

FIRST WEEK PASS PREDICTION, GROUND STATION ANTENNA AZIMUTH, ELEVATION, AND TRACKING RANGE OF TENKOH

Note: Times are estimated based on the launch occurring at 13:08 (JST) or 4:08 (UTC).

Pass Number	Date (YYYY/MM/DD)	Time (JST)	Azimuth (deg)	Elevation (deg)	Range (km)
1	2018/10/29	14:46:57	330.76	0.00	2848.58
	2018/10/29	14:47:57	322.36	1.80	2656.03
	2018/10/29	14:48:57	312.75	3.15	2520.45
	2018/10/29	14:49:57	302.30	3.84	2453.74
	2018/10/29	14:50:57	291.59	3.76	2461.65
	2018/10/29	14:51:57	281.27	2.91	2543.27
	2018/10/29	14:52:57	271.88	1.45	2691.40
	2018/10/29	14:53:44	265.31	0.00	2847.76
2	2018/10/29	22:25:58	72.98	0.00	2786.75
	2018/10/29	22:26:57	63.63	0.58	2726.82
	2018/10/29	22:27:57	53.98	0.55	2732.81
	2018/10/29	22:28:52	45.35	0.00	2797.17
3	2018/10/29	23:55:45	153.25	0.00	2764.20
	2018/10/29	23:56:44	151.15	4.02	2355.86
	2018/10/29	23:57:44	148.06	8.94	1950.44
	2018/10/29	23:58:44	143.18	15.32	1559.59
	2018/10/29	23:59:44	134.50	24.16	1200.21
	2018/10/30	0:00:44	116.39	36.29	912.84
	2018/10/30	0:01:44	77.85	45.54	783.18
	2018/10/30	0:02:44	36.52	38.24	884.21
	2018/10/30	0:03:44	16.23	25.91	1156.69
	2018/10/30	0:04:44	6.74	16.68	1509.71
	2018/10/30	0:05:44	1.56	10.05	1897.78
	2018/10/30	0:06:44	358.36	4.98	2301.98
	2018/10/30	0:07:44	356.23	0.84	2713.72
	2018/10/30	0:07:57	355.85	0.00	2806.31
4	2018/10/30	1:32:42	216.13	0.00	2765.54
	2018/10/30	1:33:42	223.28	2.86	2468.43
	2018/10/30	1:34:42	232.25	5.66	2212.68
	2018/10/30	1:35:42	243.35	8.13	2015.35
	2018/10/30	1:36:42	256.44	9.82	1895.51
	2018/10/30	1:37:42	270.65	10.26	1868.44
	2018/10/30	1:38:42	284.54	9.31	1937.92
	2018/10/30	1:39:42	296.82	7.30	2093.87
	2018/10/30	1:40:42	306.99	4.70	2318.14
	2018/10/30	1:41:42	315.17	1.91	2592.05
	2018/10/30	1:42:23	319.78	0.00	2798.90
5	2018/10/30	11:42:37	40.61	0.00	2849.09
	2018/10/30	11:43:36	47.49	2.75	2559.55
	2018/10/30	11:44:36	56.08	5.47	2305.07
	2018/10/30	11:45:36	66.59	7.90	2104.17
	2018/10/30	11:46:36	78.99	9.63	1974.42
	2018/10/30	11:47:36	92.58	10.24	1930.99
	2018/10/30	11:48:36	106.14	9.54	1979.96

	2018/10/30	11:49:36	118.42	7.73	2114.88
	2018/10/30	11:50:36	128.79	5.25	2320.48
	2018/10/30	11:51:36	137.23	2.50	2579.30
	2018/10/30	11:52:29	143.34	0.00	2842.34
6	2018/10/30	13:16:58	5.05	0.00	2847.67
	2018/10/30	13:17:58	3.38	4.00	2437.29
	2018/10/30	13:18:58	0.91	8.86	2030.89
	2018/10/30	13:19:58	356.99	15.09	1636.45
	2018/10/30	13:20:58	350.08	23.72	1267.65
	2018/10/30	13:21:58	335.64	36.12	957.01
	2018/10/30	13:22:58	300.93	48.98	779.50
	2018/10/30	13:23:58	252.27	44.74	826.64
	2018/10/30	13:24:58	227.65	30.69	1068.87
	2018/10/30	13:25:58	217.07	19.90	1408.14
	2018/10/30	13:26:58	211.59	12.38	1789.03
	2018/10/30	13:27:58	208.28	6.78	2188.66
	2018/10/30	13:28:58	206.09	2.31	2597.03
	2018/10/30	13:29:34	205.10	0.00	2841.35
7	2018/10/30	14:55:29	321.02	0.00	2849.03
	2018/10/30	14:56:29	311.98	1.05	2735.21
	2018/10/30	14:57:29	302.36	1.52	2685.29
	2018/10/30	14:58:29	292.61	1.35	2703.17
	2018/10/30	14:59:29	283.24	0.56	2787.28
	2018/10/30	14:59:58	279.03	0.00	2848.82
8	2018/10/30	22:31:51	89.95	0.00	2780.33
	2018/10/30	22:32:50	81.10	1.53	2618.23
	2018/10/30	22:33:50	71.13	2.56	2516.47
	2018/10/30	22:34:50	60.61	2.90	2486.44
	2018/10/30	22:35:50	50.15	2.49	2530.96
	2018/10/30	22:36:50	40.34	1.40	2646.20
	2018/10/30	22:37:43	32.49	0.00	2801.29
9	2018/10/31	0:03:11	160.36	0.00	2763.44
	2018/10/31	0:04:11	159.38	4.10	2347.31
	2018/10/31	0:05:11	157.93	9.19	1931.63
	2018/10/31	0:06:11	155.55	15.98	1525.14
	2018/10/31	0:07:11	151.04	26.10	1140.46
	2018/10/31	0:08:11	139.68	42.96	812.07
	2018/10/31	0:09:11	91.59	64.56	636.62
	2018/10/31	0:10:11	20.42	50.42	734.31
	2018/10/31	0:11:11	3.55	30.76	1029.84
	2018/10/31	0:12:11	357.78	19.03	1402.49
	2018/10/31	0:13:11	354.98	11.45	1803.97
	2018/10/31	0:14:11	353.38	5.94	2217.39
	2018/10/31	0:15:11	352.38	1.57	2635.72
	2018/10/31	0:15:35	352.07	0.00	2806.05
10	2018/10/31	1:41:00	226.10	0.00	2767.42
	2018/10/31	1:42:00	234.14	2.37	2519.42
	2018/10/31	1:43:00	243.78	4.46	2321.49
	2018/10/31	1:44:00	254.93	6.00	2188.73
	2018/10/31	1:45:00	267.10	6.70	2133.71

	2018/10/31	1:46:00	279.44	6.40	2162.39
	2018/10/31	1:47:00	291.00	5.17	2271.25
	2018/10/31	1:48:00	301.16	3.29	2449.01
	2018/10/31	1:49:00	309.75	1.04	2681.13
	2018/10/31	1:49:26	313.05	0.00	2796.60
11	2018/10/31	11:49:48	34.99	0.00	2848.84
	2018/10/31	11:50:48	41.01	3.15	2520.27
	2018/10/31	11:51:48	48.75	6.46	2220.54
	2018/10/31	11:52:48	58.77	9.76	1965.89
	2018/10/31	11:53:48	71.51	12.62	1777.28
	2018/10/31	11:54:48	86.70	14.32	1678.22
	2018/10/31	11:55:48	102.85	14.18	1685.20
	2018/10/31	11:56:48	117.78	12.27	1797.14
	2018/10/31	11:57:48	130.14	9.29	1996.20
	2018/10/31	11:58:48	139.79	5.95	2258.90
	2018/10/31	11:59:48	147.22	2.63	2564.94
	2018/10/31	12:00:38	152.11	0.00	2841.55
12	2018/10/31	13:24:38	1.32	0.00	2847.63
	2018/10/31	13:25:38	358.58	3.91	2446.58
	2018/10/31	13:26:38	354.64	8.54	2054.80
	2018/10/31	13:27:38	348.64	14.26	1682.04
	2018/10/31	13:28:38	338.75	21.52	1346.36
	2018/10/31	13:29:38	321.26	30.08	1084.73
	2018/10/31	13:30:38	292.23	35.89	961.04
	2018/10/31	13:31:38	260.44	32.58	1026.83
	2018/10/31	13:32:38	239.46	24.15	1252.25
	2018/10/31	13:33:38	227.64	16.35	1569.16
	2018/10/31	13:34:38	220.62	10.19	1932.00
	2018/10/31	13:35:38	216.08	5.26	2318.03
	2018/10/31	13:36:38	212.92	1.16	2716.02
	2018/10/31	13:36:57	212.13	0.00	2841.93
13	2018/10/31	22:38:22	101.67	0.00	2776.25
	2018/10/31	22:39:21	93.49	2.15	2550.34
	2018/10/31	22:40:21	83.73	3.96	2376.61
	2018/10/31	22:41:21	72.70	5.14	2272.80
	2018/10/31	22:42:21	61.01	5.45	2249.23
	2018/10/31	22:43:21	49.51	4.82	2308.60
	2018/10/31	22:44:21	38.98	3.40	2444.75
	2018/10/31	22:45:21	29.86	1.44	2645.41
	2018/10/31	22:46:00	24.75	0.00	2803.33
14	2018/11/1	0:10:43	167.42	0.00	2762.91
	2018/11/1	0:11:42	167.59	4.09	2348.24
	2018/11/1	0:12:42	167.83	9.21	1929.75
	2018/11/1	0:13:42	168.15	16.10	1518.72
	2018/11/1	0:14:42	168.68	26.59	1126.12
	2018/11/1	0:15:42	169.89	45.32	783.08
	2018/11/1	0:16:42	181.80	80.79	586.93
	2018/11/1	0:17:42	344.22	57.15	680.42
	2018/11/1	0:18:42	346.35	32.85	983.86
	2018/11/1	0:19:42	347.08	19.98	1362.76

	2018/11/1	0:20:42	347.53	12.01	1768.11
	2018/11/1	0:21:42	347.86	6.33	2183.92
	2018/11/1	0:22:42	348.16	1.87	2603.75
	2018/11/1	0:23:11	348.29	0.00	2805.69
15	2018/11/1	1:49:35	238.00	0.00	2770.22
	2018/11/1	1:50:34	246.77	1.73	2587.95
	2018/11/1	1:51:34	256.74	3.01	2462.10
	2018/11/1	1:52:34	267.50	3.64	2404.39
	2018/11/1	1:53:34	278.45	3.52	2419.70
	2018/11/1	1:54:34	288.94	2.66	2506.42
	2018/11/1	1:55:34	298.49	1.23	2657.01
	2018/11/1	1:56:16	304.43	0.00	2793.45
16	2018/11/1	11:57:06	30.03	0.00	2848.60
	2018/11/1	11:58:05	35.03	3.42	2493.84
	2018/11/1	11:59:05	41.69	7.24	2156.48
	2018/11/1	12:00:05	50.77	11.40	1854.44
	2018/11/1	12:01:05	63.27	15.60	1609.51
	2018/11/1	12:02:05	79.86	18.90	1452.35
	2018/11/1	12:03:05	99.27	19.80	1413.48
	2018/11/1	12:04:05	117.88	17.76	1502.43
	2018/11/1	12:05:05	132.82	13.91	1699.08
	2018/11/1	12:06:05	143.79	9.63	1970.90
	2018/11/1	12:07:05	151.73	5.57	2290.46
	2018/11/1	12:08:05	157.58	1.89	2639.49
	2018/11/1	12:08:38	160.19	0.00	2840.98
17	2018/11/1	13:32:21	357.50	0.00	2847.61
	2018/11/1	13:33:20	353.75	3.71	2464.97
	2018/11/1	13:34:20	348.47	8.02	2094.44
	2018/11/1	13:35:20	340.76	13.05	1751.77
	2018/11/1	13:36:20	329.04	18.77	1458.62
	2018/11/1	13:37:20	311.26	24.20	1251.82
	2018/11/1	13:38:20	287.63	26.55	1178.63
	2018/11/1	13:39:20	264.29	23.85	1262.66
	2018/11/1	13:40:20	246.99	18.32	1476.88
	2018/11/1	13:41:20	235.60	12.64	1773.91
	2018/11/1	13:42:20	228.05	7.67	2118.13
	2018/11/1	13:43:20	222.83	3.42	2488.77
	2018/11/1	13:44:15	219.31	0.00	2842.62
18	2018/11/1	22:45:08	111.55	0.00	2773.14
	2018/11/1	22:46:08	104.08	2.66	2496.25
	2018/11/1	22:47:08	94.81	5.15	2265.15
	2018/11/1	22:48:08	83.65	7.17	2098.67
	2018/11/1	22:49:08	70.97	8.30	2013.86
	2018/11/1	22:50:08	57.75	8.24	2021.56
	2018/11/1	22:51:08	45.27	7.02	2120.86
	2018/11/1	22:52:08	34.41	4.96	2299.62
	2018/11/1	22:53:08	25.45	2.46	2540.54
	2018/11/1	22:54:04	18.72	0.00	2804.61
19	2018/11/2	0:18:19	174.50	0.00	2762.60
	2018/11/2	0:19:18	175.83	4.04	2351.76

	2018/11/2	0:20:18	177.75	9.09	1938.13
	2018/11/2	0:21:18	180.75	15.79	1534.28
	2018/11/2	0:22:18	186.20	25.64	1153.14
	2018/11/2	0:23:18	199.11	41.62	829.32
	2018/11/2	0:24:18	245.08	60.73	656.25
	2018/11/2	0:25:18	310.12	48.95	747.84
	2018/11/2	0:26:18	329.26	30.48	1035.73
	2018/11/2	0:27:18	336.34	19.00	1403.04
	2018/11/2	0:28:18	340.00	11.48	1800.66
	2018/11/2	0:29:18	342.29	6.00	2210.96
	2018/11/2	0:30:18	343.89	1.64	2626.58
	2018/11/2	0:30:44	344.45	0.00	2805.15
20	2018/11/2	1:58:46	254.96	0.00	2775.16
	2018/11/2	1:59:46	264.40	0.79	2691.98
	2018/11/2	2:00:46	274.22	1.01	2671.80
	2018/11/2	2:01:46	283.95	0.63	2716.15
	2018/11/2	2:02:30	290.81	0.00	2788.22
21	2018/11/2	12:04:28	25.53	0.00	2848.39
	2018/11/2	12:05:27	29.51	3.65	2471.60
	2018/11/2	12:06:27	34.95	7.89	2104.39
	2018/11/2	12:07:27	42.69	12.86	1762.91
	2018/11/2	12:08:27	54.23	18.57	1467.32
	2018/11/2	12:09:27	71.66	24.17	1252.39
	2018/11/2	12:10:27	95.26	27.02	1164.96
	2018/11/2	12:11:27	119.37	24.74	1233.01
	2018/11/2	12:12:27	137.65	19.28	1434.46
	2018/11/2	12:13:27	149.79	13.49	1722.61
	2018/11/2	12:14:27	157.85	8.40	2060.54
	2018/11/2	12:15:27	163.45	4.06	2426.51
	2018/11/2	12:16:27	167.53	0.29	2808.39
	2018/11/2	12:16:32	167.81	0.00	2840.63
22	2018/11/2	13:40:06	353.51	0.00	2847.69
	2018/11/2	13:41:05	348.80	3.47	2487.75
	2018/11/2	13:42:05	342.31	7.37	2145.09
	2018/11/2	13:43:05	333.28	11.62	1840.10
	2018/11/2	13:44:05	320.65	15.87	1596.08
	2018/11/2	13:45:05	303.81	19.07	1445.38
	2018/11/2	13:46:05	284.34	19.69	1418.60
	2018/11/2	13:47:05	266.09	17.35	1522.25
	2018/11/2	13:48:05	251.75	13.35	1732.55
	2018/11/2	13:49:05	241.37	9.03	2015.52
	2018/11/2	13:50:05	233.93	4.99	2343.91
	2018/11/2	13:51:05	228.47	1.33	2699.94
	2018/11/2	13:51:28	226.74	0.00	2843.42
23	2018/11/2	22:52:05	120.42	0.00	2770.64
	2018/11/2	22:53:04	113.88	3.03	2456.57
	2018/11/2	22:54:04	105.36	6.15	2176.56
	2018/11/2	22:55:04	94.47	9.04	1953.01
	2018/11/2	22:56:04	81.10	11.19	1808.28
	2018/11/2	22:57:04	66.10	11.96	1762.73

	2018/11/2	22:58:04	51.24	11.05	1824.14
	2018/11/2	22:59:04	38.21	8.82	1982.45
	2018/11/2	23:00:04	27.70	5.92	2216.49
	2018/11/2	23:01:04	19.53	2.83	2504.33
	2018/11/2	23:02:00	13.61	0.00	2805.42
24	2018/11/3	0:26:00	181.69	0.00	2762.53
	2018/11/3	0:26:59	184.17	3.97	2359.00
	2018/11/3	0:27:59	187.73	8.82	1957.99
	2018/11/3	0:28:59	193.20	15.03	1572.81
	2018/11/3	0:29:59	202.62	23.48	1220.84
	2018/11/3	0:30:59	221.20	34.60	942.28
	2018/11/3	0:31:59	257.45	42.65	817.50
	2018/11/3	0:32:59	296.15	36.49	912.28
	2018/11/3	0:33:59	316.97	25.27	1174.15
	2018/11/3	0:34:59	327.36	16.47	1518.10
	2018/11/3	0:35:59	333.32	10.01	1898.88
	2018/11/3	0:36:59	337.18	5.02	2296.93
	2018/11/3	0:37:59	339.91	0.92	2703.19
	2018/11/3	0:38:14	340.48	0.00	2804.43
25	2018/11/3	12:11:54	21.34	0.00	2848.17
	2018/11/3	12:12:53	24.30	3.84	2453.12
	2018/11/3	12:13:53	28.39	8.43	2063.36
	2018/11/3	12:14:53	34.39	14.10	1690.87
	2018/11/3	12:15:53	44.04	21.36	1352.35
	2018/11/3	12:16:53	60.98	30.17	1082.43
	2018/11/3	12:17:53	89.93	36.84	943.69
	2018/11/3	12:18:53	123.34	34.16	993.49
	2018/11/3	12:19:53	145.79	25.50	1208.71
	2018/11/3	12:20:53	158.34	17.35	1520.07
	2018/11/3	12:21:53	165.76	10.95	1879.52
	2018/11/3	12:22:53	170.56	5.88	2263.15
	2018/11/3	12:23:53	173.92	1.69	2659.30
	2018/11/3	12:24:20	175.12	0.00	2840.43
26	2018/11/3	13:47:55	349.25	0.00	2847.79
	2018/11/3	13:48:54	343.57	3.22	2512.57
	2018/11/3	13:49:54	336.02	6.64	2204.81
	2018/11/3	13:50:54	326.04	10.06	1944.69
	2018/11/3	13:51:54	313.17	13.00	1754.73
	2018/11/3	13:52:54	297.72	14.66	1659.96
	2018/11/3	13:53:54	281.44	14.34	1676.86
	2018/11/3	13:54:54	266.64	12.21	1802.05
	2018/11/3	13:55:54	254.63	9.06	2014.83
	2018/11/3	13:56:54	245.41	5.61	2290.01
	2018/11/3	13:57:54	238.40	2.24	2606.79
	2018/11/3	13:58:36	234.51	0.00	2844.32
27	2018/11/3	22:59:09	128.64	0.00	2768.57
	2018/11/3	23:00:08	123.05	3.36	2422.99
	2018/11/3	23:01:08	115.49	7.02	2102.17
	2018/11/3	23:02:08	105.25	10.81	1828.02
	2018/11/3	23:03:08	91.59	14.21	1625.96

	2018/11/3	23:04:08	74.75	16.18	1526.07
	2018/11/3	23:05:08	56.89	15.79	1548.83
	2018/11/3	23:06:08	41.04	13.25	1689.31
	2018/11/3	23:07:08	28.67	9.68	1921.43
	2018/11/3	23:08:08	19.53	5.94	2215.81
	2018/11/3	23:09:08	12.79	2.39	2549.98
	2018/11/3	23:09:51	9.03	0.00	2805.95
28	2018/11/4	0:33:46	189.05	0.00	2762.74
	2018/11/4	0:34:45	192.68	3.83	2372.27
	2018/11/4	0:35:45	197.78	8.36	1991.71
	2018/11/4	0:36:45	205.36	13.87	1635.86
	2018/11/4	0:37:45	217.38	20.54	1326.74
	2018/11/4	0:38:45	236.99	27.40	1105.90
	2018/11/4	0:39:45	264.86	30.42	1032.60
	2018/11/4	0:40:45	291.70	26.50	1135.84
	2018/11/4	0:41:45	309.83	19.58	1375.91
	2018/11/4	0:42:45	320.94	13.17	1694.73
	2018/11/4	0:43:45	328.06	7.88	2054.81
	2018/11/4	0:44:45	332.95	3.51	2436.61
	2018/11/4	0:45:41	336.31	0.00	2803.58
29	2018/11/4	10:48:29	76.98	0.00	2849.05
	2018/11/4	10:49:28	86.09	0.30	2815.68
	2018/11/4	10:50:28	95.36	0.06	2841.35
	2018/11/4	10:50:34	96.33	0.00	2847.61
30	2018/11/4	12:19:22	17.38	0.00	2848.02
	2018/11/4	12:20:22	19.27	3.97	2440.80
	2018/11/4	12:21:22	21.89	8.80	2035.54
	2018/11/4	12:22:22	25.81	15.01	1641.12
	2018/11/4	12:23:22	32.47	23.65	1270.25
	2018/11/4	12:24:22	46.10	36.31	953.45
	2018/11/4	12:25:22	80.28	50.58	763.58
	2018/11/4	12:26:22	132.85	47.17	798.19
	2018/11/4	12:27:22	159.00	32.17	1034.97
	2018/11/4	12:28:22	169.81	20.78	1372.41
	2018/11/4	12:29:22	175.38	12.97	1752.36
	2018/11/4	12:30:22	178.76	7.23	2151.28
	2018/11/4	12:31:22	181.04	2.68	2559.04
	2018/11/4	12:32:03	182.22	0.00	2840.37
31	2018/11/4	13:55:48	344.60	0.00	2847.93
	2018/11/4	13:56:47	338.01	2.89	2545.16
	2018/11/4	13:57:47	329.58	5.76	2279.29
	2018/11/4	13:58:47	319.05	8.34	2070.00
	2018/11/4	13:59:47	306.46	10.18	1936.60
	2018/11/4	14:00:47	292.57	10.78	1895.62
	2018/11/4	14:01:47	278.81	9.94	1952.90
	2018/11/4	14:02:47	266.53	7.94	2100.02
	2018/11/4	14:03:47	256.35	5.29	2319.23
	2018/11/4	14:04:47	248.21	2.40	2591.35
	2018/11/4	14:05:37	242.77	0.00	2845.29
32	2018/11/4	23:06:19	136.41	0.00	2766.90

	2018/11/4	23:07:19	131.76	3.67	2391.73
	2018/11/4	23:08:19	125.34	7.82	2037.52
	2018/11/4	23:09:19	116.16	12.50	1719.59
	2018/11/4	23:10:19	102.77	17.39	1463.76
	2018/11/4	23:11:19	84.13	21.18	1308.51
	2018/11/4	23:12:19	62.25	21.71	1291.51
	2018/11/4	23:13:19	42.50	18.61	1417.92
	2018/11/4	23:14:19	27.92	13.88	1654.81
	2018/11/4	23:15:19	17.92	9.14	1961.81
	2018/11/4	23:16:19	11.02	4.89	2310.13
	2018/11/4	23:17:19	6.11	1.13	2682.53
	2018/11/4	23:17:38	4.82	0.00	2806.26
33	2018/11/5	0:41:37	196.69	0.00	2763.17
	2018/11/5	0:42:36	201.40	3.59	2394.92
	2018/11/5	0:43:36	207.89	7.71	2042.52
	2018/11/5	0:44:36	217.09	12.35	1725.21
	2018/11/5	0:45:36	230.38	17.23	1467.55
	2018/11/5	0:46:36	248.87	21.15	1306.50
	2018/11/5	0:47:36	270.85	21.95	1279.61
	2018/11/5	0:48:36	291.11	19.08	1394.54
	2018/11/5	0:49:36	306.33	14.43	1620.81
	2018/11/5	0:50:36	316.93	9.69	1918.49
	2018/11/5	0:51:36	324.36	5.42	2258.38
	2018/11/5	0:52:36	329.77	1.65	2622.81
	2018/11/5	0:53:05	331.86	0.00	2802.49
34	2018/11/5	10:54:11	58.97	0.00	2849.50
	2018/11/5	10:55:11	67.69	1.47	2689.91
	2018/11/5	10:56:11	77.34	2.48	2586.03
	2018/11/5	10:57:11	87.54	2.87	2546.41
	2018/11/5	10:58:11	97.79	2.58	2574.40
	2018/11/5	10:59:11	107.57	1.66	2667.93
	2018/11/5	11:00:11	116.48	0.23	2820.31
	2018/11/5	11:00:19	117.63	0.00	2845.26
35	2018/11/5	12:26:54	13.56	0.00	2847.85
	2018/11/5	12:27:54	14.38	4.06	2432.05
	2018/11/5	12:28:54	15.47	9.03	2018.37
	2018/11/5	12:29:54	17.06	15.56	1612.03
	2018/11/5	12:30:54	19.76	25.10	1223.02
	2018/11/5	12:31:54	25.89	40.98	877.54
	2018/11/5	12:32:54	53.61	67.56	651.71
	2018/11/5	12:33:54	160.23	61.91	679.20
	2018/11/5	12:34:54	178.96	37.12	937.94
	2018/11/5	12:35:54	183.98	22.85	1295.46
	2018/11/5	12:36:54	186.33	14.06	1689.19
	2018/11/5	12:37:54	187.72	7.91	2097.65
	2018/11/5	12:38:54	188.65	3.15	2512.34
	2018/11/5	12:39:41	189.20	0.00	2840.50
36	2018/11/5	14:03:46	339.31	0.00	2848.15
	2018/11/5	14:04:46	331.83	2.50	2584.35
	2018/11/5	14:05:46	322.72	4.76	2368.67

	2018/11/5	14:06:46	311.99	6.50	2216.80
	2018/11/5	14:07:46	300.04	7.41	2142.91
	2018/11/5	14:08:46	287.71	7.25	2155.19
	2018/11/5	14:09:46	276.03	6.08	2252.00
	2018/11/5	14:10:46	265.73	4.16	2422.68
	2018/11/5	14:11:46	257.06	1.81	2652.20
	2018/11/5	14:12:29	251.77	0.00	2846.35
37	2018/11/5	23:13:35	143.87	0.00	2765.53
	2018/11/5	23:14:34	140.35	3.82	2375.76
	2018/11/5	23:15:34	135.31	8.37	1994.44
	2018/11/5	23:16:34	127.73	13.87	1638.80
	2018/11/5	23:17:34	115.64	20.47	1331.81
	2018/11/5	23:18:34	95.95	27.10	1116.34
	2018/11/5	23:19:34	68.48	29.71	1051.54
	2018/11/5	23:20:34	42.58	25.64	1163.22
	2018/11/5	23:21:34	25.23	18.84	1409.71
	2018/11/5	23:22:34	14.65	12.56	1733.69
	2018/11/5	23:23:34	7.96	7.37	2098.55
	2018/11/5	23:24:34	3.47	3.04	2485.12
	2018/11/5	23:25:22	0.82	0.00	2806.38
38	2018/11/6	0:49:34	204.74	0.00	2763.96
	2018/11/6	0:50:34	210.57	3.34	2420.07
	2018/11/6	0:51:34	218.29	6.94	2104.24
	2018/11/6	0:52:34	228.64	10.65	1834.44
	2018/11/6	0:53:34	242.28	13.97	1634.84
	2018/11/6	0:54:34	259.02	15.94	1533.86
	2018/11/6	0:55:34	276.82	15.65	1551.10
	2018/11/6	0:56:34	292.82	13.29	1682.65
	2018/11/6	0:57:34	305.52	9.86	1904.28
	2018/11/6	0:58:34	315.10	6.21	2187.84
	2018/11/6	0:59:34	322.30	2.72	2511.29
	2018/11/6	1:00:24	327.00	0.00	2801.15
39	2018/11/6	11:00:53	49.54	0.00	2849.38
	2018/11/6	11:01:53	57.55	2.14	2621.28
	2018/11/6	11:02:53	66.93	3.97	2441.43
	2018/11/6	11:03:53	77.55	5.26	2323.41
	2018/11/6	11:04:53	88.96	5.78	2277.60
	2018/11/6	11:05:53	100.44	5.41	2308.67
	2018/11/6	11:06:53	111.25	4.24	2413.72
	2018/11/6	11:07:53	120.88	2.47	2583.50
	2018/11/6	11:08:53	129.14	0.35	2805.81
	2018/11/6	11:09:02	130.28	0.00	2843.75