172G	60.393	328.225	7.245	8.304	0.17461	2.64701	4 X
K03SP7O	18.3	0.15	K172G	43.703	341.799	24.268	4.996	0.19605	2.19314	5 X
K03SX4J	17.1	0.15	K172G	329.335	95.197	353.557	8.352	0.02838	2.62478	6 X
K03SY0D	17.2	0.15	K172G	153.266	282.090	354.087	6.182	0.09284	2.58452	8 X
K03Sd2L	17.0	0.15	K172G	12.658	327.270	102.335	5.123	0.13329	2.61940	9 X
K03Sd8Q	16.6	0.15	K172G	69.120	279.920	58.498	14.671	0.14346	2.64999	5 X
K03T45L	17.0	0.15	K172G	23.269	36.908	356.373	11.988	0.18930	2.65347	5 X
K03U23O	16.4	0.15	K172G	75.554	132.391	221.555	14.725	0.17761	2.63108	5 X
K03U90H	17.3	0.15	K172G	25.955	336.929	73.915	5.919	0.20298	2.63175	4 X
K03UD4D	16.7	0.15	K172G	6.585	184.931	232.735	15.699	0.18556	2.65832	6 X
K03UM1M	16.4	0.15	K172G	46.401	338.228	14.139	11.789	0.11694	2.66583	7 X
K03UT9Q	17.4	0.15	K172G	13.569	70.892	32.639	13.345	0.21565	2.59824	5 X
K03W49K	15.9	0.15	K172G	328.796	210.312	239.600	21.160	0.05386	2.67087	6 X
K03W58R	17.1	0.15	K172G	18.222	340.051	57.330	14.109	0.15827	2.68276	3 X
K03WD3K	16.6	0.15	K172G	9.129	170.203	236.007	8.371	0.19839	2.69297	6 X
K03Y02R	18.0	0.15	K172G	18.928	356.626	82.788	23.853	0.07057	1.89685	5 X
K04BE4D	17.1	0.15	K172G	105.439	351.041	311.906	11.393	0.06719	2.80719	5 X
K04CA6N	17.6	0.15	K172G	323.978	163.226	316.133	17.409	0.10621	1.93788	6 X
K04D32R	17.4	0.15	K172G	294.351	178.657	341.547	7.671	0.10008	2.25835	7 X
K04PB7M	16.6	0.15	K172G	85.501	120.624	211.729	8.329	0.18083	3.16513	5 X
K04RO6A	16.5	0.15	K172G	345.665	301.970	160.565	10.364	0.18779	3.17304	6 X
K04U00Z	17.4	0.15	K172G	11.730	16.326	36.690	32.101	0.44312	3.31372	3 X
K04U06H	15.6	0.15	K172G	81.083	318.940	49.404	28.491	0.20390	3.19930	4 X
K04X73B	15.6	0.15	K172G	20.202	230.048	238.839	13.265	0.25065	3.18958	6 X
K05E41E	16.7	0.15	K172G	314.329	62.421	87.183	12.777	0.19435	2.60214	6 X
K05EJ2R	17.2	0.15	K172G	314.237	315.390	176.348	13.231	0.09592	2.64214	6 X
K05G12S	16.7	0.15	K172G	290.296	152.418	11.434	13.906	0.20008	2.65474	6 X
K05G59J	18.2	0.15	K172G	292.259	123.267	25.476	21.767	0.07084	1.85300	7 X
K05GA9U	17.2	0.15	K172G	330.642	280.465	194.204	11.217	0.11334	2.67845	6 X
K05J45P	18.3	0.15	K172G	57.131	339.273	79.980	20.646	0.06368	1.83047	5 X

K05JE7P	18.3	0.15	K172G	138.978	65.544	216.511	22.033	0.13154	1.90113	3 X
K05L27K	18.1	0.15	K172G	194.557	145.323	110.753	7.455	0.09452	2.20506	6 X
K05O27Q	17.1	0.15	K172G	104.980	303.393	356.740	9.747	0.19212	2.31967	7 X
K05Q35Q	17.5	0.15	K172G	87.979	318.361	5.007	6.662	0.14361	2.34243	6 X
K05QC5D	17.1	0.15	K172G	62.245	190.960	162.604	10.208	0.16442	3.01261	4 X
K05QH3A	16.7	0.15	K172G	53.503	148.066	185.580	11.945	0.36338	3.08020	3 X
K05QJ0Q	15.7	0.15	K172G	58.779	71.228	260.184	9.826	0.22293	3.06646	7 X
K05R10R	16.3	0.15	K172G	48.152	187.419	167.765	7.817	0.18768	3.05938	7 X
K05R11Z	17.7	0.15	K172G	49.005	124.957	221.256	3.789	0.28145	2.37712	3 X
K05R52C	15.9	0.15	K172G	63.433	49.102	315.749	18.129	0.13725	3.03180	6 X
K05S50M	17.0	0.15	K172G	26.967	199.223	201.822	15.919	0.13622	3.07371	2 X
K05S51Q	18.0	0.15	K172G	60.711	166.417	195.595	5.173	0.24624	2.36040	4 X
K05S85C	16.0	0.15	K172G	167.606	236.672	13.866	16.688	0.02073	3.05865	5 X
K05SE1S	17.1	0.15	K172G	75.329	147.966	177.757	9.979	0.27653	3.05199	3 X
K05SF3O	17.2	0.15	K172G	52.189	163.967	202.179	7.510	0.21887	3.04535	5 X
K05SH2B	17.1	0.15	K172G	33.293	56.381	319.262	3.111	0.19900	3.08443	4 X
K05SH4U	16.8	0.15	K172G	2.906	92.715	332.853	7.300	0.05634	3.04930	6 X
K05SH8Q	15.6	0.15	K172G	11.056	157.477	243.254	15.420	0.19554	3.10998	5 X
K05SJ8S	18.2	0.15	K172G	39.245	45.635	349.580	4.003	0.22918	2.34264	4 X
K05SL6F	17.8	0.15	K172G	81.226	358.608	346.474	10.977	0.27896	2.33780	3 X
K05SN1U	17.6	0.15	K172G	69.093	130.775	209.994	9.922	0.11745	3.10746	2 X
K05SN2D	18.1	0.15	K172G	72.873	336.679	23.303	11.607	0.24931	2.34824	3 X
K05SN6P	18.0	0.15	K172G	63.615	11.419	334.716	2.366	0.19611	2.37511	3 X
K05SQ9H	15.1	0.15	K172G	48.164	78.735	243.293	13.585	0.10531	3.14770	4 X
K05SS6N	16.9	0.15	K172G	32.028	242.992	145.766	6.647	0.16751	3.07233	5 X
K05SS8D	16.7	0.15	K172G	18.088	312.808	81.068	17.183	0.21970	3.13668	3 X
K05ST0D	17.5	0.15	K172G	14.199	41.868	46.058	7.558	0.33646	3.05178	3 X
K05T00F	20.2	0.15	K172G	27.709	43.447	26.458	3.626	0.45506	1.96405	2 X
K05T29X	16.3	0.15	K172G	67.057	278.646	55.065	12.329	0.32679	3.03751	3 X
K05T90K	16.0	0.15	K172G	30.946	154.415	207.014	19.019	0.17250	3.11551	5 X
K05TC4Z	16.5	0.15	K172G	79.553	144.534	211.558	11.853	0.09069	3.03002	5 X
K05TD5Q	17.9	0.15	K172G	49.185	341.014	41.559	2.228	0.18943	2.34726	3 X
K05TG3L	18.1	0.15	K172G	18.806	55.070	343.751	2.349	0.17768	2.38541	4 X
K05TG8U	18.5	0.15	K172G	52.051	9.664	13.155	1.511	0.19535	2.35659	3 X
K05TH0E	16.6	0.15	K172G	17.533	156.732	228.051	6.447	0.31008	3.14118	3 X
K05TJ1U	17.5	0.15	K172G	52.373	83.406	277.171	5.256	0.13841	2.37215	6 X
K05U59U	16.0	0.15	K172G	37.957	166.495	203.034	10.754	0.10736	3.13023	7 X
K05U74L	15.2	0.15	K172G	52.354	296.626	66.011	12.288	0.23265	3.11838	8 X
K05U91R	16.9	0.15	K172G	9.819	51.761	16.442	9.695	0.12765	3.09393	4 X
K05UB6C	17.6	0.15	K172G	45.506	8.275	39.612	5.625	0.22586	2.35086	5 X
K05UH5K	16.3	0.15	K172G	17.157	153.506	240.197	12.826	0.12479	3.16877	4 X
K05UM9J	17.6	0.15	K172G	46.960	215.956	119.846	2.213	0.22122	3.17394	2 X
K05UO6B	17.6	0.15	K172G	81.303	235.959	132.912	2.955	0.19390	2.33691	6 X
K05UR9X	16.8	0.15	K172G	354.992	230.491	217.187	9.428	0.12548	3.08763	6 X
K05UV2C	16.9	0.15	K172G	140.639	170.310	102.899	2.408	0.09785	3.09199	2 X
K05UX2D	17.1	0.15	K172G	50.046	156.617	219.655	22.800	0.17513	3.09797	3 X
K05UY8Y	16.7	0.15	K172G	48.727	323.388	74.418	16.848	0.25607	3.05130	6 X
K05Ud9L	16.7	0.15	K172G	354.430	195.429	226.112	28.661	0.16534	3.17128	2 X
K05Ui7X	16.2	0.15	K172G	348.440	65.141	19.617	26.080	0.22845	3.11380	4 X
K05Uj5W	17.8	0.15	K172G	52.345	10.453	331.361	5.807	0.34601	2.38125	2 X
K05Uk2M	16.5	0.15	K172G	50.730	251.779	116.069	2.307	0.20664	3.08474	5 X
K05Uk8F	16.9	0.15	K172G	6.948	168.368	246.705	9.762	0.22712	3.14186	4 X
K05Ui2U	18.2	0.15	K172G	34.264	124.877	262.087	4.723	0.13610	2.40148	2 X
K05Um7P	15.9	0.15	K172G	348.803	52.781	342.104	14.361	0.13261	3.18749	6 X
K05Uo1F	17.8	0.15	K172G	50.706	235.864	125.452	10.030	0.23989	2.38572	2 X
K05Up1K	17.3	0.15	K172G	23.816	145.973	234.840	16.186	0.21742	3.16712	3 X
K05Up5G	16.4	0.15	K172G	57.141	276.812	89.348	15.565	0.04952	3.10057	5 X
K05Up9H	17.0	0.15	K172G	26.601	168.954	184.276	18.701	0.21666	3.19212	3 X

K05Uq3T	16.4	0.15	K172G	100.076	134.904	181.694	11.630	0.14683	3.03914	4 X
K05Ur0U	16.5	0.15	K172G	4.328	46.281	0.026	16.604	0.23429	3.14062	4 X
K05V37P	16.3	0.15	K172G	355.064	239.758	221.263	25.924	0.21330	3.06265	3 X
K05V50O	15.8	0.15	K172G	8.897	147.085	250.172	9.790	0.19295	3.12032	4 X
K05V91A	18.1	0.15	K172G	14.021	173.431	248.739	18.020	0.10006	1.97973	3 X
K05V99L	17.7	0.15	K172G	34.843	340.238	28.774	10.940	0.22573	3.12423	2 X
K05W12P	16.2	0.15	K172G	62.239	102.911	232.204	11.875	0.15800	3.17125	5 X
K05W20Z	16.3	0.15	K172G	19.893	131.442	265.892	8.205	0.08390	3.17469	5 X
K05W66D	17.5	0.15	K172G	332.394	28.522	78.565	3.207	0.18664	3.15752	4 X
K05WE0W	17.9	0.15	K172G	339.366	23.365	92.776	10.037	0.21846	2.41985	4 X
K05W11L	16.2	0.15	K172G	9.078	229.226	211.779	14.808	0.22707	3.12310	7 X
K05W14K	16.2	0.15	K172G	6.024	33.231	69.352	13.112	0.25333	3.13527	4 X
K05X09J	16.8	0.15	K172G	1.258	59.358	60.139	17.982	0.25142	3.06843	3 X
K05X62O	18.6	0.15	K172G	27.077	112.625	305.600	1.698	0.17891	2.38465	5 X
K05Y91F	17.7	0.15	K172G	332.762	348.237	124.734	8.375	0.06598	2.44087	6 X
K05YE4K	18.0	0.15	K172G	341.956	153.718	309.854	5.440	0.09609	2.44163	4 X
K06A74G	15.6	0.15	K172G	340.470	161.629	326.720	25.697	0.07708	3.17580	5 X
K06B35S	16.0	0.15	K172G	44.489	325.867	85.650	23.618	0.17450	3.07749	4 X
K06F09O	15.2	0.15	K172G	6.689	66.635	34.749	19.184	0.10189	3.24830	4 X
K06J20D	16.9	0.15	K172G	66.083	270.085	81.982	15.527	0.15403	2.66480	7 X
K06K83N	17.4	0.15	K172G	54.515	94.558	221.331	5.317	0.35340	2.81622	3 X
K06P29S	18.2	0.15	K172G	134.228	147.304	147.562	5.825	0.18793	2.15098	7 X
K06Q33X	16.1	0.15	K172G	70.842	29.638	323.154	12.867	0.11421	2.80327	5 X
K06R18W	17.9	0.15	K172G	46.055	88.087	280.440	6.927	0.22465	2.22620	4 X
K06R36E	18.0	0.15	K172G	53.363	14.238	20.959	8.624	0.30002	2.20448	4 X
K06R38X	17.1	0.15	K172G	61.381	201.700	140.688	9.958	0.27364	2.86154	6 X
K06R91N	17.1	0.15	K172G	66.109	343.001	10.322	12.914	0.12419	2.86807	3 X
K06SB5C	16.8	0.15	K172G	94.480	130.377	187.701	14.899	0.16483	2.84866	5 X
K06SR3L	17.0	0.15	K172G	44.846	353.001	32.248	17.080	0.12887	2.90390	3 X
K06Sa6L	17.7	0.15	K172G	58.677	347.540	25.682	7.938	0.14899	2.23256	3 X
K06Se0P	18.3	0.15	K172G	75.163	331.561	17.227	8.748	0.19833	2.20546	4 X
K06Sf3M	17.4	0.15	K172G	37.496	74.306	311.728	6.768	0.15420	2.22679	5 X
K06T26W	17.5	0.15	K172G	32.642	186.367	214.260	8.823	0.17425	2.89139	3 X
K06T67E	16.3	0.15	K172G	89.037	46.824	262.892	12.247	0.17290	2.88504	5 X
K06UG4F	17.1	0.15	K172G	40.992	199.229	196.482	11.945	0.08954	2.86939	6 X
K06UJ7Q	18.9	0.15	K172G	56.870	146.984	217.299	2.602	0.23435	2.23111	3 X
K06V43O	17.1	0.15	K172G	31.946	30.117	43.747	13.074	0.19029	2.83617	4 X
K06V51J	17.2	0.15	K172G	342.040	201.444	248.092	9.449	0.12817	2.27250	6 X
K06W40F	15.9	0.15	K172G	81.209	253.316	95.057	11.039	0.10744	2.92769	4 X
K06W15Y	16.6	0.15	K172G	29.686	107.265	274.144	11.960	0.24924	2.94171	3 X
K06Y06A	15.8	0.15	K172G	87.330	38.333	264.779	11.844	0.15368	3.08128	5 X
K06Y49R	16.7	0.15	K172G	40.582	10.501	358.343	7.671	0.28939	2.99654	5 X
K07A00B	16.2	0.15	K172G	336.721	30.504	55.970	13.427	0.11540	2.99731	8 X
K07B10T	16.4	0.15	K172G	313.759	151.522	337.370	7.832	0.12837	3.06961	7 X
K07B46O	17.7	0.15	K172G	11.851	321.371	120.990	6.653	0.09781	2.29216	8 X
K07B76N	17.0	0.15	K172G	27.998	76.126	318.471	7.786	0.29720	3.00903	4 X
K07B80Y	16.1	0.15	K172G	62.262	246.093	120.819	11.903	0.13617	3.04229	6 X
K07BA0V	16.5	0.15	K172G	31.780	106.434	312.441	14.855	0.11888	3.02493	6 X
K07C06O	16.6	0.15	K172G	303.189	30.124	110.070	9.644	0.05829	3.04048	5 X
K07C19A	17.6	0.15	K172G	30.210	102.375	170.148	9.589	0.82100	2.81106	5 X
K07C37T	17.3	0.15	K172G	13.459	126.183	325.599	7.967	0.17192	2.97941	6 X
K07C57K	17.6	0.15	K172G	275.415	66.675	92.459	6.370	0.12379	2.33108	4 X
K07C70S	16.8	0.15	K172G	13.836	291.353	131.242	9.862	0.13232	3.07188	5 X
K07DA4S	16.3	0.15	K172G	301.500	353.899	124.832	6.057	0.10297	3.16238	3 X
K07E64N	16.6	0.15	K172G	306.666	178.843	327.463	11.819	0.10666	3.07442	4 X
K07EG0D	18.4	0.15	K172G	356.236	95.102	357.245	6.532	0.15286	2.32563	4 X
K07F03U	17.5	0.15	K172G	297.785	50.990	124.120	8.122	0.17885	2.31018	4 X
K07F34A	16.0	0.15	K172G	102.998	346.571	359.729	8.120	0.17807	3.20437	5 X

K07G58V	16.3	0.15	K172G	275.352	358.700	188.446	10.676	0.16522	3.13984	3 X
K07H79C	18.0	0.15	K172G	318.450	25.545	116.232	8.409	0.20523	2.33907	5 X
K07O01O	17.0	0.15	K172G	109.729	2.369	276.938	12.965	0.23524	2.62094	3 X
K07P43T	16.9	0.15	K172G	48.574	199.049	169.602	8.115	0.25156	2.65648	5 X
K07Q08F	17.5	0.15	K172G	65.235	248.288	114.561	5.271	0.33776	2.64109	4 X
K07R02D	17.5	0.15	K172G	53.359	65.981	254.902	7.161	0.44346	2.69434	2 X
K07RE7V	17.6	0.15	K172G	58.672	331.315	13.386	14.474	0.27531	2.67990	2 X
K07RU2D	17.3	0.15	K172G	9.973	249.194	185.652	5.535	0.11202	2.62785	6 X
K07S06Y	16.9	0.15	K172G	57.928	0.271	23.310	13.426	0.19733	2.64850	6 X
K07T31Q	17.1	0.15	K172G	76.461	233.742	96.794	14.198	0.28473	2.65952	3 X
K07T50B	17.3	0.15	K172G	45.259	168.086	207.347	14.842	0.18589	2.69950	3 X
K07T84W	17.5	0.15	K172G	42.272	60.539	305.219	8.534	0.25712	2.71839	4 X
K07T93V	16.8	0.15	K172G	23.168	337.801	52.490	7.434	0.06219	2.75021	5 X
K07TB2E	17.5	0.15	K172G	13.593	167.317	247.822	6.501	0.31425	2.71638	4 X
K07TD2P	17.9	0.15	K172G	44.028	340.993	45.953	2.852	0.21447	2.69454	4 X
K07TD5E	17.2	0.15	K172G	77.509	320.821	10.670	13.528	0.22021	2.65137	4 X
K07TF8Z	18.1	0.15	K172G	35.873	169.353	206.112	14.144	0.27894	2.70881	2 X
K07TG5D	17.1	0.15	K172G	41.845	129.984	238.327	7.620	0.18834	2.73035	5 X
K07TH1C	17.6	0.15	K172G	358.248	218.270	200.099	12.512	0.22596	2.74011	2 X
K07TK8D	17.2	0.15	K172G	52.752	250.411	111.175	9.748	0.33542	2.69370	4 X
K07TR9J	16.6	0.15	K172G	337.794	256.227	210.463	16.269	0.16033	2.68401	5 X
K07Tc6K	17.6	0.15	K172G	59.884	154.704	215.586	12.098	0.19837	2.69090	4 X
K07Tg6H	17.1	0.15	K172G	39.824	352.431	27.943	16.820	0.05438	2.69690	3 X
K07UC3Z	16.7	0.15	K172G	83.583	306.017	68.057	12.669	0.11163	2.63377	7 X
K07UD6K	17.6	0.15	K172G	36.032	303.317	93.420	8.912	0.26853	2.69492	4 X
K07UE0Z	16.8	0.15	K172G	323.568	216.129	252.668	9.169	0.12306	2.76697	3 X
K07VB6D	17.1	0.15	K172G	13.768	206.729	224.403	11.498	0.15800	2.73215	6 X
K07V4M	20.8	0.15	K172G	11.120	110.152	65.774	23.277	0.52331	1.18213	2 X
K07V8G	16.7	0.15	K172G	359.811	335.550	112.489	10.327	0.27334	2.73635	4 X
K07VJ7S	16.7	0.15	K172G	335.534	248.579	226.868	21.101	0.06692	2.67245	4 X
K07VT2M	17.5	0.15	K172G	49.961	319.827	75.019	10.337	0.31494	2.69275	5 X
K07VV6J	17.0	0.15	K172G	57.304	318.555	80.343	16.994	0.16535	2.74409	4 X
K07VW2W	17.5	0.15	K172G	14.833	167.629	284.230	6.361	0.29375	2.68735	5 X
K08A02G	15.8	0.15	K172G	59.159	350.895	341.860	11.378	0.07391	2.97685	6 X
K08A38J	17.6	0.15	K172G	5.811	301.274	138.910	9.047	0.17286	2.80542	3 X
K08B14U	17.1	0.15	K172G	13.042	137.083	267.684	8.651	0.22215	2.86810	3 X
K08C35T	17.0	0.15	K172G	331.662	137.583	331.353	10.149	0.10321	2.89855	5 X
K08C88B	17.2	0.15	K172G	347.313	323.894	133.260	10.654	0.17458	2.88047	5 X
K08CH6S	17.2	0.15	K172G	332.735	143.420	0.283	13.690	0.22727	2.79719	4 X
K08EG0O	16.9	0.15	K172G	225.230	38.166	170.849	10.226	0.06139	3.02197	5 X
K08F87M	13.6	0.15	K172G	159.141	267.098	52.278	20.876	0.02296	5.20718	5 X
K08FA5Z	16.2	0.15	K172G	312.286	56.067	45.884	10.341	0.04883	3.11586	3 X
K08FB0S	16.4	0.15	K172G	215.086	171.672	28.755	17.330	0.14992	3.15865	3 X
K08G22X	18.3	0.15	K172G	238.835	65.002	149.518	4.433	0.06788	2.20444	4 X
K08G80K	16.5	0.15	K172G	42.328	263.490	126.029	7.481	0.08114	3.06146	4 X
K08H07Y	15.9	0.15	K172G	206.883	130.564	101.221	13.254	0.11454	3.11376	5 X
K08H18B	16.7	0.15	K172G	194.191	92.607	144.977	10.099	0.03875	3.14114	6 X
K08H19P	16.1	0.15	K172G	236.671	354.613	207.729	29.387	0.15163	3.11616	4 X
K08J03M	18.5	0.15	K172G	358.022	54.346	39.176	22.316	0.09078	1.78598	4 X
K08J13M	16.0	0.15	K172G	37.094	308.693	92.381	11.044	0.10883	3.13025	6 X
K08K14E	16.5	0.15	K172G	270.835	62.648	100.281	17.243	0.06407	3.13745	3 X
K08Q43C	17.6	0.15	K172G	58.007	141.704	229.827	21.537	0.08508	1.91440	5 X
K08R28G	17.9	0.15	K172G	23.966	35.812	350.748	20.527	0.07723	1.92064	4 X
K08R79U	18.3	0.15	K172G	64.059	351.495	347.657	19.536	0.10277	1.92166	3 X
K08RA7C	15.6	0.15	K172G	342.303	62.035	14.719	15.013	0.23202	3.99741	4 X
K08S32B	17.3	0.15	K172G	158.060	308.583	320.672	5.932	0.15285	2.44295	6 X
K08SL8L	17.0	0.15	K172G	41.520	30.835	319.581	6.874	0.32124	2.55187	4 X
K08STOP	18.7	0.15	K172G	63.487	340.536	30.454	21.303	0.10155	1.92286	3 X

K08ST1D	17.8	0.15	K172G	100.772	179.613	144.043	3.714	0.15468	2.46850	5 X
K08T90T	18.0	0.15	K172G	350.872	259.308	190.554	6.953	0.24786	2.53131	4 X
K08TB2P	17.5	0.15	K172G	17.116	62.972	310.647	3.902	0.25691	2.56521	4 X
K08TG5O	17.7	0.15	K172G	25.936	177.193	213.846	18.971	0.20384	2.54153	3 X
K08U32P	17.5	0.15	K172G	76.635	124.751	195.182	6.275	0.11526	2.56709	6 X
K08U65Y	17.8	0.15	K172G	359.828	181.321	239.738	13.149	0.16248	2.56191	3 X
K08UA8O	17.3	0.15	K172G	29.569	63.354	316.365	4.782	0.27853	2.55291	3 X
K08UC2X	17.6	0.15	K172G	4.925	157.220	271.656	5.795	0.22074	2.54011	3 X
K08UO5P	17.6	0.15	K172G	30.947	31.376	342.913	3.224	0.16977	2.57944	3 X
K08UW5L	17.3	0.15	K172G	31.774	330.851	51.548	13.561	0.16918	2.56601	3 X
K08UY9R	17.6	0.15	K172G	65.038	91.000	243.170	8.640	0.19595	2.55796	4 X
K08V05A	16.7	0.15	K172G	34.583	74.060	291.278	5.956	0.19641	2.55977	7 X
K08V28Q	15.9	0.15	K172G	7.789	52.101	0.196	15.204	0.29071	3.94665	3 X
K08V54C	17.6	0.15	K172G	313.626	164.347	321.811	4.712	0.18476	2.57120	4 X
K08V57G	17.0	0.15	K172G	55.931	336.341	63.544	5.741	0.18237	2.47009	5 X
K08W73C	17.5	0.15	K172G	22.020	135.912	257.953	7.816	0.16730	2.57879	3 X
K08W94H	16.1	0.15	K172G	322.472	243.525	263.016	27.394	0.40087	2.61026	4 X
K08WC9J	17.4	0.15	K172G	6.121	335.071	104.054	10.869	0.17466	2.57567	4 X
K08X00R	18.2	0.15	K172G	31.022	28.530	58.155	23.548	0.15600	1.90701	5 X
K08X41X	17.5	0.15	K172G	316.074	211.137	292.339	9.309	0.22386	2.58667	4 X
K08Y07M	17.8	0.15	K172G	4.272	168.823	266.570	17.304	0.09702	1.95291	3 X
K08Y43G	16.6	0.15	K172G	111.635	64.117	258.952	5.227	0.11531	2.53275	4 X
K08YA4E	17.0	0.15	K172G	58.668	69.035	298.669	12.487	0.19703	2.61713	5 X
K08YB0Y	18.1	0.15	K172G	20.797	132.865	270.236	12.003	0.26611	2.55372	3 X
K08YD7L	17.0	0.15	K172G	181.205	329.928	282.078	13.548	0.05136	2.64380	4 X
K08YE5S	18.5	0.15	K172G	254.733	259.283	294.857	16.655	0.06530	1.98673	2 X
K08YG5D	17.7	0.15	K172G	3.907	55.634	56.511	9.432	0.25531	2.54335	3 X
K09A13B	18.9	0.15	K172G	21.862	142.607	258.072	4.216	0.34542	2.57598	3 X
K09A15O	16.8	0.15	K172G	47.778	83.324	299.752	15.686	0.27916	2.55139	4 X
K09B03J	17.0	0.15	K172G	5.979	156.997	268.793	13.005	0.24209	2.59690	3 X
K09B07K	17.4	0.15	K172G	21.091	256.301	164.030	5.706	0.29299	2.56730	5 X
K09B18S	17.4	0.15	K172G	2.367	134.363	282.636	7.538	0.09533	2.64802	4 X
K09B29A	16.9	0.15	K172G	78.174	6.743	346.776	1.720	0.13222	2.63398	6 X
K09B77T	17.0	0.15	K172G	14.478	104.486	330.022	14.018	0.22493	2.58235	4 X
K09B96H	16.4	0.15	K172G	219.643	90.109	129.651	10.402	0.11086	2.72858	5 X
K09B98G	16.9	0.15	K172G	51.769	273.345	104.881	12.384	0.15711	2.61433	4 X
K09BF3M	17.7	0.15	K172G	349.317	119.121	322.553	5.608	0.16868	2.64689	6 X
K09BI6L	17.2	0.15	K172G	153.558	132.458	152.528	3.752	0.04802	2.68026	5 X
K09C18H	16.6	0.15	K172G	188.139	307.513	304.883	12.585	0.14343	2.72139	3 X
K09C41Q	17.2	0.15	K172G	359.736	130.287	308.965	6.551	0.06679	2.64781	3 X
K09C59C	17.0	0.15	K172G	316.713	318.968	185.347	12.145	0.20514	2.68518	5 X
K09D25L	17.1	0.15	K172G	5.927	294.171	144.128	12.547	0.08165	2.66527	3 X
K09D88J	16.9	0.15	K172G	334.998	327.031	145.496	9.702	0.17647	2.67332	5 X
K09D90Y	17.8	0.15	K172G	324.210	158.617	327.014	7.461	0.15762	2.65990	4 X
K09DB0J	16.8	0.15	K172G	223.235	233.802	343.385	8.094	0.10046	2.71822	6 X
K09DD6S	16.8	0.15	K172G	336.051	58.201	88.238	8.761	0.13718	2.60292	6 X
K09E07C	17.1	0.15	K172G	315.747	9.881	129.885	14.353	0.11154	2.64998	3 X
K09F22P	16.9	0.15	K172G	250.764	54.593	141.690	9.364	0.18441	2.77094	4 X
K09F25C	16.7	0.15	K172G	292.216	13.503	153.911	9.588	0.20946	2.68917	5 X
K09F52D	16.7	0.15	K172G	226.331	61.675	151.384	9.374	0.07683	2.79921	4 X
K09F66Y	16.6	0.15	K172G	335.506	96.399	52.258	27.458	0.27265	2.64040	4 X
K09H88F	19.4	0.15	K172G	348.010	283.163	222.523	24.830	0.51067	2.57694	3 X
K09H96T	17.0	0.15	K172G	248.062	62.685	143.200	5.998	0.08687	2.80559	5 X
K09J05T	17.1	0.15	K172G	327.117	102.217	62.910	27.165	0.40315	2.61581	3 X
K09P10S	18.1	0.15	K172G	83.637	186.573	157.947	7.835	0.18999	2.21925	4 X
K09Q00E	17.2	0.15	K172G	8.842	101.355	290.473	4.624	0.16622	2.30729	7 X
K09R26W	18.2	0.15	K172G	54.546	202.613	182.418	5.373	0.17391	2.25578	5 X
K09R29B	18.1	0.15	K172G	285.106	185.374	339.660	7.398	0.02041	2.22976	5 X

K09R42A	18.0	0.15	K172G	64.316	19.785	326.910	5.824	0.18557	2.28716	5 X
K09S26J	19.0	0.15	K172G	38.125	38.219	353.742	2.607	0.20704	2.28032	3 X
K09S28C	18.4	0.15	K172G	68.354	327.828	16.943	5.379	0.16869	2.28541	4 X
K09S29X	18.6	0.15	K172G	25.001	242.361	177.484	6.550	0.20070	2.27320	4 X
K09S66K	17.9	0.15	K172G	21.843	15.698	48.331	4.512	0.11084	2.26913	4 X
K09S70Q	18.3	0.15	K172G	5.000	290.430	162.161	6.697	0.21903	2.27879	5 X
K09S98K	15.1	0.15	K172G	34.871	155.762	272.382	17.629	0.10937	3.35510	9 X
K09SA8D	18.4	0.15	K172G	52.609	189.060	200.344	5.448	0.15677	2.28129	4 X
K09SE3C	18.2	0.15	K172G	90.960	143.225	188.646	6.539	0.26687	2.25082	3 X
K09SR9T	18.4	0.15	K172G	43.637	237.799	162.368	5.882	0.11208	2.25691	3 X
K09SV7P	18.2	0.15	K172G	101.480	160.053	136.707	2.309	0.21696	2.30132	4 X
K09SX6H	19.2	0.15	K172G	72.700	150.363	190.056	2.857	0.21298	2.27700	2 X
K09V03M	17.2	0.15	K172G	3.585	238.195	221.888	23.059	0.25226	2.28215	5 X
K09V07J	18.0	0.15	K172G	20.291	97.757	276.523	3.420	0.20507	2.37200	4 X
K09V25Y	19.6	0.15	K172G	53.966	28.385	295.622	4.334	0.48308	2.32655	2 X
K09V94E	17.5	0.15	K172G	66.720	336.762	58.395	6.357	0.10518	2.25602	4 X
K09W23Q	18.1	0.15	K172G	30.271	130.880	266.476	9.156	0.21957	2.33902	2 X
K09W82X	18.1	0.15	K172G	46.075	63.139	302.117	4.703	0.25307	2.33114	2 X
K09W91Z	17.4	0.15	K172G	68.697	338.905	8.405	6.251	0.13094	2.33604	8 X
K09WL4H	17.5	0.15	K172G	59.899	104.079	248.054	20.513	0.33272	2.27848	3 X
K09X06K	17.7	0.15	K172G	32.464	69.332	286.659	4.896	0.33319	2.34687	4 X
K10A73O	18.5	0.15	K172G	11.398	193.543	223.493	3.268	0.19259	2.35999	5 X
K10B01H	17.9	0.15	K172G	31.543	261.465	141.760	6.531	0.21675	2.36243	3 X
K10CL4B	16.2	0.15	K172G	110.785	286.858	331.902	16.120	0.06175	2.87703	6 X
K10CM5W	16.9	0.15	K172G	56.287	68.630	225.920	22.629	0.49581	3.13844	3 X
K10CO9R	17.3	0.15	K172G	28.682	286.178	134.320	9.334	0.12377	2.38035	5 X
K10F06L	18.5	0.15	K172G	353.486	74.718	67.446	7.817	0.29568	2.34280	5 X
K10JH7Q	16.4	0.15	K172G	46.600	249.143	144.477	11.945	0.01540	2.54579	9 X
K10L57N	16.0	0.15	K172G	95.919	304.266	348.679	21.029	0.25362	3.10804	3 X
K10L64T	16.5	0.15	K172G	338.192	262.436	215.084	12.385	0.12515	2.58274	8 X
K10LA1M	16.0	0.15	K172G	57.202	68.963	300.165	20.580	0.16550	3.08231	5 X
K10LD2F	16.7	0.15	K172G	56.992	291.916	59.827	10.585	0.32044	3.15342	5 X
K10M17H	16.8	0.15	K172G	63.645	156.826	201.482	12.897	0.21139	3.09523	3 X
K10M21H	16.2	0.15	K172G	358.641	66.852	358.987	25.525	0.26877	3.20094	5 X
K10M71U	15.8	0.15	K172G	39.163	290.670	95.203	16.289	0.08197	3.11975	4 X
K10N17N	16.3	0.15	K172G	34.591	34.004	4.216	14.400	0.28783	3.16817	4 X
K10N54T	16.6	0.15	K172G	99.835	79.944	221.373	9.076	0.22380	3.15290	7 X
K10P02X	15.4	0.15	K172G	79.474	303.352	55.999	28.065	0.16223	3.10737	4 X
K10P81B	16.3	0.15	K172G	79.832	38.342	309.712	14.524	0.21955	3.08414	6 X
K10Q07E	15.7	0.15	K172G	53.251	76.726	292.542	13.045	0.05256	3.14260	5 X
K10R57W	16.9	0.15	K172G	44.234	188.821	189.280	11.574	0.12628	3.10306	4 X
K10RA8X	16.5	0.15	K172G	83.514	329.178	6.029	12.457	0.07596	3.12722	3 X
K10RA9T	15.9	0.15	K172G	42.698	71.630	293.887	8.126	0.10752	3.16105	7 X
K10RF4B	16.2	0.15	K172G	119.333	321.651	338.234	8.022	0.05678	3.14252	4 X
K10RH2B	16.6	0.15	K172G	358.729	266.024	185.732	14.271	0.21696	3.13413	4 X
K10R11U	16.3	0.15	K172G	90.366	16.177	308.391	9.553	0.15959	3.07097	7 X
K10R13R	16.5	0.15	K172G	2.512	237.558	210.449	15.818	0.18076	3.12704	6 X
K10S35Z	16.3	0.15	K172G	39.326	106.642	262.813	9.888	0.06866	3.12977	5 X
K10T08N	16.4	0.15	K172G	91.555	300.113	357.988	8.148	0.23108	3.17817	3 X
K10T21Q	16.8	0.15	K172G	35.592	19.103	16.221	10.937	0.06253	3.14798	3 X
K10T57A	16.9	0.15	K172G	42.273	26.073	353.714	9.331	0.09146	3.18596	5 X
K10T60M	15.7	0.15	K172G	242.359	264.083	323.502	8.596	0.03359	2.90660	9 X
K10TA0C	16.6	0.15	K172G	13.862	225.534	186.997	15.791	0.08986	3.17185	4 X
K10U08Q	18.2	0.15	K172G	23.291	54.803	33.557	20.612	0.07336	2.01912	6 X
K10U86R	16.9	0.15	K172G	31.278	230.828	168.858	4.434	0.17755	3.21055	7 X
K10V32E	16.5	0.15	K172G	10.882	227.078	205.805	10.298	0.10952	3.21853	6 X
K10V90C	15.3	0.15	K172G	345.530	169.427	254.219	8.390	0.05335	3.49774	7 X
K10VL5A	15.9	0.15	K172G	204.800	338.831	258.424	9.770	0.02691	3.12223	5 X

K10X72X	22.0	0.15	K172G	256.256	334.397	279.067	4.482	0.28339	0.90304	2 X
K11B07F	17.8	0.15	K172G	84.719	22.256	303.787	5.876	0.19255	2.21685	6 X
K11B72Z	17.7	0.15	K172G	44.226	113.900	267.302	6.002	0.10131	2.23932	8 X
K11B74A	17.0	0.15	K172G	49.504	38.303	293.884	6.125	0.13218	2.37965	8 X
K11CB4L	17.9	0.15	K172G	37.307	212.097	176.040	8.287	0.11001	2.24780	4 X
K11E78C	17.6	0.15	K172G	190.082	267.433	337.500	7.024	0.08583	2.29441	5 X
K11F05X	17.3	0.15	K172G	22.161	13.540	20.908	26.060	0.21203	2.28598	4 X
K11F15O	17.1	0.15	K172G	85.585	298.430	13.892	6.872	0.12693	2.43075	3 X
K11F73D	17.4	0.15	K172G	172.690	110.921	154.831	9.188	0.18238	2.33672	9 X
K11J08Q	16.1	0.15	K172G	80.325	218.354	91.056	13.844	0.24813	2.61001	7 X
K11J12U	16.3	0.15	K172G	131.321	262.714	56.948	26.070	0.13251	2.37417	4 X
K11J26E	17.0	0.15	K172G	53.415	202.113	147.628	4.659	0.26070	2.58544	3 X
K11J31S	16.7	0.15	K172G	100.364	175.939	94.549	9.061	0.17707	2.54950	3 X
K11L02L	20.0	0.15	K172G	273.586	163.570	68.260	24.676	0.09633	1.13392	3 X
K11M01X	17.1	0.15	K172G	118.455	183.816	118.986	5.917	0.21424	2.52323	7 X
K11M04W	16.9	0.15	K172G	112.332	183.494	115.453	8.684	0.19020	2.61833	6 X
K11O11A	17.6	0.15	K172G	56.897	99.364	285.782	11.508	0.27173	2.64060	4 X
K11O59U	17.1	0.15	K172G	116.828	272.723	12.344	12.309	0.34547	2.69568	5 X
K11Q09E	16.3	0.15	K172G	50.475	327.343	18.086	15.470	0.15178	2.86134	3 X
K11Q27W	15.8	0.15	K172G	150.448	344.936	283.319	12.110	0.23406	2.62011	12 X
K11Q34A	16.4	0.15	K172G	95.548	47.811	266.880	12.454	0.19397	2.74607	5 X
K11Q50J	17.5	0.15	K172G	15.291	228.236	179.192	7.659	0.18872	2.80415	5 X
K11Q63B	16.5	0.15	K172G	64.705	144.576	212.481	15.643	0.23222	2.74729	6 X
K11R17X	17.7	0.15	K172G	346.759	279.468	191.120	8.660	0.19975	2.72456	6 X
K11R19K	16.5	0.15	K172G	171.081	318.060	322.023	14.095	0.10747	2.58293	5 X
K11R19R	17.3	0.15	K172G	46.165	93.948	290.808	16.533	0.29632	2.75863	5 X
K11S19Y	15.8	0.15	K172G	77.882	55.442	267.052	14.021	0.15403	2.84144	7 X
K11S26M	16.0	0.15	K172G	106.194	69.027	239.349	25.567	0.27897	2.75831	5 X
K11S39N	17.5	0.15	K172G	40.304	51.097	321.367	14.882	0.19016	2.79110	3 X
K11S58D	17.1	0.15	K172G	313.567	299.613	200.108	12.808	0.09994	2.59591	8 X
K11S63S	17.4	0.15	K172G	78.323	140.874	201.534	9.050	0.24570	2.74327	5 X
K11SN2K	17.0	0.15	K172G	48.835	35.632	296.693	14.345	0.25845	2.96922	3 X
K11SP0Y	15.6	0.15	K172G	103.336	304.439	354.001	12.780	0.16424	2.97597	9 X
K11SP4C	17.1	0.15	K172G	99.337	354.924	0.112	4.869	0.12588	2.71339	7 X
K11SR5F	16.5	0.15	K172G	358.674	7.005	25.584	11.555	0.10370	2.94623	6 X
K11T11V	16.5	0.15	K172G	47.725	28.925	29.273	13.567	0.16467	2.69330	4 X
K11U72D	16.3	0.15	K172G	154.172	63.170	221.787	14.999	0.14092	2.73661	7 X
K11U77S	16.8	0.15	K172G	21.452	19.408	354.390	3.911	0.14774	3.04376	6 X
K11U82W	16.4	0.15	K172G	36.774	42.087	308.426	3.039	0.33320	2.99880	5 X
K11UA2T	16.4	0.15	K172G	31.516	16.628	359.225	6.226	0.13239	3.03514	7 X
K11UA6Q	16.6	0.15	K172G	21.666	35.756	346.000	8.378	0.25188	2.97513	3 X
K11UA6U	18.8	0.15	K172G	10.975	242.016	251.906	9.935	0.48148	1.82627	5 X
K11UB2V	16.4	0.15	K172G	65.046	282.892	55.248	11.443	0.09891	3.02716	3 X
K11UE6F	16.4	0.15	K172G	286.181	238.806	250.970	9.219	0.06717	3.10273	5 X
K11UH0E	16.3	0.15	K172G	268.906	284.577	232.995	11.311	0.08539	2.84963	8 X
K11U2U	16.6	0.15	K172G	31.002	120.097	251.953	14.386	0.15843	3.04941	3 X
K11UI3A	15.7	0.15	K172G	162.870	356.012	244.440	15.527	0.08676	3.13674	5 X
K11UI6C	16.6	0.15	K172G	99.798	283.687	71.590	12.561	0.12882	2.72953	9 X
K11UJ9M	16.2	0.15	K172G	344.157	164.395	266.792	9.094	0.06690	3.07486	8 X
K11UK0L	16.6	0.15	K172G	346.228	163.221	272.963	6.775	0.15472	3.04717	3 X
K11UO6U	16.8	0.15	K172G	334.202	239.009	229.309	13.602	0.26058	2.99625	3 X
K11UQ9V	17.2	0.15	K172G	24.821	30.157	51.186	9.646	0.13665	2.75851	5 X
K11UV7D	16.6	0.15	K172G	37.802	129.316	240.869	8.093	0.04488	3.05555	5 X
K11UW6O	16.1	0.15	K172G	54.219	267.167	67.072	14.105	0.27305	3.06256	4 X
K11UW7W	16.7	0.15	K172G	93.408	2.114	346.932	13.572	0.10574	2.75121	3 X
K11UX5L	16.3	0.15	K172G	41.837	24.914	20.485	13.308	0.16277	2.78451	6 X
K11Ua8R	15.9	0.15	K172G	222.500	30.844	193.161	11.213	0.03672	2.85594	11 X
K11Uc3O	16.9	0.15	K172G	33.600	348.231	26.710	14.530	0.17558	2.98990	2 X

K11Ue2F	18.7	0.15	K172G	338.391	255.130	233.458	20.775	0.07398	1.83982	4 X
K11Ue2J	17.6	0.15	K172G	249.187	135.512	50.453	23.578	0.05584	1.89195	5 X
K11V06T	16.1	0.15	K172G	92.859	341.205	349.825	10.062	0.08837	2.87336	11 X
K11V18W	16.7	0.15	K172G	53.018	102.067	230.472	5.207	0.13280	3.06127	6 X
K11V21X	16.7	0.15	K172G	35.864	314.109	58.458	16.029	0.20589	2.96380	4 X
K11W17S	16.5	0.15	K172G	43.835	117.475	246.408	15.572	0.15765	3.02827	2 X
K11W20C	16.1	0.15	K172G	1.548	162.438	245.824	11.410	0.15678	3.08358	3 X
K11W20X	15.9	0.15	K172G	69.794	87.120	245.655	14.311	0.02847	3.14017	6 X
K11W35V	15.6	0.15	K172G	271.740	277.783	230.754	9.966	0.06341	3.11305	8 X
K11W40T	15.9	0.15	K172G	62.618	86.100	249.634	9.920	0.08891	3.13632	6 X
K11W46P	19.9	0.15	K172G	100.945	250.481	63.832	32.122	0.37997	1.82994	2 W
K11W46X	16.2	0.15	K172G	311.415	199.132	273.104	11.721	0.07983	3.05158	6 X
K11W53R	15.5	0.15	K172G	356.239	167.181	254.917	10.298	0.04861	3.06212	9 X
K11W73X	16.0	0.15	K172G	66.479	334.526	4.787	8.822	0.12372	2.99729	9 X
K11W88N	15.8	0.15	K172G	333.669	24.207	75.093	20.788	0.09465	3.05287	5 X
K11W96H	18.4	0.15	K172G	272.109	267.261	269.583	18.977	0.05466	1.86140	4 X
K11WB6L	15.9	0.15	K172G	222.272	286.145	280.428	9.188	0.01411	3.01825	8 X
K11WF1Y	16.2	0.15	K172G	121.317	61.471	280.226	15.335	0.06342	2.72098	5 X
K11X01B	19.3	0.15	K172G	131.526	88.582	230.544	20.546	0.08064	1.84717	2 W
K11Y05A	17.7	0.15	K172G	9.751	158.434	269.100	9.217	0.23603	2.97999	3 X
K11Y19E	16.5	0.15	K172G	29.180	317.877	93.604	15.940	0.11678	3.05813	3 X
K11Y20O	15.9	0.15	K172G	308.597	22.838	118.571	13.823	0.09838	3.14054	4 X
K11Y21W	15.7	0.15	K172G	337.766	184.802	271.784	24.197	0.19449	3.13511	4 X
K11Y21X	15.9	0.15	K172G	331.090	200.344	261.733	11.618	0.18179	3.15592	5 X
K11Y46U	15.9	0.15	K172G	3.295	109.881	321.677	8.308	0.08093	3.17885	6 X
K11Y69F	16.0	0.15	K172G	332.277	351.315	121.506	11.805	0.16940	3.14960	4 X
K11Y72N	17.0	0.15	K172G	18.128	109.162	314.419	17.613	0.25327	3.04609	3 X
K12A03Q	15.4	0.15	K172G	27.122	308.298	107.585	17.409	0.04788	3.10296	6 X
K12A03Z	16.0	0.15	K172G	301.271	27.463	109.980	11.121	0.09526	3.18682	5 X
K12A14Y	16.6	0.15	K172G	6.652	304.885	129.655	12.859	0.11055	3.15363	4 X
K12A17T	16.4	0.15	K172G	350.300	81.408	357.582	15.580	0.23430	3.19017	3 X
K12A20Z	15.2	0.15	K172G	144.831	330.757	310.880	14.127	0.06493	3.23929	8 X
K12B12P	17.1	0.15	K172G	23.239	281.613	126.908	10.256	0.36768	3.05212	3 X
K12B16V	15.8	0.15	K172G	259.552	90.246	94.230	16.008	0.04273	3.16473	5 X
K12B24X	16.2	0.15	K172G	289.545	257.023	289.584	9.474	0.06548	3.02332	6 X
K12B31R	16.2	0.15	K172G	341.915	134.689	322.698	16.201	0.18873	3.14719	5 X
K12B33W	15.8	0.15	K172G	46.863	53.223	327.779	13.073	0.15558	3.14440	6 X
K12B37N	15.7	0.15	K172G	302.188	209.337	316.225	16.802	0.15653	3.14819	9 X
K12B39S	16.4	0.15	K172G	312.396	29.753	110.731	13.943	0.10944	3.15129	6 X
K12B67Y	16.5	0.15	K172G	5.901	134.016	293.260	10.558	0.20898	3.14325	3 X
K12B74L	15.9	0.15	K172G	311.573	346.142	147.445	13.177	0.12508	3.19951	4 X
K12B89Q	16.7	0.15	K172G	13.910	306.395	119.543	12.824	0.24406	3.05744	3 X
K12B95B	16.4	0.15	K172G	357.305	105.465	328.233	15.380	0.25450	3.14826	3 X
K12BA3T	15.7	0.15	K172G	322.255	180.724	330.490	19.169	0.09889	3.17062	6 X
K12BC4Q	16.1	0.15	K172G	10.860	113.647	308.792	15.538	0.22418	3.16121	4 X
K12BD6N	16.3	0.15	K172G	321.728	313.381	189.366	16.634	0.19029	3.16363	5 X
K12BE2E	17.4	0.15	K172G	118.370	280.761	28.961	20.945	0.07866	1.99220	3 X
K12C18R	16.0	0.15	K172G	307.545	277.153	262.590	14.171	0.17431	3.10005	3 X
K12C22Y	16.3	0.15	K172G	25.306	248.538	165.065	10.848	0.11841	3.22738	3 X
K12D17N	16.8	0.15	K172G	92.684	274.800	353.243	23.043	0.27176	2.27064	4 X
K12D85R	16.8	0.15	K172G	339.650	139.505	349.336	14.247	0.22115	3.19343	6 X
K12G27A	17.8	0.15	K172G	296.234	308.767	222.365	20.034	0.07457	1.98788	5 X
K12H17U	17.4	0.15	K172G	121.778	200.448	84.763	6.560	0.19255	2.21047	9 X
K12K45K	18.1	0.15	K172G	324.842	277.306	226.895	16.460	0.15556	2.01167	4 X
K12K48M	17.7	0.15	K172G	114.904	269.985	52.857	6.964	0.13550	2.15733	8 X
K12L02A	17.7	0.15	K172G	79.156	234.287	93.743	11.235	0.28141	2.30337	4 X
K12L07K	18.1	0.15	K172G	121.719	186.954	118.101	8.491	0.25572	2.21172	5 X
K12L23K	17.8	0.15	K172G	116.086	202.238	94.879	9.106	0.13280	2.22165	6 X

K12N00W	18.0	0.15	K172G	120.656	197.900	105.786	5.336	0.22886	2.21836	6	X
K12P01M	17.6	0.15	K172G	278.117	261.498	251.662	6.287	0.09835	2.31013	5	X
K12P15R	17.0	0.15	K172G	19.971	176.656	253.606	5.873	0.18813	2.32321	7	X
K12P35H	17.5	0.15	K172G	91.629	198.073	124.633	8.950	0.22781	2.37275	5	X
K12P36V	17.7	0.15	K172G	72.820	49.367	284.042	5.183	0.14614	2.39714	6	X
K12Q16T	17.5	0.15	K172G	106.640	323.476	324.921	9.787	0.22677	2.38647	5	X
K12Q20K	18.4	0.15	K172G	104.875	151.206	170.979	4.880	0.16894	2.33834	5	X
K12R01G	17.3	0.15	K172G	103.978	321.356	336.582	5.860	0.18723	2.39295	7	X
K12R08O	16.5	0.15	K172G	112.223	338.349	308.143	5.585	0.12139	2.42476	8	X
K12R08W	17.7	0.15	K172G	108.045	12.410	297.759	6.754	0.19376	2.37386	6	X
K12R09D	16.7	0.15	K172G	20.361	177.708	239.001	11.435	0.26148	2.43609	6	X
K12R30L	17.7	0.15	K172G	52.971	6.477	354.197	7.613	0.18650	2.43011	2	X
K12R30T	18.4	0.15	K172G	44.083	287.593	88.619	4.665	0.25102	2.44704	3	X
K12R40J	17.0	0.15	K172G	47.139	5.526	13.437	12.070	0.27085	2.41719	3	X
K12R42E	17.3	0.15	K172G	42.580	139.930	210.028	12.927	0.27483	2.59693	3	X
K12R43C	17.7	0.15	K172G	79.294	222.417	129.037	7.480	0.13525	2.37079	5	X
K12S00P	16.8	0.15	K172G	50.080	355.694	318.514	8.711	0.29568	2.60946	4	X
K12S22A	18.0	0.15	K172G	37.182	125.775	265.269	29.176	0.49542	2.54459	2	X
K12S40K	17.3	0.15	K172G	116.315	325.830	342.157	5.504	0.12537	2.37134	8	X
K12S44K	16.9	0.15	K172G	332.197	141.231	328.887	6.543	0.06234	2.37959	8	X
K12T13K	17.5	0.15	K172G	66.332	284.041	83.673	8.920	0.10650	2.42652	4	X
K12T57O	17.4	0.15	K172G	43.897	28.966	20.944	5.366	0.22256	2.41687	6	X
K12T78Q	19.4	0.15	K172G	348.828	118.965	51.962	11.383	0.38364	1.20124	3	X
K12TA0K	18.0	0.15	K172G	58.779	108.402	263.255	4.128	0.20709	2.44659	4	X
K12TA3M	17.9	0.15	K172G	137.073	290.466	0.715	6.715	0.11688	2.39942	5	X
K12TB5T	17.4	0.15	K172G	128.820	322.398	331.636	6.952	0.10904	2.43483	6	X
K12TD2V	18.0	0.15	K172G	80.025	200.995	156.419	7.068	0.12647	2.37222	3	X
K12TE8V	17.2	0.15	K172G	81.159	276.604	46.305	15.092	0.13205	2.55880	4	X
K12TF0V	17.4	0.15	K172G	55.830	335.363	21.261	15.506	0.12093	2.53448	3	X
K12TF2A	18.3	0.15	K172G	37.628	357.419	44.372	3.159	0.18879	2.46388	3	X
K12TG9X	16.8	0.15	K172G	35.459	335.482	30.055	12.926	0.21098	2.58627	3	X
K12T7M	16.7	0.15	K172G	63.243	288.200	54.171	14.461	0.13241	2.62228	3	X
K12TJ7D	18.1	0.15	K172G	43.159	21.597	349.952	2.822	0.16062	2.55889	3	X
K12TM3L	17.6	0.15	K172G	84.751	229.838	98.327	10.094	0.20788	2.46266	8	X
K12TN2V	17.0	0.15	K172G	11.693	144.832	243.916	5.315	0.32430	2.60237	3	X
K12TP5E	17.6	0.15	K172G	24.902	35.125	352.799	4.837	0.24986	2.55961	3	X
K12TU1D	17.1	0.15	K172G	47.462	351.637	55.409	7.586	0.20293	2.37620	6	X
K12TU4C	16.7	0.15	K172G	8.469	27.237	25.817	18.762	0.26921	2.58366	3	X
K12TV0K	16.7	0.15	K172G	65.723	82.638	280.337	13.215	0.13697	2.44266	6	X
K12TV0Z	16.5	0.15	K172G	23.941	65.187	301.859	11.035	0.27004	2.61040	5	X
K12TV4G	17.3	0.15	K172G	66.826	300.858	81.430	3.886	0.21659	2.40811	6	X
K12TV6E	16.3	0.15	K172G	343.766	288.517	113.884	8.540	0.16854	2.67509	6	X
K12TW2M	16.2	0.15	K172G	24.446	55.992	337.930	14.532	0.14454	2.55196	5	X
K12U31A	17.2	0.15	K172G	353.133	182.849	216.958	11.320	0.18072	2.68325	3	X
K12U34A	19.7	0.15	K172G	219.108	222.344	19.049	19.808	0.80159	0.78600	3	X
K12U52B	17.6	0.15	K172G	356.239	273.914	175.592	9.860	0.13068	2.47438	6	X
K12U84F	17.5	0.15	K172G	32.585	286.278	108.743	5.945	0.15539	2.52363	4	X
K12U87X	17.2	0.15	K172G	18.392	141.519	226.486	12.592	0.27899	2.66554	3	X
K12UA3A	17.0	0.15	K172G	1.431	32.307	56.089	5.549	0.02789	2.44197	6	X
K12UA7J	16.4	0.15	K172G	163.159	14.629	241.228	11.261	0.05644	2.52076	3	X
K12UG5S	16.8	0.15	K172G	331.115	94.529	332.439	12.175	0.15919	2.69949	4	X
K12UH1K	24.6	0.15	K172G	274.241	357.582	251.073	1.328	0.22226	0.85964	2	X
K12V24Z	16.8	0.15	K172G	327.047	204.552	257.035	12.395	0.13272	2.65776	5	X
K12V36W	18.5	0.15	K172G	8.646	219.061	257.468	20.704	0.03503	1.55348	4	X
K12V43P	17.0	0.15	K172G	15.479	137.887	250.419	11.057	0.32345	2.62490	3	X
K12V50A	17.5	0.15	K172G	136.106	105.702	199.507	7.123	0.04063	2.42537	8	X
K12V60H	17.2	0.15	K172G	114.999	269.105	61.892	9.365	0.02297	2.46436	5	X
K12V64U	17.8	0.15	K172G	328.089	193.799	299.944	1.474	0.13475	2.40346	5	X

K12V86X	16.4	0.15	K172G	260.814	124.079	41.366	14.847	0.13259	2.66162	6 X
K12VA5O	16.6	0.15	K172G	58.041	336.795	17.715	15.643	0.15272	2.55983	4 X
K12VA8R	16.8	0.15	K172G	46.996	46.715	286.935	5.175	0.12952	2.73896	6 X
K12W04K	21.3	0.15	K172G	138.597	161.894	151.039	4.290	0.30750	1.20505	3 X
K12W27E	17.7	0.15	K172G	23.671	30.188	7.198	2.384	0.13835	2.61843	5 X
K12W33D	17.7	0.15	K172G	347.590	248.635	204.793	28.994	0.35714	2.61193	3 X
K12W34Q	17.4	0.15	K172G	27.108	146.840	245.061	7.681	0.13513	2.64031	4 X
K12W35H	16.5	0.15	K172G	341.513	187.709	266.497	11.447	0.20366	2.66445	5 X
K12X02S	16.4	0.15	K172G	40.774	131.344	241.005	21.062	0.10090	2.63477	3 X
K12X05U	16.3	0.15	K172G	2.929	200.111	240.022	30.912	0.05956	2.55107	4 X
K12X30K	17.8	0.15	K172G	26.366	149.682	258.684	13.819	0.23160	2.54947	3 X
K12X34N	16.4	0.15	K172G	340.862	170.551	250.172	6.804	0.24286	2.74588	7 X
K12X40R	17.5	0.15	K172G	338.978	222.465	258.877	9.394	0.15185	2.54815	6 X
K12X44Z	17.4	0.15	K172G	124.237	229.003	66.428	5.675	0.05692	2.65640	7 X
K12X45L	16.7	0.15	K172G	8.605	94.968	335.767	6.932	0.11196	2.56347	7 X
K12X46A	16.3	0.15	K172G	10.569	86.917	346.805	10.304	0.10767	2.54758	5 X
K12X53A	16.9	0.15	K172G	313.571	35.450	102.102	13.918	0.16041	2.71040	5 X
K12X53C	17.2	0.15	K172G	342.086	21.875	97.660	14.861	0.18260	2.61725	5 X
K12X54G	17.7	0.15	K172G	34.120	267.166	100.223	7.956	0.47771	2.60090	3 X
K12X54L	16.9	0.15	K172G	1.121	169.932	259.737	12.928	0.16583	2.60059	5 X
K12X54R	19.0	0.15	K172G	19.040	161.418	265.727	20.517	0.45178	2.53421	2 X
K12X57D	16.9	0.15	K172G	83.702	74.879	238.731	14.197	0.17500	2.63200	4 X
K12X64L	17.2	0.15	K172G	40.505	133.877	222.904	13.125	0.11547	2.71914	3 X
K12X67P	16.4	0.15	K172G	214.658	125.240	107.976	14.171	0.06318	2.54457	8 X
K12X67W	17.2	0.15	K172G	13.556	27.909	27.355	13.571	0.23901	2.59026	3 X
K12X87B	17.4	0.15	K172G	89.060	249.839	62.844	14.610	0.18504	2.60371	4 X
K12X88P	16.8	0.15	K172G	14.445	164.982	239.447	9.295	0.02666	2.63598	6 X
K12XA3W	17.0	0.15	K172G	25.029	96.546	301.283	5.154	0.19541	2.58853	4 X
K12XA6B	16.6	0.15	K172G	22.442	108.472	300.316	7.613	0.05818	2.74220	7 X
K12XB6S	16.9	0.15	K172G	17.836	156.958	245.069	11.536	0.08546	2.63341	4 X
K12XB9H	16.6	0.15	K172G	296.872	223.380	296.935	11.084	0.19844	2.69275	8 X
K12XC1D	15.8	0.15	K172G	117.619	131.621	186.127	11.994	0.12934	2.52170	9 X
K12XC6H	16.9	0.15	K172G	36.402	86.769	273.826	6.924	0.23470	2.61841	3 X
K12XF2T	17.4	0.15	K172G	48.469	336.273	65.516	8.207	0.24929	2.54940	4 X
K12XF4M	16.7	0.15	K172G	331.311	295.473	171.046	12.254	0.15143	2.59282	9 X
K12Y01M	16.9	0.15	K172G	18.872	143.895	254.227	13.015	0.26811	2.60410	3 X
K12Y03A	18.2	0.15	K172G	6.076	222.762	229.688	31.483	0.34514	2.54153	2 X
K13A01M	17.0	0.15	K172G	18.537	315.511	97.769	13.646	0.17086	2.67668	6 X
K13A09B	17.0	0.15	K172G	34.418	323.114	89.212	12.798	0.03781	2.66840	7 X
K13A18W	16.7	0.15	K172G	310.800	256.317	297.702	27.119	0.35275	2.60163	4 X
K13A21Y	17.8	0.15	K172G	19.597	144.507	283.038	2.661	0.20052	2.55035	6 X
K13A40X	17.2	0.15	K172G	354.557	313.337	136.029	5.742	0.08272	2.74605	7 X
K13A43X	18.2	0.15	K172G	15.901	29.514	62.768	4.734	0.23754	2.58812	6 X
K13A53W	16.7	0.15	K172G	358.809	101.995	289.524	7.547	0.17562	2.80085	9 X
K13A56N	17.6	0.15	K172G	33.930	76.274	317.194	12.363	0.27999	2.64882	5 X
K13A57N	17.7	0.15	K172G	319.262	26.122	109.895	12.780	0.19970	2.70904	4 X
K13A68A	16.9	0.15	K172G	352.496	130.893	320.945	7.125	0.19628	2.78161	5 X
K13A77G	17.2	0.15	K172G	27.906	359.890	65.824	8.599	0.34257	2.56987	3 X
K13A95J	16.6	0.15	K172G	296.788	227.427	283.474	3.967	0.02932	2.74548	9 X
K13AA1B	17.1	0.15	K172G	39.257	10.336	58.503	12.735	0.15335	2.53107	4 X
K13AA1V	16.2	0.15	K172G	27.047	315.002	74.766	7.770	0.06901	2.86294	10 X
K13AA5F	16.7	0.15	K172G	3.903	110.822	314.759	7.511	0.27993	2.77872	6 X
K13AB7V	16.9	0.15	K172G	25.881	60.996	347.453	7.079	0.08757	2.76955	7 X
K13AC8J	16.1	0.15	K172G	36.093	242.979	152.377	9.641	0.16883	2.77998	8 X
K13AE2L	16.9	0.15	K172G	28.019	135.943	238.173	16.365	0.17345	2.87070	4 X
K13AH4U	15.2	0.15	K172G	269.644	235.125	237.925	15.101	0.07034	3.15881	11 X
K13B10A	17.1	0.15	K172G	56.638	290.647	94.141	7.588	0.03814	2.72076	7 X
K13B38H	17.1	0.15	K172G	4.193	125.944	289.935	8.850	0.11832	2.80980	3 X

K13B66T	17.1	0.15	K172G	18.785	126.993	287.620	7.363	0.10453	2.74079	5 X
K13B80E	16.3	0.15	K172G	10.793	141.234	286.273	8.616	0.10502	2.73638	7 X
K13B80S	17.1	0.15	K172G	13.163	53.608	20.126	12.387	0.27800	2.62600	5 X
K13C04A	17.4	0.15	K172G	359.822	145.969	286.536	6.898	0.20326	2.75670	4 X
K13C10Q	16.5	0.15	K172G	314.161	111.508	350.589	9.506	0.06538	2.98795	9 X
K13C12A	16.3	0.15	K172G	51.101	13.307	344.306	9.965	0.11521	3.01983	6 X
K13C19M	16.9	0.15	K172G	285.069	70.563	111.556	11.984	0.19051	2.69569	5 X
K13C54V	17.0	0.15	K172G	6.476	119.063	356.060	14.297	0.17562	2.65109	3 X
K13C63D	16.0	0.15	K172G	23.158	100.217	288.277	9.789	0.04726	3.03290	8 X
K13C72A	16.0	0.15	K172G	116.471	345.274	304.872	11.157	0.07062	3.06282	6 X
K13C82B	16.5	0.15	K172G	49.178	93.279	282.645	9.711	0.07036	2.97225	4 X
K13CA3F	16.2	0.15	K172G	153.240	154.628	121.265	10.996	0.07599	3.00360	7 X
K13CA3K	16.4	0.15	K172G	21.166	298.877	122.819	9.584	0.14212	2.76652	5 X
K13CA4M	15.9	0.15	K172G	75.574	348.248	351.890	9.339	0.10017	3.03223	5 X
K13CB4N	17.9	0.15	K172G	354.101	188.572	269.210	8.230	0.29609	2.66976	2 X
K13CC4K	17.1	0.15	K172G	341.816	338.517	127.015	6.682	0.00900	2.71553	6 X
K13CC6D	15.8	0.15	K172G	325.091	342.664	141.000	11.028	0.02864	2.93313	12 X
K13CJ0S	15.8	0.15	K172G	119.948	357.416	295.044	11.636	0.13484	3.11957	4 X
K13CJ4D	16.3	0.15	K172G	25.901	282.122	105.427	11.651	0.06363	3.02132	8 X
K13CK6R	18.0	0.15	K172G	14.701	259.432	175.685	3.606	0.27035	2.67262	3 X
K13CL5V	16.2	0.15	K172G	103.054	20.392	299.071	11.713	0.06416	3.02536	7 X
K13D09H	16.2	0.15	K172G	123.381	11.259	288.107	10.355	0.06807	3.08707	8 X
K13D12G	15.8	0.15	K172G	228.490	227.768	347.103	14.763	0.08231	2.87366	8 X
K13E44G	15.9	0.15	K172G	34.680	42.456	346.151	9.115	0.08702	3.10639	9 X
K13E81W	17.4	0.15	K172G	312.023	140.286	1.723	7.991	0.17674	2.88267	6 X
K13E87P	16.1	0.15	K172G	350.044	9.520	62.020	11.169	0.10041	3.10538	5 X
K13EB4B	16.4	0.15	K172G	307.400	7.854	123.711	13.010	0.08379	3.03618	5 X
K13EC6W	16.1	0.15	K172G	314.550	90.619	89.324	25.418	0.22591	2.71031	6 X
K13F07C	17.0	0.15	K172G	350.251	124.448	17.050	13.303	0.18984	2.68738	3 X
K13F14R	15.8	0.15	K172G	252.757	62.167	122.515	9.661	0.11694	3.15993	3 X
K13G06S	15.4	0.15	K172G	192.620	240.413	11.245	26.569	0.15759	3.18426	4 X
K13G38O	17.0	0.15	K172G	0.674	334.496	122.808	9.547	0.25494	2.73479	5 X
K13G64F	15.7	0.15	K172G	232.339	49.991	153.302	10.754	0.04610	3.24785	8 X
K13GB3U	15.5	0.15	K172G	191.234	51.164	201.631	18.563	0.11441	3.20540	7 X
K13GC9X	17.3	0.15	K172G	305.120	319.830	198.662	8.825	0.15324	2.79844	5 X
K13H10N	16.9	0.15	K172G	295.889	71.639	99.565	11.466	0.20220	2.91010	5 X
K13HC5M	16.6	0.15	K172G	326.352	158.019	306.945	6.164	0.21922	3.12366	5 X
K13J52D	15.6	0.15	K172G	297.781	101.073	35.198	26.266	0.17646	3.18522	3 X
K13J62P	16.3	0.15	K172G	298.555	308.887	213.213	14.511	0.17564	3.09072	3 X
K13L29B	18.6	0.15	K172G	100.190	229.022	94.131	24.150	0.10549	1.87439	2 X
K13Q46X	17.7	0.15	K172G	332.156	192.672	278.126	18.358	0.06950	1.94238	5 X
K13Q46Y	18.2	0.15	K172G	305.003	290.636	211.088	20.268	0.09578	1.94302	5 X
K13U01X	17.2	0.15	K172G	148.588	233.937	88.015	23.582	0.08084	1.91978	9 X
K13W71M	18.2	0.15	K172G	5.501	2.715	62.535	8.075	0.07668	2.16822	3 X
K13Y17V	18.4	0.15	K172G	347.322	324.126	135.535	4.764	0.13063	2.24710	5 X
K13Y29B	17.5	0.15	K172G	15.472	317.498	98.616	8.197	0.11604	2.25523	8 X
K13Y68G	17.1	0.15	K172G	304.968	7.298	119.964	6.799	0.07375	2.38422	6 X
K13Y69M	17.6	0.15	K172G	332.559	3.406	115.155	5.956	0.04720	2.27936	7 X
K13Y70W	17.1	0.15	K172G	281.745	255.021	273.271	22.116	0.23476	2.26807	4 X
K13Y91E	17.4	0.15	K172G	104.729	37.248	291.279	7.067	0.06174	2.37731	7 X
K13Y93Z	17.8	0.15	K172G	41.971	69.781	313.586	7.119	0.13408	2.27920	6 X
K13YB4Z	16.3	0.15	K172G	174.411	302.445	292.943	9.024	0.16373	2.55448	9 X
K13YC7E	18.4	0.15	K172G	48.867	296.953	72.351	6.246	0.19954	2.23516	3 X
K14A27L	17.3	0.15	K172G	166.350	279.217	348.400	6.834	0.09169	2.27942	8 X
K14B13P	18.3	0.15	K172G	351.474	326.768	115.204	3.531	0.11977	2.32098	4 X
K14B24W	16.4	0.15	K172G	78.890	38.944	287.381	11.880	0.11607	2.59988	7 X
K14B61K	18.0	0.15	K172G	332.734	10.578	96.877	4.184	0.13630	2.32390	4 X
K14C17J	17.8	0.15	K172G	334.657	335.788	131.530	4.233	0.14258	2.34958	4 X

K14C20B	17.5	0.15	K172G	309.699	57.025	95.100	6.695	0.11817	2.24472	7	X
K14D08B	17.8	0.15	K172G	49.082	232.217	152.062	6.344	0.11894	2.27387	8	X
K14D100	17.8	0.15	K172G	321.996	346.684	136.435	6.364	0.16699	2.34105	3	X
K14D21N	16.4	0.15	K172G	252.686	198.013	349.370	8.453	0.05821	2.59937	7	X
K14D35S	18.2	0.15	K172G	2.800	63.414	14.465	7.665	0.19420	2.34300	3	X
K14D41P	17.4	0.15	K172G	294.490	183.996	325.365	6.599	0.06156	2.35522	5	X
K14D77M	16.0	0.15	K172G	86.750	194.207	137.460	10.397	0.16677	2.75693	10	X
K14D97H	16.5	0.15	K172G	204.948	113.300	123.903	5.156	0.03714	2.52101	10	X
K14DB3P	17.8	0.15	K172G	314.088	309.996	170.701	5.527	0.10726	2.41127	5	X
K14DB6L	17.0	0.15	K172G	66.062	218.683	152.986	12.177	0.06269	2.52138	3	X
K14DC1L	17.3	0.15	K172G	27.506	254.672	166.409	10.723	0.11639	2.33985	9	X
K14DC9L	18.2	0.15	K172G	17.686	307.724	124.104	3.092	0.16710	2.31198	6	X
K14DE2M	17.9	0.15	K172G	357.942	156.747	305.510	5.954	0.23074	2.24784	4	X
K14E17P	18.3	0.15	K172G	341.374	3.425	105.046	5.452	0.16949	2.32128	3	X
K14E22A	16.8	0.15	K172G	74.489	191.742	156.729	5.326	0.20134	2.56768	6	X
K14E22W	17.5	0.15	K172G	225.817	64.178	161.719	6.169	0.05481	2.44947	7	X
K14E23W	16.8	0.15	K172G	283.593	130.325	13.310	13.243	0.10535	2.60522	7	X
K14E48K	17.5	0.15	K172G	41.457	10.440	65.162	7.132	0.10367	2.22589	5	X
K14F17N	17.3	0.15	K172G	312.233	212.579	301.745	1.789	0.15691	2.32594	8	X
K14F47U	16.0	0.15	K172G	271.328	184.224	338.741	7.377	0.12161	2.58088	8	X
K14F53R	17.1	0.15	K172G	269.110	352.688	187.584	15.425	0.14544	2.56841	5	X
K14G13B	16.4	0.15	K172G	287.770	150.653	352.854	9.027	0.06737	2.59402	8	X
K14G38X	16.6	0.15	K172G	64.328	199.512	140.986	6.455	0.07656	2.90542	4	X
K14G40P	14.9	0.15	K172G	119.463	194.253	99.812	14.535	0.11229	3.12905	11	X
K14G44J	14.9	0.15	K172G	134.829	209.112	78.021	18.692	0.17822	3.09118	10	X
K14G47F	16.1	0.15	K172G	325.962	139.820	324.268	13.071	0.11703	2.56817	11	X
K14H24K	17.4	0.15	K172G	257.121	162.540	24.170	7.672	0.11818	2.57951	3	X
K14H61B	16.8	0.15	K172G	3.902	246.754	195.842	12.522	0.14932	2.54389	6	X
K14H63Y	17.8	0.15	K172G	316.192	9.816	123.757	4.521	0.05760	2.56790	3	X
K14HB0P	16.7	0.15	K172G	248.423	28.471	175.514	9.130	0.12487	2.62200	9	X
K14HB9H	17.2	0.15	K172G	60.068	239.731	139.831	6.967	0.06591	2.77360	5	X
K14HE4S	16.7	0.15	K172G	351.080	55.674	19.031	22.505	0.03483	2.65292	5	X
K14HF5K	17.2	0.15	K172G	294.789	313.577	209.450	12.680	0.07396	2.54887	6	X
K14HF8Z	17.0	0.15	K172G	340.066	344.800	92.689	6.991	0.05967	2.92274	7	X
K14HG7M	16.1	0.15	K172G	84.910	229.601	103.597	11.622	0.09209	3.14058	5	X
K14HH1Q	16.0	0.15	K172G	105.570	165.923	135.480	9.138	0.21219	3.22804	8	X
K14HJ4Z	15.8	0.15	K172G	162.581	185.936	82.639	14.662	0.15342	3.02011	7	X
K14HJ5B	15.5	0.15	K172G	135.406	59.906	234.673	26.682	0.13266	3.04842	5	X
K14J10Y	16.3	0.15	K172G	42.925	4.218	57.081	33.707	0.16874	2.59780	5	X
K14J17B	15.8	0.15	K172G	99.808	235.214	83.897	20.675	0.04375	3.12987	6	X
K14J27C	16.1	0.15	K172G	90.013	234.392	94.618	17.398	0.09057	3.08109	7	X
K14J27J	15.7	0.15	K172G	100.216	214.571	111.228	17.646	0.14835	3.10542	5	X
K14J41N	16.8	0.15	K172G	90.653	333.295	49.276	14.787	0.07678	2.59960	7	X
K14J43S	16.0	0.15	K172G	49.564	237.874	151.838	6.738	0.09454	2.93966	11	X
K14J43V	16.2	0.15	K172G	152.424	230.696	84.753	10.669	0.09869	2.75589	8	X
K14J45D	16.1	0.15	K172G	57.102	146.061	221.735	10.713	0.14868	3.01481	9	X
K14J67L	16.8	0.15	K172G	231.649	1.715	215.426	11.301	0.04709	2.78121	5	X
K14K20K	16.2	0.15	K172G	158.083	178.097	91.240	17.871	0.09850	3.08411	6	X
K14K20L	15.6	0.15	K172G	94.363	214.224	121.165	10.585	0.07114	3.10246	9	X
K14K26P	16.8	0.15	K172G	139.823	151.001	140.988	4.568	0.08407	3.04496	5	X
K14K36H	16.7	0.15	K172G	257.343	88.686	97.701	13.435	0.12200	2.66149	6	X
K14K42B	16.6	0.15	K172G	122.420	210.057	95.401	18.121	0.09496	3.09355	4	X
K14K56U	16.5	0.15	K172G	171.007	124.691	139.519	9.215	0.07122	3.02519	8	X
K14K59O	16.5	0.15	K172G	9.049	13.232	90.192	22.913	0.02091	2.67035	5	X
K14K66P	15.7	0.15	K172G	124.181	77.027	231.272	15.369	0.12783	3.20106	9	X
K14K67D	16.4	0.15	K172G	135.728	211.229	86.414	10.539	0.07942	3.06538	6	X
K14K72L	16.6	0.15	K172G	300.056	306.998	197.245	10.860	0.03533	2.91381	6	X
K14K87R	16.9	0.15	K172G	228.902	130.631	87.640	15.077	0.09980	2.71442	4	X

K14K93F	16.6	0.15	K172G	346.695	272.317	171.878	9.733	0.02023	3.08023	7 X
K14K99S	15.8	0.15	K172G	134.069	106.175	182.595	15.985	0.07128	3.17805	9 X
K14KA0D	16.4	0.15	K172G	197.089	128.244	101.641	14.533	0.10730	3.04533	5 X
K14M19E	20.7	0.15	K172G	21.144	359.648	102.975	21.224	0.13136	1.39183	2 W
K14M48E	16.5	0.15	K172G	273.222	335.775	210.564	13.559	0.10738	2.72683	6 X
K14M60C	15.8	0.15	K172G	358.023	8.038	102.339	12.976	0.07977	3.07931	6 X
K14N03F	20.5	0.15	K172G	321.580	195.245	354.328	13.526	0.49383	1.29888	2 X
K14N17T	16.4	0.15	K172G	186.169	131.690	110.359	12.621	0.07256	3.16712	5 X
K14Wa8L	19.4	0.15	K172G	33.861	163.983	257.022	7.953	0.23472	1.66851	4 X
K15AO5Z	16.8	0.15	K172G	189.950	357.886	252.296	68.918	0.73273	1.85660	3 X
K15B24F	17.6	0.15	K172G	126.788	354.940	309.734	19.805	0.03254	1.87534	5 X
K15DH5R	15.8	0.15	K172G	89.492	11.322	250.102	13.364	0.23154	3.03613	5 X
K15DI0N	16.9	0.15	K172G	124.886	88.232	193.469	23.198	0.29345	2.30125	3 X
K15DK8U	17.1	0.15	K172G	91.529	237.537	75.839	8.718	0.18599	2.42838	3 X
K15E00D	17.7	0.15	K172G	298.580	107.786	22.912	20.291	0.02770	1.91090	4 X
K15F34X	17.8	0.15	K172G	13.816	47.879	25.622	19.196	0.13598	1.86207	3 X
K15F44C	17.6	0.15	K172G	101.292	220.801	80.380	5.650	0.13608	2.41960	5 X
K15F75V	17.7	0.15	K172G	312.115	108.414	21.972	20.769	0.06831	1.97671	4 X
K15FB2T	18.0	0.15	K172G	158.121	277.944	342.964	3.407	0.11698	2.15272	5 X
K15FU4D	17.1	0.15	K172G	110.155	127.346	170.890	13.201	0.27557	2.66069	5 X
K15FY1F	17.6	0.15	K172G	34.460	146.231	270.718	20.570	0.07066	1.87225	6 X
K15G29B	17.6	0.15	K172G	108.388	295.575	3.093	7.917	0.16462	2.26617	3 X
K15G45Y	18.4	0.15	K172G	87.440	84.656	278.463	18.400	0.11787	1.91303	4 X
K15H61C	16.6	0.15	K172G	114.545	112.913	198.167	13.923	0.19300	2.56788	3 X
K15H62G	17.1	0.15	K172G	141.418	174.347	93.085	7.068	0.10196	2.41307	3 X
K15H66J	17.4	0.15	K172G	155.632	321.556	278.523	1.859	0.13557	2.40377	11 X
K15H67F	18.4	0.15	K172G	98.003	82.439	217.782	11.216	0.18239	2.51746	5 X
K15HE8N	17.5	0.15	K172G	92.430	326.279	357.645	4.299	0.10139	2.31501	5 X
K15HG8X	18.1	0.15	K172G	147.492	241.629	22.369	2.421	0.16612	2.32707	7 X
K15HH2E	16.9	0.15	K172G	146.585	337.173	275.459	9.806	0.19652	2.37147	3 X
K15J05X	16.5	0.15	K172G	109.718	4.516	297.731	7.453	0.22356	2.53502	7 X
K15K06F	17.5	0.15	K172G	77.536	197.037	145.511	8.890	0.23386	2.56960	3 X
K15K09X	17.2	0.15	K172G	113.609	195.678	113.614	11.312	0.15924	2.42318	4 X
K15K36J	17.1	0.15	K172G	160.497	183.608	94.477	7.202	0.10034	2.43282	10 X
K15K74F	17.6	0.15	K172G	71.106	191.945	158.924	6.852	0.16635	2.39418	3 X
K15KC3M	17.3	0.15	K172G	96.187	236.865	77.328	10.640	0.12036	2.40917	3 X
K15KC3R	16.4	0.15	K172G	51.876	163.489	154.623	5.624	0.20390	3.05977	3 X
K15L11D	16.1	0.15	K172G	82.187	264.467	88.970	25.078	0.31347	2.88112	4 X
K15L23P	17.2	0.15	K172G	121.866	66.389	224.910	12.726	0.17647	2.57430	6 X
K15L30J	17.2	0.15	K172G	75.523	254.139	102.763	12.777	0.07386	2.69319	5 X
K15L31H	16.1	0.15	K172G	111.733	8.842	278.313	9.714	0.09762	3.14106	7 X
K15L35D	16.2	0.15	K172G	196.866	312.013	268.423	4.601	0.01550	2.77596	8 X
K15M03H	17.0	0.15	K172G	162.015	245.604	21.656	10.018	0.11467	2.52148	4 X
K15M04R	16.8	0.15	K172G	110.716	71.971	275.636	13.319	0.15073	2.47187	4 X
K15M08S	16.1	0.15	K172G	183.506	311.094	273.735	12.897	0.07308	2.97043	6 X
K15M28T	16.1	0.15	K172G	55.290	59.775	268.292	8.570	0.28686	3.01205	2 X
K15M33L	17.3	0.15	K172G	136.121	181.836	103.319	14.910	0.15656	2.34786	6 X
K15M51J	16.6	0.15	K172G	92.694	233.803	98.710	15.615	0.07307	3.11233	4 X
K15M53D	16.7	0.15	K172G	147.145	316.264	315.128	6.830	0.19965	2.64614	6 X
K15M57O	16.8	0.15	K172G	105.473	224.956	109.008	11.360	0.06936	2.59527	4 X
K15M58P	16.5	0.15	K172G	74.121	243.468	109.004	10.854	0.14673	2.94599	6 X
K15M58V	16.1	0.15	K172G	27.079	288.299	119.528	9.105	0.03130	2.69575	8 X
K15M66F	16.3	0.15	K172G	115.711	171.146	131.136	9.940	0.09052	2.87348	5 X
K15M67N	15.6	0.15	K172G	106.023	28.542	252.075	11.219	0.21773	3.28053	3 X
K15M77L	15.3	0.15	K172G	98.938	33.951	271.661	16.062	0.20532	3.14603	6 X
K15M79Z	17.3	0.15	K172G	108.039	94.632	269.414	7.784	0.02942	2.24922	8 X
K15M81Y	17.8	0.15	K172G	281.307	270.407	267.285	6.386	0.08449	2.27874	6 X
K15M84M	15.8	0.15	K172G	186.062	313.879	273.242	9.081	0.02638	2.98023	8 X

K15M84T	17.0	0.15	K172G	349.342	332.605	136.436	6.898	0.10967	2.39683	8 X
K15MA3G	16.3	0.15	K172G	88.502	19.715	304.219	8.647	0.04476	3.06588	4 X
K15MBOC	15.9	0.15	K172G	106.007	194.078	103.568	5.276	0.10924	3.12567	6 X
K15MB8N	15.7	0.15	K172G	98.875	206.983	113.422	14.087	0.07178	3.07816	5 X
K15MC9X	15.8	0.15	K172G	86.636	217.247	115.185	11.663	0.09212	3.10161	6 X
K15N23P	17.0	0.15	K172G	126.487	191.014	107.647	5.214	0.20282	2.71075	6 X
K15O06D	16.6	0.15	K172G	186.370	82.006	159.932	11.642	0.18646	2.51952	7 X
K15O14E	16.3	0.15	K172G	63.530	234.793	122.656	11.191	0.09949	3.09856	8 X
K15O15D	16.4	0.15	K172G	38.322	51.805	335.745	9.547	0.08696	3.05574	3 X
K15O18G	16.2	0.15	K172G	44.129	53.520	325.717	8.544	0.09863	3.16504	8 X
K15O65V	16.1	0.15	K172G	214.050	303.712	281.619	9.106	0.10559	2.69813	7 X
K15O67P	16.2	0.15	K172G	46.092	214.658	160.995	10.904	0.14939	3.12114	6 X
K15O75P	16.2	0.15	K172G	251.299	237.274	336.098	13.853	0.06471	2.55923	9 X
K15P34R	17.5	0.15	K172G	256.364	318.403	265.443	17.524	0.03910	1.95361	7 X
K15P40M	15.4	0.15	K172G	1.245	320.951	106.340	9.495	0.13490	3.45323	5 X
K15P42W	16.4	0.15	K172G	4.612	327.534	108.821	12.618	0.06665	2.99852	8 X
K15P43G	15.4	0.15	K172G	115.070	209.298	97.582	12.248	0.06128	3.17028	4 X
K15P47O	16.2	0.15	K172G	305.315	131.033	356.578	11.942	0.04970	3.06893	5 X
K15P75W	16.4	0.15	K172G	41.872	65.341	312.212	10.801	0.14346	3.19695	3 X
K15P81M	16.7	0.15	K172G	96.393	10.720	310.267	8.210	0.12530	3.03054	4 X
K15P82G	17.2	0.15	K172G	111.665	179.520	142.357	3.115	0.09087	2.75453	8 X
K15PE2V	16.3	0.15	K172G	100.236	226.912	105.920	10.981	0.10871	2.86915	7 X
K15PG3Y	17.3	0.15	K172G	146.647	246.051	42.963	2.739	0.04991	2.67882	8 X
K15PH4T	16.6	0.15	K172G	6.452	307.587	121.086	10.117	0.06440	3.06833	5 X
K15PT0H	16.8	0.15	K172G	56.566	330.835	83.560	13.146	0.11396	2.74487	7 X
K15PV1P	16.2	0.15	K172G	359.602	148.802	282.308	9.985	0.11459	2.97959	3 X
K15R37P	15.7	0.15	K172G	40.780	51.854	11.586	21.839	0.08644	3.17171	4 X
K15TQ5G	16.7	0.15	K172G	100.607	125.788	249.083	5.306	0.07193	2.79371	5 X
K16F14W	20.8	0.15	K172G	110.853	330.214	335.024	12.083	0.43935	1.48399	2 X
K16GL6U	18.7	0.15	K172G	60.119	11.875	264.005	20.780	0.71977	2.45740	2 X
K16M00R	16.6	0.15	K172G	40.975	37.848	316.271	14.335	0.33404	2.74051	4 X
K16N16T	17.1	0.15	K172G	45.390	314.617	346.421	10.705	0.48683	2.96456	2 X
K16N22Q	17.0	0.15	K172G	32.836	141.765	223.888	8.891	0.34320	2.69551	4 X
K16O01C	17.2	0.15	K172G	38.360	338.678	21.139	7.366	0.39512	2.59444	3 X
K16P05Y	17.5	0.15	K172G	5.465	69.619	322.613	6.530	0.08289	2.17192	3 X
K16P67M	16.4	0.15	K172G	37.658	125.753	193.853	16.180	0.23822	3.13946	3 X
K16P77W	15.9	0.15	K172G	59.898	334.084	339.458	16.387	0.14783	3.06761	4 X
K16P78T	17.1	0.15	K172G	41.786	11.108	345.874	9.646	0.21451	2.57930	2 X
K16Q06Q	16.3	0.15	K172G	27.747	41.574	303.515	8.959	0.11515	3.05908	3 X
K16Q09B	17.0	0.15	K172G	9.316	97.266	284.803	8.049	0.19999	2.55253	3 X
K16Q55K	17.0	0.15	K172G	23.743	80.851	273.478	7.847	0.15981	2.69366	5 X
K16Q75K	15.6	0.15	K172G	41.679	128.110	194.160	26.251	0.16104	3.12729	6 X
K16Q78V	16.9	0.15	K172G	14.806	136.885	228.487	10.049	0.29782	3.16844	3 X
K16R00Q	16.9	0.15	K172G	43.494	25.526	334.983	15.449	0.37156	2.66262	5 X
K16R01L	16.4	0.15	K172G	29.062	268.135	114.073	10.488	0.32233	2.72145	3 X
K16R03Q	17.1	0.15	K172G	39.460	54.627	286.827	5.155	0.15356	2.48150	7 X
K16R13C	18.1	0.15	K172G	1.158	113.766	289.743	4.678	0.24095	2.39163	4 X
K16R16U	16.3	0.15	K172G	301.279	143.061	318.340	8.782	0.04305	3.06466	8 X
K16S35Q	18.4	0.15	K172G	56.393	299.924	27.065	30.090	0.38243	2.56838	2 X
K16S44U	17.3	0.15	K172G	40.615	351.160	21.348	14.105	0.17421	2.61980	2 X
K16T09P	16.0	0.15	K172G	355.144	61.643	15.074	13.617	0.27361	3.18710	4 X
K16T13A	16.1	0.15	K172G	28.353	95.656	287.142	10.838	0.19123	3.10447	7 X
K16T16Z	16.7	0.15	K172G	93.757	314.778	348.961	12.417	0.19546	2.69557	4 X
K16T25O	16.3	0.15	K172G	70.684	61.194	261.570	11.745	0.18960	2.66826	4 X
K16T48B	18.2	0.15	K172G	44.250	224.324	151.618	4.258	0.28220	2.31088	3 X
K16T55U	17.9	0.15	K172G	302.353	259.500	243.344	18.522	0.14001	1.84217	5 X

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K16L10Z	20.0	0.15	K172G	54.389	97.887	223.114	4.724	0.48533	2.20806	168	X
K16L47Y	19.8	0.15	K172G	47.438	80.078	251.977	4.993	0.51614	2.48756	170	X
K16L48X	19.3	0.15	K172G	28.916	4.020	327.281	5.576	0.69052	3.22722	167	X
K16N00X	19.4	0.15	K172G	31.663	205.613	101.876	11.120	0.62168	3.35925	145	X
K16N15D	20.2	0.15	K172G	47.010	9.100	343.658	4.826	0.40738	2.20058	142	X
K16N16P	19.3	0.15	K172G	30.021	213.611	121.545	8.017	0.55285	2.61502	141	X
K16N23D	18.5	0.15	K172G	36.060	268.198	83.433	5.224	0.51588	2.74522	137	X
K16N55Q	19.8	0.15	K172G	31.923	234.206	117.121	16.008	0.47906	2.35710	137	X
K16O00N	19.2	0.15	K172G	40.739	339.852	14.995	7.674	0.48704	2.27491	124	X
K16O01K	20.0	0.15	K172G	28.413	139.173	247.410	13.729	0.60364	2.17084	117	X
K16Q84E	20.1	0.15	K172G	350.934	356.841	149.186	35.105	0.39619	1.15617	114	X
K16R20C	20.3	0.15	K172G	49.947	185.839	194.228	30.692	0.36446	1.67128	80	X
K16R20E	23.2	0.15	K172G	42.132	247.902	160.994	5.320	0.36633	1.64439	78	X
K16R33R	19.3	0.15	K172G	82.854	213.568	63.076	6.889	0.42868	2.15217	103	X
K16R34D	27.6	0.15	K172G	134.735	11.037	349.618	1.958	0.03478	1.04603	73	X
K16S02K	25.3	0.15	K172G	125.090	290.979	355.312	15.472	0.39348	1.36061	32	X
K16T02K	14.9	0.15	K172G	6.900	5.332	323.377	92.343	0.55191	9.18643	135	X
K16T17Z	21.2	0.15	K172G	34.361	31.952	308.967	3.990	0.62158	2.70485	48	X
K16T56A	17.9	0.15	K172G	352.604	359.653	173.872	32.414	0.78350	2.68563	49	X
K16U25Y	21.2	0.15	K172G	16.900	57.790	21.699	18.142	0.30862	1.78219	35	X
K16U36N	23.8	0.15	K172G	35.303	168.094	264.356	2.563	0.35395	1.60693	31	X
K16U40Y	21.8	0.15	K172G	26.535	63.956	14.308	21.006	0.39937	1.67347	30	X
K16U41M	19.8	0.15	K172G	358.213	222.530	248.766	9.747	0.53188	2.61293	31	X
K16U41P	21.7	0.15	K172G	270.162	335.886	250.257	5.352	0.19442	1.08116	30	X
K16U41W	20.9	0.15	K172G	355.799	269.856	213.476	19.826	0.38391	1.74398	30	X
K16U42B	20.9	0.15	K172G	26.216	37.917	22.930	22.312	0.37912	1.92948	28	X
K16UA1F	21.7	0.15	K172G	34.541	18.525	317.181	10.122	0.63118	2.67764	26	X
K16V01Q	19.9	0.15	K172G	40.602	115.881	215.264	6.564	0.58711	2.97595	20	X
K16V01V	23.7	0.15	K172G	92.401	301.250	53.617	12.792	0.24824	1.38232	20	X
K16V02N	23.9	0.15	K172G	15.393	217.144	227.530	14.051	0.57887	2.46612	19	X
K16V03F	21.4	0.15	K172G	25.304	332.729	51.456	15.561	0.53531	2.63452	20	X
K16V03L	24.7	0.15	K172G	45.038	21.396	55.799	2.162	0.15106	1.29391	18	X
K16V03V	19.7	0.15	K172G	13.940	29.026	76.572	4.735	0.61455	2.94147	19	X
K16V04C	20.8	0.15	K172G	16.006	243.281	208.506	25.175	0.42712	2.19356	21	X
K16V05X	21.6	0.15	K172G	31.679	158.889	243.816	26.201	0.46826	2.31423	14	X
K16W00F	27.0	0.15	K172G	37.854	166.605	244.176	1.348	0.44953	1.82031	7	X
K16W00G	23.3	0.15	K172G	14.384	231.558	294.643	0.220	0.74182	1.82968	6	X
K16W00Q	25.6	0.15	K172G	14.334	251.019	239.944	3.917	0.56292	1.81398	7	X
K16W01G	23.0	0.15	K172G	21.467	163.329	258.267	7.863	0.48175	2.35359	6	X
K16W01J	21.3	0.15	K172G	5.438	87.702	82.041	2.900	0.50506	1.34267	6	X
K16W01O	19.8	0.15	K172G	357.946	87.212	60.936	14.744	0.59683	2.24798	44	X
K16W01Z	19.2	0.15	K172G	338.663	166.775	14.732	13.211	0.62949	1.82177	6	X
K16W02U	27.4	0.15	K172G	25.768	241.036	241.953	8.847	0.23988	1.17479	2	X
K16W02V	26.4	0.15	K172G	19.938	133.036	305.469	0.503	0.57079	2.30374	2	X
K16W02W	29.0	0.15	K172G	17.022	27.613	64.490	1.320	0.59359	2.31608	1	X
K16W03D	24.2	0.15	K172G	13.479	93.012	41.560	6.847	0.46168	1.56008	2	W

New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K16N38O	18.2	0.15	K1699	0.562	354.895	0.733	7.796	0.44671	2.69272	136	X
K16Q01E	18.4	0.15	K169T	352.593	189.101	214.936	15.175	0.42502	2.55941	99	X
K16Q45P	19.0	0.15	K169T	6.862	353.590	0.885	7.066	0.41717	2.57854	85	X
K16Q54R	17.5	0.15	K169T	339.950	46.924	329.032	12.796	0.20971	2.79164	88	X
K16Q74Z	17.0	0.15	K169T	11.902	342.190	33.187	14.838	0.25964	2.60037	87	X
K16R06D	17.3	0.15	K169T	339.218	127.631	298.015	14.526	0.32516	2.74575	82	X
K16R41J	19.9	0.15	K16AJ	352.405	89.187	313.786	5.506	0.45799	2.67225	73	X
K16S18S	17.1	0.15	K16AJ	10.866	347.673	16.526	15.000	0.26878	2.59871	63	X

K16S21R	16.7	0.15	K16AJ	359.449	316.694	75.918	7.623	0.14466	2.66651	60	X
K16S32U	17.1	0.15	K16AJ	37.988	268.552	61.877	11.022	0.18513	3.08717	59	X
K16S34W	16.4	0.15	K16AJ	4.312	16.513	7.641	19.065	0.17804	3.04402	58	X
K16S35B	17.9	0.15	K16AJ	17.895	96.165	258.117	9.996	0.32345	2.64280	57	X
K16T01K	16.6	0.15	K16AJ	11.469	140.980	214.641	8.790	0.22476	3.01805	54	X
K16T07Y	18.3	0.15	K16AJ	23.847	326.443	29.301	22.920	0.09848	1.88365	53	X
K16T08E	17.4	0.15	K16AJ	25.834	249.036	99.770	8.642	0.24796	2.72550	53	X
K16T08H	17.4	0.15	K16AJ	355.210	315.687	84.881	5.579	0.25709	2.62128	53	X
K16T09O	15.6	0.15	K16AJ	16.951	354.916	17.154	12.321	0.09922	3.19905	52	X
K16T12G	16.8	0.15	K16AJ	315.961	185.316	262.754	10.468	0.21176	2.91341	53	X
K16T17C	16.7	0.15	K16AJ	14.810	129.024	237.407	14.065	0.25963	3.07748	50	X
K16T29E	18.5	0.15	K16AJ	19.359	358.407	0.555	19.442	0.27795	2.54448	50	X
K16T29S	16.4	0.15	K16AJ	58.098	54.428	264.568	14.146	0.14331	2.62057	50	X
K16T29T	16.6	0.15	K16AJ	24.879	90.147	263.786	12.776	0.21009	2.65262	50	X
K16T29W	15.8	0.15	K16AJ	32.614	95.366	257.109	14.289	0.10183	3.13475	50	X
K16T30J	17.6	0.15	K169T	346.916	24.369	35.117	4.363	0.27490	2.57451	87	X
K16T33C	18.3	0.15	K16AJ	13.300	42.712	317.755	7.997	0.22477	2.38767	49	X
K16T50R	18.0	0.15	K16AJ	351.086	68.218	343.390	12.842	0.32568	2.69930	48	X
K16T53U	17.4	0.15	K16AJ	347.076	65.736	349.588	9.076	0.20551	2.75163	47	X
K16T55N	17.2	0.15	K16AJ	6.138	316.358	75.211	25.311	0.32556	2.45046	52	X
K16T56O	16.8	0.15	K169T	348.834	38.456	12.802	20.521	0.35101	3.06881	83	X
K16T56U	17.5	0.15	K16AJ	55.691	24.545	299.751	16.878	0.07557	1.96938	42	X
K16T57R	17.7	0.15	K16AJ	46.180	8.811	313.323	5.886	0.23155	2.41578	49	X
K16T64Q	17.3	0.15	K16AJ	21.619	77.470	259.571	8.323	0.33742	3.05106	48	X
K16T64Y	17.4	0.15	K16AJ	358.012	99.342	285.955	7.036	0.30789	2.78627	48	X
K16T67M	16.2	0.15	K16AJ	351.629	93.046	306.553	8.744	0.21625	3.18871	47	X
K16T67O	16.7	0.15	K16AJ	17.125	94.400	266.211	10.880	0.15743	2.76467	47	X
K16T67X	16.6	0.15	K16AJ	23.086	102.929	245.282	10.998	0.18536	3.07950	47	X
K16T73W	17.2	0.15	K16AJ	316.702	84.526	349.884	4.413	0.17434	2.67222	46	X
K16T76G	17.6	0.15	K16AJ	300.282	262.282	217.199	21.195	0.23226	2.26601	46	X
K16T78A	16.8	0.15	K16AJ	343.754	48.476	6.860	16.366	0.22464	3.12619	45	X
K16T78B	17.0	0.15	K16AJ	325.005	194.036	249.293	7.690	0.23709	2.80879	45	X
K16T78F	16.3	0.15	K16AJ	27.214	126.524	212.331	26.844	0.34705	3.15088	45	X
K16T78Y	16.6	0.15	K16AJ	61.088	16.280	274.478	8.741	0.29963	2.69025	45	X
K16T79E	16.4	0.15	K16AJ	99.303	13.217	256.501	11.198	0.16154	2.62359	45	X
K16T79Q	15.7	0.15	K16AJ	328.873	119.982	323.766	9.292	0.28679	3.94611	45	X
K16T79U	16.4	0.15	K16AJ	276.339	150.117	333.041	6.851	0.09173	2.56992	45	X
K16T79X	16.4	0.15	K16AJ	358.221	45.278	347.020	11.786	0.11751	3.14448	45	X
K16T81P	16.2	0.15	K16AJ	49.322	334.728	355.078	8.796	0.07743	3.08712	45	X
K16T81X	16.8	0.15	K16AJ	296.239	83.679	14.435	22.175	0.06522	2.66672	45	X
K16T82T	16.5	0.15	K16AJ	273.199	180.721	292.871	8.634	0.00474	2.62213	45	X
K16T83X	17.9	0.15	K16AJ	27.113	36.726	302.161	5.850	0.27834	2.24179	45	X
K16T87G	17.2	0.15	K16AJ	8.123	99.512	275.840	11.182	0.27964	2.68619	45	X
K16T91H	16.9	0.15	K16AJ	107.621	150.201	134.743	7.302	0.11033	2.64433	43	X
K16T92X	17.4	0.15	K16AJ	51.000	50.937	257.455	14.061	0.28327	2.38089	42	X
K16U01L	17.0	0.15	K16AJ	5.926	116.893	264.517	5.267	0.08895	2.51447	36	X
K16U01O	16.3	0.15	K16AJ	0.474	136.086	252.126	8.389	0.11253	3.01371	36	X
K16U02S	18.2	0.15	K16AJ	1.888	358.096	29.139	21.161	0.09100	1.97951	36	X
K16U02X	17.4	0.15	K16AJ	31.163	100.347	236.930	9.927	0.24505	2.77700	36	X
K16U04J	17.4	0.15	K16AJ	4.860	102.704	225.509	22.126	0.42755	3.13779	39	X
K16U06K	18.1	0.15	K16AJ	329.813	146.493	280.391	6.055	0.09676	2.30577	42	X
K16U06O	17.3	0.15	K16AJ	330.108	148.184	276.220	6.327	0.05408	2.25518	36	X
K16U07A	16.3	0.15	K169T	0.179	9.145	14.504	16.350	0.23667	3.14702	100	X
K16U07B	17.9	0.15	K16AJ	344.489	145.854	260.729	5.404	0.09120	2.26604	36	X
K16U09C	17.0	0.15	K16AJ	41.431	57.486	276.563	9.538	0.11731	2.98010	47	X
K16U09J	15.9	0.15	K1699	276.352	210.734	253.092	14.199	0.03545	2.75747	136	X
K16U09L	17.2	0.15	K16AJ	333.518	169.375	265.579	8.391	0.30338	2.85994	45	X
K16U09X	17.1	0.15	K16AJ	47.368	54.825	265.299	10.188	0.18373	2.73450	49	X

K16U13Z	16.8	0.15	K16AJ	318.010	187.631	251.597	8.211	0.10044	2.77640	45	X
K16U14E	18.8	0.15	K16AJ	28.533	98.965	248.613	5.990	0.17249	2.20809	45	X
K16U14S	18.3	0.15	K16AJ	281.690	86.940	32.857	21.294	0.08054	1.90787	35	X
K16U15F	17.1	0.15	K16AJ	320.865	66.382	33.364	26.166	0.28483	3.20799	47	X
K16U15W	18.1	0.15	K16AJ	53.092	348.948	334.365	3.861	0.16497	2.21187	48	X
K16U15Z	16.7	0.15	K169T	13.585	7.045	1.984	9.547	0.17115	3.04679	75	X
K16U16A	17.1	0.15	K16AJ	64.539	323.861	346.826	7.077	0.16484	2.56077	46	X
K16U16F	17.5	0.15	K16AJ	354.708	53.224	347.023	9.467	0.23083	3.11146	42	X
K16U16H	18.7	0.15	K16AJ	20.326	43.613	315.685	5.379	0.20601	2.25570	42	X
K16U16R	17.0	0.15	K169T	316.980	69.537	9.365	15.409	0.13890	2.61969	83	X
K16U16W	16.3	0.15	K16AJ	287.572	241.374	230.941	16.104	0.10139	3.20866	35	X
K16U17L	17.2	0.15	K16AJ	317.957	60.434	29.369	12.551	0.18362	2.76010	35	X
K16U17O	18.7	0.15	K16AJ	357.106	5.440	29.651	6.061	0.23308	2.31914	55	X
K16U17Q	17.0	0.15	K169T	46.347	298.095	21.123	9.670	0.21563	2.58887	100	X
K16U17U	17.1	0.15	K16AJ	12.780	44.374	332.438	3.096	0.11879	2.67099	63	X
K16U17V	17.0	0.15	K16AJ	21.880	3.859	2.074	5.670	0.11485	2.70416	53	X
K16U18G	16.8	0.15	K16AJ	14.027	80.105	288.234	8.351	0.11293	3.03955	35	X
K16U20O	19.3	0.15	K16AJ	4.112	135.699	241.666	11.178	0.30766	2.64749	34	X
K16U21S	17.5	0.15	K16AJ	334.415	38.039	35.419	16.688	0.24268	2.99737	34	X
K16U23X	18.9	0.15	K16AJ	178.310	181.803	34.884	21.661	0.04031	1.91220	50	X
K16U24Q	16.2	0.15	K16AJ	256.190	75.344	65.628	15.027	0.06577	2.69621	58	X
K16U24R	17.6	0.15	K16AJ	19.893	234.012	124.943	6.614	0.22178	2.53950	58	X
K16U24Z	18.8	0.15	K16AJ	77.774	275.047	35.119	22.592	0.05076	1.84949	34	X
K16U25W	19.1	0.15	K16B8	291.955	258.771	237.505	23.624	0.28747	1.89829	34	X
K16U26J	17.9	0.15	K169T	358.497	306.378	86.982	14.466	0.42958	3.08880	99DX	
K16U26L	15.9	0.15	K169T	20.998	346.400	18.102	11.501	0.10166	3.11497	74	X
K16U26T	16.1	0.15	K169T	305.838	63.661	28.700	22.304	0.09348	2.61591	100	X
K16U26V	16.4	0.15	K16AJ	26.782	327.032	24.857	17.571	0.23496	3.15989	34	X
K16U29B	17.5	0.15	K1699	17.486	64.628	275.204	11.728	0.27580	2.61542	136	X
K16U30R	18.3	0.15	K16AJ	352.498	134.230	263.838	6.223	0.11160	2.31450	45	X
K16U31Q	18.1	0.15	K16B8	61.266	29.077	290.568	8.397	0.28645	2.17545	31	X
K16U35T	16.6	0.15	K16B8	3.563	33.148	18.739	14.864	0.09070	2.56540	31	X
K16U38J	17.8	0.15	K1699	6.000	96.668	266.882	11.481	0.29901	2.59791	136	X
K16U40R	18.2	0.15	K16AJ	2.931	5.704	34.027	14.485	0.23901	2.59894	48	X
K16U40V	19.4	0.15	K16B8	228.400	319.698	214.526	21.591	0.05833	1.83078	29	X
K16U41K	18.1	0.15	K16B8	3.349	108.183	291.907	4.047	0.36087	2.62204	27	X
K16U45E	16.1	0.15	K16AJ	268.239	207.752	276.574	9.790	0.03140	3.15421	45	X
K16U45F	15.9	0.15	K16AJ	74.836	39.200	254.343	11.602	0.17653	3.08136	45	X
K16U45X	16.1	0.15	K16AJ	311.976	179.677	261.494	11.127	0.04885	3.24309	45	X
K16U45Z	16.3	0.15	K169T	31.245	47.408	299.058	8.457	0.11351	3.03733	79	X
K16U46C	16.6	0.15	K16AJ	356.802	142.120	252.276	12.585	0.19868	3.15828	50	X
K16U46G	17.1	0.15	K16AJ	13.076	127.677	245.806	10.924	0.09544	2.58813	45	X
K16U46J	17.6	0.15	K16AJ	313.503	162.492	278.205	7.145	0.04914	2.19663	36	X
K16U46M	16.4	0.15	K16AJ	240.295	174.466	338.179	7.271	0.01709	2.74080	42	X
K16U46S	18.3	0.15	K16AJ	316.570	121.745	317.690	6.243	0.06508	2.24498	42	X
K16U46V	16.0	0.15	K16AJ	67.869	0.934	312.367	7.680	0.09792	3.04139	42	X
K16U46W	18.1	0.15	K16AJ	355.932	113.530	283.780	6.381	0.22945	2.80236	42	X
K16U46X	16.7	0.15	K16AJ	86.994	349.985	313.128	7.658	0.02397	2.82815	47	X
K16U47C	16.2	0.15	K16AJ	45.154	335.059	1.610	9.569	0.08809	3.13206	43	X
K16U47E	17.6	0.15	K16AJ	308.726	143.805	316.579	4.100	0.19523	2.36149	43	X
K16U47L	16.2	0.15	K16AJ	342.230	42.186	9.997	9.901	0.10047	3.11170	58	X
K16U47X	17.2	0.15	K16AJ	76.393	44.545	257.859	6.725	0.12513	2.31519	46	X
K16U48G	16.8	0.15	K16AJ	12.998	34.223	340.726	4.534	0.17641	3.04026	53	X
K16U48K	17.9	0.15	K16AJ	9.101	144.142	236.472	5.979	0.10622	2.32149	53	X
K16U48O	19.2	0.15	K16AJ	0.212	9.591	21.519	5.403	0.22267	2.39464	45	X
K16U50P	18.8	0.15	K16AJ	17.942	75.127	291.138	4.416	0.18718	2.33715	34	X
K16U55E	15.8	0.15	K1699	341.448	160.039	251.930	12.212	0.27900	3.05716	136	X
K16U57R	18.7	0.15	K16AJ	40.457	312.397	25.541	20.970	0.07827	1.90853	58	X

K16U58C	18.4	0.15	K16AJ	4.927	136.063	238.883	12.694	0.28596	2.59577	47	X
K16U58N	17.0	0.15	K169T	37.274	72.583	250.418	12.974	0.23089	2.68266	99	X
K16U58Z	16.3	0.15	K16AJ	333.977	113.142	309.018	7.494	0.11050	3.02682	73	X
K16U59A	17.5	0.15	K16AJ	63.974	354.844	315.353	6.562	0.13884	2.29601	45	X
K16U59B	16.6	0.15	K16AJ	17.038	58.765	311.831	8.461	0.07750	2.96203	45	X
K16U59C	16.5	0.15	K16AJ	13.328	89.088	285.396	7.973	0.08669	3.10480	45	X
K16U59F	15.9	0.15	K16AJ	94.053	45.315	247.366	14.353	0.03443	3.16487	45	X
K16U59K	16.4	0.15	K16AJ	101.799	278.832	3.444	10.282	0.06875	2.97824	58	X
K16U59Z	16.5	0.15	K16B8	0.036	35.101	358.923	9.096	0.08682	3.12346	30	X
K16U63B	17.6	0.15	K1699	2.238	299.325	68.053	7.965	0.13225	2.32646	114	X
K16U64X	17.1	0.15	K16AJ	214.396	271.398	266.803	6.111	0.04973	2.21440	42	X
K16U64Z	17.6	0.15	K16AJ	320.045	168.731	273.174	8.123	0.13126	2.57758	36	X
K16U65A	17.0	0.15	K16AJ	71.667	334.369	332.795	8.163	0.11588	2.60814	50	X
K16U68X	18.1	0.15	K16AJ	346.895	197.493	210.182	12.305	0.16286	2.42647	58	X
K16U70L	16.4	0.15	K16AJ	322.972	46.843	33.812	27.114	0.14297	3.09975	55	X
K16U70U	18.6	0.15	K16AJ	309.539	80.750	32.722	19.918	0.28222	2.27824	55	X
K16U70W	16.9	0.15	K16B8	56.314	290.300	30.845	13.111	0.18550	2.60617	29	X
K16U71V	18.3	0.15	K16B8	354.083	14.242	36.773	13.546	0.28167	2.64133	29	X
K16U73R	18.6	0.15	K16B8	22.214	320.789	38.341	14.106	0.27340	2.62527	29	X
K16U78U	19.0	0.15	K16B8	349.191	23.864	38.741	12.218	0.33214	2.53862	28	X
K16U87G	17.3	0.15	K16AJ	310.245	59.966	26.700	9.755	0.06117	2.65787	35	X
K16U87H	18.8	0.15	K16AJ	355.584	14.733	22.378	5.438	0.19178	2.52025	35	X
K16U87N	18.0	0.15	K16AJ	34.275	304.190	25.186	5.141	0.30312	2.60231	63	X
K16U87O	16.8	0.15	K16AJ	142.489	219.514	21.684	7.987	0.14463	2.56866	53	X
K16U89L	17.3	0.15	K169T	60.125	280.324	26.691	12.245	0.17922	2.58791	100	X
K16U89S	17.0	0.15	K16AJ	235.663	312.182	210.625	24.698	0.09544	2.80300	43	X
K16U89W	17.2	0.15	K16AJ	328.273	34.432	30.306	22.687	0.05806	2.61789	55	X
K16UA0W	18.8	0.15	K16B8	348.837	49.963	355.848	28.488	0.40027	2.61608	26	X
K16UA1A	18.6	0.15	K16B8	287.943	215.165	271.104	19.017	0.07755	1.84696	25	X
K16UA6S	18.9	0.15	K16B8	10.582	304.814	72.691	7.934	0.20611	2.32123	29	X
K16UA7W	17.5	0.15	K16AJ	301.067	62.807	33.986	22.423	0.06400	2.62466	35	X
K16UC4A	16.9	0.15	K16AJ	278.556	145.567	341.993	6.722	0.09014	2.59440	46	X
K16UD5H	16.7	0.15	K1699	340.267	152.405	253.262	12.709	0.24840	2.69421	136	X
K16UD5K	17.0	0.15	K16AJ	338.080	42.519	14.633	14.190	0.12501	3.00482	42	X
K16UE1Q	16.7	0.15	K1699	344.969	167.160	244.654	24.089	0.27076	2.42724	141	X
K16UE2N	16.2	0.15	K16AJ	283.204	217.439	266.403	11.122	0.20435	3.20350	53	X
K16UE6K	17.4	0.15	K169T	29.146	37.052	319.175	14.231	0.13960	2.60992	81	X
K16UE7A	16.3	0.15	K16AJ	0.192	105.942	289.953	8.728	0.09677	2.99868	47	X
K16V01D	18.0	0.15	K16B8	156.188	327.539	274.100	18.078	0.06328	1.89811	19	X
K16V01J	19.0	0.15	K16B8	2.260	135.123	269.856	2.950	0.41332	2.67582	19	X
K16V02B	19.2	0.15	K16B8	38.962	11.727	326.719	5.633	0.32724	2.23173	18	X
K16V02R	19.2	0.15	K16B8	332.769	55.950	26.333	24.079	0.17189	1.93698	18	X
K16V03E	19.1	0.15	K16B8	1.700	338.050	70.191	37.804	0.29671	2.55566	18	X
K16V05A	17.2	0.15	K16B8	47.632	78.963	273.674	27.365	0.37975	2.59493	14	X
K16V05D	18.2	0.15	K16B8	23.765	100.534	273.112	26.403	0.44974	2.57891	23	X
K16V06B	17.6	0.15	K16B8	69.034	206.962	117.138	9.069	0.25054	2.21834	13	X
K16V06C	18.3	0.15	K16B8	250.908	96.041	81.685	23.575	0.06775	1.94326	13	X
K16V06Q	16.0	0.15	K16AJ	31.005	313.551	82.001	14.459	0.23990	2.98417	35	X
K16V07N	18.1	0.15	K169T	343.275	36.570	25.407	13.486	0.27686	2.62811	87	X
K16V07P	18.2	0.15	K169T	334.260	67.171	7.738	7.257	0.26318	2.44086	87	X
K16V08G	17.6	0.15	K16AJ	320.959	63.040	26.612	22.340	0.20893	2.27251	55	X
K16V13L	17.5	0.15	K16B8	3.521	331.377	80.375	12.205	0.23444	3.05571	27	X
K16V15B	15.4	0.15	K16B8	30.632	295.977	75.368	18.345	0.21052	3.07177	15	X
K16V15V	16.3	0.15	K16B8	347.068	107.245	315.384	9.735	0.05711	3.15520	33	X
K16V17E	18.0	0.15	K16B8	7.828	267.780	134.041	6.787	0.09188	2.37008	22	X
K16V17O	18.2	0.15	K16B8	351.677	230.450	192.889	13.536	0.15347	2.56381	19	X
K16V17T	16.6	0.15	K16B8	66.139	201.714	145.283	6.719	0.07633	2.72417	27	X
K16W00A	18.3	0.15	K16B8	284.747	241.791	251.833	19.299	0.08570	1.86838	6	X

K16W00B 18.5 0.15 K16B8 26.994 335.556 45.229 22.129 0.09769 1.86310 6 X
 K16W00J 19.1 0.15 K16B8 344.934 26.336 47.058 25.745 0.15835 1.97653 6 X
 K16W02K 17.3 0.15 K16B8 26.256 282.494 76.438 10.851 0.21384 2.65984 4 X
 K16W02N 17.2 0.15 K16B8 8.643 147.808 251.282 7.857 0.25468 2.56508 14 X
 K16W02Q 17.5 0.15 K16B8 315.725 157.446 314.160 12.632 0.19234 2.20538 1EX
 K16W02R 18.0 0.15 K16B8 31.325 97.364 268.737 22.546 0.14332 2.11508 1EW
 K16W02S 19.2 0.15 K16B8 349.050 173.518 271.451 17.511 0.47560 3.18186 1 X
 K16W02T 20.5 0.15 K16B8 2.740 336.582 69.386 3.392 0.36689 2.13394 1 X
 K16W02X 17.5 0.15 K16B8 299.645 137.849 312.673 32.078 0.06995 2.15520 2 X
 K16W02Y 16.2 0.15 K16B8 322.976 159.257 292.268 38.163 0.37684 3.39822 2 X
 K16W02Z 17.9 0.15 K16B8 346.775 56.681 18.570 31.569 0.37762 2.76637 2 X
 K16W03A 19.0 0.15 K16B8 302.601 127.914 0.328 16.462 0.23066 2.05201 2 X
 K16W03B 17.7 0.15 K16B8 88.010 275.046 23.701 24.188 0.23394 2.07642 2 X
 K16W03C 18.6 0.15 K16AJ 54.708 258.793 89.050 24.151 0.08335 1.86670 41 X

New observations:

J98S36L KC2016 11 25.14706 21 14 09.94 +00 55 11.3 21.9 RoEW072291
 J98S36L KC2016 11 25.15237 21 14 10.21 +00 55 19.0 oEW072291
 J98S36L KC2016 11 25.15770 21 14 10.49 +00 55 26.8 oEW072291
 J99V00T C2016 11 24.14691 01 17 23.30 +19 06 46.7 19.0 VqEW072G96
 J99V00T C2016 11 24.15316 01 17 23.52 +19 06 55.2 19.0 VqEW072G96
 J99V00T C2016 11 24.15744 01 17 23.74 +19 07 01.7 19.4 VqEW072G96
 J99V00T C2016 11 24.16173 01 17 23.90 +19 07 08.3 19.3 VqEW072G96
 K01N01Z KC2016 11 25.33293 03 26 09.48 +29 28 47.5 23.5 RoEW072291
 K01N01Z KC2016 11 25.33727 03 26 09.14 +29 28 44.3 22.5 RoEW072291
 K01N01Z KC2016 11 25.34161 03 26 08.82 +29 28 41.5 22.1 RoEW072291
 K05T00F C2016 11 24.35083 04 28 53.47 +47 23 24.1 16.3 VqEW072G96
 K05T00F C2016 11 24.35675 04 28 56.29 +47 23 43.0 16.1 VqEW072G96
 K05T00F C2016 11 24.36105 04 28 58.31 +47 23 56.5 qEW072G96
 K05T00F C2016 11 24.36748 04 29 01.42 +47 24 16.8 16.2 VqEW072G96
 K07C19A HC2016 11 25.11516 22 17 13.45 -18 40 42.0 19.0 VoEW072691
 K07C19A HC2016 11 25.12253 22 17 15.83 -18 40 30.5 19.0 VoEW072691
 K07C19A HC2016 11 25.12989 22 17 18.24 -18 40 19.0 19.6 VoEW072691
 K07V44M C2016 11 24.31821 03 36 24.81 +00 49 26.2 17.4 VqEW072G96
 K07V44M C2016 11 24.32256 03 36 21.79 +00 49 41.1 qEW072G96
 K07V44M C2016 11 24.32690 03 36 18.78 +00 49 55.1 17.4 VqEW072G96
 K07V44M C2016 11 24.33556 03 36 12.75 +00 50 24.2 17.4 VqEW072G96
 K09H88F C2016 11 24.31726 03 35 50.67 +04 11 47.8 20.5 VqEW072G96
 K09H88F C2016 11 24.32157 03 35 50.37 +04 11 39.7 20.5 VqEW072G96
 K09H88F C2016 11 24.32595 03 35 50.01 +04 11 33.2 20.9 VqEW072G96
 K09H88F C2016 11 24.33324 03 35 49.53 +04 11 22.1 20.6 VqEW072G96
 K09V25Y C2016 11 24.14351 01 02 10.94 +16 07 17.6 20.7 VqEW072G96
 K09V25Y C2016 11 24.14988 01 02 11.28 +16 07 16.8 20.8 VqEW072G96
 K09V25Y C2016 11 24.15416 01 02 11.48 +16 07 16.2 20.5 VqEW072G96
 K09V25Y C2016 11 24.15844 01 02 11.64 +16 07 15.1 21.1 VqEW072G96
 K10X72X C2016 11 24.62308 03 30 08.05 +38 05 48.1 18.9 RqEW072D29
 K10X72X C2016 11 24.64517 03 30 00.07 +38 04 50.0 20.1 RqEW072D29
 K11L02L C2016 11 24.42918 07 14 22.50 +30 00 47.5 19.0 VqEW072G96
 K11L02L C2016 11 24.43775 07 14 22.35 +30 01 26.0 19.2 VqEW072G96
 K11L02L C2016 11 24.44202 07 14 22.25 +30 01 45.3 19.3 VqEW072G96
 K11UA6U C2016 11 24.40675 07 21 12.92 +23 28 24.1 17.5 VqEW072G96
 K11UA6U C2016 11 24.41631 07 21 15.87 +23 27 53.2 qEW072G96
 K11UA6U C2016 11 24.42062 07 21 17.23 +23 27 38.3 17.4 VqEW072G96
 K11UA6U C2016 11 24.42490 07 21 18.55 +23 27 24.2 qEW072G96
 K12S22A C2016 11 24.45047 07 55 59.79 +22 48 53.0 20.4 VqEW072G96
 K12S22A C2016 11 24.45475 07 55 59.52 +22 48 43.0 20.2 VqEW072G96
 K12S22A C2016 11 24.46335 07 55 58.97 +22 48 22.9 20.3 VqEW072G96
 K12T78Q C2016 11 24.37634 01 25 12.92 +10 02 30.2 18.8 wLEW072T05

K12T78Q C2016 11 24.39120 01 25 09.25 +10 02 37.5	18.8 wLEW072T05
K12T78Q C2016 11 24.40593 01 25 05.74 +10 02 46.0	18.5 wLEW072T05
K12T78Q C2016 11 24.42177 01 25 02.14 +10 02 57.1	18.8 wLEW072T05
K12U34A HC2016 11 25.14672 23 04 33.78 +19 52 22.3	20.4 VoEW072691
K12U34A HC2016 11 25.15697 23 04 35.06 +19 52 15.7	20.3 VoEW072691
K12U34A HC2016 11 25.16709 23 04 36.31 +19 52 08.9	20.2 VoEW072691
K12UH1K C2016 11 24.39849 04 25 56.22 +25 01 54.5	18.7 VqEW072G96
K12UH1K C2016 11 24.40061 04 25 54.79 +25 01 48.8	18.7 VqEW072G96
K12UH1K C2016 11 24.40178 04 25 54.01 +25 01 45.4	19.0 VqEW072G96
K12UH1K C2016 11 24.40392 04 25 52.56 +25 01 39.6	18.7 VqEW072G96
K12W04K C2016 11 24.41844 04 58 14.593+01 52 29.77	19.7 wLEW072F51
K12W04K C2016 11 24.44261 04 58 09.757+01 52 42.13	19.8 wLEW072F51
K12W04K C2016 11 24.45476 04 58 07.350+01 52 48.56	19.9 wLEW072F51
K14N03F KC2016 11 25.30918 00 46 45.27 +30 59 50.1	20.5 RoEW072291
K14N03F KC2016 11 25.31668 00 46 44.42 +30 59 43.8	21.9 RoEW072291
K14N03F KC2016 11 25.32416 00 46 43.55 +30 59 37.5	20.4 RoEW072291
K14Wa8L C2016 11 24.19689 01 27 16.06 +22 02 14.2	18.8 VqEW072G96
K14Wa8L C2016 11 24.20119 01 27 16.28 +22 02 08.6	18.8 VqEW072G96
K14Wa8L C2016 11 24.20549 01 27 16.54 +22 02 02.7	18.8 VqEW072G96
K14Wa8L C2016 11 24.20978 01 27 16.79 +22 01 57.1	18.9 VqEW072G96
K15AO5Z KC2016 11 25.49820 04 38 27.23 +31 51 54.0	oEW072291
K15AO5Z KC2016 11 25.50097 04 38 26.98 +31 51 52.4	oEW072291
K15AO5Z KC2016 11 25.50376 04 38 26.61 +31 51 51.2	21.6 RoEW072291
K16F14W KC2016 11 25.44659 03 05 18.46 +52 13 33.2	oEW072291
K16F14W KC2016 11 25.45093 03 05 17.91 +52 13 27.1	oEW072291
K16F14W KC2016 11 25.45526 03 05 17.33 +52 13 20.8	oEW072291
K16GL6U C2016 11 24.12239 01 21 39.02 +33 19 45.7	21.1 VqEW072G96
K16GL6U C2016 11 24.12675 01 21 38.86 +33 19 39.7	21.1 VqEW072G96
K16GL6U C2016 11 24.13346 01 21 38.72 +33 19 31.7	qEW072G96
K16GL6U C2016 11 24.14004 01 21 38.60 +33 19 23.2	21.1 VqEW072G96
K16L10Z KC2016 11 25.28308 00 25 04.98 +03 24 45.0	20.7 RoEW072291
K16L10Z KC2016 11 25.28689 00 25 05.39 +03 24 46.5	21.0 RoEW072291
K16L10Z KC2016 11 25.29070 00 25 05.73 +03 24 48.9	20.5 RoEW072291
K16L47Y HC2016 11 25.25399 01 50 58.37 +16 00 10.3	21.0 VoEW072691
K16L47Y HC2016 11 25.26608 01 50 58.60 +16 00 06.2	21.0 VoEW072691
K16L47Y HC2016 11 25.27803 01 50 58.82 +16 00 00.5	21.3 VoEW072691
K16L48X HC2016 11 25.21174 01 51 33.16 +26 46 47.2	20.1 VoEW072691
K16L48X HC2016 11 25.22015 01 51 33.52 +26 46 42.9	20.1 VoEW072691
K16L48X HC2016 11 25.22876 01 51 33.90 +26 46 38.2	20.3 VoEW072691
K16N00X C2016 11 25.09265 00 05 34.20 -17 08 09.1	22.4 VuEW072807
K16N00X C2016 11 25.10508 00 05 35.20 -17 07 53.8	22.3 VuEW072807
K16N00X C2016 11 25.11712 00 05 36.13 -17 07 39.3	22.4 VuEW072807
K16N16P C2016 11 24.02674 22 05 48.13 -23 02 06.2	21.5 VuEW072807
K16N16P C2016 11 24.03325 22 05 49.80 -23 01 57.4	21.9 VuEW072807
K16N16P C2016 11 24.03996 22 05 51.47 -23 01 48.7	21.9 VuEW072807
K16N55Q C2016 11 25.03197 22 35 20.13 -33 29 55.5	22.1 VuEW072807
K16N55Q C2016 11 25.04282 22 35 22.75 -33 29 40.0	22.1 VuEW072807
K16N55Q C2016 11 25.05334 22 35 25.29 -33 29 25.0	22.2 VuEW072807
K16O00N C2016 11 24.49738 00 13 27.12 +13 12 20.3	19.8 RqEW072D29
K16O00N C2016 11 24.51152 00 13 29.26 +13 12 39.9	19.5 RqEW072D29
K16O00N C2016 11 24.52566 00 13 31.40 +13 12 59.8	19.9 RqEW072D29
K16O01K KC2016 11 25.07646 20 08 48.55 -05 36 09.7	oEW072291
K16O01K KC2016 11 25.07744 20 08 48.91 -05 36 10.2	oEW072291
K16Q84E C2016 11 25.04563 22 29 02.29 -51 10 23.5	22.2 VuEW072807
K16Q84E C2016 11 25.05515 22 29 03.02 -51 10 19.5	22.1 VuEW072807
K16Q84E C2016 11 25.06427 22 29 03.78 -51 10 15.8	22.4 VuEW072807
K16R20C C2016 11 25.06801 23 45 23.55 -47 30 12.7	21.0 VuEW072807
K16R20C C2016 11 25.07204 23 45 24.87 -47 30 15.5	21.1 VuEW072807

K16R20C C2016 11 25.07591 23 45 26.15 -47 30 18.0	20.9 VuEW072807
K16R20E C2016 11 25.13486 00 50 35.53 -35 23 59.6	21.5 VuEW072807
K16R20E C2016 11 25.14021 00 50 37.46 -35 23 52.1	21.5 VuEW072807
K16R20E C2016 11 25.14571 00 50 39.47 -35 23 44.2	21.7 VuEW072807
K16R33R C2016 11 25.08971 00 00 37.48 -06 47 04.7	22.8 VuEW072807
K16R33R C2016 11 25.10555 00 00 38.09 -06 46 54.0	22.8 VuEW072807
K16R33R C2016 11 25.12147 00 00 38.70 -06 46 43.7	22.8 VuEW072807
K16R34D C2016 11 23.31705001 58 05.539+55 21 06.38	22.9 GUEW072T12
K16R34D C2016 11 23.32059601 58 05.217+55 21 00.82	23.0 GUEW072T12
K16S02K C2016 10 03.33309322 30 00.401+29 13 14.09	22.4 GUEW072T12
K16S02K C2016 10 03.33908622 30 00.926+29 13 18.52	22.4 GUEW072T12
K16T17Z C2016 11 24.21503 01 16 32.59 +20 59 46.5	21.0 VqEW072G96
K16T17Z C2016 11 24.21931 01 16 33.23 +20 59 45.5	21.1 VqEW072G96
K16T17Z C2016 11 24.22360 01 16 33.81 +20 59 45.6	22.0 VqEW072G96
K16T17Z C2016 11 24.22788 01 16 34.39 +20 59 44.2	20.4 VqEW072G96
K16T56A C2016 11 25.15480 02 31 21.92 -33 20 19.1	21.3 VuEW072807
K16T56A C2016 11 25.15819 02 31 21.53 -33 20 21.4	21.3 VuEW072807
K16T56A C2016 11 25.16142 02 31 21.13 -33 20 23.7	21.0 VuEW072807
K16U25Y KC2016 11 25.23032 23 34 33.13 +18 41 09.7	oEW072291
K16U25Y KC2016 11 25.23530 23 34 33.18 +18 41 18.2	oEW072291
K16U25Y KC2016 11 25.24028 23 34 33.16 +18 41 26.3	oEW072291
K16U36N HC2016 11 25.26069 02 07 04.00 +30 33 54.7	19.4 VoEW072691
K16U36N HC2016 11 25.27276 02 07 09.15 +30 34 01.7	19.3 VoEW072691
K16U36N HC2016 11 25.28474 02 07 14.31 +30 34 08.6	19.4 VoEW072691
K16U40Y KC2016 11 25.17821 21 15 40.89 +27 30 02.9	oEW072291
K16U40Y KC2016 11 25.18453 21 15 40.54 +27 30 22.4	22.2 RoEW072291
K16U40Y KC2016 11 25.19084 21 15 40.25 +27 30 41.3	21.7 RoEW072291
K16U41M HC2016 11 25.23445 00 41 57.99 +14 27 56.7	oEW072691
K16U41M HC2016 11 25.24034 00 41 57.94 +14 27 52.6	21.2 VoEW072691
K16U41M HC2016 11 25.24623 00 41 57.89 +14 27 47.6	21.5 VoEW072691
K16U41P HC2016 11 25.26343 02 35 56.35 +20 02 50.5	20.6 VoEW072691
K16U41P HC2016 11 25.27541 02 35 54.67 +20 02 31.3	20.5 VoEW072691
K16U41P HC2016 11 25.28719 02 35 53.05 +20 02 13.0	20.6 VoEW072691
K16U41W KC2016 11 25.29542 00 36 56.94 -04 52 30.0	21.5 RoEW072291
K16U41W KC2016 11 25.29925 00 36 57.00 -04 52 35.4	22.7 RoEW072291
K16U41W KC2016 11 25.30311 00 36 57.05 -04 52 42.3	22.3 RoEW072291
K16U42B HC2016 11 25.14956 23 09 59.52 +30 27 36.2	21.6 VoEW072691
K16U42B HC2016 11 25.15973 23 09 59.33 +30 28 01.8	21.3 VoEW072691
K16U42B HC2016 11 25.16979 23 09 59.20 +30 28 26.7	21.3 VoEW072691
K16UA1F C2016 11 22.33497623 51 48.306+30 42 50.75	22.3 GUEW072T12
K16UA1F C2016 11 22.33926723 51 49.358+30 42 50.11	22.3 GUEW072T12
K16UA1F KC2016 11 25.26113 00 03 40.38 +30 35 23.2	22.7 RoEW072291
K16UA1F KC2016 11 25.27144 00 03 42.77 +30 35 21.0	22.6 RoEW072291
K16V01Q HC2016 11 25.35102 03 15 29.54 +12 50 13.8	21.7 VoEW072691
K16V01Q HC2016 11 25.35835 03 15 29.22 +12 50 12.6	21.7 VoEW072691
K16V01Q HC2016 11 25.36567 03 15 28.81 +12 50 08.2	21.8 VoEW072691
K16V01V HC2016 11 25.29792 02 55 38.49 +27 01 01.5	oEW072691
K16V01V HC2016 11 25.30910 02 55 37.28 +27 01 33.0	21.3 VoEW072691
K16V01V HC2016 11 25.32019 02 55 36.14 +27 02 02.3	oEW072691
K16V02N mC2016 11 25.20657 01 50 53.41 -14 39 07.5	20.8 VoEW072691
K16V02N mC2016 11 25.21508 01 50 55.75 -14 40 15.3	21.2 VoEW072691
K16V02N mC2016 11 25.22360 01 50 58.11 -14 41 22.3	20.6 VoEW072691
K16V03F mC2016 11 25.19270 00 35 54.21 +00 42 42.2	22.0 VoEW072691
K16V03F mC2016 11 25.20195 00 35 55.20 +00 43 16.1	21.6 VoEW072691
K16V03L C2016 11 25.46261 03 55 11.73 +23 03 46.6	19.9 VqEW072152
K16V03L C2016 11 25.46654 03 55 11.61 +23 03 50.3	20.1 VqEW072152
K16V03L C2016 11 25.47046 03 55 11.50 +23 03 54.1	20.2 VqEW072152
K16V03L C2016 11 25.47382 03 55 11.45 +23 03 57.7	20.5 VqEW072152

K16V03V 6C2016 11 25.52005 10 27 07.98 +12 42 25.0	20.5 RoEW072290
K16V03V 6C2016 11 25.52189 10 27 08.46 +12 42 23.5	20.5 RoEW072290
K16V03V 6C2016 11 25.52404 10 27 09.03 +12 42 21.5	21.0 RoEW072290
K16V04C J C2016 11 24.29077 05 02 00.02 -29 41 35.7	21.1 VuEW072807
K16V04C J C2016 11 24.29527 05 02 00.11 -29 41 49.2	21.4 VuEW072807
K16V04C J C2016 11 24.29976 05 02 00.22 -29 42 03.6	21.1 VuEW072807
K16V05X C2016 11 25.36584 05 39 42.96 +14 05 51.8	20.8 VqEW072152
K16V05X C2016 11 25.37333 05 39 42.58 +14 05 11.4	20.4 VqEW072152
K16V05X C2016 11 25.37465 05 39 42.41 +14 05 04.5	qEW072152
K16V05X C2016 11 25.37692 05 39 42.35 +14 04 52.7	20.4 VqEW072152
K16V05X HC2016 11 25.49195 05 39 35.81 +13 54 33.8	20.8 VoEW072691
K16V05X HC2016 11 25.50266 05 39 35.25 +13 53 35.5	20.8 VoEW072691
K16V05X HC2016 11 25.51344 05 39 34.64 +13 52 36.9	21.2 VoEW072691
K16W00F C2016 11 25.37864 07 09 46.72 +22 15 56.9	qEW072152
K16W00F C2016 11 25.38444 07 09 49.68 +22 15 34.0	20.5 VqEW072152
K16W00F C2016 11 25.39391 07 09 54.65 +22 14 57.0	21.5 VqEW072152
K16W00G C2016 11 23.42001003 14 32.009+23 34 00.09	16.4 GUEW072T12
K16W00G C2016 11 23.42127703 14 29.516+23 33 59.98	16.3 GUEW072T12
K16W00G C2016 11 23.42197903 14 28.130+23 33 59.92	16.3 GUEW072T12
K16W00G C2016 11 24.47194702 21 41.740+23 00 42.17	15.5 GUEW072T12
K16W00G C2016 11 24.47289402 21 37.099+23 00 35.85	15.5 GUEW072T12
K16W00G J C2016 11 24.60167 02 10 41.61 +22 51 08.8	15.4 RrEW072Q62
K16W00G J C2016 11 24.60265 02 10 36.08 +22 51 00.0	15.5 RrEW072Q62
K16W00G J C2016 11 24.60364 02 10 30.46 +22 50 51.2	15.5 RrEW072Q62
K16W00Q HC2016 11 25.32777 02 55 54.72 +12 24 07.9	19.8 VoEW072691
K16W00Q HC2016 11 25.33663 02 55 52.31 +12 22 35.3	19.8 VoEW072691
K16W00Q HC2016 11 25.34553 02 55 49.90 +12 21 01.6	oEW072691
K16W01G mC2016 11 25.25764 02 03 27.13 +26 22 47.3	21.7 VoEW072691
K16W01G mC2016 11 25.26969 02 03 28.88 +26 22 30.4	21.5 VoEW072691
K16W01G mC2016 11 25.28164 02 03 30.58 +26 22 13.1	oEW072691
K16W01J C2016 11 23.48448104 20 23.432+15 23 28.10	18.5 GUEW072T12
K16W01J C2016 11 23.48616704 20 23.124+15 23 27.27	18.3 GUEW072T12
K16W01J C2016 11 24.49788004 17 26.061+15 15 13.13	18.3 GUEW072T12
K16W01J C2016 11 24.49884604 17 25.867+15 15 12.59	18.4 GUEW072T12
K16W01J C2016 11 24.49969404 17 25.696+15 15 12.16	18.2 GUEW072T12
K16W01J J C2016 11 24.59657 04 17 08.98 +15 15 01.6	18.0 RrEW072Q62
K16W01J J C2016 11 24.60296 04 17 07.66 +15 14 57.9	18.1 RrEW072Q62
K16W01J J C2016 11 24.60935 04 17 06.37 +15 14 54.8	18.1 RrEW072Q62
K16W01J KC2016 11 25.17792704 15 17.375+15 09 40.35	18.2 GUEW072Y28
K16W01J KC2016 11 25.17980904 15 16.974+15 09 39.30	18.2 GUEW072Y28
K16W01J KC2016 11 25.18168704 15 16.569+15 09 38.20	18.1 GUEW072Y28
K16W01J KC2016 11 25.18388604 15 16.099+15 09 36.95	18.2 GUEW072Y28
K16W01O HC2016 11 25.32967 02 57 58.76 +14 11 59.7	20.3 VoEW072691
K16W01O HC2016 11 25.33858 02 57 57.27 +14 12 06.9	20.4 VoEW072691
K16W01O HC2016 11 25.34749 02 57 55.72 +14 12 14.2	20.1 VoEW072691
K16W01Z C2016 11 25.39144 01 57 54.87 +29 22 30.5	21.5 VqEW072152
K16W01Z C2016 11 25.39710 01 57 54.00 +29 22 27.2	22.0 VqEW072152
K16W02U KC2016 11 24.80936201 57 41.78 -11 33 33.7	16.6 RqEW072J95
K16W02U KC2016 11 24.81276701 57 39.48 -11 45 27.6	16.5 RqEW072J95
K16W02U KC2016 11 24.81602001 57 37.22 -11 56 50.7	15.7 RqEW072J95
K16W02U KC2016 11 24.82027001 57 34.22 -12 11 46.7	16.5 RqEW072J95
K16W02V C2016 11 25.50816 06 08 19.41 +50 15 01.1	18.7 RoEW072926
K16W02V C2016 11 25.50940 06 08 26.07 +50 14 55.8	18.5 RoEW072926
K16W02V C2016 11 25.51064 06 08 32.70 +50 14 50.6	18.6 RoEW072926
K16W02W KC2016 11 24.78132502 44 25.60 -04 03 24.9	17.3 RqEW072J95
K16W02W KC2016 11 24.79918502 49 21.03 -04 24 10.4	16.3 RqEW072J95
K16W02W KC2016 11 24.80589902 51 18.88 -04 32 27.7	16.5 RqEW072J95
K16W02W KC2016 11 24.82550002 57 26.46 -04 58 11.7	16.6 RqEW072J95

	K16W02W KC2016 11 24.82795402 58 15.19 -05 01 35.9	16.6 RqEW072J95
	K16W02W KC2016 11 24.83051102 59 06.61 -05 05 11.5	16.2 RqEW072J95
00433	C2016 11 24.25067 21 46 46.80 -00 08 49.6	13.3 wLEW072T05
00433	C2016 11 24.25271 21 46 47.00 -00 08 48.7	13.3 wLEW072T05
00433	C2016 11 24.26253 21 46 47.97 -00 08 44.9	13.3 wLEW072T05
00433	C2016 11 24.26508 21 46 48.22 -00 08 43.7	13.3 wLEW072T05
00433	C2016 11 24.27544 21 46 49.24 -00 08 39.7	13.2 wLEW072T05
00433	C2016 11 24.27800 21 46 49.50 -00 08 38.8	13.2 wLEW072T05
00433	C2016 11 24.28995 21 46 50.69 -00 08 34.1	13.3 wLEW072T05
00433	C2016 11 24.29251 21 46 50.92 -00 08 32.9	13.3 wLEW072T05
01627	KC2016 11 16.13805 07 18 29.93 +13 42 55.8	16.2 RqEW072160
01627	KC2016 11 16.13934 07 18 29.90 +13 42 55.8	16.2 RqEW072160
01627	KC2016 11 16.14063 07 18 29.88 +13 42 55.8	16.0 RqEW072160
01627	C2016 11 24.58527 07 14 02.66 +13 43 26.1	16.5 wLEW072T05
01627	C2016 11 24.60902 07 14 01.65 +13 43 26.9	16.8 wLEW072T05
01627	C2016 11 24.62556 07 14 00.95 +13 43 27.7	16.9 wLEW072T05
01627	C2016 11 24.64221 07 14 00.18 +13 43 27.6	16.6 wLEW072T05
01943	C2016 11 24.35686 00 37 54.96 +12 19 19.1	18.1 wLEW072T05
01943	C2016 11 24.37159 00 37 54.78 +12 19 10.8	18.1 wLEW072T05
01943	C2016 11 24.38642 00 37 54.78 +12 19 01.5	18.1 wLEW072T05
01943	C2016 11 24.40174 00 37 54.72 +12 18 52.3	18.1 wLEW072T05
01943	C2016 11 24.49915 00 37 55.27 +12 17 52.4	17.9 RqEW072D29
01943	C2016 11 24.51329 00 37 55.27 +12 17 43.9	17.1 RqEW072D29
01943	C2016 11 24.52743 00 37 55.21 +12 17 35.7	17.7 RqEW072D29
03352	C2016 11 24.42337 02 12 00.20 +01 34 26.3	16.4 wLEW072T05
03352	C2016 11 24.43877 02 11 59.07 +01 34 26.8	16.4 wLEW072T05
03352	C2016 11 24.45477 02 11 57.96 +01 34 26.5	16.1 wLEW072T05
03352	C2016 11 24.47697 02 11 56.35 +01 34 27.7	16.4 wLEW072T05
04183	C2016 11 24.46323 23 13 02.91 +03 13 32.8	19.3 RqEW072D29
04183	C2016 11 24.47737 23 13 02.95 +03 13 29.9	19.3 RqEW072D29
04183	C2016 11 24.49151 23 13 02.96 +03 13 28.2	19.4 RqEW072D29
05131	KC2016 11 16.11634 07 08 31.23 -02 01 20.9	18.3 RqEW072160
05131	KC2016 11 16.11815 07 08 31.15 -02 01 21.0	17.9 RqEW072160
05143	C2016 11 24.92778 12 50 52.40 +69 21 08.6	13.5 VqEW072Z80
05143	C2016 11 24.93128 12 51 02.44 +69 20 29.3	13.4 VqEW072Z80
05143	C2016 11 24.93525 12 51 13.81 +69 19 44.9	13.5 VqEW072Z80
05143	C2016 11 24.93907 12 51 24.77 +69 19 02.0	13.4 VqEW072Z80
05143	C2016 11 24.94258 12 51 34.79 +69 18 22.8	13.5 VqEW072Z80
05143	C2016 11 24.94608 12 51 44.82 +69 17 43.2	13.5 VqEW072Z80
05143	C2016 11 24.94959 12 51 54.85 +69 17 03.8	13.7 VqEW072Z80
05143	C2016 11 24.95310 12 52 04.86 +69 16 24.4	13.6 VqEW072Z80
05143	C2016 11 24.95660 12 52 14.85 +69 15 44.8	13.6 VqEW072Z80
05143	C2016 11 24.96011 12 52 24.84 +69 15 05.3	13.6 VqEW072Z80
05143	C2016 11 24.96362 12 52 34.80 +69 14 25.8	13.7 VqEW072Z80
05143	C2016 11 24.96713 12 52 44.78 +69 13 46.1	13.6 VqEW072Z80
05143	C2016 11 24.97074 12 52 55.06 +69 13 05.2	13.6 VqEW072Z80
05143	C2016 11 24.97481 12 53 06.57 +69 12 19.4	13.6 VqEW072Z80
05143	C2016 11 24.98158 12 53 25.73 +69 11 02.7	13.6 VqEW072Z80
05587	C2016 11 24.38582 01 43 27.27 -03 45 18.6	17.4 wLEW072T05
05587	C2016 11 24.40066 01 43 26.87 -03 45 20.8	17.5 wLEW072T05
05587	C2016 11 24.41597 01 43 26.43 -03 45 23.8	17.7 wLEW072T05
05587	C2016 11 24.43193 01 43 25.87 -03 45 26.0	18.1 wLEW072T05
05653	C2016 11 24.28367 04 15 18.39 +38 25 32.9	16.2 VqEW072G96
05653	C2016 11 24.28789 04 15 17.98 +38 25 35.6	16.2 VqEW072G96
05653	C2016 11 24.29388 04 15 17.42 +38 25 39.6	16.2 VqEW072G96
05653	C2016 11 24.29840 04 15 17.00 +38 25 42.6	16.2 VqEW072G96
07341	C2016 11 24.27698 22 42 21.26 +12 42 16.9	16.6 wLEW072T05
07341	C2016 11 24.29149 22 42 20.58 +12 42 09.0	16.9 wLEW072T05

07341	C2016 11 24.30706 22 42 19.80 +12 42 00.1	16.9 wLEW072T05
07341	C2016 11 24.33742 22 42 18.36 +12 41 41.1	16.5 wLEW072T05
07341	C2016 11 24.45351 22 42 15.34 +12 40 31.9	16.4 RqEW072D29
07341	C2016 11 24.46765 22 42 14.65 +12 40 23.9	16.8 RqEW072D29
07341	C2016 11 24.48179 22 42 13.96 +12 40 15.7	16.9 RqEW072D29
09058	C2016 11 24.50710 00 07 13.74 +04 26 46.3	19.6 RqEW072D29
09058	C2016 11 24.53539 00 07 13.80 +04 26 27.6	20.5 RqEW072D29
10860	C2016 11 24.40918 07 19 41.05 +20 40 19.0	20.6 VqEW072G96
10860	C2016 11 24.42108 07 19 40.38 +20 40 18.9	21.1 VqEW072G96
10860	C2016 11 24.42536 07 19 40.12 +20 40 18.7	20.7 VqEW072G96
11500	KC2016 11 16.18435 09 54 06.33 +02 13 35.2	17.1 RqEW072160
11500	KC2016 11 16.18565 09 54 06.94 +02 13 26.9	17.8 RqEW072160
11500	KC2016 11 16.18687 09 54 07.55 +02 13 19.2	17.6 RqEW072160
12538	C2016 11 24.42020 02 29 11.69 +04 27 16.3	17.6 wLEW072T05
12538	C2016 11 24.43560 02 29 10.22 +04 26 52.8	17.7 wLEW072T05
12538	C2016 11 24.45164 02 29 08.75 +04 26 27.9	17.7 wLEW072T05
12538	C2016 11 24.46753 02 29 07.27 +04 26 04.6	17.9 wLEW072T05
20460	KC2016 11 16.19009 09 55 17.89 +03 52 33.0	18.0 RqEW072160
20460	KC2016 11 16.19191 09 55 18.14 +03 52 28.7	18.1 RqEW072160
20460	KC2016 11 16.19373 09 55 18.32 +03 52 25.2	18.3 RqEW072160
66146	7C2016 11 18.03046 19 25 18.13 -25 43 41.1	16.8 V EW072W88
66146	7C2016 11 18.03260 19 25 18.73 -25 43 40.1	16.8 V EW072W88
96590	C2016 11 24.46598 03 56 34.80 -09 38 05.7	13.4 wLEW072T05
96590	C2016 11 24.48518 03 56 25.53 -09 36 01.8	13.2 wLEW072T05
96590	C2016 11 24.49079 03 56 22.82 -09 35 25.3	13.2 wLEW072T05
96590	C2016 11 24.50981 03 56 13.66 -09 33 22.3	13.3 wLEW072T05
D8846	KC2016 11 16.12357 07 10 07.74 +28 07 42.9	18.0 RqEW072160
D8846	KC2016 11 16.12558 07 10 07.85 +28 07 42.1	17.9 RqEW072160
D8846	KC2016 11 16.12759 07 10 07.98 +28 07 41.5	18.0 RqEW072160
D8846	C2016 11 24.48866 07 11 33.753+26 49 27.90	18.1 wLEW072F51
D8846	C2016 11 24.51273 07 11 33.636+26 49 12.97	18.0 wLEW072F51
D8846	C2016 11 24.52485 07 11 33.572+26 49 05.43	17.9 wLEW072F51
D8852	C2016 11 24.18291 02 04 44.45 +03 19 12.6	17.6 VqEW072G96
D8852	C2016 11 24.18718 02 04 43.40 +03 19 41.2	17.7 VqEW072G96
D8852	C2016 11 24.19147 02 04 42.34 +03 20 09.5	qEW072G96
D8852	C2016 11 24.19576 02 04 41.26 +03 20 37.9	17.6 VqEW072G96
F2685	KC2016 11 16.17133 09 01 37.94 +15 45 33.4	17.1 RqEW072160
F2685	KC2016 11 16.17294 09 01 39.97 +15 45 25.3	17.1 RqEW072160
F2685	KC2016 11 16.17457 09 01 42.06 +15 45 16.2	16.5 RqEW072160
F3306	C2016 11 24.14446 01 10 54.69 +13 51 53.4	19.6 VqEW072G96
F3306	C2016 11 24.15083 01 10 54.46 +13 51 45.3	19.4 VqEW072G96
F3306	C2016 11 24.15511 01 10 54.32 +13 51 39.6	19.6 VqEW072G96
F3306	C2016 11 24.15939 01 10 54.19 +13 51 34.5	19.6 VqEW072G96
K3217	C2016 11 24.37139 04 51 17.924+12 37 55.38	18.1 wLEW072F51
K3217	C2016 11 24.38306 04 51 17.515+12 37 49.37	18.2 wLEW072F51
K3217	C2016 11 24.39468 04 51 17.115+12 37 43.37	18.1 wLEW072F51
K3217	C2016 11 24.40640 04 51 16.699+12 37 37.30	18.2 wLEW072F51
M5416	KC2016 11 16.13097 07 19 11.03 +37 18 54.7	17.7 RqEW072160
M5416	KC2016 11 16.13294 07 19 11.11 +37 19 01.7	18.1 RqEW072160
M5416	KC2016 11 16.13490 07 19 11.22 +37 19 06.5	17.7 RqEW072160
M5416	KC2016 11 25.01278 07 31 38.81 +47 04 11.7	17.3 VqEW072Z80
M5416	KC2016 11 25.01866 07 31 39.48 +47 04 41.5	qEW072Z80
M5416	KC2016 11 25.02357 07 31 39.86 +47 05 09.3	qEW072Z80
P6412	C2016 11 24.14538 01 09 03.92 +19 46 31.7	18.9 VqEW072G96
P6412	C2016 11 24.15175 01 09 03.33 +19 46 34.2	18.8 VqEW072G96
P6412	C2016 11 24.15603 01 09 03.01 +19 46 35.5	18.9 VqEW072G96
P6412	C2016 11 24.16031 01 09 02.60 +19 46 37.3	18.9 VqEW072G96
U4293	C2016 11 24.06808 22 36 20.86 -03 04 57.0	20.6 VqEW072G96

U4293	C2016 11 24.07409 22 36 21.81 -03 05 03.0	20.9 VqEW072G96
U4293	C2016 11 24.07846 22 36 22.51 -03 05 07.4	20.6 VqEW072G96
U4293	C2016 11 24.08277 22 36 23.14 -03 05 12.6	21.1 VqEW072G96
U8041	C2016 11 24.08647 00 39 31.03 +16 50 33.9	20.5 VqEW072G96
U8041	C2016 11 24.09073 00 39 30.68 +16 50 33.5	20.9 VqEW072G96
U8041	C2016 11 24.09504 00 39 30.36 +16 50 32.7	20.7 VqEW072G96
U8041	C2016 11 24.09932 00 39 29.99 +16 50 33.2	20.3 VqEW072G96
W6302	KC2016 11 16.15186 07 51 48.09 -05 14 16.7	17.3 RqEW072160
W6302	KC2016 11 16.15306 07 51 48.88 -05 14 30.9	17.1 RqEW072160
W6302	KC2016 11 16.15427 07 51 49.67 -05 14 45.7	17.6 RqEW072160
Z7024	C2016 11 24.59855 08 14 29.206+35 21 01.96	18.5 wLEW072F51
Z7024	C2016 11 24.61255 08 14 28.054+35 21 07.32	18.2 wLEW072F51
Z7024	C2016 11 24.62567 08 14 26.973+35 21 12.15	18.1 wLEW072F51
Z7024	C2016 11 24.63881 08 14 25.887+35 21 16.89	18.2 wLEW072F51
b8610	C2016 11 24.35686 00 53 59.03 +10 25 32.1	17.7 wLEW072T05
b8610	C2016 11 24.37159 00 53 58.11 +10 25 54.4	17.7 wLEW072T05
b8610	C2016 11 24.38642 00 53 57.29 +10 26 16.8	17.7 wLEW072T05
b8610	C2016 11 24.40174 00 53 56.44 +10 26 39.7	17.6 wLEW072T05
f3002	C2016 11 24.44906 07 47 01.97 +23 46 27.7	18.3 VqEW072G96
f3002	C2016 11 24.45334 07 47 02.71 +23 46 24.5	18.4 VqEW072G96
f3002	C2016 11 24.45766 07 47 03.51 +23 46 22.0	17.9 VqEW072G96
f3002	C2016 11 24.46193 07 47 04.17 +23 46 17.9	18.4 VqEW072G96
f4903	C2016 11 24.41315 04 24 20.312+02 02 20.06	19.0 wLEW072F51
f4903	C2016 11 24.43735 04 24 17.961+02 02 05.03	18.9 wLEW072F51
f4903	C2016 11 24.44949 04 24 16.789+02 01 57.42	18.8 wLEW072F51
f4960	C2016 11 24.54301 07 35 21.593+48 23 13.21	18.5 wLEW072F51
f4960	C2016 11 24.55693 07 35 20.725+48 22 46.51	18.5 wLEW072F51
f4960	C2016 11 24.57086 07 35 19.844+48 22 19.50	18.7 wLEW072F51
f7612	C2016 11 24.28708 03 21 49.03 +05 57 25.4	20.6 VqEW072G96
f7612	C2016 11 24.30024 03 21 47.78 +05 57 24.4	21.6 VqEW072G96
f7612	C2016 11 24.31122 03 21 46.79 +05 57 25.3	qEW072G96
k2959	C2016 11 24.18245 02 11 04.78 +01 42 26.7	19.1 VqEW072G96
k2959	C2016 11 24.18672 02 11 04.63 +01 42 29.9	19.9 VqEW072G96
k2959	C2016 11 24.19101 02 11 04.54 +01 42 32.7	19.8 VqEW072G96
k2959	C2016 11 24.19529 02 11 04.47 +01 42 34.8	19.8 VqEW072G96
l4611	HC2016 11 25.09108 20 32 05.23 +11 31 08.5	21.0 VoEW072691
l4611	HC2016 11 25.09880 20 32 06.49 +11 31 11.0	oEW072691
l4611	HC2016 11 25.10651 20 32 07.65 +11 31 15.3	oEW072691

A. U. Tomatic

(C) Copyright 2016 MPC

M.P.E.C. 2016-W72