

APÊNDICE A – Leitura dos Tempos - Linha L1-Porangatu

Tabela 3: Leituras dos tempos para o tiro EX11. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
11	001-5011	-28,747	4,937	8,723	
11	003-508	-17,385	2,975	5,130	
11	004-509	-12,144	2,1011	3,701	
11	005-510	-6,713	1,216	2,110	
11	007-512	0,790	0,188	999,000	
11	008-513	4,514	0,790	1,352	
11	010-515	10,118	1,697	2,853	
11	011-517	12,846	2,132	3,724	
11	013-518	18,294	3,105	5,372	
11	017-5211	28,649	4,912	8,565	
11	018-522	31,004	5,244	9,139	
11	019-523	33,652	5,725	10,007	
11	020-525	36,318	6,109	10,652	
11	021-526	38,859	6,564	11,2911	
11	024-534	46,262	7,744	12,990	
11	026-536	51,0711	8,524	14,603	
11	028-538	55,992	9,315	15,987	
11	030-533	58,892	9,813	17,097	
11	031-539	61,494	10,205	17,392	
11	032-540	63,878	10,629	18,280	
11	034-5411	68,695	11,404	19,608	
11	035-535	71,0811	11,775	20,365	
11	036-542	73,477	12,166	21,053	
11	037-537	75,642	12,550	21,683	
11	038-543	78,159	12,957	22,407	
11	039-546	80,310	13,320	23,194	
11	040-5811	82,757	13,684	23,713	
11	041-549	85,773	14,164	24,436	
11	042-5511	88,832	14,670	25,473	
11	043-552	92,2411	15,247	26,609	
11	044-553	95,207	15,734	27,342	
11	045-554	97,009	16,106	28,112	
11	046-558	98,390	16,477	28,360	
11	047-559	99,478	16,666	28,875	
11	048-560	102,494	17,116	29,778	
11	049-5611	104,886	17,373	30,113	
11	053-569	117,314	19,494	999,000	
11	056-572	125,041	20,643	36,103	
11	057-575	127,777	20,872	36,871	
11	058-578	130,416	21,529	37,494	
11	059-579	133,302	21,966	38,129	
11	060-580	135,423	22,238	38,637	
11	061-582	136,378	22,079	38,891	
11	064-585	144,366	23,375	40,738	
11	065-586	146,685	23,735	41,061	
11	067-588	152,163	24,859	42,809	
11	068-589	154,552	25,126	44,148	26,887
11	069-590	156,832	25,756	999,000	

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
11	071-592	162,079	26,187	45,655	27,588
11	073-594	167,295	26,983	46,776	
11	074-596	171,076	27,585	47,822	
11	075-597	173,173	28,146	49,028	
11	076-598	176,083	28,374	49,647	
11	077-599	178,970	28,941	50,202	30,072
11	078-600	181,308	29,468	50,967	
11	081-603	185,340	30,329	52,502	
11	082-604	187,5111	30,663	53,117	
11	083-605	190,262	31,047	53,615	
11	084-606	193,407	31,456	53,982	
11	085-608	195,869	31,782	54,839	
11	086-609	198,0011	32,130	55,632	
11	087-612	201,250	32,860	56,437	
11	088-595	203,197	32,928	57,085	
11	090-615	208,613	34,058	58,745	
11	098-623	227,730	35,968	62,116	
11	100-625	232,993	36,575	63,258	37,283
11	102-627	236,604	37,036	63,953	37,609
11	103-628	239,201	37,380	64,627	
11	105-630	244,006	37,994	65,855	
11	106-6311	245,398	38,109	66,499	
11	107-633	246,514	38,200	66,757	
11	108-6411	249,076	38,518	67,261	
11	109-642	252,469	38,970	999,000	
11	112-645	258,890	39,739	68,675	
11	113-646	261,598	40,190	69,459	
11	116-659	268,970	41,172	999,000	42,520
11	118-664	278,269	42,364	999,000	44,000
11	120-670	284,381	43,005	999,000	44,959

Tabela 4: Leituras dos tempos para o tiro EX12. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
12	001-501	-87,130	14,497	999,000	
12	003-508	-76,166	12,594	21,557	
12	004-509	-70,966	11,835	20,394	
12	005-510	-65,576	10,985	19,078	
12	007-512	-59,149	9,850	17,099	
12	008-513	-54,723	9,167	15,870	
12	011-517	-46,762	7,891	13,584	
12	013-518	-41,148	7,410	12,680	
12	017-521	-30,448	5,090	8,779	
12	018-522	-28,001	4,611	8,065	
12	019-523	-25,427	4,244	7,345	
12	020-525	-22,860	3,794	6,470	
12	021-526	-20,291	3,410	5,899	
12	024-534	-15,259	2,161	3,754	
12	026-536	-10,583	1,365	2,448	
12	028-538	-5,779	0,564	0,992	
12	030-533	-0,139	0,015	999,000	
12	031-539	2,849	0,513	0,850	
12	032-540	4,953	0,908	1,558	
12	034-541	9,742	1,717	3,008	
12	035-535	12,161	2,114	3,707	
12	036-542	14,521	2,467	4,354	
12	037-537	16,694	2,865	4,944	
12	038-543	19,244	3,299	5,764	
12	039-546	21,336	3,642	6,403	
12	040-581	23,767	4,007	7,042	
12	041-549	26,783	4,520	7,942	
12	042-551	29,880	5,053	8,757	
12	043-552	33,351	5,646	9,716	
12	044-553	36,379	6,136	10,674	
12	045-554	38,399	6,482	11,218	
12	046-558	40,030	6,827	11,901	
12	047-559	41,767	7,107	12,229	
12	048-560	44,834	7,583	13,020	
12	049-561	47,607	7,989	13,917	
12	053-569	60,350	10,152	17,636	
12	055-570	64,963	10,875	18,945	
12	056-572	67,731	11,214	19,323	
12	057-575	70,360	11,686	20,404	
12	058-578	72,970	12,116	21,124	
12	059-579	75,671	12,551	21,756	
12	060-580	77,660	12,813	22,188	
12	061-582	78,656	12,653	21,975	
12	064-585	86,375	13,837	23,966	
12	065-586	88,570	14,191	24,424	
12	067-588	94,328	15,126	26,246	
12	068-589	96,816	15,708	27,157	
12	069-590	98,284	15,878	27,748	
12	071-592	104,241	17,090	29,614	
12	073-594	109,478	18,148	30,866	
12	074-596	114,019	18,642	31,981	
12	075-597	116,070	18,982	32,814	
12	076-598	119,094	19,954	34,736	
12	077-599	122,138	20,159	35,406	21,831
12	078-600	124,519	20,609	36,289	22,129
12	080-602	126,795	21,476	37,153	
12	081-603	128,527	21,726	37,616	
12	082-604	130,643	22,043	38,086	
12	083-605	133,499	22,443	38,863	
12	084-606	136,698	22,981	39,876	
12	085-608	139,760	23,241	40,089	24,182
12	086-609	141,160	23,438	40,766	24,458
12	087-612	144,444	24,140	41,761	25,004
12	088-595	146,260	24,415	42,193	25,322
12	090-615	152,103	25,526	44,366	25,910
12	092-617	156,685	26,066	45,105	26,073
12	093-618	158,559	26,426	46,006	

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
12	098-623	170,342	28,014	47,884	
12	100-625	175,678	28,843	50,114	
12	102-627	179,203	29,413	51,022	29,831
12	103-628	181,710	29,718	51,310	
12	106-631	188,258	30,491	52,681	
12	107-633	189,546	30,603	52,994	31,184
12	108-641	192,188	31,420	999,000	
12	109-642	195,512	31,371	54,202	32,156
12	111-644	199,366	32,340	55,799	
12	112-645	202,107	32,810	56,682	
12	113-646	204,777	33,125	57,508	34,378
12	116-659	211,727	33,599	58,297	34,675
12	118-664	220,968	34,788	60,545	35,551
12	120-670	226,814	35,332	61,584	

Tabela 5: Leituras dos tempos para o tiro EX13. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
13	001-501	-126,784	20,745	35,892	
13	003-508	-115,646	19,166	33,137	
13	005-510	-104,985	17,699	30,516	
13	008-513	-94,190	15,844	27,467	
13	017-521	-70,143	11,657	20,272	11,784
13	019-523	-65,160	10,872	18,521	10,953
13	020-525	-62,693	10,397	17,986	10,510
13	021-526	-60,136	10,067	17,275	10,017
13	024-534	-55,104	8,740	15,124	9,349
13	028-538	-45,725	7,266	12,656	
13	030-533	-40,046	6,759	999,000	
13	031-539	-37,925	6,357	10,958	
13	032-540	-35,451	5,990	10,306	
13	034-541	-30,938	5,217	9,097	
13	035-535	-28,887	4,871	8,336	
13	036-542	-26,561	4,436	7,577	
13	037-537	-24,691	4,136	7,278	
13	038-543	-22,746	3,912	6,737	
13	039-546	-20,427	3,520	6,096	
13	040-581	-18,100	3,121	5,378	
13	041-549	-14,802	2,577	4,483	
13	042-551	-11,596	2,031	3,555	
13	043-552	-8,202	1,444	2,527	
13	044-553	-5,533	0,976	1,709	
13	045-554	-2,528	0,454	0,776	
13	046-558	1,009	0,063	0,108	
13	047-559	4,146	0,717	1,241	
13	048-560	6,212	1,074	1,850	
13	049-561	9,471	1,530	2,652	
13	053-569	21,455	3,620	6,132	
13	055-570	25,468	4,234	7,179	
13	056-572	28,196	4,664	7,889	
13	057-575	30,695	5,090	8,588	
13	058-578	33,255	5,562	9,636	
13	059-579	35,829	5,981	10,355	
13	060-580	37,755	6,234	10,749	
13	061-582	38,763	6,088	10,558	
13	064-585	46,412	7,236	12,453	
13	067-588	54,376	8,400	14,674	
13	068-589	56,880	8,759	15,179	
13	069-590	58,336	9,220	999,000	
13	071-592	64,283	9,985	17,319	
13	073-594	69,520	10,763	18,704	
13	074-596	74,266	11,498	20,019	
13	075-597	76,291	12,074	21,239	12,897
13	076-598	79,352	12,313	21,760	13,382
13	077-599	82,452	12,850	22,883	13,926
13	078-600	84,843	13,752	24,319	
13	080-602	87,103	14,637	999,000	
13	082-604	90,916	15,283	999,000	
13	083-605	93,806	15,686	999,000	18,516
13	084-606	97,018	16,176	28,234	18,835
13	085-608	99,356	16,410	28,713	19,318
13	086-609	101,414	16,749	29,014	19,546
13	087-612	104,700	17,335	30,099	
13	090-615	112,461	19,132	33,071	
13	092-617	116,895	20,405	999,000	
13	095-620	123,283	20,856	35,612	
13	098-623	130,415	21,548	37,286	23,623
13	100-625	135,761	22,651	39,177	24,254
13	102-627	139,270	23,173	40,266	24,750
13	103-628	141,764	23,348	40,929	
13	105-630	146,781	24,473	42,334	
13	106-631	148,369	24,729	42,869	
13	107-633	149,697	24,859	42,986	26,145
13	108-641	152,358	25,167	43,501	26,533
13	109-642	155,660	25,803	44,716	

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
13	111-644	159,544	26,468	45,849	
13	112-645	162,296	27,067	999,000	27,931
13	113-646	164,953	27,367	47,276	28,321
13	116-659	171,807	28,415	49,376	
13	117-663	176,330	29,072	50,334	
13	118-664	181,036	30,078	51,125	

Tabela 6: Leituras dos tempos para o tiro EX14. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
14	003-508	-167,332	27,3795	47,742	28,516
14	004-509	-162,09	26,5057	46,363	27,739
14	005-510	-156,656	26,1256	45,446	26,985
14	007-512	-150,214	24,8885	43,0332	26,374
14	011-517	-138,305	23,2711	40,3526	24,525
14	013-518	-132,753	22,3213	38,6549	23,718
14	017-521	-122,024	20,2415	999	22,294
14	018-522	-119,478	19,6292	999	20,062
14	019-523	-117,062	19,1148	33,6533	19,72
14	020-525	-114,625	18,768	32,797	19,347
14	021-526	-112,074	18,3933	32,0245	19,044
14	024-534	-107,048	17,417	30,0318	18,131
14	028-538	-97,687	16,2228	27,8751	
14	030-533	-92,01	15,26	999	
14	031-539	-89,858	14,7317	999	
14	032-540	-87,41	14,3385	24,8733	
14	034-541	-82,793	13,5795	23,4878	
14	035-535	-80,644	13,2067	22,7111	
14	036-542	-78,261	12,7729	999	
14	037-537	-76,263	12,481	21,5028	
14	038-543	-74,057	12,1351	20,728	
14	039-546	-71,72	11,7531	20,077	
14	040-581	-69,246	17,48	999	
14	041-549	-65,934	10,7206	18,532	
14	042-551	-62,647	10,186	17,9415	
14	043-552	-59,031	9,60848	16,7786	
14	044-553	-55,91	9,11237	15,6112	
14	045-554	-53,611	8,76416	14,756	
14	046-558	-51,899	8,409	14,503	
14	047-559	-50,487	8,376	14,421	
14	048-560	-47,464	7,67	13,139	
14	049-561	-45,139	7,31779	12,7538	
14	053-569	-33,192	5,397	9,294	
14	056-572	-25,337	4,1168	7,22328	
14	057-575	-22,55	3,67905	6,59225	
14	058-578	-19,962	3,28513	5,738	
14	059-579	-16,891	2,7755	4,776	
14	060-580	-14,648	2,38422	4,12969	
14	061-582	-13,767	2,64037	4,55807	
14	064-585	-5,593	1,33954	999	
14	065-586	-3,454	0,90054	999	
14	067-588	3,087	0,527	999	
14	068-589	5,654	0,915	1,202	
14	069-590	6,716	0,92702	1,616	
14	071-592	12,41	1,64682	2,78	
14	073-594	17,622	2,43209	4,221	
14	074-596	23,705	2,88717	4,909	
14	075-597	25,49	3,92175	6,85716	
14	076-598	28,654	4,20409	7,29156	
14	077-599	31,944	4,7491	8,111	
14	078-600	34,31	5,33294	9,3129	
14	081-603	38,08	6,43402	11,1262	6,862
14	082-604	40,002	6,79261	11,979	7,131
14	083-605	42,982	7,21184	12,3072	7,581
14	084-606	46,19	7,72187	13,2267	8,043
14	085-608	48,34	8,11978	14,1616	8,384
14	086-609	50,276	8,44203	14,8401	8,675
14	087-612	53,554	9,10518	15,7809	9,159
14	090-615	61,571	10,4979	18,2324	
14	092-617	65,497	11,08	19,327	
14	093-618	67,039	11,3363	19,6798	
14	095-620	71,474	12,1496	20,9756	
14	098-623	78,564	13,109	22,873	
14	100-625	83,936	14,359	24,7486	
14	102-627	87,398	14,9578	25,9578	
14	103-628	89,855	15,2035	26,2473	
14	105-630	94,939	16,1135	28,0091	

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
14	106-631	96,607	16,3618	28,3796	
14	107-633	98,036	16,5884	28,744	
14	108-641	100,74	16,9681	29,1511	
14	109-642	103,986	17,4987	30,2137	
14	111-644	107,938	18,1645	31,1412	
14	112-645	110,712	18,7184	32,48	
14	113-646	113,334	19,1609	33,0861	
14	117-663	124,452	20,861	36,431	
14	118-664	129,152	21,6553	37,799	
14	120-670	134,902	22,897	39,247	

Tabela 7: Leituras dos tempos para o tiro EX15. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
15	017-521	-156,354	25,996	44,463	
15	018-522	-153,769	25,479	43,836	
15	019-523	-151,482	25,199	43,183	
15	020-525	-149,163	24,779	999,000	
15	021-526	-146,649	24,445	42,249	
15	024-534	-141,675	23,348	999,000	
15	026-536	-137,170	22,788	40,097	
15	028-538	-132,504	21,983	999,000	
15	030-533	-126,888	21,444	36,971	
15	031-539	-124,942	21,191	36,731	
15	032-540	-122,514	20,815	999,000	
15	034-541	-118,046	20,291	999,000	
15	035-535	-116,009	19,786	34,254	
15	036-542	-113,673	19,393	999,000	
15	037-537	-111,760	19,230	33,013	
15	038-543	-109,678	18,485	999,000	
15	039-546	-107,336	18,630	999,000	
15	040-581	-104,900	18,210	999,000	
15	041-549	-101,563	17,478	30,321	
15	042-551	-98,263	16,891	29,450	
15	043-552	-94,642	16,185	999,000	
15	044-553	-91,519	15,690	999,000	
15	045-554	-89,010	15,279	999,000	
15	046-558	-87,069	14,964	999,000	
15	047-559	-85,052	14,650	24,936	
15	048-560	-81,985	14,060	23,806	
15	049-561	-79,251	13,580	23,751	
15	055-570	-61,855	10,690	18,593	
15	056-572	-59,087	9,684	999,000	
15	057-575	-56,477	9,310	999,000	
15	059-579	-51,314	8,562	14,818	
15	060-580	-49,494	8,426	999,000	
15	061-582	-48,464	7,973	999,000	
15	064-585	-41,519	7,353	999,000	
15	065-586	-39,864	6,919	11,768	
15	067-588	-33,544	6,334	10,834	
15	068-589	-30,910	5,813	999,000	
15	069-590	-29,714	5,210	999,000	
15	071-592	-24,431	4,638	999,000	
15	073-594	-19,803	3,715	6,327	
15	074-596	-12,896	3,513	999,000	
15	075-597	-10,966	2,339	3,805	
15	076-598	-7,821	1,993	3,252	
15	077-599	-4,682	1,487	2,454	
15	078-600	-2,334	0,871	1,419	
15	080-602	0,089	0,062	999,000	
15	081-603	1,709	0,441	0,746	
15	082-604	3,884	0,874	1,502	
15	083-605	6,684	1,314	2,302	
15	084-606	9,896	1,781	3,069	
15	085-608	12,263	2,177	3,743	
15	086-609	14,378	2,532	4,362	
15	087-612	17,639	3,208	5,586	
15	088-595	19,562	3,548	6,146	
15	107-633	62,884	11,028	19,487	
15	108-641	65,470	11,485	20,174	
15	109-642	68,844	12,035	21,127	

Tabela 8: Leituras dos tempos para o tiro EX16. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
16	004-509	-231,902	36,266	63,439	
16	005-510	-226,468	35,734	62,19	
16	007-512	-220,036	34,104	60,3292	
16	011-517	-208,227	32,521	999	
16	017-521	-191,966	30,8577	53,996	
16	018-522	-189,412	30,54	53,049	
16	019-523	-187,015	30	999	
16	020-525	-184,59	29,6854	51,177	
16	021-526	-182,041	29,309	50,769	
16	024-534	-177,018	28,332	48,64	
16	026-536	-172,416	27,7069	47,156	
16	028-538	-167,662	26,982	999	28,062
16	030-533	-161,984	26,397	999	
16	031-539	-159,818	26,082	44,6836	
16	032-540	-157,369	25,73	44,1128	
16	034-541	-152,73	25,023	999	
16	035-535	-150,554	24,731	999	25,710
16	036-542	-148,16	24,297	41,6113	
16	037-537	-146,135	24,0288	999	
16	038-543	-143,878	23,643	40,2179	
16	039-546	-141,551	23,334	39,6807	
16	040-581	-139,064	22,923	999	
16	041-549	-135,775	22,532	37,9346	
16	042-551	-132,504	21,8046	37,3974	
16	043-552	-128,902	21,1993	36,6251	
16	044-553	-125,792	20,7138	36,0376	22,422
16	045-554	-123,559	20,3542	999	22,097
16	046-558	-121,873	19,865	999	21,919
16	047-559	-120,389	19,685	999	21,710
16	048-560	-117,346	19,2487	33,1667	21,327
16	049-561	-114,88	18,863	999	21,129
16	053-569	-102,488	16,603	999	
16	055-570	-97,471	16,058	999	
16	056-572	-94,726	15,1289	26,3002	
16	057-575	-91,985	14,9481	999	
16	058-578	-89,345	14,5919	999	
16	059-579	-86,466	14,113	999	
16	060-580	-84,373	13,7222	24,08	
16	061-582	-83,405	14,0178	23,8995	
16	064-585	-75,537	12,8129	22,1199	
16	065-586	-73,336	12,3938	21,3644	
16	067-588	-67,637	11,619	19,887	
16	068-589	-65,215	11,229	19,0476	
16	071-592	-57,712	9,94013	17,2177	
16	073-594	-52,483	9,14334	15,6395	
16	074-596	-49,305	8,86504	15,157	
16	075-597	-47,183	8,20766	14,169	
16	076-598	-44,583	7,89613	13,42	
16	077-599	-42,204	7,41751	12,774	
16	078-600	-40,132	7,04335	12,1643	
16	080-602	-37,935	6,37713	11,1066	
16	081-603	-36,321	6,08473	10,5526	
16	082-604	-34,141	5,51889	9,64604	
16	083-605	-32,063	5,15236	9,15917	
16	084-606	-29,571	4,82707	8,273	
16	085-608	-27,064	4,38137	7,478	
16	086-609	-24,978	4,02007	6,83092	
16	087-612	-22,599	3,68974	6,52	
16	088-595	-20,264	3,25413	5,55378	
16	090-615	-20,238	3,29101	5,54674	
16	092-617	-14,415	2,2568	3,96915	
16	093-618	-10,76	1,68285	999	
16	095-620	7,689	1,23165	2,18433	
16	098-623	10,895	1,85176	999	
16	100-625	15,861	2,69657	999	
16	102-627	18,516	3,15214	5,36734	
16	103-628	20,492	3,43542	5,89996	

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
16	105-630	26,026	4,47367	7,534	
16	106-631	28,247	4,85133	8,495	
16	107-633	30,318	5,21637	9,29551	
16	108-641	33,152	5,78885	10,253	
16	109-642	35,888	6,19163	999	
16	111-644	40,077	6,86341	11,961	
16	112-645	42,865	7,31646	999	
16	113-646	45,221	8,00226	13,7848	
16	116-659	50,558	8,84631	15,2336	
16	117-663	54,912	9,51741	999	
16	118-664	59,56	10,326	999	
16	120-670	64,999	10,9855	19,0101	

Tabela 9: Leituras dos tempos para o tiro EX17. Valores 999,00 indicam que não foram feitas leituras na determinada estação.

Tiro	Estação	Distância (km)	Onda P (s)	Onda S (s)	Reflexão (s)
17	005-510	-275,589	42,0559	999	
17	019-523	-236,533	36,5828	63,8688	
17	021-526	-231,636	36,028	62,5354	
17	024-534	-223,996	35,0346	61,0245	
17	028-538	-214,652	33,9541	59,3303	
17	030-533	-211,709	33,3928	999	
17	031-539	-209,638	33,1509	57,668	
17	032-540	-207,194	32,8542	57,0286	33,832
17	034-541	-202,617	32,2865	56,0888	33,314
17	035-535	-200,49	32,0801	55,5262	33,152
17	037-537	-196,122	31,4253	54,8421	32,545
17	038-543	-193,916	31,2092	54,2922	32,253
17	039-546	-191,58	30,9576	53,8383	31,874
17	041-549	-185,794	30,2512	52,3731	31,197
17	042-551	-182,508	29,8739	999	
17	043-552	-178,892	29,4527	999	
17	044-553	-175,77	29,1094	999	
17	045-554	-173,439	28,6837	49,7327	29,596
17	046-558	-171,653	28,4095	49,1851	
17	047-559	-169,927	28,2321	48,0018	
17	048-560	-166,864	27,5967	999	28,882
17	053-569	-151,65	25,1615	999	
17	055-570	-146,8	24,48	999	
17	059-579	-135,97	22,6545	39,3092	
17	060-580	-133,975	22,419	38,8305	
17	061-582	-132,977	22,2386	38,6046	
17	064-585	-125,356	21,3739	999	
17	067-588	-117,351	20,2168	35,0039	
17	068-589	-114,834	19,8246	999	
17	069-590	-113,3918	19,455	999	
17	071-592	-107,473	18,6239	999	
17	073-594	-102,244	17,8323	30,9614	
17	074-596	-97,812	17,448	29,8041	
17	075-597	-95,723	16,8083	29,2072	
17	077-599	-89,917	15,7117	27,1476	
17	078-600	-87,593	15,2905	999	
17	081-603	-83,562	14,2738	24,6639	
17	082-604	-81,38	13,8235	23,8735	
17	083-605	-78,673	13,429	23,2638	
17	084-606	-75,572	12,9811	22,3373	
17	085-608	-73,07	12,5648	21,8032	
17	086-609	-70,912	12,1871	999	
17	087-612	-67,7	11,7659	20,3884	
17	088-595	-65,701	11,3761	19,969	
17	092-617	-55,38	9,80507	17,585	
17	098-623	-41,302	7,36977	12,965	
17	100-625	-35,955	6,5225	11,302	
17	102-627	-32,465	5,78901	10,19	
17	103-628	-30,084	5,35569	9,461	
17	105-630	-24,932	4,50358	7,868	
17	106-631	-23,492	4,25666	7,441	
17	107-633	-22,629	4,1211	7,264	
17	108-641	-20,361	3,75556	6,624	
17	109-642	-16,859	3,10922	5,53	
17	111-644	-13,992	2,63959	4,486	
17	112-645	-12,052	2,33462	4,013	
17	116-659	-0,098	0,068	999	
17	117-663	4,742	1,05564	1,78	
17	118-664	9,425	1,86974	3,355	
17	120-670	16,445	2,99	5,22	