

## VIMS Specular Reflection geometry

This Table provides the location (lat,long) of specular reflection points at the North polar regions during Titan flybys. They may not have been observed by VIMS because of the spacecraft pointing

Lat	Lon (W)	Inc	Time (hr)	Flyby	Rev	Sequence	C/A Date/Time	Calendar Date	Altitude (km)
74.33	194.5	86.2	-0.10	T032	46	S31	2007_164T17:47:57	13-Jun-2007	965
68.02	203.4	79.8	-0.05	T032	46	S31			
57.02	206.3	68.9	0.00	T032	46	S31			
59.14	360.3	66.3	-1.00	T053	109	S49	2009_110T00:20:46	20-Apr-2009	3599
61.84	360.3	68.4	-0.83	T053	109	S49			
65.77	359.3	71.3	-0.67	T053	109	S49			
66.78	358.8	72.0	-0.63	T053	109	S49			
67.89	358.1	72.8	-0.60	T053	109	S49			
69.15	357.2	73.6	-0.57	T053	109	S49			
70.55	355.9	74.6	-0.53	T053	109	S49			
72.03	353.9	75.6	-0.50	T053	109	S49			
73.71	351.0	76.7	-0.47	T053	109	S49			
75.45	346.4	77.9	-0.43	T053	109	S49			
77.30	339.1	79.2	-0.40	T053	109	S49			
80.20	327.0	81.8	-0.37	T053	109	S49			
79.99	307.7	82.1	-0.33	T053	109	S49			
79.13	283.4	83.7	-0.30	T053	109	S49			
75.69	262.8	85.4	-0.27	T053	109	S49			
69.58	249.9	87.1	-0.23	T053	109	S49			
60.76	242.8	88.7	-0.20	T053	109	S49			
62.10	359.6	68.4	-1.00	T054	110	S50	2009_125T22:54:16	5-May-2009	3242
68.63	358.1	73.3	-0.67	T054	110	S50			
69.66	357.5	74.0	-0.63	T054	110	S50			
70.78	356.6	74.8	-0.60	T054	110	S50			
71.99	355.3	75.6	-0.57	T054	110	S50			
73.37	353.5	76.6	-0.53	T054	110	S50			
74.87	350.8	77.6	-0.50	T054	110	S50			
76.54	346.7	78.7	-0.47	T054	110	S50			
78.25	340.0	79.9	-0.43	T054	110	S50			
79.79	328.8	81.1	-0.40	T054	110	S50			
80.96	310.5	82.6	-0.37	T054	110	S50			
80.54	285.8	84.2	-0.33	T054	110	S50			
77.74	263.5	85.8	-0.30	T054	110	S50			
72.38	609.3	87.5	-0.27	T054	110	S50			
64.35	601.4	89.1	-0.23	T054	110	S50			
53.26	598.5	90.0	-0.20	T054	110	S50			
53.75	346.5	60.8	-12.00	T055	111	S50	2009_141T21:26:42	21-May-2009	966
53.86	348.5	60.9	-10.00	T055	111	S50			
54.05	350.5	61.1	-8.00	T055	111	S50			
54.34	352.5	61.4	-6.00	T055	111	S50			
55.05	354.7	62.0	-4.00	T055	111	S50			
57.24	357.5	64.1	-2.00	T055	111	S50			
59.40	342.1	64.8	-15.00	T056	112	S50	2009_157T20:00:01	6-Jun-2009	968
59.38	345.1	64.9	-12.00	T056	112	S50			
59.57	348.2	65.1	-9.00	T056	112	S50			
59.99	351.3	65.5	-6.00	T056	112	S50			
65.19	342.6	69.0	-12.00	T057	113	S51	2009_173T18:32:36	22-Jun-2009	955
65.26	345.7	69.1	-9.00	T057	113	S51			
65.69	348.9	69.6	-6.00	T057	113	S51			
67.22	352.4	71.0	-3.00	T057	113	S51			
68.78	353.8	72.4	-2.00	T057	113	S51			
70.35	354.6	73.8	-1.50	T057	113	S51			
73.64	355.4	76.7	-1.00	T057	113	S51			
83.74	339.0	84.5	-0.50	T057	113	S51			

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71.18	331.9	73.0	-16.00	T058	114	S51	2009_189T17:04:04	8-Jul-2009	966
71.14	334.4	73.1	-14.00	T058	114	S51			
71.13	336.8	73.1	-12.00	T058	114	S51			
71.18	339.1	73.2	-10.00	T058	114	S51			
71.37	341.4	73.5	-8.00	T058	114	S51			
71.67	343.5	73.8	-6.00	T058	114	S51			
73.89	346.8	75.8	-2.50	T058	114	S51			
74.90	347.0	76.6	-2.00	T058	114	S51			
76.55	346.5	78.0	-1.50	T058	114	S51			
80.00	342.4	80.9	-1.00	T058	114	S51			
83.99	258.8	87.8	-0.53	T058	114	S51			
82.56	246.5	88.7	-0.50	T058	114	S51			
80.39	237.5	89.7	-0.47	T058	114	S51			
-65.53	250.3	83.1	0.00	T058	114	S51			
77.41	300.1	77.5	-24.00	T059	115	S52	2009_205T15:34:04	24-Jul-2009	956
77.03	306.2	77.2	-21.00	T059	115	S52			
77.02	311.8	77.2	-18.00	T059	115	S52			
76.85	316.8	77.1	-15.00	T059	115	S52			
76.99	321.4	77.3	-12.00	T059	115	S52			
77.12	325.3	77.4	-9.00	T059	115	S52			
77.60	328.3	77.9	-6.00	T059	115	S52			
79.17	328.0	79.4	-3.00	T059	115	S52			
79.66	326.4	79.8	-2.50	T059	115	S52			
80.90	323.1	81.0	-2.00	T059	115	S52			
82.05	314.1	82.2	-1.50	T059	115	S52			
83.18	281.3	85.0	-1.00	T059	115	S52			
80.02	279.7	82.0	-6.00	T060	116	S52	2009_221T14:03:54	9-Aug-2009	971
80.10	275.8	82.7	-4.00	T060	116	S52			
78.82	257.9	84.9	-2.00	T060	116	S52			
-70.62	289.2	74.1	0.00	T060	116	S52			
64.73	235.5	84.8	-9.00	T061	117	S53	2009_237T12:51:39	25-Aug-2009	961
63.47	236.7	84.9	-7.00	T061	117	S53			
60.75	237.3	85.1	-5.00	T061	117	S53			
54.06	237.1	85.4	-3.00	T061	117	S53			
56.00	306.2	75.2	-0.27	T069	132	S60	2010_156T02:26:28	5-Jun-2010	2042
58.81	303.4	74.5	-0.23	T069	132	S60			
61.57	299.3	73.5	-0.20	T069	132	S60			
64.18	293.6	72.2	-0.17	T069	132	S60			
66.36	285.7	70.5	-0.13	T069	132	S60			
67.64	275.1	68.3	-0.10	T069	132	S60			
67.52	262.6	65.4	-0.07	T069	132	S60			
65.69	250.3	61.8	-0.03	T069	132	S60			
62.30	240.2	57.7	0.00	T069	132	S60			
57.18	233.0	52.6	0.03	T069	132	S60			
52.28	228.2	48.1	0.07	T069	132	S60			
59.17	309.5	77.5	-0.25	T070	133	S60	2010_172T01:27:18	21-Jun-2010	878
62.33	307.5	77.3	-0.22	T070	133	S60			
65.71	304.3	76.8	-0.18	T070	133	S60			
69.20	299	76.1	-0.15	T070	133	S60			
72.49	289.6	75.0	-0.12	T070	133	S60			
74.85	273.7	73.2	-0.08	T070	133	S60			
74.69	251.5	70.4	-0.05	T070	133	S60			
70.81	232.1	65.9	-0.02	T070	133	S60			
67.41	225.8	62.9	0.00	T070	133	S60			
63.53	221.5	59.6	0.02	T070	133	S60			
54.82	217	52.2	0.05	T070	133	S60			
51.98	91.00	82.6	-4.00	T079	158	S71	2011_347T20:11:24	13-Dec-2011	3583
53.85	90.30	83.0	-3.50	T079	158	S71			
56.47	89.20	83.3	-3.00	T079	158	S71			

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60.32	87.00	83.8	-2.50	T079	158	S71			
66.36	82.00	84.4	-2.00	T079	158	S71			
76.34	63.90	85.2	-1.50	T079	158	S71			
76.26	315.10	86.0	-1.00	T079	158	S71			
42.41	282.00	84.3	-0.50	T079	158	S71			
81.45	36.00	82.8	-18.00	T083	166	S73	2012_143T01:10:11	22-May-2012	953
80.74	45.90	82.7	-15.00	T083	166	S73			
80.04	54.10	82.7	-12.00	T083	166	S73			
79.39	61.00	82.6	-9.00	T083	166	S73			
78.80	67.30	82.5	-6.00	T083	166	S73			
78.10	74.80	82.2	-3.00	T083	166	S73			
63.03	168.60	53.5	0.00	T083	166	S73			
79.87	43.30	80.6	-15.00	T084	167	S73	2012_159T00:07:21	6-Jun-2012	959
82.92	35.10	80.0	-12.00	T084	167	S73			
83.73	36.60	79.6	-9.00	T084	167	S73			
83.70	43.70	79.3	-6.00	T084	167	S73			
83.27	52.30	79.0	-3.00	T084	167	S73			
82.66	60.20	78.8	0.00	T084	167	S73			
82.45	62.60	78.7	1.00	T084	167	S73			
81.82	69.00	78.6	4.00	T084	167	S73			
81.28	74.30	78.4	7.00	T084	167	S73			
80.91	78.70	78.4	10.00	T084	167	S73			
80.79	82.20	78.3	13.00	T084	167	S73			
81.10	84.40	78.3	16.00	T084	167	S73			
82.32	83.60	78.3	19.00	T084	167	S73			
86.60	41.70	78.4	22.00	T084	167	S73			
86.59	285.30	75.7	-22.00	T085	169	S74	2012_206T20:03:07	24-Jul-2012	1013
87.16	287.30	75.5	-19.00	T085	169	S74			
87.73	290.00	75.3	-16.00	T085	169	S74			
88.28	293.50	75.2	-13.00	T085	169	S74			
88.83	298.40	75.1	-10.00	T085	169	S74			
89.43	308.80	74.9	-7.00	T085	169	S74			
89.55	99.70	74.7	-4.00	T085	169	S74			
87.83	117.60	74.3	-2.00	T085	169	S74			
86.83	120.10	74.0	-1.50	T085	169	S74			
85.07	123.20	73.4	-1.00	T085	169	S74			
82.88	126.40	72.6	-0.67	T085	169	S74			
81.08	129.10	71.7	-0.50	T085	169	S74			
78.22	133.60	70.0	-0.33	T085	169	S74			
72.59	143.50	65.4	-0.17	T085	169	S74			
52.96	169.00	44.1	0.00	T085	169	S74			
84.37	114.70	71.3	-22.00	T086	172	S75	2012_270T14:35:38	26-Sep-2012	956
83.95	118.80	71.0	-19.00	T086	172	S75			
83.57	122.30	70.8	-16.00	T086	172	S75			
83.25	125.60	70.5	-13.00	T086	172	S75			
82.99	128.80	70.4	-10.00	T086	172	S75			
82.82	132.40	70.2	-7.00	T086	172	S75			
82.74	137.30	69.9	-4.00	T086	172	S75			
82.59	154.30	68.4	-1.00	T086	172	S75			
82.59	154.30	68.4	-1.00	T086	172	S75			
82.45	157.80	68.1	-0.83	T086	172	S75			
82.19	162.50	67.5	-0.67	T086	172	S75			
81.61	169.10	66.5	-0.50	T086	172	S75			
80.23	178.30	64.7	-0.33	T086	172	S75			
75.45	190.40	59.5	-0.17	T086	172	S75			
80.75	132.30	66.6	-22.00	T087	174	S76	2012_318T10:22:08	13-Nov-2012	973
80.32	135.30	66.3	-19.00	T087	174	S76			
79.92	137.80	66.1	-16.00	T087	174	S76			
79.54	139.90	65.9	-13.00	T087	174	S76			

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79.13	141.60	65.7	-10.00	T087	174	S76			
78.61	142.50	65.7	-7.00	T087	174	S76			
77.58	141.10	65.7	-4.00	T087	174	S76			
70.52	129.10	66.1	-1.00	T087	174	S76			
70.52	125.70	63.4	-13.00	T088	175	S76	2012_334T08:57:59	29-Nov-2012	1014
70.18	128.60	63.2	-10.00	T088	175	S76			
69.76	131.30	63.0	-7.00	T088	175	S76			
68.97	133.70	62.8	-4.00	T088	175	S76			
64.46	134.80	61.7	-1.00	T088	175	S76			
63.35	119.70	58.9	-18.00	T089	181	S77	2013_048T01:56:35	17-Feb-2013	1978
63.07	122.90	58.6	-15.00	T089	181	S77			
62.79	126.00	58.4	-12.00	T089	181	S77			
58.83	116.80	55.4	-22.00	T090	185	S78	2013_095T21:43:31	5-Apr-2013	1400
58.59	119.90	55.2	-19.00	T090	185	S78			
58.35	122.90	55.0	-16.00	T090	185	S78			
58.09	125.80	54.9	-13.00	T090	185	S78			
57.77	128.60	54.7	-10.00	T090	185	S78			
57.33	131.10	54.7	-7.00	T090	185	S78			
56.32	133.20	54.7	-4.00	T090	185	S78			
49.79	131.80	55.1	-1.00	T090	185	S78			
52.33	120.40	52.8	-16.00	T091	190	S78	2013_143T17:32:55	23-May-2013	970
52.33	123.40	52.7	-13.00	T091	190	S78			
52.40	126.50	52.5	-10.00	T091	190	S78			
52.61	129.60	52.5	-7.00	T091	190	S78			
53.24	133.00	52.3	-4.00	T091	190	S78			
57.43	140.20	51.8	-1.00	T091	190	S78			
55.69	120.90	49.5	-22.00	T092	194	S79	2013_191T13:21:47	10-Jul-2013	964
55.62	124.00	49.3	-19.00	T092	194	S79			
55.56	127.10	49.2	-16.00	T092	194	S79			
55.54	130.20	49.0	-13.00	T092	194	S79			
55.57	133.30	48.9	-10.00	T092	194	S79			
55.72	136.50	48.8	-7.00	T092	194	S79			
56.18	140.10	48.6	-4.00	T092	194	S79			
59.15	148.80	47.8	-1.00	T092	194	S79			
57.67	130.20	46.0	-22.00	T093	195	S79	2013_207T11:56:22	26-Jul-2013	1399
57.60	133.30	45.9	-19.00	T093	195	S79			
57.59	136.30	45.8	-16.00	T093	195	S79			
57.58	139.40	45.7	-13.00	T093	195	S79			
57.66	142.50	45.6	-10.00	T093	195	S79			
57.84	145.80	45.6	-7.00	T093	195	S79			
58.33	149.80	45.5	-4.00	T093	195	S79			
61.28	161.60	45.0	-1.00	T093	195	S79			
63.33	175.70	44.4	-0.50	T093	195	S79			
63.35	181.30	44.0	-0.42	T093	195	S79			
63.04	189.00	43.7	-0.33	T093	195	S79			
61.68	199.70	43.4	-0.25	T093	195	S79			
57.15	212.90	42.8	-0.17	T093	195	S79			
46.55	225.10	42.0	-0.08	T093	195	S79			
28.67	230.70	41.8	0.00	T093	195	S79			
58.51	149.70	42.7	-10.00	T094	197	S80	2013_255T07:43:56	12-Sep-2013	1397
58.43	152.90	42.5	-7.00	T094	197	S80			
58.28	156.60	42.1	-4.00	T094	197	S80			
57.10	165.10	39.5	-1.00	T094	197	S80			
54.95	172.10	36.1	-0.50	T094	197	S80			
54.04	174.40	34.9	-0.42	T094	197	S80			
52.48	177.50	33.0	-0.33	T094	197	S80			
49.79	181.70	30.0	-0.25	T094	197	S80			
56.16	156.00	38.5	-9.00	T095	198	S80	2013_287T04:56:27	14-Oct-2013	961
56.02	159.20	38.3	-6.00	T095	198	S80			

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55.76	163.00	37.8	-3.00	T095	198	S80			
11.07	200.60	19.3	0.00	T095	198	S80			
52.61	159.00	33.7	-9.00	T096	199	S81	2013_335T00:41:19	1-Dec-2013	1400
52.48	161.40	33.6	-6.00	T096	199	S81			
51.77	163.20	33.3	-3.00	T096	199	S81			
76.94	286.90	65.1	1.00	T101	204	S83	2014_137T16:12:15	17-May-2014	2994
72.35	312.90	57.5	3.00	T101	204	S83			
71.21	318.30	56.0	5.00	T101	204	S83			
70.74	321.50	55.4	7.00	T101	204	S83			
70.51	324.00	55.1	9.00	T101	204	S83			
70.41	326.20	54.9	11.00	T101	204	S83			
70.35	328.30	54.8	13.00	T101	204	S83			
70.35	330.30	54.8	15.00	T101	204	S83			
72.33	289.50	63.0	1.00	T102	205	S84	2014_169T13:28:25	18-Jun-2014	3659
69.84	315.50	54.9	3.00	T102	205	S84			
68.98	321.40	53.3	5.00	T102	205	S84			
68.59	324.90	52.5	7.00	T102	205	S84			
68.39	327.60	52.2	9.00	T102	205	S84			
68.32	329.90	52.0	11.00	T102	205	S84			
68.27	332.10	51.9	13.00	T102	205	S84			
68.30	334.10	51.9	15.00	T102	205	S84			
71.89	289.4	62.35	1.00	T103	206	S84	2014_201T10:40:58	20-Jul-2014	5103
68.68	317.5	53.07	3.00	T103	206	S84			
67.59	323.6	51.16	5.00	T103	206	S84			
67.12	327.1	50.38	7.00	T103	206	S84			
66.85	329.9	49.93	9.00	T103	206	S84			
66.74	332.2	49.74	11.00	T103	206	S84			
66.67	334.4	49.60	13.00	T103	206	S84			
67.11	321.3	49.92	1.00	T104	207	S85	2014_233T08:09:09	21-Aug-2014	964
67.85	318.8	51.67	3.00	T104	207	S85			
67.99	319.7	52.04	5.00	T104	207	S85			
68.08	321.1	52.24	7.00	T104	207	S85			
68.14	322.7	52.35	9.00	T104	207	S85			
68.22	324.3	52.48	11.00	T104	207	S85			
68.28	326.0	52.58	13.00	T104	207	S85			
68.37	327.7	52.68	15.00	T104	207	S85			
61.23	340.7	39.65	0.17	T105	208	S85	2014_265T05:23:19	22-Sep-2014	1400
64.88	332.7	44.57	0.25	T105	208	S85			
66.59	326.9	47.35	0.33	T105	208	S85			
67.44	322.8	49.06	0.42	T105	208	S85			
67.96	319.7	50.27	0.50	T105	208	S85			
68.26	317.4	51.13	0.58	T105	208	S85			
68.46	315.6	51.78	0.67	T105	208	S85			
68.58	314.2	52.28	0.75	T105	208	S85			
68.68	313.0	52.71	0.83	T105	208	S85			
68.73	312.1	53.03	0.92	T105	208	S85			
68.78	311.3	53.32	1.00	T105	208	S85			
68.80	310.7	53.53	1.08	T105	208	S85			
68.83	310.1	53.75	1.17	T105	208	S85			
68.83	309.7	53.90	1.25	T105	208	S85			
68.84	309.3	54.05	1.33	T105	208	S85			
68.86	308.9	54.21	1.42	T105	208	S85			
70.16	293.1	59.36	2.00	T106	209	S86	2014_297T02:40:30	22-Oct-2014	1013
71.08	294.1	59.90	4.00	T106	209	S86			
71.42	295.6	60.11	6.00	T106	209	S86			
71.61	297.2	60.25	8.00	T106	209	S86			
71.75	298.8	60.37	10.00	T106	209	S86			
71.85	300.5	60.45	12.00	T106	209	S86			
71.96	302.1	60.56	14.00	T106	209	S86			

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72.08	303.7	60.68	16.00	T106	209	S86			
72.18	305.4	60.76	18.00	T106	209	S86			
65.76	282.3	63.1	6.00	T107	210	S86	2014_344T22:26:35	10-Dec-2014	980
65.27	284.9	63.1	9.00	T107	210	S86			
65.07	287.5	63.2	12.00	T107	210	S86			
65.00	290.1	63.3	15.00	T107	210	S86			
65.01	292.6	63.4	18.00	T107	210	S86			
59.79	272.8	66.60	5.00	T108	211	S87	2015_011T19:48:35	11-Jan-2015	970
59.45	274.5	66.73	7.00	T108	211	S87			
59.28	276.3	66.79	9.00	T108	211	S87			
59.19	278.0	66.89	11.00	T108	211	S87			
59.15	279.7	66.99	13.00	T108	211	S87			
59.16	281.5	67.03	15.00	T108	211	S87			
64.71	355.8	40.78	0.00	T109	212	S87	2015_043T17:08:04	12-Feb-2015	1200
70.99	346.2	47.02	0.03	T109	212	S87			
74.96	331.3	51.93	0.07	T109	212	S87			
76.63	313.3	55.72	0.10	T109	212	S87			
76.49	297.5	58.48	0.13	T109	212	S87			
75.42	286.4	60.50	0.17	T109	212	S87			
74.04	279.2	62.01	0.20	T109	212	S87			
72.63	274.5	63.16	0.23	T109	212	S87			
71.30	271.4	64.06	0.27	T109	212	S87			
70.08	269.3	64.76	0.30	T109	212	S87			
68.97	267.8	65.34	0.33	T109	212	S87			
67.97	266.8	65.79	0.37	T109	212	S87			
67.07	266.0	66.19	0.40	T109	212	S87			
66.25	265.4	66.52	0.43	T109	212	S87			
65.50	264.9	66.83	0.47	T109	212	S87			
66.97	379.9	46.59	0.00	T110	213	S88	2015_075T14:29:49	16-Mar-2015	2275
84.74	313.1	61.59	0.17	T110	213	S88			
75.78	258.5	66.97	0.33	T110	213	S88			
68.47	256.3	69.03	0.50	T110	213	S88			
63.55	257.0	69.99	0.67	T110	213	S88			
60.08	258.0	70.48	0.83	T110	213	S88			
57.50	258.9	70.78	1.00	T110	213	S88			
55.51	259.6	71.02	1.17	T110	213	S88			
53.95	260.3	71.14	1.33	T110	213	S88			
39.13	286.2	72.51	2.00	T112	218	S89	2015_188T08:09:51	7-Jul-2015	10953
48.99	279.7	74.92	4.00	T112	218	S89			
53.39	277.6	75.61	6.00	T112	218	S89			
55.87	277.0	75.95	8.00	T112	218	S89			
57.54	277.2	76.10	10.00	T112	218	S89			
58.75	277.7	76.25	12.00	T112	218	S89			
59.71	278.4	76.36	14.00	T112	218	S89			
50.10	141.2	77.30	3.00	T114	225	S91	2015_317T05:46:32	13-Nov-2015	11920
56.22	147.6	77.54	4.00	T114	225	S91			
60.10	152.7	77.59	5.00	T114	225	S91			
62.71	156.9	77.57	6.00	T114	225	S91			
64.53	160.5	77.56	7.00	T114	225	S91			
65.87	163.6	77.53	8.00	T114	225	S91			
66.90	166.2	77.46	9.00	T114	225	S91			
67.66	168.6	77.44	10.00	T114	225	S91			
68.25	170.7	77.41	11.00	T114	225	S91			
68.71	172.6	77.39	12.00	T114	225	S91			
-0.16	336.4	63.8	0.00	T115	230	S92	2016_016T02:20:25	16-Jan-2016	3817
64.03	268.6	81.9	1.00	T115	230	S92			
72.86	239.1	80.4	1.50	T115	230	S92			
74.92	216.1	79.3	2.00	T115	230	S92			
74.83	201.6	78.7	2.50	T115	230	S92			

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74.42	192.6	78.3	3.00	T115	230	S92			
73.49	182.8	77.6	4.00	T115	230	S92			
72.73	178.0	77.2	5.00	T115	230	S92			
72.16	175.3	76.9	6.00	T115	230	S92			
71.68	173.8	76.7	7.00	T115	230	S92			
71.30	172.9	76.6	8.00	T115	230	S92			
70.97	172.4	76.4	9.00	T115	230	S92			
70.69	172.1	76.3	10.00	T115	230	S92			
70.43	172.0	76.2	11.00	T115	230	S92			
-54.09	45.9	80.35	0.00	T116	231	S92	2016_032T01:00:06	1-Feb-2016	1400
64.28	164.1	80.87	1.00	T116	231	S92			
70.51	163.7	76.31	2.00	T116	231	S92			
72.37	163.2	74.76	3.00	T116	231	S92			
73.25	163.1	73.97	4.00	T116	231	S92			
73.74	163.3	73.50	5.00	T116	231	S92			
74.03	163.7	73.21	6.00	T116	231	S92			
74.23	164.1	72.97	7.00	T116	231	S92			
74.35	164.6	72.80	8.00	T116	231	S92			
73.49	153.1	72.0	2.00	T117	232	S93	2016_047T23:49:42	16-Feb-2016	1018
71.71	144.3	69.1	7.00	T117	232	S93			
71.04	146.7	68.6	12.00	T117	232	S93			
70.36	150.2	68.4	17.00	T117	232	S93			
60.75	177.9	88.2	0.33	T118	234	S93	2016_094T19:42:42	3-Apr-2016	990
66.29	166.9	80.8	0.50	T118	234	S93			
69.02	158.8	76.7	0.67	T118	234	S93			
70.48	152.9	74.1	0.83	T118	234	S93			
71.36	148.4	72.4	1.00	T118	234	S93			
73.42	130.2	65.7	4.00	T118	234	S93			
73.43	129.7	64.8	7.00	T118	234	S93			
73.30	131.2	64.4	10.00	T118	234	S93			
73.09	133.4	64.3	13.00	T118	234	S93			
64.16	145.1	75.4	0.50	T119	235	S94	2016_127T16:54:37	6-May-2016	971
73.18	133.3	67.7	1.00	T119	235	S94			
75.56	125.4	65.0	1.50	T119	235	S94			
76.54	120.5	63.6	2.00	T119	235	S94			
77.05	117.4	62.8	2.50	T119	235	S94			
77.34	115.3	62.2	3.00	T119	235	S94			
77.53	113.9	61.9	3.50	T119	235	S94			
77.66	112.9	61.6	4.00	T119	235	S94			
77.93	111.4	60.7	7.00	T119	235	S94			
77.88	113.5	60.3	11.00	T119	235	S94			
77.68	117.0	60.2	15.00	T119	235	S94			
82.01	93.5	60.0	2.00	T120	236	S94	2016_159T14:06:17	7-Jun-2016	975
82.64	76.4	58.3	4.00	T120	236	S94			
82.63	71.9	57.8	6.00	T120	236	S94			
82.57	71.0	57.5	8.00	T120	236	S94			
82.53	71.7	57.4	10.00	T120	236	S94			
82.50	73.2	57.3	12.00	T120	236	S94			
82.45	75.2	57.3	14.00	T120	236	S94			
82.41	77.6	57.3	16.00	T120	236	S94			
83.72	14.5	57.7	2.00	T121	238	S95	2016_207T09:58:23	25-Jul-2016	976
81.44	2.9	56.5	5.00	T121	238	S95			
80.86	3.5	56.2	8.00	T121	238	S95			
80.69	5.6	56.1	11.00	T121	238	S95			
75.36	341.2	56.1	8.00	T122	239	S95	2016_223T08:30:53	10-Aug-2016	1698
75.15	342.8	56.0	10.00	T122	239	S95			
75.05	344.5	56.0	12.00	T122	239	S95			
75.03	346.2	56.1	14.00	T122	239	S95			
75.06	348.0	56.1	16.00	T122	239	S95			

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75.13	349.8	56.1	18.00	T122	239	S95			
75.52	106.4	61.6	0.17	T123	243	S96	2016_271T04:16:59	27-Sep-2016	1774
85.66	70.0	60.3	0.33	T123	243	S96			
84.72	350.3	59.4	0.50	T123	243	S96			
81.41	333.9	58.7	0.67	T123	243	S96			
78.97	329.3	58.2	0.83	T123	243	S96			
77.18	327.4	57.9	1.00	T123	243	S96			
72.16	325.7	56.9	2.00	T123	243	S96			
70.33	326.2	56.5	3.00	T123	243	S96			
69.39	327.0	56.3	4.00	T123	243	S96			
68.83	327.9	56.2	5.00	T123	243	S96			
68.46	328.8	56.1	6.00	T123	243	S96			
68.01	330.6	56.0	8.00	T123	243	S96			
67.78	332.4	56.0	10.00	T123	243	S96			
67.67	334.2	56.0	12.00	T123	243	S96			
67.62	336.0	56.0	14.00	T123	243	S96			
67.63	337.8	56.0	16.00	T123	243	S96			
69.63	318.0	57.7	1.00	T124	248	S96	2016_318T23:55:56	13-Nov-2016	1584
64.24	318.7	56.9	2.00	T124	248	S96			
62.38	319.8	56.7	3.00	T124	248	S96			
61.45	320.8	56.5	4.00	T124	248	S96			
60.90	321.8	56.5	5.00	T124	248	S96			
60.53	322.8	56.4	6.00	T124	248	S96			
60.28	323.8	56.4	7.00	T124	248	S96			
60.10	324.7	56.4	8.00	T124	248	S96			
72.36	85.6	56.1	0.17	T125	250	S97	2016_334T22:14:32	29-Nov-2016	3158
75.98	82.2	56.6	0.20	T125	250	S97			
79.11	76.3	57.0	0.23	T125	250	S97			
81.66	66.2	57.3	0.27	T125	250	S97			
83.46	50.1	57.5	0.30	T125	250	S97			
84.31	28.2	57.7	0.33	T125	250	S97			
84.06	6.4	57.8	0.37	T125	250	S97			
83.18	350.2	57.9	0.40	T125	250	S97			
81.98	339.8	57.9	0.43	T125	250	S97			
80.71	333	57.9	0.47	T125	250	S97			
79.45	328.5	57.9	0.50	T125	250	S97			
78.24	325.5	57.9	0.53	T125	250	S97			
77.11	323.3	57.9	0.57	T125	250	S97			
76.05	321.7	57.9	0.60	T125	250	S97			
75.07	320.5	57.9	0.63	T125	250	S97			
74.16	319.5	57.9	0.67	T125	250	S97			
73.30	318.8	57.8	0.70	T125	250	S97			
72.51	318.3	57.8	0.73	T125	250	S97			
71.78	317.8	57.8	0.77	T125	250	S97			
71.08	317.5	57.7	0.80	T125	250	S97			
70.44	317.2	57.7	0.83	T125	250	S97			
67.79	316.4	57.6	1.00	T125	250	S97			
65.81	316.2	57.5	1.17	T125	250	S97			
64.28	316.2	57.4	1.33	T125	250	S97			
63.08	316.2	57.3	1.50	T125	250	S97			
62.10	316.4	57.2	1.67	T125	250	S97			
61.29	316.6	57.1	1.83	T125	250	S97			
60.62	316.7	57.1	2.00	T125	250	S97			
60.04	316.9	57.1	2.17	T125	250	S97			
59.54	317.1	57.0	2.33	T125	250	S97			
59.11	317.3	57.0	2.50	T125	250	S97			
58.73	317.5	56.9	2.67	T125	250	S97			
58.39	317.7	56.9	2.83	T125	250	S97			