

QUICK FACTS	HP	Crits	HOW TO READ THIS SHEET																																				
SandirS	1000	9	<p>Crits are your normal 120 dmg critical hit as done on most blessings. If you want to experiment with numbers of hits using blessings with different damage values, just take the boss health and divide it by the value you want to use.</p> <p>Nons Nons as I define them are <i>Non-Critical hits</i>. Anything that isnt a 120 crit. Here I assume them to be 80 dmg each. That is the highest dmg you can get without a crit on a normal damage blessing. You get a non by either hitting <i>juuuust</i> early of a crit, OR by holding too long and missing the crit window.</p> <p>If you mess up and your hit is a bit less than an 80, assume the mistake is worth 2 'nons'</p> <p>The hits required to kill the boss depend on how many fuckups you make. In practice, you predict the number of hits you will need based on how many nons you get.</p> <p>At the top of every chart is a perfect fight where all hits are critical. The final line in the chart is where every hit is a non.</p> <p>These charts tell you:</p> <p style="text-align: center;">How much Damage is lost from the nons (as opposed to crits) v</p> <table border="1"> <thead> <tr> <th>Crits</th> <th>Dmg</th> <th>Nons</th> <th>Dmg</th> <th>Total Dmg</th> <th>Dmg Lost</th> <th>Over/Under</th> <th>Minimum extra hits needed to kill</th> <th>Total Hits</th> <th>Alt: Crits needed</th> <th>New total Hits</th> <th>New Damage</th> <th>Sandir's HP</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>720</td> <td>4</td> <td>320</td> <td>1040</td> <td>160</td> <td>-60</td> <td>1</td> <td>11</td> <td>1</td> <td>11</td> <td>1140</td> <td>1100</td> </tr> </tbody> </table> <p>^How many Crits are needed?? ^Total ouput for this combo ^in nons ^Assuming final hits are nons ^Final tot: If your final hits are critical, they can reduce the overal number needed, based on how poorly the fight went.</p>											Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	Sandir's HP	6	720	4	320	1040	160	-60	1	11	1	11	1140	1100
Crits	Dmg	Nons												Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	Sandir's HP																
6	720	4												320	1040	160	-60	1	11	1	11	1140	1100																
SandirT	1100	10																																					
BronzeBoi	880	8																																					
MalvoS	3500	30																																					
MalvoT	5300	45																																					
BarshkaS	2200	19																																					
BarshkaT	3000	25																																					
BaandaS	2200	19																																					
BaandaT	3500	30																																					
Shears	7000	59																																					
Bloom	9000	75																																					

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	Sandir's HP
9	1080	0	0	1080	0	80	0	9	0	9	1080	1000
8	960	1	80	1040	40	40	0	9	0	9	1040	
7	840	2	160	1000	80	0	0	9	0	9	1000	
6	720	3	240	960	120	-40	1	10	1	10	1060	
5	600	4	320	920	160	-80	1	10	1	10	1020	
4	480	5	400	880	200	-120	2	11	1	10	1080	
3	360	6	480	840	240	-160	2	11	2	11	1040	
2	240	7	560	800	280	-200	3	12	2	11	1100	
1	120	8	640	760	320	-240	3	12	2	11	1060	
0	0	9	720	720	360	-280	4	13	3	12	1120	
0	0	10	800	800	400	-200	3	13	2	12	1100	
0	0	11	880	880	440	-120	2	32	1	12	1080	
0	0	12	960	960	480	-40	1	13	1	13	1060	
0	0	13	1040	1040	520	40	0	13	0	13	1040	

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	Sandir's HP
10	1200	0	0	1200	0	100	0	10	0	10	1200	1100
9	1080	1	80	1160	40	60	0	10	0	10	1160	
8	960	2	160	1120	80	20	0	10	0	10	1120	
7	840	3	240	1080	120	-20	1	11	1	11	1180	
6	720	4	320	1040	160	-60	1	11	1	11	1140	
5	600	5	400	1000	200	-100	2	12	1	11	1200	
4	480	6	480	960	240	-140	2	12	2	12	1160	
3	360	7	560	920	280	-180	3	13	2	12	1220	
2	240	8	640	880	320	-220	3	13	2	12	1180	
1	120	9	720	840	360	-260	4	14	3	13	1240	
0	0	10	800	800	400	-300	4	14	3	13	1200	
0	0	11	880	880	440	-220	3	14	2	13	1180	
0	0	12	960	960	480	-140	2	14	2	14	1160	
0	0	13	1040	1040	520	-60	1	14	1	14	1140	
0	0	14	1120	1120	560	20	0	14	0	14	1120	

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	BronzeBoi's HP
8	960	0	0	960	0	80	0	8	0	8	960	880
7	840	1	80	920	40	40	0	8	0	8	920	
6	720	2	160	880	80	0	0	8	0	8	880	
5	600	3	240	840	120	-40	1	9	1	9	940	
4	480	4	320	800	160	-80	1	9	1	9	900	
3	360	5	400	760	200	-120	2	10	1	9	960	
2	240	6	480	720	240	-160	2	10	2	10	920	
1	120	7	560	680	280	-200	3	11	2	10	980	
0	0	8	640	640	320	-240	3	11	2	10	940	
0	0	9	720	720	360	-160	2	11	2	11	920	
0	0	10	800	800	400	-80	1	11	1	11	900	
0	0	11	880	880	440	0	0	11	0	11	880	
0	0	12	960	960	480	80	0	12	0	12	960	
0	0	13	1040	1040	520	160	0	13	0	13	1040	
0	0	14	1120	1120	560	240	0	14	0	14	1120	

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	Malvo's HP	Also BaandaT's HP
30	3600	0	0	3600	0	100	0	30	0	30	3600	3500	
29	3480	1	80	3560	40	60	0	30	0	30	3560		
28	3360	2	160	3520	80	20	0	30	0	30	3520		840
27	3240	3	240	3480	120	-20	1	31	1	31	3580		2400
26	3120	4	320	3440	160	-60	1	31	1	31	3540		1100
25	3000	5	400	3400	200	-100	2	32	1	31	3600		1080
24	2880	6	480	3360	240	-140	2	32	2	32	3560		960
23	2760	7	560	3320	280	-180	3	33	2	32	3620		
22	2640	8	640	3280	320	-220	3	33	2	32	3580		
21	2520	9	720	3240	360	-260	4	34	3	33	3640		
20	2400	10	800	3200	400	-300	4	34	3	33	3600		
19	2280	11	880	3160	440	-340	5	32	3	33	3660		
18	2160	12	960	3120	480	-380	5	35	4	34	3620		
17	2040	13	1040	3080	520	-420	6	36	4	34	3680		
16	1920	14	1120	3040	560	-460	6	36	4	34	3640		
15	1800	15	1200	3000	600	-500	7	37	5	35	3700		
14	1680	16	1280	2960	640	-540	7	37	5	35	3660		
13	1560	17	1360	2920	680	-580	8	33	5	35	3720		
12	1440	18	1440	2880	720	-620	8	38	6	36	3680		
11	1320	19	1520	2840	760	-660	9	39	6	36	3740		
10	1200	20	1600	2800	800	-700	9	39	6	36	3700		
9	1080	21	1680	2760	840	-740	10	40	7	37	3760		
8	960	22	1760	2720	880	-780	10	40	7	37	3720		
7	840	23	1840	2680	920	-820	11	34	7	37	3780		
6	720	24	1920	2640	960	-860	11	41	8	38	3740		
5	600	25	2000	2600	1000	-900	12	42	8	38	3800		
4	480	26	2080	2560	1040	-940	12	42	8	38	3760		
3	360	27	2160	2520	1080	-980	13	43	9	39	3820		
2	240	28	2240	2480	1120	-1020	13	43	9	39	3780		
1	120	29	2320	2440	1160	-1060	14	44	9	39	3840		
0	0	30	2400	2400	1200	-1100	14	44	10	40	3800		
0	0	31	2480	2480	1240	-1020	13	44	9	40	3780		
0	0	32	2560	2560	1280	-940	12	44	8	40	3760		
0	0	33	2640	2640	1320	-860	11	44	8	41	3740		
0	0	34	2720	2720	1360	-780	10	44	7	41	3720		
0	0	35	2800	2800	1400	-700	9	44	6	41	3700		
0	0	36	2880	2880	1440	-620	8	44	6	42	3680		
0	0	37	2960	2960	1480	-540	7	44	5	42	3660		
0	0	38	3040	3040	1520	-460	6	44	4	42	3640		
0	0	39	3120	3120	1560	-380	5	44	4	43	3620		
0	0	40	3200	3200	1600	-300	4	44	3	43	3600		
0	0	41	3280	3280	1640	-220	3	44	2	43	3580		
0	0	42	3360	3360	1680	-140	2	44	2	44	3560		
0	0	43	3440	3440	1720	-60	1	44	1	44	3540		
0	0	44	3520	3520	1760	20	0	44	0	44	3520		

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	MalvoT's HP
45	5400	0	0	5400	0	100	0	45	0	45	5400	5300
44	5280	1	80	5360	40	60	0	45	0	45	5360	
43	5160	2	160	5320	80	20	0	45	0	45	5320	
42	5040	3	240	5280	120	-20	1	46	1	46	5380	
41	4920	4	320	5240	160	-60	1	46	1	46	5340	
40	4800	5	400	5200	200	-100	2	47	1	46	5400	
39	4680	6	480	5160	240	-140	2	47	2	47	5360	
38	4560	7	560	5120	280	-180	3	48	2	47	5420	
37	4440	8	640	5080	320	-220	3	48	2	47	5380	
36	4320	9	720	5040	360	-260	4	49	3	48	5440	
35	4200	10	800	5000	400	-300	4	49	3	48	5400	
34	4080	11	880	4960	440	-340	5	32	3	48	5460	
33	3960	12	960	4920	480	-380	5	50	4	49	5420	
32	3840	13	1040	4880	520	-420	6	51	4	49	5480	
31	3720	14	1120	4840	560	-460	6	51	4	49	5440	
30	3600	15	1200	4800	600	-500	7	52	5	50	5500	
29	3480	16	1280	4760	640	-540	7	52	5	50	5460	
28	3360	17	1360	4720	680	-580	8	53	5	50	5520	
27	3240	18	1440	4680	720	-620	8	53	6	51	5480	
26	3120	19	1520	4640	760	-660	9	54	6	51	5540	
25	3000	20	1600	4600	800	-700	9	54	6	51	5500	
24	2880	21	1680	4560	840	-740	10	55	7	52	5560	
23	2760	22	1760	4520	880	-780	10	55	7	52	5520	
22	2640	23	1840	4480	920	-820	11	56	7	52	5580	
21	2520	24	1920	4440	960	-860	11	56	8	53	5540	
20	2400	25	2000	4400	1000	-900	12	57	8	53	5600	
19	2280	26	2080	4360	1040	-940	12	57	8	53	5560	
18	2160	27	2160	4320	1080	-980	13	58	9	54	5620	
17	2040	28	2240	4280	1120	-1020	13	58	9	54	5580	
16	1920	29	2320	4240	1160	-1060	14	59	9	54	5640	
15	1800	30	2400	4200	1200	-1100	14	59	10	55	5600	
14	1680	31	2480	4160	1240	-1140	15	60	10	55	5660	
13	1560	32	2560	4120	1280	-1180	15	60	10	55	5620	
12	1440	33	2640	4080	1320	-1220	16	61	11	56	5680	
11	1320	34	2720	4040	1360	-1260	16	61	11	56	5640	
10	1200	35	2800	4000	1400	-1300	17	62	11	56	5700	
9	1080	36	2880	3960	1440	-1340	17	62	12	57	5660	
8	960	37	2960	3920	1480	-1380	18	63	12	57	5720	
7	840	38	3040	3880	1520	-1420	18	63	12	57	5680	
6	720	39	3120	3840	1560	-1460	19	64	13	58	5740	
5	600	40	3200	3800	1600	-1500	19	64	13	58	5700	
4	480	41	3280	3760	1640	-1540	20	65	13	58	5760	
3	360	42	3360	3720	1680	-1580	20	65	14	59	5720	
2	240	43	3440	3680	1720	-1620	21	66	14	59	5780	
1	120	44	3520	3640	1760	-1660	21	66	14	59	5740	
0	0	45	3600	3600	1800	-1700	22	67	15	60	5800	
0	0	46	3680	3680	1840	-1620	21	67	14	60	5780	
0	0	47	3760	3760	1880	-1540	20	67	13	60	5760	
0	0	48	3840	3840	1920	-1460	19	67	13	61	5740	
0	0	49	3920	3920	1960	-1380	18	33	12	61	5720	
0	0	50	4000	4000	2000	-1300	17	67	11	61	5700	
0	0	51	4080	4080	2040	-1220	16	67	11	62	5680	
0	0	52	4160	4160	2080	-1140	15	67	10	62	5660	
0	0	53	4240	4240	2120	-1060	14	67	9	62	5640	

0	0	54	4320	4320	2160	-980	13	67	9	63	5620
0	0	55	4400	4400	2200	-900	12	67	8	63	5600
0	0	56	4480	4480	2240	-820	11	67	7	63	5580
0	0	57	4560	4560	2280	-740	10	67	7	64	5560
0	0	58	4640	4640	2320	-660	9	67	6	64	5540
0	0	59	4720	4720	2360	-580	8	67	5	64	5520
0	0	60	4800	4800	2400	-500	7	67	5	65	5500
0	0	61	4880	4880	2440	-420	6	67	4	65	5480
0	0	62	4960	4960	2480	-340	5	67	3	65	5460
0	0	63	5040	5040	2520	-260	4	67	3	66	5440
0	0	64	5120	5120	2560	-180	3	67	2	66	5420
0	0	65	5200	5200	2600	-100	2	67	1	66	5400
0	0	66	5280	5280	2640	-20	1	67	1	67	5380
0	0	67	5360	5360	2680	60	0	67	0	67	5360

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	BarshkaT's HP
25	3000	0	0	3000	0	0	0	25	0	25	3000	3000
24	2880	1	80	2960	40	-40	1	26	1	26	3060	
23	2760	2	160	2920	80	-80	1	26	1	26	3020	
22	2640	3	240	2880	120	-120	2	27	1	26	3080	
21	2520	4	320	2840	160	-160	2	27	2	27	3040	
20	2400	5	400	2800	200	-200	3	28	2	27	3100	
19	2280	6	480	2760	240	-240	3	28	2	27	3060	
18	2160	7	560	2720	280	-280	4	29	3	28	3120	
17	2040	8	640	2680	320	-320	4	29	3	28	3080	
16	1920	9	720	2640	360	-360	5	30	3	28	3140	
15	1800	10	800	2600	400	-400	5	30	4	29	3100	
14	1680	11	880	2560	440	-440	6	31	4	29	3160	
13	1560	12	960	2520	480	-480	6	31	4	29	3120	
12	1440	13	1040	2480	520	-520	7	32	5	30	3180	
11	1320	14	1120	2440	560	-560	7	32	5	30	3140	
10	1200	15	1200	2400	600	-600	8	33	5	30	3200	
9	1080	16	1280	2360	640	-640	8	33	6	31	3160	
8	960	17	1360	2320	680	-680	9	34	6	31	3220	
7	840	18	1440	2280	720	-720	9	34	6	31	3180	
6	720	19	1520	2240	760	-760	10	35	7	32	3240	
5	600	20	1600	2200	800	-800	10	35	7	32	3200	
4	480	21	1680	2160	840	-840	11	36	7	32	3260	
3	360	22	1760	2120	880	-880	11	36	8	33	3220	
2	240	23	1840	2080	920	-920	12	37	8	33	3280	
1	120	24	1920	2040	960	-960	12	37	8	33	3240	
0	0	25	2000	2000	1000	-1000	13	38	9	34	3300	
0	0	26	2080	2080	1040	-920	12	38	8	34	3280	
0	0	27	2160	2160	1080	-840	11	38	7	34	3260	
0	0	28	2240	2240	1120	-760	10	38	7	35	3240	
0	0	29	2320	2320	1160	-680	9	38	6	35	3220	
0	0	30	2400	2400	1200	-600	8	38	5	35	3200	
0	0	31	2480	2480	1240	-520	7	38	5	36	3180	
0	0	32	2560	2560	1280	-440	6	38	4	36	3160	
0	0	33	2640	2640	1320	-360	5	38	3	36	3140	
0	0	34	2720	2720	1360	-280	4	38	3	37	3120	
0	0	35	2800	2800	1400	-200	3	38	2	37	3100	
0	0	36	2880	2880	1440	-120	2	38	1	37	3080	
0	0	37	2960	2960	1480	-40	1	38	1	38	3060	
0	0	38	3040	3040	1520	40	0	38	0	38	3040	

Crits	Dmg	Nons	Dmg	Total Dmg	Dmg Lost	Over/Under	Minimum extra hits needed to kill	Total Hits	Alt: Crits needed	New total Hits	New Damage	Shear's HP	Overall	P1	P2	P3
75	9000	0	0	9000	0	0	0	75	0	75	9000	9000	9000			
74	8880	1	80	8960	40	-40	1	76	1	76	9060		9000	2430	3330	3240
73	8760	2	160	8920	80	-80	1	76	1	76	9020			These can be pushed :))		
72	8640	3	240	8880	120	-120	2	77	1	76	9080					
71	8520	4	320	8840	160	-160	2	77	2	77	9040					
70	8400	5	400	8800	200	-200	3	78	2	77	9100					
69	8280	6	480	8760	240	-240	3	78	2	77	9060					
68	8160	7	560	8720	280	-280	4	79	3	78	9120					
67	8040	8	640	8680	320	-320	4	79	3	78	9080					
66	7920	9	720	8640	360	-360	5	80	3	78	9140					
65	7800	10	800	8600	400	-400	5	80	4	79	9100					
64	7680	11	880	8560	440	-440	6	81	4	79	9160					
63	7560	12	960	8520	480	-480	6	81	4	79	9120					
62	7440	13	1040	8480	520	-520	7	82	5	80	9180					
61	7320	14	1120	8440	560	-560	7	82	5	80	9140					
60	7200	15	1200	8400	600	-600	8	83	5	80	9200					
59	7080	16	1280	8360	640	-640	8	83	6	81	9160					
58	6960	17	1360	8320	680	-680	9	84	6	81	9220					
57	6840	18	1440	8280	720	-720	9	84	6	81	9180					
56	6720	19	1520	8240	760	-760	10	85	7	82	9240					
55	6600	20	1600	8200	800	-800	10	85	7	82	9200					
54	6480	21	1680	8160	840	-840	11	86	7	82	9260					
53	6360	22	1760	8120	880	-880	11	86	8	83	9220					
52	6240	23	1840	8080	920	-920	12	87	8	83	9280					
51	6120	24	1920	8040	960	-960	12	87	8	83	9240					
50	6000	25	2000	8000	1000	-1000	13	88	9	84	9300					
49	5880	26	2080	7960	1040	-1040	13	88	9	84	9260					
48	5760	27	2160	7920	1080	-1080	14	89	9	84	9320					
47	5640	28	2240	7880	1120	-1120	14	89	10	85	9280					
46	5520	29	2320	7840	1160	-1160	15	90	10	85	9340					
45	5400	30	2400	7800	1200	-1200	15	90	10	85	9300					
44	5280	31	2480	7760	1240	-1240	16	91	11	86	9360					
43	5160	32	2560	7720	1280	-1280	16	91	11	86	9320					
42	5040	33	2640	7680	1320	-1320	17	92	11	86	9380					
41	4920	34	2720	7640	1360	-1360	17	92	12	87	9340					
40	4800	35	2800	7600	1400	-1400	18	93	12	87	9400					
39	4680	36	2880	7560	1440	-1440	18	93	12	87	9360					
38	4560	37	2960	7520	1480	-1480	19	94	13	88	9420					
37	4440	38	3040	7480	1520	-1520	19	94	13	88	9380					
36	4320	39	3120	7440	1560	-1560	20	95	13	88	9440					
35	4200	40	3200	7400	1600	-1600	20	95	14	89	9400					
34	4080	41	3280	7360	1640	-1640	21	96	14	89	9460					
33	3960	42	3360	7320	1680	-1680	21	96	14	89	9420					
32	3840	43	3440	7280	1720	-1720	22	97	15	90	9480					
31	3720	44	3520	7240	1760	-1760	22	97	15	90	9440					
30	3600	45	3600	7200	1800	-1800	23	98	15	90	9500					
29	3480	46	3680	7160	1840	-1840	23	98	16	91	9460					
28	3360	47	3760	7120	1880	-1880	24	99	16	91	9520					
27	3240	48	3840	7080	1920	-1920	24	99	16	91	9480					
26	3120	49	3920	7040	1960	-1960	25	100	17	92	9540					
25	3000	50	4000	7000	2000	-2000	25	100	17	92	9500					
24	2880	51	4080	6960	2040	-2040	26	101	17	92	9560					
23	2760	52	4160	6920	2080	-2080	26	101	18	93	9520					
22	2640	53	4240	6880	2120	-2120	27	102	18	93	9580					
21	2520	54	4320	6840	2160	-2160	27	102	18	93	9540					
20	2400	55	4400	6800	2200	-2200	28	103	19	94	9600					
19	2280	56	4480	6760	2240	-2240	28	103	19	94	9560					
18	2160	57	4560	6720	2280	-2280	29	104	19	94	9620					
17	2040	58	4640	6680	2320	-2320	29	104	20	95	9580					
16	1920	59	4720	6640	2360	-2360	30	105	20	95	9640					
15	1800	60	4800	6600	2400	-2400	30	105	20	95	9600					
14	1680	61	4880	6560	2440	-2440	31	106	21	96	9660					
13	1560	62	4960	6520	2480	-2480	31	106	21	96	9620					
12	1440	63	5040	6480	2520	-2520	32	107	21	96	9680					
11	1320	64	5120	6440	2560	-2560	32	107	22	97	9640					
10	1200	65	5200	6400	2600	-2600	33	108	22	97	9700					
9	1080	66	5280	6360	2640	-2640	33	108	22	97	9660					
8	960	67	5360	6320	2680	-2680	34	109	23	98	9720					
7	840	68	5440	6280	2720	-2720	34	109	23	98	9680					
6	720	69	5520	6240	2760	-2760	35	110	23	98	9740					
5	600	70	5600	6200	2800	-2800	35	110	24	99	9700					
4	480	71	5680	6160	2840	-2840	36	111	24	99	9760					

3	360	72	5760	6120	2880	-2880	36	111	24	99	9720						
2	240	73	5840	6080	2920	-2920	37	112	25	100	9780						
1	120	74	5920	6040	2960	-2960	37	112	25	100	9740						
0	0	75	6000	6000	3000	-3000	38	113	25	100	9800						
0	0	76	6080	6080	3040	-2920	37	113	25	101	9780						
0	0	77	6160	6160	3080	-2840	36	113	24	101	9760						
0	0	78	6240	6240	3120	-2760	35	113	23	101	9740						
0	0	79	6320	6320	3160	-2680	34	113	23	102	9720						
0	0	80	6400	6400	3200	-2600	33	113	22	102	9700						
0	0	81	6480	6480	3240	-2520	32	113	21	102	9680						
0	0	82	6560	6560	3280	-2440	31	113	21	103	9660						
0	0	83	6640	6640	3320	-2360	30	113	20	103	9640						
0	0	84	6720	6720	3360	-2280	29	113	19	103	9620						
0	0	85	6800	6800	3400	-2200	28	113	19	104	9600						
0	0	86	6880	6880	3440	-2120	27	113	18	104	9580						
0	0	87	6960	6960	3480	-2040	26	113	17	104	9560						
0	0	88	7040	7040	3520	-1960	25	113	17	105	9540						