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Technical Report

Supplement to Report 2387-50-T
DOVAP DATA REDUCTION FOR IGY GRENADE AEROBEE ROCKETS
SM 1.01—SM 2.10

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ABSTRACT

The procedures employed to review and refine the DOVAP tracking data presented in Technical Report 2387-50-T are described. The final trajectory results are listed in four appendices to the report. New results, not listed in Report 2387-50-T, are tabulations and graphs of velocity and acceleration data, peak altitudes, and a comparison of ballistic camera and DOVAP data. The random and systematic errors of the data are estimated.

THE UNIVERSITY OF MICHIGAN DATA-REDUCTION PERSONNEL
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I. INTRODUCTION

Ten Aerobee rockets carrying the Signal Corps—University of Michigan grenade experiment for upper-air temperature and winds were fired at Fort Churchill, Canada, as part of the U.S. IGY rocket program. Grenades carried aloft by each missile were ejected and exploded along the upleg portion of the rocket path. The DOVAP tracking system data for each flight were reduced by The University of Michigan project personnel as reported in Report 2387-50-T,¹ entitled DOVAP Data Reduction for IGY Grenade Aerobee Rockets SM 1.01—SM 2.10. Section IX of that report recommends continuation of the data reduction for the ten flights and makes three suggestions for further study:

1. The data for SM 1.01, SM 1.02, SM 1.03, and SM 1.05 should be refined and DOVAP, ballistic camera, and radar data for these four flights should be compared.
2. The data reduction for SM 2.10 should be carried out up to the peak of the rocket trajectory.
3. Velocity and acceleration data should be calculated for all ten flights.

These suggestions have largely been carried out; in addition, the data for the remaining six rockets have been refined, and some additional trajectory data have been calculated. This supplement describes the review and refinement of the data. The final trajectory results are listed in the appendices.

II. DOVAP DATA REVIEW AND REFINEMENT

The DOVAP data for SM 1.01, SM 1.02, SM 1.03, and SM 1.05 were reviewed as recommended. The review of SM 1.02 cycle counts showed that, as a result of the smoothing of second differences, the total cycle count for each channel had been modified by a large fraction of a cycle. A review of the other six sets of data was also made and showed similar changes in SM 1.04 and SM 1.08. Since a basic rule in editing the data is that the total cycle count should not be modified by smoothing, all modified cycle counts were restored to their original values.

When Report 2387-50-T was written, it was felt that geometry corrections for the first 40 seconds of flight were adequate. However, further study of SM 1.03, SM 1.05, SM 2.06, and SM 1.09 showed that failure to include geometry corrections in the data for the whole trajectory could introduce a systematic error of as much as 0.4 cycle. As a result of this study, geometry corrections were made for the entire trajectory on all flights.

At this point in the review, it became necessary to rewrite the IBM 650 trajectory solution programs for the LGP-30 digital computer because the IBM 650 facility at the University had been discontinued. The programs were checked out and ten DOVAP data tapes were punched, proofread, and corrected. Data were included to take SM 2.10 from 95.0 seconds to peak, to take SM 2.06 from 95.0 seconds to the time of the last grenade explosion, and to extend the four-channel solution for SM 1.02 from 115.5 seconds through the time of the last grenade explosion. A trajectory solution—a position for each combination of three receivers and the average of the four positions—was computed for each flight.

The techniques used to refine the DOVAP data are best illustrated by referring to a set of trajectory results in Report 2387-50-T. Refer to the SIG X column on SM 1.09 and note the regular increase of the values up to 100.5 and 101.0 seconds. The standard deviations of these two points can be increased to fit the trend of the SIG X values by changing the cycle count at 100.5 seconds on one channel by about 0.5 cycle and then changing the count on the same channel by an equal and opposite amount at 101.5 seconds.

Next note that the SIG X curve from 107.5 seconds through 119.5 seconds has been shifted up by several feet, apparently due to an error in the cycle-count data. The data at 107.5 and 108.0 seconds are in the highly disturbed region immediately following a grenade explosion. For this case second differences taken on all channels about these points indicated the magnitude and sign of the equal and opposite corrections necessary to shift the SIG X curve to eliminate the discontinuity noted above.

In the original data reduction, cycle counts taken from very noisy re-

gions on the film were of questionable accuracy. Trajectory calculations using the questionable counts occasionally show standard deviations which depart sharply from the trend of the SIG X curve. These counts are changed to smooth the trajectory results.

If additional smoothing of the trajectory results is desired, equal and opposite adjustments of the cycle counts should be made by adhering strictly to the following rules: (1) the adjustments should be kept as small as possible, (2) the sum of the changes must be zero in as small an interval as possible, and (3) the sum of the changes must be zero for the entire channel. The only possible exception to these rules is the case above, in which the change made in a questionable count to smooth the results is not included in the total of smoothing adjustments. Therefore the total change in cycle count for the channel is not zero. This exception to the general rule is felt to be justified because the trajectory results indicate an error in the questionable cycle count.

The data tapes were corrected to include the refinement of counts and another trajectory was run off for each rocket flight. If the results warranted additional smoothing, this was done according to the three rules above. Again the data tape was corrected and another trajectory was run and examined. This process was repeated until a satisfactory set of DOVAP data was obtained; then the final runs were made. The appendices list the results of the final trajectory solutions.

III. RESULTS

A. TRAJECTORY AND GRENADE-EXPLOSION POSITION DATA

The final results of the Fort Churchill DOVAP data reduction are given in Appendices A and B of this supplement. Appendix A gives the position, velocity, and acceleration components with respect to the Aerobee launcher. Appendix B lists the rocket positions above the microphone array at the times of the grenade explosions.

Comparison of the new results with the results previously listed in Report 2387-50-T shows appreciable changes in the position data for SM 1.02, SM 1.04, SM 2.06, SM 1.07, and SM 2.10, especially at high altitudes. The horizontal coordinates are changed by as much as 270 feet. The vertical coordinates are changed by less than 100 feet, except on SM 2.06.

On SM 2.06 the trajectory data in Appendix A are changed appreciably from the data given in the Report 2387-50-T; the vertical coordinate at 95 seconds is now 378 feet lower. However, the grenade position data of Appendix B remain essentially the same. Apparently, the trajectory data for SM 2.06, contained in Appendix A of Report 2387-50-T, were in error.

The data on the other five flights, SM 1.01, SM 1.03, SM 1.05, SM 1.08, and SM 1.09, have not been changed appreciably.

B. LAYERS BETWEEN GRENADE EXPLOSIONS

Note that even though the positions of the grenade explosions are changed in some of the flights, the layers of air between grenade explosions, which are the critical data for the temperature and wind calculations in the grenade experiments, are not changed appreciably.

C. STANDARD DEVIATIONS OF THE DATA

On all flights the standard deviations of the refined data are essentially the same or better than previously reported. The improvement in standard deviation is especially noticeable on SM 1.02, SM 1.04, SM 2.06, SM 1.07, and SM 2.10.

D. THE COMPARISON OF DOVAP DATA WITH BALLISTIC CAMERA DATA

Appendix C contains tables listing the ballistic camera and DOVAP grenade-explosion coordinates with respect to the Aerobee launcher for SM 1.01, SM 1.02,

SM 1.03, and SM 1.05. The tables list in order for each explosion the ballistic camera data, the DOVAP position data obtained with the use of a vacuum wavelength, and the DOVAP position data obtained with the use of an average wavelength.

Graphs of the difference between ballistic camera and average DOVAP data are also given in Appendix C.

From these graphs it can be seen that the systematic errors between these two tracking systems are typically less than 150 feet in the north-south coordinate data (X), less than 180 feet in the east-west coordinate (Y), and less than 125 feet in the vertical coordinate (Z). These values are stated conservatively. Half of the time, the errors between the two systems are less than half the values given above.

These results can be compared with the results given by Brown and Patton² for a flight at White Sands Proving Ground in which the agreement in the north-south coordinate was less than 60 feet, less than 25 feet for the east-west coordinate, and less than 180 feet for the vertical coordinate.

E. ROCKET PERFORMANCE

The peak altitude of each of the Fort Churchill Grenade Aerokees has been calculated using the equation:³

$$r_p = \frac{r_o \lambda \sin^2 \gamma}{1 - \sqrt{1 - (2 - \lambda) \lambda \sin^2 \gamma}} \quad (1)$$

where

$$r_o = h_o + a \quad (\text{km})$$

$$a = 6378 \text{ km}$$

$$\sin \gamma = \frac{V_z}{|\vec{V}|}$$

$$\lambda = \frac{|\vec{V}|^2 r_o}{GM}$$

$$GM = 3.9861 \cdot 10^5 \text{ km}^3/\text{sec}^2$$

and $h_o = z, V_z,$ and $|\vec{V}|$ is an initial point taken from the DOVAP trajectory data.

A calculation was made using Eq. (1) for 10-20 initial points in the neighborhood of 100 seconds on each flight. The average value of peak altitude for each of the flights is given in the table in Appendix D. This table

also gives the components of velocity at burnout.

The evaluation of the rocket performance is aided by the graphs of acceleration versus time and velocity vs. time which are also contained in Appendix D.

The rockets used on SM 2.05 and SM 2.10 were AJ-10-34 "intermediate" Aero-bees; on the other eight flights, the AJ-10-25 "standard" Aerobee was used.

Note from the table in Appendix D that for the AJ-10-25 rockets, the burn-out velocity and peak altitude were low on SM 1.01, SM 1.04, and SM 1.07. For the AJ-10-34 rockets, the burnout velocity and peak altitude on SM 2.06 were appreciably lower than on SM 2.10.

The low peak altitude on SM 1.01 was primarily due to the heavy payload and excessive drag of the DOVAP antennas, although a few miles were lost from peak because of the rather large horizontal velocity developed.

On SM 1.04 and SM 1.07, the low peak altitude was due to the rather poor performance of the rocket motor. The low burning time on SM 1.04 and the rather long erratic burning time on SM 1.07 are easily seen on the graphs of acceleration vs. time in Appendix D. Again some peak altitude was lost because a rather high horizontal component of velocity was developed.

On SM 2.06 the burning time was slightly low and a rather large horizontal component of velocity was developed; this resulted in a lower peak altitude than obtained on SM 2.10.

IV. ERRORS

The sources of error and the method of analysis are described completely in Report 2387-50-T. The review and refinement of the data since that report was issued have served to establish more firmly the magnitudes of errors given in that report.

The magnitude of random error in DOVAP position data is indicated by the values of the standard deviation given in Appendices A and B. The equivalent standard deviations in cycle count (n) and in the transmitter-rocket-receiver distances (u) can be calculated as described in Report 2387-50-T. The random errors for the final data on the Fort Churchill flights can be summarized as follows:

(a) For all flights except SM 1.02 and SM 1.09 at high altitudes

$$\begin{aligned}\sigma_X &< 15 \text{ feet} & \sigma_u &< 5 \text{ feet} \\ \sigma_Y &< 15 \text{ feet} & \sigma_n &< 0.4 \text{ cycle} \\ \sigma_Z &< 4 \text{ feet}\end{aligned}$$

(b) For SM 1.02 and SM 1.09 at high altitudes

$$\begin{aligned}\sigma_X &< 40 \text{ feet} & \sigma_u &< 8 \text{ feet} \\ \sigma_Y &< 40 \text{ feet} & \sigma_n &< 0.7 \text{ cycle} \\ \sigma_Z &< 6 \text{ feet}\end{aligned}$$

The magnitude of the possible systematic errors in the DOVAP position data are indicated by the comparison with ballistic camera position data (see Appendix C and Section III, D). Since the two tracking systems theoretically have comparable accuracy and precision, a comparison of ballistic camera data and DOVAP data on the same flight should indicate the magnitude of the possible systematic errors. The data of Section III, D, show differences and thus possible systematic errors in either system of:

$$\begin{aligned}\Delta X &< 150 \text{ feet} \\ \Delta Y &< 180 \text{ feet} \\ \Delta Z &< 120 \text{ feet}\end{aligned}$$

Since both the random errors and systematic errors in the coordinates of the position data increase uniformly with altitude, the errors in the layers

between grenade explosions remain ~~smaller~~ than the errors in the position of each grenade explosion. The error in such a layer corresponds to the random error in cycle count of ± 0.5 cycle as stated in Report 2387-50-T: "The corresponding errors in vertical and horizontal distance between two consecutive grenade explosions are less than ± 6 feet and ± 36 feet, respectively."

V. CONCLUSIONS

The DOVAP data for the ten rocket-grenade Aerobees SM 1.01—SM 2.10 have been reduced to position, velocity, and acceleration data. The initial data reduction has been reviewed and refined.

The position of the rocket antenna system, at the time of each grenade explosion, and the layers between consecutive grenade explosions have been calculated.

The random errors of the DOVAP system were determined and an estimate of the possible systematic error has been made by comparison with ballistic camera data.

It has been determined that the accuracy of the DOVAP system data is sufficient for the grenade experiment for upper-air temperature and winds.

VI. ACKNOWLEDGMENTS

We are indebted to the Meteorological Branch of the U. S. Army Signal Research and Development Laboratories for their continued cooperation and financial support.

VII. REFERENCES

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APPENDIX A

ROCKET TRAJECTORIES WITH RESPECT TO THE FORT CHURCHILL AEROBEE LAUNCHER

The averaged components of position are in feet, velocities in feet/second, and accelerations in feet/second/second for each half second of flight. The rows of data correspond to this order.

SM 1.01

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	25.10-	.66	.12-	.66	318.59	2.98	
1.5	62.53- 93.64-	1.34	7.67- 9.72-	1.46	546.59 552.70	2.37	560.66
2.0	118.74- 122.20- 47.42-	.92	9.84- 3.34- 10.36	.85	871.30 741.55 336.72	.96	751.56 340.20
2.5	184.74- 141.06- 35.28-	.35	11.01- .64 2.65	.14	1288.14 889.43 220.29	.21	900.55 223.11
3.0	259.81- 157.48- 25.80-	.67	9.20- .68- 4.22-	.90	1760.73 961.85 100.37	.86	974.66 103.71
3.5	342.22- 166.87- 17.07-	1.08	11.70- 3.58- .27-	1.28	2250.00 989.80 51.10	.85	1003.77 53.87
4.0	426.68- 174.55- 14.00-	1.68	12.78- .95- 6.44	1.72	2750.54 1012.95 45.87	1.46	1027.88 48.38
4.5	516.77- 180.87- 3.26-	2.53	12.65- 2.86 8.44	2.79	3262.95 1035.67 39.81	2.20	1051.35 40.83
5.0	607.55- 177.82- .12-	3.68	9.92- 7.49 3.01	3.74	3786.21 1052.77 33.47	3.13	1067.71 33.60
5.5	694.59- 180.99- 18.01-	11.35	5.16- 5.87 .37	1.49	4315.73 1069.14 37.99	.94	1084.37 42.05
6.0	788.55- 195.83- 20.72-	1.09	4.05- 7.86 4.30	.96	4855.35 1090.77 40.36	.83	1108.24 45.57
6.5	890.43- 201.72- 7.22-	3.32	2.69 10.17 1.92-	3.44	5406.50 1109.50 37.30	2.58	1127.74 38.04
7.0	990.28- 203.05- 6.30-	4.58	6.12 5.93 3.51-	4.82	5964.86 1128.07 37.14	3.49	1146.22 37.83
7.5	1093.49- 208.02- 12.98-	5.87	8.63 6.66 4.33	6.13	6534.57 1146.64 33.61	4.57	1165.38 36.28
8.0	1198.30- 216.04- 15.85-	5.99	12.78 10.27 9.49	6.24	7111.51 1161.68 33.63	4.47	1181.64 38.37
8.5	1309.53- 223.87- 9.77-	6.27	18.90 16.16 9.10	6.47	7696.26 1180.28 39.79	4.55	1201.43 41.97
9.0	1422.18- 225.81- 3.87-	7.59	28.94 19.37 8.20	7.89	8291.79 1201.47 40.33	5.57	1222.66 41.34
9.5	1535.34- 227.75- 5.59-	7.86	38.27 24.36 5.51	8.29	8897.73 1220.62 37.98	5.48	1241.92 38.78
10.0	1649.94- 231.41- 12.54-	6.74	53.31 24.88 4.66-	7.09	9512.41 1239.45 38.26	4.68	1261.11 40.53
10.5	1766.75- 240.29- 23.05-	5.93	63.16 19.69 4.17	6.35	10137.19 1258.88 43.47	3.99	1281.76 49.38
11.0	1890.23- 254.46- 18.30-	3.81	73.00 29.06 13.67	4.03	10771.29 1282.93 48.17	2.44	1308.24 53.31

SM 1.01

11.5	2021.21- 258.59- 6.80-	6.95	92.23 33.37 .14-	7.34	11420.12 1307.05 45.26	4.60	1332.80 45.77
12.0	2148.83- 261.26- 8.38-	7.80	106.37 28.92 2.25-	8.25	12078.34 1328.19 42.73	4.91	1353.95 43.60
12.5	2282.48- 266.98- 9.28-	10.10	121.16 31.11 6.52	10.62	12748.31 1349.78 42.84	6.37	1376.28 44.31
13.0	2415.80- 270.54- 11.26-	10.13	137.49 35.45 12.24	10.60	13428.13 1371.03 45.52	6.20	1397.92 48.46
13.5	2553.03- 278.24- 17.81-	9.91	156.61 43.36 15.89	10.51	14119.35 1395.30 49.27	6.02	1423.44 54.75
14.0	2694.05- 288.35- 17.04-	13.90	180.85 51.34 6.33	14.75	14823.44 1420.31 47.39	8.17	1450.19 50.75
14.5	2841.38- 295.29- 8.49-	15.68	207.95 49.69 2.92-	16.74	15539.66 1442.69 45.58	9.02	1473.44 46.45
15.0	2989.34- 296.85- 4.67-	16.37	230.55 48.41 9.17	17.47	16266.14 1465.89 47.91	9.28	1496.43 49.00
15.5	3138.23- 299.97- 9.23-	16.30	256.37 58.87 14.40	17.39	17005.55 1490.61 49.26	8.99	1521.63 52.15
16.0	3289.31- 306.08- 16.70-	14.73	289.42 62.82 7.49	15.65	17756.75 1515.15 52.24	7.99	1547.04 55.35
16.5	3444.31- 316.67- 16.00-	15.44	319.19 66.36 8.54	16.52	18520.71 1542.85 54.85	8.09	1576.41 57.77
17.0	3605.99- 322.08- 8.07-	18.54	355.79 71.36 2.27	19.82	19299.60 1570.01 51.75	9.61	1604.29 52.42
17.5	3766.39- 324.75- 13.59-	20.74	390.56 68.64 5.04-	22.10	20090.72 1594.60 52.01	10.49	1628.78 53.99
18.0	3930.74- 335.67- 17.25-	21.43	424.43 66.32 .52	22.96	20894.21 1622.02 56.09	10.53	1657.72 58.69
18.5	4102.06- 342.00- 7.42-	23.81	456.88 69.17 5.73	25.53	21712.75 1650.70 56.70	11.49	1687.17 57.47
19.0	4272.74- 343.09- 7.75-	23.08	493.60 72.05 7.15	24.76	22544.91 1678.72 57.79	10.88	1714.94 58.75
19.5	4445.16- 349.76- 14.20-	21.51	528.93 76.33 18.56	23.05	23391.48 1708.49 61.23	9.88	1745.60 65.54
20.0	4622.50- 357.29- 12.27-	19.43	569.93 90.61 21.54	20.77	24253.41 1739.96 64.04	8.76	1778.58 68.67
20.5	4802.46- 362.03- 17.87-	18.90	619.55 97.86 10.96	20.26	25131.44 1772.54 66.88	8.28	1811.78 70.09
21.0	4984.53- 375.17- 22.41-	18.44	667.80 101.58 6.71	19.86	26025.95 1806.85 68.94	7.90	1848.18 72.81
21.5	5177.63- 384.44- 8.28-	21.24	721.13 104.58 5.95	22.78	26938.29 1841.49 67.77	8.83	1884.10 68.54
22.0	5368.98- 383.45- 4.01-	20.60	772.38 107.53 5.65	22.19	27867.44 1874.63 70.85	8.40	1916.46 71.18

SM 1.01

22.5	5561.09- 388.46- 13.82-	19.06	828.67 110.24 6.79	20.55	28812.92 1912.34 76.74	7.49	1954.51 78.27
23.0	5757.44- 397.28- 17.29-	16.12	882.63 114.33 19.45	17.35	29779.79 1951.37 78.90	6.20	1994.68 83.08
23.5	5958.37- 405.76- 7.23-	15.42	942.99 129.69 26.12	16.69	30764.30 1991.24 85.68	5.75	2036.30 89.87
24.0	6163.21- 404.52- 18.19-	14.19	1012.33 140.45 4.41	15.32	31771.03 2037.05 84.67	5.20	2081.58 86.71
24.5	6362.89- 423.95- 39.40-	16.89	1083.45 134.11 2.33-	18.16	32801.35 2075.91 79.90	6.04	2123.00 89.12
25.0	6587.16- 443.92- 19.60-	11.82	1146.44 138.12 17.02	12.81	33846.95 2116.96 89.65	4.04	2167.41 93.33
25.5	6806.82- 443.55- 8.81-	9.71	1221.58 151.12 15.98	10.40	34918.32 2165.57 94.38	3.28	2215.69 96.13
26.0	7030.71- 452.74- 19.26-	8.60	1297.57 154.11 17.80	9.22	36012.53 2211.35 96.35	2.80	2262.47 99.85
26.5	7259.57- 462.81- 21.67-	5.75	1375.69 168.93 17.24	6.26	37129.67 2261.92 102.37	1.79	2314.96 106.05
27.0	7493.53- 474.41- 24.76-	4.81	1466.50 171.36 5.70	5.14	38274.45 2313.72 102.17	1.43	2368.07 105.28
27.5	7733.98- 487.58- 28.04-	2.70	1547.05 174.63 18.38	2.91	39443.40 2364.09 104.53	.73	2420.16 109.77
28.0	7981.11- 502.45- 27.27-	1.44	1641.13 189.74 17.24	1.62	40638.55 2418.26 110.62	.36	2477.18 115.23
28.5	8236.44- 514.85- 23.01-	.28	1736.80 191.87 13.72	.34	41861.66 2474.72 114.26	.12	2534.98 117.36
29.0	8495.97- 525.47- 22.66-	4.07	1833.00 203.46 20.17	4.46	43113.28 2532.52 117.78	1.19	2594.45 121.63
29.5	8761.91- 537.51- 28.87-	4.69	1940.27 212.05 13.87	5.11	44394.19 2592.51 122.11	1.32	2656.13 126.24
30.0	9033.48- 554.35- 37.57-	6.89	2045.06 217.34 17.25	7.51	45705.79 2654.64 125.33	1.85	2720.59 131.98
30.5	9316.26- 575.09- 40.20-	7.72	2157.61 229.30 29.43	8.37	47048.83 2717.85 127.89	2.06	2787.47 137.25
31.0	9608.57- 594.55- 32.21-	9.02	2274.36 246.77 27.88	9.76	48423.65 2782.53 132.32	2.33	2856.02 139.01
31.5	9910.82- 607.31- 31.08-	6.62	2404.38 257.19 15.59	7.22	49831.36 2850.17 138.51	1.66	2925.48 142.81
32.0	10215.88- 625.63- 37.30-	8.20	2531.55 262.36 17.15	8.78	51273.82 2921.04 142.20	2.01	2998.79 148.01
32.5	10536.45- 644.61- 34.68-	7.37	2666.75 274.34 23.07	8.12	52752.41 2992.38 143.16	1.74	3073.29 149.10
33.0	10860.50- 660.31- 30.76-	7.75	2805.90 285.44 22.17	8.53	54266.21 3064.21 144.33	1.77	3147.52 149.23

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33.5	11196.77- 675.38- 33.07-	7.71	2952.19 296.52 19.13	8.30	55816.62 3136.71 145.93	1.74	3222.27 150.85
34.0	11535.88- 693.39- 37.98-	6.53	3102.42 304.57 17.62	7.16	57402.92 3210.14 136.16	1.44	3298.27 142.45
34.5	11890.16- 713.35- 31.75-	5.99	3256.77 314.14 18.73	6.49	59026.76 3272.88 105.98	1.30	3364.42 112.21
35.0	12249.24- 725.14- 20.22-	6.64	3416.57 323.30 16.03	7.28	60675.81 3316.12 85.74	1.38	3409.84 89.54
35.5	12615.31- 733.58- 17.73-	5.83	3580.07 330.17 11.41	6.35	62342.89 3358.63 74.18	1.23	3453.63 77.12
36.0	12982.82- 742.88- 13.16-	5.35	3746.75 334.71 5.44	5.86	64034.44 3390.31 26.59	1.09	3486.85 30.16
36.5	13358.19- 746.75- .51	5.86	3914.79 335.61 1.31	6.42	65733.21 3385.22 30.82-	1.16	3482.82 30.85
37.0	13729.57- 742.37- 5.91	5.38	4082.36 336.02 .56	5.84	67419.67 3359.49 53.84-	1.05	3456.90 54.16
37.5	14100.56- 740.83- 2.99	5.03	4250.81 336.18 5.14-	5.44	69092.70 3331.38 56.98-	.98	3429.28 57.29
38.0	14470.41- 739.37- 3.53	5.99	4418.55 330.88 7.02-	6.51	70751.06 3302.50 57.54-	1.11	3400.39 58.08
38.5	14839.94- 737.30- 6.74	4.65	4581.70 329.16 1.28-	5.14	72395.20 3273.83 56.19-	.88	3371.93 56.61
39.0	15207.72- 732.63- 6.38	5.95	4747.71 329.60 .28-	6.50	74024.89 3246.31 53.76-	1.09	3344.23 54.13
39.5	15572.58- 730.91- 3.50	6.28	4911.30 328.87 1.60-	6.91	75641.52 3220.07 52.00-	1.13	3318.32 52.14
40.0	15938.63- 729.13- 2.78	4.27	5076.58 327.99 2.88-	4.68	77244.97 3194.30 51.24-	.75	3292.84 51.40
40.5	16301.71- 728.13- 2.19	5.20	5239.29 325.99 3.04-	5.55	78835.82 3168.83 49.98-	.93	3267.71 50.12
41.0	16666.77- 726.93- 5.04	5.28	5402.57 324.94 1.63-	5.68	80413.80 3144.31 48.93-	.92	3243.57 49.21
41.5	17028.64- 723.09- 8.48	5.71	5564.24 324.36 1.85	6.20	81980.14 3119.89 48.42-	1.01	3218.98 49.19
42.0	17389.87- 718.45- 4.44	3.83	5726.94 326.80 2.15-	4.10	83533.70 3095.89 46.88-	.68	3194.91 47.13
42.5	17747.10- 718.65- 1.93-	5.07	5891.05 322.21 9.07-	5.47	85076.03 3073.01 46.41-	.88	3172.33 47.33
43.0	18108.52- 720.39- 4.50	3.97	6049.15 317.73 1.78	4.25	86606.71 3049.47 45.63-	.70	3149.47 45.88
43.5	18467.49- 714.15- 7.58	4.73	6208.78 324.00 7.29	5.13	88125.50 3027.38 42.59-	.81	3127.31 43.87
44.0	18822.67- 712.80- 1.00	3.67	6373.15 325.03 5.06-	4.11	89634.10 3006.87 41.21-	.62	3107.25 41.53

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44.5	19180.29- 713.14- .80	4.96	6533.81 318.93 8.05-	5.37	91132.38 2986.17 42.11-	.86	3086.66 42.88
45.0	19535.82- 712.00- 2.43	4.42	6692.09 316.98 .97	4.84	92620.27 2964.76 43.00-	.75	3065.49 43.08
45.5	19892.30- 710.71- .29-	3.47	6850.79 319.91 .23	3.79	94097.14 2943.17 42.18-	.61	3044.61 42.18
46.0	20246.53- 712.30- .66-	3.51	7012.00 317.21 2.49-	3.84	95563.44 2922.57 39.68-	.57	3024.80 39.77
46.5	20604.60- 711.38- 4.25	3.51	7168.01 317.41 1.78	3.87	97019.72 2903.48 38.28-	.60	3006.16 38.55
47.0	20957.91- 708.05- 5.22	4.09	7329.42 319.00 .83	4.49	98466.92 2884.29 37.90-	.67	2987.01 38.26
47.5	21312.66- 706.15- 3.67	3.60	7487.01 318.25 1.95-	3.89	99904.01 2865.58 37.64-	.62	2968.41 37.87
48.0	21664.07- 704.37- 1.18-	1.87	7647.66 317.05 3.21-	2.04	101332.50 2846.64 38.84-	.32	2949.58 38.99
48.5	22017.03- 707.33- .55-	2.24	7804.06 315.03 .82-	2.33	102750.66 2826.73 39.12-	.39	2930.87 39.12
49.0	22371.40- 704.93- 7.24	2.00	7962.70 316.23 .96	2.22	104159.24 2807.52 36.83-	.32	2911.89 37.55
49.5	22721.96- 700.09- 4.68	.94	8120.29 316.00 .41	1.06	105558.18 2789.90 35.16-	.16	2893.70 35.48
50.0	23071.49- 700.24- 5.98-	1.41	8278.71 316.64 .11-	1.52	106949.14 2772.36 36.62-	.23	2876.90 37.10
50.5	23422.20- 706.07- 3.18-	.08	8436.93 315.88 .86	.18	108330.54 2753.28 37.53-	.02	2859.87 37.67
51.0	23777.57- 703.42- 6.92	.63	8594.60 317.51 1.34	.67	109702.42 2734.82 35.53-	.09	2841.63 36.22
51.5	24125.63- 699.15- 1.80	.53	8754.44 317.23 4.50-	.48	111065.37 2717.75 34.92-	.05	2824.11 35.25
52.0	24476.72- 701.61- .75-	.91	8911.83 313.00 2.41-	.87	112420.17 2699.90 36.67-	.16	2807.08 36.76
52.5	24827.24- 699.90- 2.10	.62	9067.45 314.81 4.42	.65	113765.27 2681.07 35.75-	.12	2788.75 36.09
53.0	25176.62- 699.51- 1.69-	.91	9226.65 317.43 .47	.96	115101.25 2664.14 34.73-	.15	2772.67 34.78
53.5	25526.76- 701.59- 4.31-	.34	9384.88 315.29 4.08-	.44	116429.41 2646.34 35.64-	.08	2755.86 36.13
54.0	25878.22- 703.82- .80	.90	9541.94 313.34 3.77-	1.07	117747.59 2628.50 34.56-	.15	2739.08 34.78
54.5	26230.58- 700.79- 9.68	2.28	9698.22 311.52 6.00	2.50	119057.91 2611.77 33.07-	.38	2722.04 34.97
55.0	26579.01- 694.14- 4.74	.62	9853.46 319.34 5.56	.75	120359.37 2595.43 33.26-	.11	2705.56 34.05

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55.5	26924.72- 696.05- 3.29-	1.77	10017.57 317.08 8.14-	1.91	121653.34 2578.51 36.18-	.31	2689.56 37.23
56.0	27275.06- 697.43- .13-	.89	10170.55 311.20 1.44-	.92	122937.88 2559.24 35.94-	.17	2670.76 35.97
56.5	27622.16- 696.18- 4.66-	.93	10328.78 315.64 2.12	.94	124212.59 2542.56 33.70-	.17	2654.98 34.09
57.0	27971.25- 702.10- 1.19-	.77	10486.20 313.33 .39	.77	125480.44 2525.53 34.02-	.16	2639.97 34.04
57.5	28324.26- 697.37- 7.05	1.00	10642.11 316.04 2.41	1.10	126738.13 2508.54 32.69-	.13	2622.78 33.52
58.0	28668.63- 695.05- .05	.63	10802.24 315.74 3.12-	.64	127988.99 2492.84 32.08-	.12	2607.12 32.23
58.5	29019.31- 697.32- .70	.79	10957.85 312.92 5.51-	.82	129230.97 2476.45 33.36-	.12	2591.72 33.81
59.0	29365.95- 694.34- 3.12	.32	11115.17 310.23 1.14	.46	130465.44 2459.48 35.59-	.06	2574.38 33.75
59.5	29713.66- 694.19- 1.28	.77	11268.09 314.06 8.67	.86	131690.46 2440.86 35.49-	.12	2557.01 36.56
60.0	30060.15- 693.06- .73-	.29	11429.24 318.90 .31	.28	132906.30 2423.98 32.66-	.04	2541.21 32.66
60.5	30406.73- 694.92- 1.41-	.71	11586.99 314.38 5.27-	.74	134114.45 2408.19 32.85-	.09	2526.10 33.30
61.0	30755.08- 694.48- 2.55	.10	11743.62 313.63 .66-	.15	135314.50 2391.13 32.65-	.01	2509.62 32.75
61.5	31101.21- 692.37- .55	.77	11900.62 313.71 .26-	.88	136505.58 2375.54 30.90-	.11	2494.19 30.91
62.0	31447.45- 693.92- 4.10-	1.24	12057.34 313.36 2.45-	1.35	137690.05 2360.22 34.01-	.20	2480.00 34.35
62.5	31795.14- 696.47- 1.64-	.73	12213.99 311.26 1.11-	.73	138865.81 2341.52 35.15-	.11	2462.66 35.20
63.0	32143.93- 695.56- 4.39	.93	12368.60 312.25 3.83	1.04	140031.58 2325.07 31.24-	.17	2446.89 31.78
63.5	32490.71- 692.08- 2.87	.66	12526.24 315.09 3.12	.67	141190.89 2310.28 32.04-	.10	2432.21 32.32
64.0	32836.01- 692.69- 2.35-	.32	12683.69 315.38 .26-	.44	142341.86 2293.03 35.24-	.05	2416.05 35.32
64.5	33183.40- 694.43- .50	1.09	12841.62 314.83 .90-	1.30	143483.92 2275.03 33.70-	.17	2399.40 33.71
65.0	33530.45- 692.19- 2.32	.35	12998.53 314.47 2.76	.46	144616.89 2259.33 30.34-	.06	2383.82 30.55
65.5	33875.60- 692.11- .92	.90	13156.09 317.59 .60	.98	145743.25 2244.69 31.65-	.15	2370.34 31.67
66.0	34222.56- 691.27- 4.96	.78	13316.12 315.07 7.60-	.85	146861.58 2227.67 32.59-	.14	2353.65 33.83

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77.5	42158.26- 686.07- 2.34-	4.44	16930.23 317.55 .88	4.87	170334.95 1854.98 29.55-	.88	2003.12 29.65
78.0	42502.45- 687.87- 3.50-	5.25	17090.59 315.56 7.50-	5.68	171258.87 1839.65 32.67-	1.05	1989.24 33.70
78.5	42846.14- 689.57- 3.06-	5.05	17245.79 310.05 2.53-	5.45	172174.61 1822.31 33.78-	1.01	1972.93 34.01
79.0	43192.03- 690.94- 3.04	5.73	17400.65 313.03 14.33	6.27	173081.19 1805.87 30.32-	1.13	1958.71 33.67
79.5	43537.08- 686.53- 7.36	4.40	17558.82 324.39 6.16	4.83	173980.48 1791.99 30.74-	.86	1946.22 32.21
80.0	43878.56- 683.58- 2.96-	6.18	17725.04 319.19 16.93-	6.76	174873.18 1773.12 36.07-	1.26	1928.79 39.96
80.5	44220.67- 689.50- 8.28-	4.99	17878.02 307.46 8.46-	5.43	175755.61 1753.91 34.50-	1.00	1911.32 36.47
81.0	44568.06- 691.86- .32-	6.15	18032.50 310.73 7.82	6.75	176629.09 1740.62 30.95-	1.28	1898.68 31.92
81.5	44912.53- 689.82- 1.32	4.52	18188.76 315.27 7.11	4.88	177496.23 1724.96 31.95-	.92	1884.34 32.76
82.0	45257.89- 690.53- 3.60	5.93	18347.77 317.84 5.99	6.49	178354.05 1708.66 31.00-	1.23	1870.13 31.78
82.5	45603.06- 686.22- 4.53	3.04	18506.61 321.27 .57-	3.25	179204.90 1693.95 30.88-	.65	1855.69 31.22
83.0	45944.11- 686.00- 2.00	4.09	18669.05 317.27 9.80-	4.55	180048.01 1677.78 32.50-	.84	1840.16 34.01
83.5	46289.07- 684.22- 3.25	3.03	18823.88 311.46 3.88-	3.26	180882.68 1661.45 33.14-	.62	1823.61 33.53
84.0	46628.33- 682.74- 7.33-	4.75	18980.51 313.38 2.19	5.08	181709.46 1644.63 35.47-	1.00	1808.08 36.29
84.5	46971.81- 691.56- 2.71-	5.12	19137.27 313.65 5.38	5.47	182527.32 1625.97 34.94-	1.09	1794.55 35.46
85.0	47319.89- 685.45- 13.34	4.40	19294.16 318.77 .05	4.85	183335.44 1609.68 28.84-	.92	1778.35 31.78
85.5	47657.27- 678.22- 2.19	3.05	19456.04 313.71 8.14-	3.27	184137.00 1597.12 27.07-	.63	1763.29 28.35
86.0	47998.11- 683.26- 6.11-	3.75	19607.87 310.62 4.65	4.05	184932.56 1582.61 33.19-	.79	1751.57 34.07
86.5	48340.53- 684.33- 2.55	4.35	19766.66 318.36 6.99	4.74	185719.61 1563.93 36.17-	.93	1736.53 36.92
87.0	48682.44- 680.70- .91-	4.41	19926.24 317.62 1.24-	4.90	186496.49 1546.44 33.90-	.91	1719.22 33.93
87.5	49021.24- 685.24- 6.11-	5.67	20084.28 317.12 8.02-	6.29	187266.06 1530.03 31.83-	1.22	1706.20 33.39
88.0	49367.68- 686.81- 1.65	3.49	20243.36 309.59 8.83-	3.79	188026.52 1514.60 30.55-	.75	1691.62 31.85

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66.5	34566.87- 687.14- 1.94-	.76	13471.17 309.99 2.85-	.83	147970.93 2212.09 31.80-	.12	2337.01 31.98
67.0	34909.70- 693.22- 9.08-	3.46	13626.12 312.22 2.20	3.74	149073.68 2195.87 33.35-	.60	2323.77 34.64
67.5	35260.09- 696.23- .35	2.91	13783.39 312.19 4.15	3.11	150166.81 2178.73 32.62-	.53	2308.48 32.88
68.0	35605.94- 692.87- 7.22	1.15	13938.31 316.37 7.79	1.25	151252.41 2165.25 30.88-	.19	2293.43 32.65
68.5	35952.96- 689.01- .74	.89	14099.76 319.99 4.43-	1.00	152330.07 2147.85 32.53-	.15	2278.24 32.84
69.0	36294.95- 692.12- 8.38-	1.99	14258.31 311.93 6.53-	2.28	153400.27 2130.72 34.75-	.34	2261.92 36.34
69.5	36645.08- 697.40- 4.41	3.20	14411.70 313.45 8.43	3.50	154460.79 2113.10 32.64-	.59	2247.17 34.00
70.0	36992.35- 687.70- 10.26	1.30	14571.77 320.37 .34	1.40	155513.37 2098.07 31.66-	.22	2231.03 33.27
70.5	37332.79- 687.14- 2.04-	2.60	14732.07 313.80 11.21-	2.85	156558.86 2081.44 32.89-	.48	2214.27 34.81
71.0	37679.50- 689.75- 2.13-	3.29	14885.57 309.15 1.37	3.55	157594.81 2065.18 31.67-	.61	2199.16 31.77
71.5	38022.54- 689.27- 3.05-	3.51	15041.23 315.17 6.49	3.84	158624.04 2049.77 32.67-	.66	2185.40 33.44
72.0	38368.77- 692.80- 4.42-	3.85	15200.75 315.65 2.54	4.17	159644.58 2032.51 32.82-	.74	2170.41 33.21
72.5	38715.35- 693.70- 1.53	3.49	15356.88 317.72 1.60-	3.76	160656.55 2016.95 31.79-	.67	2156.44 31.87
73.0	39062.47- 691.27- 9.01	1.17	15518.47 314.04 6.71-	1.30	161661.53 2000.71 32.49-	.23	2139.93 34.37
73.5	39406.63- 684.68- 6.58	3.41	15670.93 311.00 1.77-	3.70	162657.27 1984.46 32.22-	.67	2122.16 32.93
74.0	39747.16- 684.68- 6.89-	4.54	15829.47 312.27 .18-	4.95	163645.99 1968.48 32.95-	.87	2107.42 33.66
74.5	40091.31- 691.58- 7.26-	3.88	15983.20 310.81 5.24	4.17	164625.75 1951.50 33.29-	.76	2093.62 34.47
75.0	40438.74- 691.95- 3.19	3.84	16140.29 317.51 5.34	4.19	165597.49 1935.19 31.07-	.74	2079.56 31.68
75.5	40783.26- 688.39- 2.48	3.83	16300.72 316.15 2.67-	4.21	166560.95 1920.43 30.40-	.74	2064.43 30.62
76.0	41127.14- 689.46- .84-	2.68	16456.45 314.83 .42	2.88	167517.92 1904.79 34.46-	.50	2050.05 34.47
76.5	41472.73- 689.23- 3.93	4.23	16615.56 316.58 .16-	4.62	168465.74 1885.96 35.58-	.81	2032.76 35.79
77.0	41816.38- 685.53- 3.16	3.81	16773.04 314.67 .97	4.21	169403.89 1869.21 30.98-	.72	2015.67 31.15

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88.5	49708.06- 683.59- 2.47	4.87	20393.87 308.29 5.93	5.37	188780.66 1499.47 31.65-	1.06	1676.53 32.29
89.0	50051.27- 684.34- 1.96	3.48	20551.65 315.52 7.48	3.77	189526.00 1482.95 31.90-	.77	1663.43 32.83
89.5	50392.40- 681.62- 1.66	4.15	20709.40 315.77 2.41	4.53	190263.61 1467.56 31.44-	.90	1648.66 31.57
90.0	50732.90- 682.67- .15-	4.33	20867.43 317.93 2.59-	4.76	190993.57 1451.51 32.29-	.93	1635.24 32.39
90.5	51075.08- 681.78- 3.59	4.22	21027.33 313.18 4.55-	4.64	191715.12 1435.27 33.33-	.95	1619.54 33.83
91.0	51414.69- 679.08- .28	3.25	21180.61 313.38 3.76	3.58	192428.84 1418.17 33.61-	.72	1603.30 33.82
91.5	51754.17- 681.50- 5.12-	4.83	21340.71 316.94 2.85-	5.28	193133.30 1401.66 32.63-	1.09	1590.45 33.15
92.0	52096.19- 684.21- 1.00-	4.21	21497.55 310.53 6.16-	4.60	193830.50 1385.53 31.38-	.93	1576.16 32.00
92.5	52438.38- 682.50- 3.06	7.30	21651.25 310.78 4.59	8.00	194518.83 1370.27 29.37-	1.62	1562.06 29.88
93.0	52778.70- 681.15- .73-	4.93	21808.33 315.12 3.28	5.47	195200.78 1356.16 32.10-	1.09	1549.98 32.27
93.5	53119.54- 683.24- .03	5.78	21966.38 314.06 1.12-	6.34	195874.99 1338.17 35.52-	1.31	1534.98 35.53
94.0	53461.94- 681.12- 5.00	4.49	22122.40 314.00 3.83	4.98	196538.95 1320.64 33.70-	1.01	1518.75 34.28
94.5	53800.66- 678.23- 2.59-	4.00	22280.38 317.89 1.01	4.34	197195.63 1304.47 32.67-	.91	1504.22 32.78
95.0	54140.18- 683.72- 1.40	3.78	22440.30 315.01 2.56-	4.14	197843.42 1287.97 29.62-	.86	1491.83 29.76
95.5	54484.38- 676.83- 8.08	6.15	22595.40 315.33 5.60-	6.84	198483.60 1274.85 28.84-	1.42	1477.42 30.47
96.0	54817.02- 675.63- 7.06-	4.94	22755.63 309.41 6.71-	5.36	199118.27 1259.12 34.11-	1.17	1462.06 35.47
96.5	55160.01- 683.90- 10.52-	6.69	22904.81 308.61 7.89	7.31	199742.73 1240.74 36.56-	1.53	1449.96 38.85
97.0	55500.92- 686.15- 3.02	6.37	23064.24 317.31 5.68	7.01	200359.01 1222.56 33.70-	1.48	1437.41 34.31
97.5	55846.17- 680.88- 11.95	4.97	23222.13 314.30 6.58-	5.52	200965.29 1207.03 28.95-	1.13	1421.02 32.01
98.0	56181.80- 674.19- .01	5.33	23378.54 310.72 2.50-	5.85	201566.05 1193.60 31.08-	1.24	1405.62 31.17
98.5	56520.37- 680.86- 7.19-	7.21	23532.85 311.79 7.98	7.99	202158.89 1175.95 33.51-	1.69	1394.15 35.19
99.0	56862.66- 681.39- 12.20-	7.09	23690.33 318.70 7.73	7.82	202742.00 1160.08 33.94-	1.68	1382.63 36.88

SM 1.01

99.5	57201.76- 693.07-	5.00	23851.56 319.53	5.42	203318.98 1142.01	1.21	1373.55
100.0	57555.74-	4.16	24009.86	4.50	203884.02	.98	

SM 1.02

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	7.38-	.35	4.23-	.61	332.63	1.65	
1.5	20.29- 34.73-	.22	6.69- 3.98	.34	590.18 624.92	.53	625.89
2.0	42.12- 53.72- 32.45-	.07	.24- 19.48 25.03	.13	957.55 840.20 356.19	.22	842.14 358.54
2.5	74.01- 67.18- 19.73-	.12	12.78 29.01 12.63	.12	1430.38 981.11 192.54	.14	983.83 193.96
3.0	109.30- 73.44- 10.61-	.18	28.76 32.11 3.32	.12	1938.67 1032.75 82.29	.16	1035.86 83.04
3.5	147.46- 77.80- 6.63-	.43	44.90 32.34 1.88	.44	2463.14 1063.40 54.98	.38	1066.73 55.41
4.0	187.10- 80.08- 4.11-	.95	61.11 34.00 4.48	.98	3002.07 1087.74 45.12	.89	1091.21 45.53
4.5	227.54- 81.92- 2.98-	.66	78.90 36.83 4.40	.68	3550.88 1108.52 41.35	.58	1112.16 41.69
5.0	269.02- 83.06- 2.99-	.60	97.94 38.40 2.51	.58	4110.60 1129.09 40.32	.53	1132.79 40.50
5.5	310.61- 84.91- 5.62-	.11	117.30 39.34 2.03	.12	4679.97 1148.85 40.45	.13	1152.65 40.89
6.0	353.94- 88.69- 7.19-	.70	137.28 40.43 1.89	.73	5259.45 1169.54 41.55	.65	1173.60 42.21
6.5	399.30- 92.10- 5.87-	.91	157.74 41.23 1.41	.96	5849.52 1190.40 41.88	.79	1194.67 42.32
7.0	446.04- 94.57- 6.07-	1.02	178.52 41.85 1.80	1.07	6449.86 1211.43 41.81	.88	1215.84 42.28
7.5	493.87- 98.18- 7.33-	1.10	199.59 43.03 2.04	1.15	7060.95 1232.21 41.47	.89	1236.86 42.16
8.0	544.23- 101.90- 6.30-	1.28	221.55 43.89 1.46	1.34	7682.07 1252.91 42.84	1.03	1257.81 43.32
8.5	595.78- 104.49- 5.84-	1.61	243.48 44.50 2.15	1.71	8313.86 1275.05 44.98	1.26	1280.10 45.41
9.0	648.72- 107.75- 7.34-	1.90	266.06 46.05 4.01	1.99	8957.13 1297.89 46.72	1.46	1303.17 47.46
9.5	703.53- 111.83- 7.26-	2.23	289.53 48.51 6.52	2.35	9611.76 1321.78 50.09	1.68	1327.39 51.03
10.0	760.55- 115.01- 7.48-	1.66	314.57 52.57 4.27	1.76	10278.91 1347.98 51.36	1.21	1353.90 52.08
10.5	818.54- 119.32- 8.63-	.58	342.11 52.79 .71-	.59	10959.75 1373.14 50.07	.44	1379.33 50.81
11.0	879.88- 123.64- 6.20-	.29	367.36 51.86 .19-	.31	11652.06 1398.05 51.65	.23	1404.47 52.02

SM 1.02

11.5	942.19- 125.52- 2.76-	.35	393.97 52.59 2.33	.39	12357.80 1424.79 52.75	.26	1431.28 52.87
12.0	1005.40- 126.40- 2.55-	.27	419.96 54.19 4.65	.31	13076.86 1450.81 53.06	.21	1457.31 53.33
12.5	1068.59- 128.07- 5.07-	.95	448.17 57.24 3.84	1.00	13808.61 1477.86 56.04	.65	1484.50 56.40
13.0	1133.48- 131.48- 6.52-	1.67	477.20 58.04 1.13	1.72	14554.72 1506.85 58.75	1.08	1513.69 59.12
13.5	1200.08- 134.59- 7.89-	2.10	506.21 58.37 3.92	2.19	15315.47 1536.62 60.38	1.33	1543.61 61.02
14.0	1268.08- 139.37- 7.81-	2.13	535.58 61.95 5.85	2.23	16091.34 1567.23 60.65	1.31	1574.64 61.43
14.5	1339.45- 142.41- 4.23-	.89	568.17 64.23 1.58	.96	16882.70 1597.27 59.55	.54	1604.89 59.72
15.0	1410.49- 143.61- 5.52-	.95	599.81 63.54 2.72	1.00	17688.61 1626.79 61.28	.58	1634.35 61.59
15.5	1483.07- 147.94- 8.53-	1.95	631.72 66.95 7.97	2.05	18509.49 1658.56 64.37	1.13	1666.49 65.42
16.0	1558.43- 152.15- 8.05-	1.97	666.77 71.52 8.42	2.08	19347.18 1691.16 66.12	1.12	1699.50 67.14
16.5	1635.21- 156.00- 8.62-	2.07	703.24 75.37 7.17	2.17	20200.66 1724.68 68.21	1.14	1733.36 69.13
17.0	1714.43- 160.77- 9.09-	1.98	742.15 78.69 8.20	2.09	21071.86 1759.38 70.26	1.06	1768.46 71.32
17.5	1795.99- 165.09- 7.68-	2.18	781.94 83.57 9.86	2.29	21960.04 1794.95 71.90	1.15	1804.46 72.97
18.0	1879.52- 168.45- 8.18-	2.26	825.73 88.56 7.48	2.38	22866.81 1831.28 73.20	1.16	1841.14 74.03
18.5	1964.44- 173.27- 11.54-	2.51	870.50 91.06 3.78	2.66	23791.32 1868.15 75.69	1.23	1878.37 76.65
19.0	2052.80- 179.99- 14.55-	2.63	916.79 92.35 2.19	2.78	24734.96 1906.97 78.67	1.28	1917.67 80.03
19.5	2144.44- 187.82- 13.78-	2.98	962.85 93.25 2.02	3.15	25698.29 1946.82 79.96	1.40	1958.08 81.17
20.0	2240.63- 193.78- 11.09-	3.68	1010.04 94.36 2.12	3.87	26681.78 1986.93 82.43	1.69	1998.59 83.20
20.5	2338.23- 198.91- 13.06-	4.31	1057.22 95.37 4.77	4.57	27685.22 2029.25 86.94	1.90	2041.21 88.04
21.0	2439.54- 206.85- 15.31-	5.01	1105.42 99.13 7.11	5.31	28711.04 2073.88 89.68	2.16	2086.52 91.25
21.5	2543.08- 214.22- 12.62-	5.15	1156.36 102.49 4.31	5.46	29759.10 2118.94 92.15	2.16	2132.20 93.11
22.0	2653.77- 219.47- 10.97-	5.35	1207.91 103.45 2.13	5.65	30829.98 2166.03 95.70	2.19	2179.58 96.35

SM 1.02

22.5	2764.55- 225.19- 11.73-	5.24	1259.81 104.62 2.84	5.55	31925.14 2214.65 98.23	2.07	2228.52 98.96
23.0	2878.97- 231.21- 11.12-	5.12	1312.54 106.29 3.31	5.45	33044.63 2264.26 100.78	1.99	2278.51 101.44
23.5	2995.76- 236.32- 8.56-	4.89	1366.11 107.93 5.66	5.23	34189.40 2315.43 103.87	1.83	2329.96 104.38
24.0	3115.29- 239.76- 7.16-	4.97	1420.47 111.95 8.04	5.28	35360.06 2368.14 107.69	1.81	2382.88 108.23
24.5	3235.53- 243.48- 8.19-	5.31	1478.07 115.98 6.79	5.67	36557.54 2423.12 111.60	1.89	2438.09 112.11
25.0	3358.77- 247.96- 8.47-	5.28	1536.45 118.75 6.94	5.64	37783.19 2479.74 115.42	1.82	2494.94 115.93
25.5	3483.49- 251.95- 8.93-	5.26	1596.82 122.92 8.77	5.61	39037.29 2538.55 120.29	1.76	2553.98 120.94
26.0	3610.72- 256.90- 9.24-	5.22	1659.38 127.52 10.86	5.57	40321.74 2600.04 125.60	1.69	2615.81 126.41
26.5	3740.40- 261.20- 9.88-	5.41	1724.34 133.78 13.30	5.79	41637.33 2664.15 130.47	1.70	2680.26 131.52
27.0	3871.92- 266.78- 10.64-	5.44	1793.16 140.83 14.15	5.82	42985.89 2730.51 134.74	1.66	2747.13 135.89
27.5	4007.18- 271.84- 10.22-	5.25	1865.17 147.93 13.95	5.60	44367.84 2798.89 139.69	1.55	2815.95 140.76
28.0	4143.76- 277.01- 11.10-	5.73	1941.10 154.78 13.58	6.11	45784.79 2870.21 144.58	1.66	2887.69 145.64
28.5	4284.20- 282.94- 11.05-	5.79	2019.96 161.52 16.24	6.20	47238.05 2943.47 149.23	1.63	2961.44 150.51
29.0	4426.71- 288.06- 11.70-	6.01	2102.62 171.03 18.26	6.44	48728.26 3019.44 154.99	1.63	3037.97 156.50
29.5	4572.26- 294.64- 13.29-	5.44	2190.99 179.78 17.62	5.83	50257.50 3098.46 160.54	1.43	3117.63 162.05
30.0	4721.35- 301.35- 12.14-	6.13	2282.41 188.65 19.45	6.56	51826.72 3179.98 165.44	1.57	3199.79 167.02
30.5	4873.61- 306.78- 10.67-	7.16	2379.64 199.23 20.80	7.65	53437.48 3263.90 170.70	1.76	3284.54 172.30
31.0	5028.13- 312.02- 13.73-	6.29	2481.65 209.45 17.46	6.77	55090.63 3350.69 176.07	1.49	3371.69 177.47
31.5	5185.64- 320.51- 17.58-	6.55	2589.10 216.70 17.63	7.03	56788.17 3439.98 181.51	1.51	3461.67 183.20
32.0	5348.65- 329.61- 12.79-	6.99	2698.35 227.09 22.72	7.53	58530.61 3532.20 187.69	1.56	3554.80 189.50
32.5	5515.26- 333.31- 5.26-	7.63	2816.19 239.43 16.89	8.20	60320.37 3627.68 194.46	1.65	3650.82 195.26
33.0	5681.96- 334.87- 7.22-	7.35	2937.78 243.98 9.73	7.92	62158.29 3726.66 202.41	1.54	3749.62 202.77

SM 1.02

33.5	5850.13- 340.53- 13.87-	7.44	3060.18 249.16 7.26	8.02	64047.03 3830.09 208.76	1.51	3853.26 209.34
34.0	6022.50- 348.75- 19.49-	8.86	3186.95 251.25 2.02	9.54	65988.39 3935.42 202.11	1.74	3958.82 203.06
34.5	6198.88- 360.02- 16.32-	7.94	3311.43 251.18 1.58	8.55	67982.46 4032.20 147.00	1.50	4056.03 147.91
35.0	6382.52- 365.07- 5.93-	8.63	3438.14 252.83 1.60	9.27	70020.59 4082.43 40.81	1.59	4106.51 41.27
35.5	6563.96- 365.95- 6.78-	8.26	3564.26 252.79 .15	8.90	72064.89 4073.02 40.43-	1.47	4097.23 41.00
36.0	6748.48- 371.85- 5.77-	8.19	3690.93 252.98 1.38-	8.81	74093.62 4041.99 61.55-	1.41	4066.94 61.83
36.5	6935.82- 371.73- 1.91	8.41	3817.25 251.41 3.20-	9.07	76106.89 4011.47 60.38-	1.40	4036.49 60.50
37.0	7120.20- 369.93- .11-	7.89	3942.34 249.77 6.48-	8.52	78105.09 3981.60 59.36-	1.28	4006.55 59.71
37.5	7305.76- 371.84- 1.93-	8.02	4067.02 244.93 4.41-	8.66	80088.50 3952.10 58.03-	1.27	3977.11 58.23
38.0	7492.05- 371.87- 2.04-	8.89	4187.27 245.36 5.06	9.61	82057.20 3923.57 55.33-	1.36	3948.78 55.60
38.5	7677.64- 373.89- 1.57-	9.52	4312.39 249.99 .46	10.26	84012.07 3896.77 54.63-	1.42	3922.64 54.66
39.0	7865.95- 373.45- 1.87	10.46	4437.26 245.83 4.96-	11.31	85953.97 3868.93 55.03-	1.52	3894.68 55.28
39.5	8051.09- 372.02- .19-	9.29	4558.22 245.02 1.93	10.02	87881.00 3841.73 51.71-	1.33	3867.47 51.75
40.0	8237.97- 373.65- 2.29	9.77	4682.29 247.76 3.21	10.53	89795.71 3817.22 48.41-	1.36	3843.45 48.57
40.5	8424.74- 369.73- 3.75	9.88	4805.98 248.24 2.31	10.67	91698.22 3793.32 46.91-	1.35	3819.37 47.11
41.0	8607.70- 369.89- 1.95-	9.77	4930.53 250.07 1.66	10.55	93589.03 3770.31 45.97-	1.30	3796.65 46.04
41.5	8794.64- 371.68- 2.26	9.95	5056.05 249.90 2.98-	10.78	95468.53 3747.35 46.29-	1.29	3774.02 46.44
42.0	8979.38- 367.63- 3.95	10.01	5180.44 247.08 1.64-	10.82	97336.38 3724.01 45.42-	1.27	3750.26 45.62
42.5	9162.27- 367.72- .09-	9.88	5303.13 248.26 .36	10.67	99192.55 3701.92 43.05-	1.23	3728.41 43.05
43.0	9347.11- 367.72- .38-	10.91	5428.70 247.45 1.02-	11.81	101038.31 3680.95 41.47-	1.33	3707.54 41.48
43.5	9529.99- 368.11- 1.11	10.39	5550.58 247.24 1.01	11.24	102873.50 3660.45 40.69-	1.24	3687.21 40.72
44.0	9715.23- 366.61- 2.76	10.97	5675.94 248.46 1.88-	11.88	104698.76 3640.25 40.00-	1.29	3667.10 40.14

SM 1.02

44.5	9896.60- 365.35- 2.67	11.36	5799.05 245.36 .61	12.31	106513.76 3620.44 40.00-	1.32	3647.09 40.09
45.0	10080.58- 363.94- 5.18	11.76	5921.31 249.07 2.87	12.72	108319.21 3600.25 40.76-	1.34	3627.16 41.19
45.5	10260.54- 360.16- .31	11.49	6048.12 248.23 4.21-	12.46	110114.02 3579.68 39.50-	1.29	3606.30 39.73
46.0	10440.74- 363.62- 4.75-	11.12	6169.54 244.86 .24	12.07	111898.89 3560.74 37.63-	1.22	3587.63 37.93
46.5	10624.17- 364.92- 1.03	11.52	6292.99 248.48 .81	12.47	113674.76 3542.04 38.08-	1.25	3569.45 38.10
47.0	10805.67- 362.59- 4.13	12.73	6418.02 245.68 5.42-	13.80	115440.93 3522.66 37.80-	1.36	3549.78 38.41
47.5	10986.77- 360.79- 1.72-	11.59	6538.67 243.05 1.63	12.56	117197.43 3504.24 36.52-	1.22	3531.13 36.60
48.0	11166.46- 364.31- 5.59-	11.68	6661.07 247.31 3.57	12.65	118945.17 3486.13 37.11-	1.22	3513.83 37.70
48.5	11351.08- 366.38- 4.93	13.11	6785.98 246.63 2.30-	14.21	120683.56 3467.12 37.43-	1.35	3495.14 37.82
49.0	11532.85- 359.38- 5.98	13.19	6907.70 245.00 2.17	14.30	122412.29 3448.70 36.09-	1.34	3476.02 36.65
49.5	11710.47- 360.39- 6.03-	11.39	7030.98 248.80 2.15	12.33	124132.27 3431.02 35.43-	1.14	3458.86 36.01
50.0	11893.24- 365.42- 2.69-	12.97	7156.51 247.15 5.25-	14.08	125843.32 3413.27 34.93-	1.28	3441.66 35.42
50.5	12075.89- 363.09- 3.03	13.49	7278.13 243.55 .50	14.62	127545.54 3396.09 34.36-	1.32	3424.11 34.49
51.0	12256.34- 362.38- 2.28	12.17	7400.06 247.65 3.11	13.20	129239.41 3378.90 35.01-	1.18	3407.29 35.22
51.5	12438.28- 360.81- 2.39	13.95	7525.79 246.66 .80-	15.12	130924.45 3361.07 35.63-	1.34	3389.37 35.72
52.0	12617.15- 359.99- 1.44-	12.56	7646.73 246.85 1.68	13.64	132600.49 3343.27 35.44-	1.19	3371.65 35.51
52.5	12798.27- 362.25- .33-	14.11	7772.64 248.35 1.65-	15.30	134267.73 3325.63 34.79-	1.33	3354.50 34.83
53.0	12979.40- 360.33- 1.71	15.02	7895.08 245.19 1.48-	16.32	135926.12 3308.48 33.77-	1.40	3337.06 33.85
53.5	13158.60- 360.54- .26-	13.81	8017.84 246.87 1.33	14.99	137576.21 3291.85 33.60-	1.27	3320.72 33.63
54.0	13339.94- 360.59- 2.62	14.56	8141.96 246.53 1.78	15.81	139217.97 3274.87 33.89-	1.34	3303.87 34.03
54.5	13519.20- 357.91- 2.36	14.41	8264.37 248.66 2.10	15.64	140851.08 3257.96 33.92-	1.31	3286.98 34.06
55.0	13697.86- 358.22- .49-	14.95	8390.62 248.64 3.17-	16.22	142475.93 3240.95 34.24-	1.35	3270.15 34.39

SM 1.02

55.5	13877.42- 358.41- 2.39-	14.63	8513.01 245.49 2.73-	15.88	144092.03 3223.72 34.09-	1.32	3252.85 34.29
56.0	14056.28- 360.62- 1.60-	14.75	8636.11 245.90 1.65	16.02	145699.65 3206.85 33.73-	1.32	3236.42 33.81
56.5	14238.04- 360.01- .33-	15.19	8758.92 247.14 .58	16.49	147298.88 3189.98 33.23-	1.35	3219.73 33.23
57.0	14416.29- 360.96- 1.47-	15.07	8883.25 246.48 1.75-	16.34	148889.63 3173.62 32.72-	1.33	3203.57 32.80
57.5	14599.00- 361.49- 2.96	16.38	9005.40 245.39 2.59	17.79	150472.51 3157.25 33.03-	1.44	3187.34 33.26
58.0	14777.78- 357.99- 3.07	16.52	9128.65 249.08 3.48	17.94	152046.89 3140.59 32.96-	1.44	3170.72 33.28
58.5	14956.99- 358.41- 2.33-	15.32	9254.48 248.88 .98-	16.62	153613.10 3124.29 33.04-	1.34	3154.62 33.14
59.0	15136.20- 360.32- 1.07	15.21	9377.53 248.10 .47	16.52	155171.19 3107.54 34.01-	1.32	3138.18 34.03
59.5	15317.32- 357.33- 1.86	16.95	9502.58 249.36 1.71-	18.40	156720.64 3090.28 33.63-	1.47	3120.85 33.72
60.0	15493.54- 358.46- 5.55-	15.78	9626.89 246.39 2.64-	17.13	158261.47 3073.91 32.42-	1.35	3104.53 33.00
60.5	15675.78- 362.89- 1.49-	17.15	9748.97 246.71 .77	18.65	159794.55 3057.86 32.37-	1.47	3089.18 32.42
61.0	15856.43- 359.95- 6.20	16.19	9873.60 247.16 2.25	17.59	161319.33 3041.53 32.29-	1.39	3072.71 32.96
61.5	16035.74- 356.68- 4.94	16.63	9996.13 248.96 8.02	18.09	162836.08 3025.56 31.86-	1.42	3056.67 33.22
62.0	16213.11- 355.01- 1.50-	16.46	10122.57 255.18 .95	17.87	164344.90 3009.67 33.28-	1.40	3041.26 33.33
62.5	16390.75- 358.24- 4.74-	16.63	10251.31 249.83 8.49-	18.05	165845.80 2992.32 34.53-	1.41	3024.03 35.87
63.0	16571.34- 359.75- 3.19-	15.88	10372.40 246.69 .97	17.28	167337.22 2975.14 32.74-	1.34	3006.95 32.91
63.5	16750.51- 355.05- 4.56	16.34	10498.00 250.80 .71	17.77	168820.94 2959.58 31.45-	1.38	2991.33 31.79
64.0	16926.40- 355.19- 4.99-	16.76	10623.21 247.41 5.48-	18.22	170296.80 2943.68 32.30-	1.42	2975.34 33.14
64.5	17105.70- 360.04- 3.11-	16.46	10745.42 245.31 4.14	17.88	171764.63 2927.27 32.42-	1.39	2959.51 32.83
65.0	17286.44- 358.31- 5.09	17.92	10868.52 251.56 5.02	19.47	173224.07 2911.25 31.83-	1.51	2943.99 32.62
65.5	17464.01- 354.95- .52-	18.60	10996.98 250.33 5.05-	20.20	174675.89 2895.43 32.58-	1.57	2927.83 32.97
66.0	17641.39- 358.83- 4.46-	17.18	11118.86 246.51 2.22-	18.65	176119.51 2878.67 33.49-	1.45	2911.41 33.85

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66.5	17822.84- 359.42- 2.74	19.12	11243.49 248.11 3.39	20.78	177554.56 2861.94 33.07-	1.61	2895.08 33.36
67.0	18000.81- 356.08- 4.20	19.34	11366.98 249.90 3.82	21.01	178981.46 2845.60 32.08-	1.62	2878.66 32.58
67.5	18178.92- 355.21- 1.21	19.86	11493.40 251.94 .73	21.59	180400.16 2829.86 31.63-	1.67	2863.17 31.66
68.0	18356.03- 354.86- 4.77-	19.09	11618.92 250.63 3.92-	20.75	181811.32 2813.96 32.25-	1.60	2847.30 32.84
68.5	18533.78- 359.99- 2.34-	18.04	11744.03 248.01 .11-	19.60	183214.13 2797.60 31.89-	1.52	2831.55 31.97
69.0	18716.02- 357.21- 6.81	21.12	11866.94 250.52 .68	22.95	184608.93 2782.07 31.49-	1.78	2816.07 32.22
69.5	18890.99- 353.17- 1.50	17.92	11994.55 248.70 4.57-	19.48	185996.20 2766.11 32.63-	1.50	2799.63 32.98
70.0	19069.19- 355.70- 5.91-	18.59	12115.64 245.95 6.00	20.24	187375.05 2749.43 33.16-	1.56	2783.23 34.22
70.5	19246.70- 359.08- 3.67-	17.77	12240.50 254.70 3.29	19.28	188745.64 2732.94 32.93-	1.50	2768.17 33.30
71.0	19428.28- 359.37- 2.59	22.21	12370.34 249.24 4.20-	24.15	190107.99 2716.49 32.53-	1.87	2751.47 32.90
71.5	19606.08- 356.49- 2.00	20.73	12489.74 250.50 3.56	22.51	191462.13 2700.41 31.82-	1.75	2735.33 32.08
72.0	19784.77- 357.37- 1.33-	22.07	12620.85 252.80 .75-	23.99	192808.40 2684.67 31.45-	1.86	2720.12 31.49
72.5	19963.45- 357.82- 1.36-	22.56	12742.55 249.75 .83	24.53	194146.80 2668.95 31.94-	1.91	2704.39 31.98
73.0	20142.59- 358.73- 2.25-	22.51	12870.60 253.63 .37	24.47	195477.36 2652.72 32.47-	1.90	2688.86 32.55
73.5	20322.19- 360.07- 8.67-	22.54	12996.18 250.12 4.29-	24.51	196799.53 2636.48 33.56-	1.91	2672.68 34.92
74.0	20502.67- 367.41- 2.27	22.78	13120.72 249.34 .74-	24.77	198113.84 2619.16 33.23-	1.93	2656.53 33.32
74.5	20689.60- 357.80- 14.55	24.03	13245.53 249.38 2.16-	26.12	199418.69 2603.24 30.83-	2.04	2639.52 34.16
75.0	20860.48- 352.86- .44	23.46	13370.11 247.18 .75	25.50	200717.08 2588.33 31.24-	2.00	2623.94 31.25
75.5	21042.46- 357.35- .12	23.53	13492.72 250.13 6.90	25.59	202007.02 2571.99 32.28-	2.01	2608.72 33.01
76.0	21217.83- 352.73- 1.41-	23.88	13620.24 254.08 .85-	25.99	203289.08 2556.04 32.04-	2.04	2592.75 32.08
76.5	21395.19- 358.77- 4.81-	23.58	13746.80 249.28 9.83-	25.61	204563.07 2539.95 31.87-	2.02	2577.25 33.70
77.0	21576.61- 357.54- .00	25.38	13869.53 244.24 .22-	27.59	205829.03 2524.17 31.82-	2.18	2561.04 31.82

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77.5	21752.74- 358.76- 2.46-	24.21	13991.05 249.06 7.74	26.33	207087.25 2508.12 31.98-	2.08	2545.86 33.00
78.0	21935.37- 360.00- 4.05	24.36	14118.59 251.99 .52	26.49	208337.16 2492.19 31.06-	2.10	2530.63 31.32
78.5	22112.74- 354.71- 4.84	25.68	14243.04 249.58 2.01	27.95	209579.44 2477.06 32.09-	2.22	2514.75 32.51
79.0	22290.09- 355.16- 2.56-	24.48	14368.18 254.00 5.37	26.60	210814.23 2460.10 34.13-	2.12	2498.55 34.65
79.5	22467.91- 357.27- 3.01-	23.94	14497.05 254.96 .38-	26.03	212039.53 2442.92 33.16-	2.08	2482.04 33.30
80.0	22647.36- 358.18- .07	25.68	14623.14 253.62 3.05-	27.91	213257.16 2426.93 31.86-	2.23	2466.29 32.00
80.5	22826.10- 357.20- 3.32	24.97	14750.67 251.90 8.07-	27.15	214466.47 2411.06 31.21-	2.18	2450.36 32.40
81.0	23004.57- 354.86- 4.38	25.28	14875.05 245.55 1.56-	27.49	215668.22 2395.72 30.73-	2.21	2434.27 31.08
81.5	23180.96- 352.82- 4.35	24.67	14996.23 250.34 11.22	26.82	216862.19 2380.33 30.93-	2.16	2419.32 33.19
82.0	23357.39- 350.50- 1.94	25.79	15125.39 256.78 4.54	28.06	218048.55 2364.78 31.74-	2.27	2404.37 32.12
82.5	23531.46- 350.87- 14.15-	21.04	15253.01 254.88 3.83-	22.89	219226.97 2348.58 32.91-	1.86	2388.29 36.02
83.0	23708.26- 364.65- 9.82-	22.31	15380.28 252.95 6.47-	24.28	220397.14 2331.87 31.85-	1.97	2373.72 33.95
83.5	23896.11- 360.70- 16.14	26.28	15505.96 248.41 6.98-	28.57	221558.85 2316.73 31.07-	2.33	2357.76 35.70
84.0	24068.97- 348.50- 10.48	24.93	15628.69 245.97 1.07	27.09	222713.87 2300.80 33.11-	2.21	2340.01 34.74
84.5	24244.61- 350.22- 4.77-	24.12	15751.93 249.48 2.49	26.22	223859.65 2283.62 33.26-	2.15	2323.75 33.69
85.0	24419.20- 353.27- 2.87-	24.79	15878.18 248.46 1.36	26.94	224997.50 2267.53 31.95-	2.22	2308.30 32.11
85.5	24597.89- 353.10- 2.05-	25.11	16000.39 250.85 3.82	27.29	226127.18 2251.66 31.94-	2.26	2292.94 32.23
86.0	24772.29- 355.33- 7.82-	24.57	16129.03 252.28 1.70-	26.73	227249.16 2235.59 31.97-	2.21	2277.67 32.96
86.5	24953.22- 360.92- 1.90-	26.23	16252.67 249.14 .99	28.52	228362.78 2219.69 31.54-	2.37	2262.60 31.61
87.0	25133.22- 357.23- 1.36	26.11	16378.17 253.27 1.62	28.40	229468.85 2204.04 31.95-	2.37	2247.12 32.02
87.5	25310.46- 359.55- .92-	26.81	16505.95 250.76 1.11	29.16	230566.83 2187.73 31.80-	2.44	2231.22 31.83
88.0	25492.77- 358.16- 10.19	26.98	16628.94 254.38 7.00	29.35	231656.59 2172.24 31.23-	2.45	2216.22 33.59

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88.5	25668.63- 349.36- 1.74-	26.87	16760.34 257.76 1.92	29.22	232739.07 2156.50 33.35-	2.46	2199.77 33.45
89.0	25842.14- 359.91- 12.12-	25.90	16886.70 256.31 2.04-	28.18	233813.09 2138.89 33.71-	2.37	2184.05 35.88
89.5	26028.54- 361.49- 5.02	28.79	17016.65 255.72 2.97-	31.33	234877.97 2122.79 31.07-	2.65	2168.48 31.61
90.0	26203.63- 354.89- 2.07	27.97	17142.42 253.34 2.77	30.44	235935.88 2107.81 31.15-	2.58	2152.44 31.34
90.5	26383.43- 359.41- .51-	28.53	17269.99 258.49 7.96	31.04	236985.78 2091.63 31.88-	2.64	2137.97 32.86
91.0	26563.04- 355.40- 3.09-	29.53	17400.91 261.31 5.09-	32.10	238027.51 2075.93 32.85-	2.74	2122.29 33.39
91.5	26738.84- 362.51- 3.96	30.64	17531.31 253.39 10.76-	33.33	239061.72 2058.77 31.44-	2.85	2105.74 33.47
92.0	26925.55- 351.43- 16.34	31.80	17654.31 250.55 4.96-	34.59	240086.29 2044.49 28.77-	2.97	2089.55 33.46
92.5	27090.27- 346.17- 3.04-	30.15	17781.86 248.43 6.21	32.79	241106.21 2030.00 31.77-	2.83	2074.43 32.51
93.0	27271.72- 354.47- 6.16-	29.24	17902.74 256.76 13.58	31.81	242116.29 2012.72 32.97-	2.75	2059.76 38.33
93.5	27444.74- 352.33- 14.00-	29.98	18038.62 262.01 3.40-	32.63	243118.93 1997.03 32.95-	2.83	2044.73 35.96
94.0	27624.05- 368.47- 12.73-	30.36	18164.75 253.36 7.98-	33.02	244113.32 1979.77 33.85-	2.87	2029.64 37.03
94.5	27813.21- 365.06- 16.77	31.85	18291.98 254.03 1.05	34.64	245098.74 1963.18 31.74-	3.03	2012.93 35.92
95.0	27989.18- 351.69- 10.39	30.75	18418.71 254.41 1.60-	33.47	246076.53 1948.02 30.77-	2.93	1995.79 32.52
95.5	28164.91- 354.67- 6.07-	30.33	18546.40 252.43 5.42-	33.01	247046.76 1932.41 31.88-	2.90	1980.84 32.91
96.0	28343.85- 357.77- 3.46	31.54	18671.14 248.99 2.26	34.30	248008.94 1916.13 31.95-	3.03	1965.08 32.22
96.5	28522.68- 351.20- 6.56	30.33	18795.39 254.69 9.27	33.00	248962.90 1900.45 31.44-	2.92	1949.34 33.43
97.0	28695.06- 351.20- 6.54-	30.92	18925.84 258.26 2.80	33.64	249909.40 1884.69 31.91-	2.99	1934.45 32.70
97.5	28873.89- 357.75- 1.80-	32.24	19053.66 257.50 2.77-	35.05	250847.59 1868.54 31.46-	3.13	1919.82 31.63
98.0	29052.81- 353.01- 7.78	32.82	19183.34 255.49 7.70-	35.73	251777.94 1853.22 30.45-	3.19	1903.76 32.35
98.5	29226.90- 349.96- 2.65	31.60	19309.15 249.80 7.26-	34.39	252700.81 1838.09 30.87-	3.09	1887.71 31.82
99.0	29402.78- 350.35- 1.34-	32.07	19433.15 248.22 3.25	34.91	253616.03 1822.35 32.00-	3.14	1872.25 32.19

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99.5	29577.26- 351.31- 8.86-	31.03	19557.37 253.05 12.43	33.78	254523.17 1806.09 33.20-	3.05	1857.26 36.55
100.0	29754.09- 359.22- 22.90-	32.46	19686.20 260.65 19.22	35.33	255422.12 1789.14 35.88-	3.21	1843.37 46.70
100.5	29936.48- 374.22- 11.39-	32.27	19818.02 272.28 9.47	35.11	256312.31 1770.20 34.73-	3.19	1829.70 37.76
101.0	30128.31- 370.62- 13.88	33.57	19958.48 270.13 16.20-	36.52	257192.33 1754.41 29.06-	3.34	1813.36 36.05
101.5	30307.10- 360.33- 13.91	34.93	20088.16 256.07 17.40-	38.01	258066.73 1741.14 28.83-	3.48	1796.38 36.43
102.0	30488.65- 356.70- 9.33	34.07	20214.56 252.73 1.78-	37.07	258933.47 1725.58 31.39-	3.42	1780.09 32.80
102.5	30663.80- 351.00- 1.10	34.16	20340.89 254.28 1.35-	37.17	259792.31 1709.74 31.78-	3.43	1763.82 31.83
103.0	30839.65- 355.59- 3.57-	35.09	20468.85 251.38 1.98-	38.17	260643.21 1693.79 31.69-	3.54	1748.88 31.95
103.5	31019.40- 354.57- .58-	35.54	20592.27 252.30 1.10	38.65	261486.11 1678.05 31.31-	3.60	1733.56 31.33
104.0	31194.23- 356.18- 2.65	34.35	20721.15 252.48 6.13	37.38	262321.27 1662.48 31.03-	3.49	1718.85 31.74
114.5	31375.58- 351.92- 8.43	35.05	20844.76 258.43 5.58	38.13	263148.59 1647.02 31.19-	3.58	1703.91 32.79
105.0	31546.15- 347.75- 6.44-	33.92	20979.58 258.06 2.71-	36.92	263968.29 1631.28 32.26-	3.47	1687.78 33.01
105.5	31723.33- 358.36- 10.61-	35.45	21102.82 255.71 1.44	38.56	264779.87 1614.75 32.29-	3.64	1673.69 34.02
106.0	31904.51- 358.35- .70	34.92	21235.30 259.50 6.03-	37.99	265583.04 1598.99 30.84-	3.60	1659.07 31.43
106.5	32081.69- 357.66- 4.87-	35.01	21362.32 249.68 14.81-	38.11	266378.87 1583.91 26.70-	3.62	1642.87 30.92
107.0	32262.17- 363.23- 5.65-	35.22	21484.99 244.70 1.00	38.34	267166.95 1572.28 28.45-	3.66	1632.14 29.02
107.5	32444.93- 363.31- 5.18	35.05	21607.02 250.69 13.48	38.15	267951.15 1555.46 37.74-	3.66	1616.88 40.41
108.0	32625.48- 358.05- 19.59	36.12	21735.68 258.18 11.18	39.31	268722.42 1534.54 35.43-	3.78	1596.77 42.00
108.5	32802.98- 343.72- 11.27	36.38	21865.21 261.87 3.45-	39.56	269485.69 1520.03 30.50-	3.82	1580.26 32.70
109.0	32969.20- 346.77- 11.12-	34.11	21997.55 254.73 8.06-	37.12	270242.45 1504.03 32.85-	3.60	1564.37 35.61
109.5	33149.75- 354.84- 6.03-	37.24	22119.94 253.81 4.10	40.51	270989.72 1487.18 32.50-	3.94	1549.85 33.31
110.0	33324.05- 352.81- 2.24	36.94	22251.36 258.83 3.64	40.20	271729.63 1471.52 30.90-	3.92	1535.20 31.19

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110.5	33502.56- 352.60- 1.85-	37.79	22378.78 257.45 8.19-	41.11	272461.25 1456.27 30.65-	4.02	1520.31 31.78
111.0	33676.65- 354.66- 1.94	36.69	22508.82 250.64 .94-	39.95	273185.90 1440.87 30.94-	3.92	1504.89 31.02
111.5	33857.23- 350.65- 9.75	37.54	22629.42 256.51 7.19	40.85	273902.12 1425.32 31.17-	4.03	1490.07 33.44
112.0	34027.31- 344.90- 1.82-	36.08	22765.34 257.83 3.20-	39.28	274611.23 1409.69 32.17-	3.89	1474.00 32.38
112.5	34202.14- 352.48- 11.33-	36.93	22887.25 253.31 4.13	40.20	275311.82 1393.15 32.58-	3.99	1459.21 34.74
113.0	34379.78- 356.24- 1.84-	37.63	23018.65 261.96 3.89	40.94	276004.39 1377.11 31.45-	4.08	1446.36 31.74
113.5	34558.38- 354.31- 3.15	37.51	23149.22 257.20 6.83-	40.82	276688.93 1361.70 31.01-	4.09	1430.35 31.90
114.0	34734.10- 353.09- 3.18-	38.20	23275.86 255.13 5.10-	41.57	277366.09 1346.10 31.53-	4.18	1414.83 32.10
114.5	34911.48- 357.50- 25.86-	39.17	23404.36 252.10 12.72-	42.62	278035.04 1330.16 30.60-	4.30	1400.25 42.04
115.0	35091.61- 378.95- 44.17-	38.60	23527.96 242.40 2.72	41.99	278696.25 1315.49 31.90-	4.25	1390.28 54.55
115.5	35290.43- 401.67- 33.79	38.84	23646.76 254.83 6.72-	42.29	279350.54 1298.26 30.03-	4.29	1382.66 45.70
116.0	35493.28- 345.16- 122.98	38.93	23782.79 235.68 46.21-	42.39	279994.51 1285.46 22.91-	4.32	1351.70 133.36
116.5	35635.59- 278.68- 29.70	39.09	23882.45 208.61 3.38-	42.52	280636.00 1275.35 30.40-	4.36	1322.00 42.64
117.0	35771.97- 315.46- 70.04-	34.71	23991.40 232.29 38.60	37.78	281269.86 1255.05 40.31-	3.87	1314.77 89.56
117.5	35951.05- 348.73- 35.41-	35.03	24114.74 247.21 27.00	38.10	281891.05 1235.03 35.99-	3.93	1306.92 57.25
118.0	36120.70- 350.87- 4.14-	35.60	24238.61 259.30 10.22	38.74	282504.90 1219.06 32.70-	4.00	1294.78 34.51
118.5	36301.92- 352.88- 5.27	35.96	24374.05 257.44 10.03-	39.13	283110.12 1202.32 32.06-	4.06	1279.21 34.00
119.0	36473.58- 345.60- 5.03	39.50	24496.05 249.27 1.91-	42.99	283707.23 1187.00 30.55-	4.48	1261.17 31.01
119.5	36647.52- 347.84- 2.35-	37.11	24623.32 255.53 7.72	40.41	284297.12 1171.78 30.77-	4.22	1248.74 31.81
120.0	36821.43- 347.95- 3.43-	34.82	24751.59 257.00 3.31	37.93	284879.01 1156.23 31.31-	3.98	1234.49 31.67
120.5	36995.48- 351.28- 1.89-	36.63	24880.32 258.84 .30-	39.86	285453.35 1140.46 31.51-	4.20	1221.09 31.56
121.0	37172.71- 349.85- 1.58-	35.74	25010.43 256.69 5.23-	38.91	286019.48 1124.72 31.66-	4.11	1205.52 32.13

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121.5	37345.33- 352.86- 5.31-	36.04	25137.02 253.61 3.51-	39.24	286578.07 1108.80 31.16-	4.16	1190.91 31.80
122.0	37525.58- 355.16- 2.93	37.08	25264.05 253.18 3.36	40.37	287128.27 1093.55 30.58-	4.30	1177.33 30.90
122.5	37700.49- 349.93- 9.87	38.71	25390.21 256.97 .80-	42.16	287671.63 1078.21 30.76-	4.50	1162.34 32.31
123.0	37875.51- 345.28- 15.93	38.51	25521.02 252.38 1.63-	41.90	288206.49 1062.79 29.41-	4.50	1145.62 33.48
123.5	38045.78- 334.00- 8.82	38.28	25642.59 255.34 5.21-	41.66	288734.42 1048.80 29.89-	4.48	1129.93 31.60
124.0	38209.51- 336.46-	37.64	25776.37 247.17	40.98	289255.29 1032.89	4.42	1114.08
124.5	38382.24-	38.85	25889.77	42.30	289767.32	4.59	

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TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	2.94-	.27	17.41-	.24	320.29	.92	
1.5	11.60- 30.74-	.22	40.26- 53.37-	.40	570.64 597.84	.90	601.00
2.0	33.68- 56.61- 37.91-	1.15	70.79- 64.28- 13.38-	1.05	918.14 802.39 361.38	1.58	806.95 363.61
2.5	68.21- 68.65- 21.94-	1.50	104.55- 66.76- 1.07	1.55	1373.04 959.22 228.35	1.88	963.99 229.40
3.0	102.34- 78.55- 19.71-	1.85	137.55- 63.20- .44-	1.98	1877.36 1030.75 107.30	2.25	1035.66 109.10
3.5	146.76- 88.37- 13.03-	.80	167.76- 67.20- 12.60-	.90	2403.79 1066.53 62.97	1.00	1072.29 65.53
4.0	190.71- 91.58- 8.77-	.74	204.75- 75.81- 10.69-	.82	2943.89 1093.72 52.33	.83	1100.17 54.13
4.5	238.35- 97.14- 8.66-	.12	243.57- 77.90- 4.17-	.11	3497.52 1118.86 47.66	.16	1125.77 48.61
5.0	287.86- 100.25- 6.38-	.61	282.65- 79.99- 4.86-	.61	4062.75 1141.38 44.68	.55	1148.57 45.39
5.5	338.60- 103.53- 7.44-	.84	323.56- 82.76- 4.74-	.85	4638.90 1163.54 44.38	.77	1171.07 45.25
6.0	391.39- 107.69- 7.44-	1.31	365.42- 84.74- 4.18-	1.35	5226.30 1185.77 44.19	1.18	1193.66 45.00
6.5	446.30- 110.98- 7.54-	1.42	408.30- 86.95- 4.84-	1.48	5824.67 1207.73 44.80	1.22	1215.93 45.69
7.0	502.37- 115.23- 9.30-	1.04	452.37- 89.58- 5.19-	1.08	6434.03 1230.57 46.22	.89	1239.20 47.43
7.5	561.53- 120.28- 8.74-	1.25	497.89- 92.14- 4.71-	1.33	7055.25 1253.95 46.71	1.07	1263.07 47.75
8.0	622.66- 123.97- 7.98-	1.16	544.51- 94.30- 4.64-	1.21	7687.99 1277.28 47.89	.95	1286.74 48.77
8.5	685.51- 128.27- 8.70-	1.05	592.19- 96.79- 4.84-	1.08	8332.53 1301.84 49.88	.88	1311.72 50.86
9.0	750.93- 132.68- 10.23-	.86	641.31- 99.14- 5.96-	.88	8989.84 1327.17 51.14	.66	1337.46 52.49
9.5	818.19- 138.50- 11.20-	.11	691.34- 102.75- 6.89-	.11	9659.71 1352.98 52.94	.04	1363.93 54.55
10.0	889.43- 143.89- 9.57-	.10	744.06- 106.04- 5.50-	.08	10342.83 1380.11 54.94	.02	1391.64 56.04
10.5	962.08- 148.08- 10.90-	.11	797.38- 108.25- 5.05-	.12	11039.82 1407.93 55.86	.11	1419.83 57.14
11.0	1037.52- 154.79- 12.23-	.44	852.32- 111.09- 5.76-	.47	11750.76 1435.98 56.74	.39	1448.56 58.33

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11.5	1116.87- 160.32- 11.82-	.38	908.47- 114.01- 8.12-	.40	12475.81 1464.68 57.43	.32	1477.83 59.20
12.0	1197.84- 166.61- 13.91-	.46	966.33- 119.22- 9.93-	.51	13215.45 1493.42 58.39	.36	1507.40 60.84
12.5	1283.49- 174.23- 12.61-	1.89	1027.70- 123.95- 6.66-	2.03	13969.23 1523.08 61.11	1.39	1538.01 62.75
13.0	1372.08- 179.22- 9.47-	2.30	1090.29- 125.88- 4.62-	2.48	14738.52 1554.53 63.57	1.63	1569.88 64.43
13.5	1462.72- 183.71- 9.04-	2.26	1153.58- 128.57- 6.63-	2.42	15523.76 1586.65 64.75	1.57	1602.41 65.71
14.0	1555.79- 188.26- 9.57-	1.97	1218.86- 132.52- 7.01-	2.13	16325.17 1619.28 65.67	1.34	1635.56 66.73
14.5	1650.98- 193.28- 10.65-	1.60	1286.10- 135.59- 7.27-	1.71	17143.05 1652.32 66.96	1.08	1669.10 68.19
15.0	1749.07- 198.91- 9.57-	.92	1354.45- 139.79- 9.26-	1.01	17977.49 1686.24 69.14	.63	1703.68 70.41
15.5	1849.90- 202.86- 7.20-	.09	1425.89- 144.85- 8.32-	.09	18829.29 1721.46 70.44	.02	1739.41 71.29
16.0	1951.93- 206.12- 9.43-	.36	1499.30- 148.11- 4.57-	.36	19698.95 1756.69 71.41	.18	1774.93 72.18
16.5	2056.02- 212.30- 11.80-	.61	1574.00- 149.42- 3.49-	.62	20585.99 1792.87 73.30	.35	1811.57 74.32
17.0	2164.23- 217.92- 8.56-	.94	1648.73- 151.60- 6.57-	.98	21491.83 1829.99 74.63	.52	1849.14 75.41
17.5	2273.94- 220.86- 6.53-	.76	1725.60- 155.99- 7.75-	.82	22415.98 1867.51 76.21	.42	1886.98 76.88
18.0	2385.10- 224.45- 10.36-	.32	1804.73- 159.35- 4.71-	.36	23359.35 1906.20 78.26	.15	1925.97 79.08
18.5	2498.40- 231.23- 14.34-	.56	1884.96- 160.71- 2.41-	.61	24322.18 1945.77 80.58	.34	1966.04 81.88
19.0	2616.33- 238.80- 13.22-	.63	1965.44- 161.76- 2.81-	.70	25305.12 1986.79 83.67	.35	2007.61 84.76
19.5	2737.20- 244.45- 13.01-	.45	2046.72- 163.52- 3.85-	.50	26308.97 2029.45 86.54	.26	2050.65 87.59
20.0	2860.79- 251.81- 16.10-	.88	2128.97- 165.61- 4.46-	.94	27334.58 2073.33 88.93	.46	2095.12 90.48
20.5	2989.02- 260.56- 16.93-	.67	2212.34- 167.99- 5.44-	.74	28382.30 2118.38 91.59	.34	2140.95 93.30
21.0	3121.35- 268.74- 17.00-	.50	2296.96- 171.06- 6.85-	.54	29452.96 2164.92 95.13	.28	2188.24 96.88
21.5	3257.76- 277.56- 17.36-	.50	2383.41- 174.85- 5.10-	.54	30547.23 2213.51 98.46	.26	2237.69 100.11
22.0	3398.92- 286.10- 15.42-	1.43	2471.81- 176.17- 1.22-	1.52	31666.48 2263.39 101.12	.64	2288.19 102.30

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22.5	3543.87- 292.99- 14.67-	1.60	2559.58- 176.07- 1.51-	1.72	32810.62 2314.64 104.87	.70	2339.75 105.90
23.0	3691.91- 300.78- 17.71-	1.63	2647.89- 177.68- 4.38-	1.77	33981.13 2368.26 109.39	.70	2393.89 110.90
23.5	3844.65- 310.70- 20.02-	1.55	2737.26- 180.45- 6.18-	1.67	35178.89 2424.04 113.58	.65	2450.53 115.49
24.0	4002.62- 320.81- 20.20-	1.07	2828.35- 183.86- 5.75-	1.16	36405.17 2481.84 117.75	.43	2509.23 119.61
24.5	4165.46- 330.91- 22.43-	1.70	2921.12- 186.21- 4.81-	1.82	37660.73 2541.80 121.22	.69	2570.00 123.37
25.0	4333.53- 343.24- 27.84-	1.61	3014.56- 188.67- 5.39-	1.73	38946.97 2603.06 122.80	.63	2632.37 126.03
25.5	4508.71- 358.75- 33.17-	1.69	3109.79- 191.61- 5.69-	1.82	40263.80 2664.60 124.40	.65	2695.46 128.87
26.0	4692.29- 376.41- 37.32-	1.49	3206.17- 194.37- 3.07-	1.61	41611.57 2727.47 127.81	.55	2760.17 133.18
26.5	4885.13- 396.07- 41.13-	1.22	3304.16- 194.68- 1.02-	1.32	42991.27 2792.41 132.34	.44	2827.07 138.59
27.0	5088.36- 417.55- 44.84-	1.57	3400.85- 195.39- 3.23-	1.71	44403.98 2859.81 137.35	.56	2896.73 144.52
27.5	5302.68- 440.92- 48.03-	1.00	3499.56- 197.91- 4.39-	1.09	45851.09 2929.76 142.51	.35	2969.36 150.45
28.0	5529.29- 465.58- 51.69-	1.13	3598.76- 199.78- 4.96-	1.23	47333.75 3002.33 147.36	.38	3044.78 156.25
28.5	5768.27- 492.61- 55.48-	.69	3699.34- 202.88- 7.36-	.74	48853.42 3077.13 152.21	.22	3122.91 162.17
29.0	6021.90- 521.06- 57.35-	1.13	3801.64- 207.14- 12.16-	1.24	50410.89 3154.54 158.07	.36	3203.99 168.59
29.5	6289.33- 549.96- 55.32-	1.57	3906.49- 215.04- 16.98-	1.72	52007.97 3235.20 164.19	.48	3288.65 174.09
30.0	6571.87- 576.39- 53.40-	1.96	4016.68- 224.12- 17.31-	2.16	53646.09 3318.73 170.04	.59	3375.86 179.07
30.5	6865.73- 603.37- 54.33-	2.30	4130.62- 232.35- 18.03-	2.49	55326.70 3405.24 175.34	.70	3466.08 184.45
31.0	7175.24- 630.72- 54.43-	2.96	4249.04- 242.16- 20.87-	3.22	57051.34 3494.08 179.98	.88	3558.80 189.19
31.5	7496.45- 657.81- 59.09-	3.24	4372.79- 253.23- 20.13-	3.53	58820.79 3585.23 186.48	.93	3653.86 196.65
32.0	7833.05- 689.81- 61.65-	3.07	4502.27- 262.30- 15.43-	3.36	60636.58 3680.57 194.32	.87	3753.83 204.45
32.5	8186.27- 719.46- 58.99-	2.08	4635.09- 268.66- 12.33-	2.25	62501.36 3779.56 201.29	.57	3856.79 210.12
33.0	8552.51- 748.81- 55.96-	2.71	4770.93- 274.63- 13.50-	2.95	64416.14 3881.86 189.75	.73	3962.96 198.30

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33.5	8935.08- 775.42- 36.39-	2.19	4909.73- 282.16- 10.57-	2.40	66383.23 3969.32 111.69	.58	4054.18 117.95
34.0	9327.94- 785.20- 10.62-	2.49	5053.09- 285.21- 3.17-	2.71	68385.46 3993.56 3.52-	.64	4080.00 11.63
34.5	9720.29- 786.05- .22	2.68	5194.94- 285.33- 3.30	2.93	70376.80 3965.79 61.28-	.68	4053.00 61.37
35.0	10113.99- 784.98- 4.84	3.23	5338.43- 281.91- 9.79	3.51	72351.26 3932.28 66.54-	.80	4019.76 67.43
35.5	10505.27- 781.20- 4.12	3.51	5476.85- 275.54- 5.20	3.84	74309.07 3899.24 65.75-	.86	3986.26 66.08
36.0	10895.20- 780.85- 1.19-	2.38	5613.97- 276.70- 2.05-	2.60	76250.50 3866.52 64.88-	.57	3954.27 64.92
36.5	11286.13- 782.39- 2.00-	2.72	5753.56- 277.60- 2.22	2.98	78175.60 3834.35 62.56-	.64	3923.20 62.63
37.0	11677.59- 782.86- 3.39	2.47	5891.57- 274.48- 6.46	2.72	80084.86 3803.96 58.70-	.58	3893.37 59.15
37.5	12068.99- 779.00- 6.65	2.75	6028.04- 271.13- 4.24	3.03	81979.56 3775.65 58.79-	.63	3864.70 59.32
38.0	12456.60- 776.20- .32	3.72	6162.71- 270.23- 1.71	4.09	83860.51 3745.16 57.79-	.85	3834.29 57.81
38.5	12845.19- 778.68- 1.35-	2.87	6298.27- 269.41- 2.83	3.13	85724.73 3717.86 50.57-	.65	3808.07 50.67
39.0	13235.28- 777.56- 5.45	2.41	6432.13- 267.39- 4.07	2.62	87578.37 3694.59 47.96-	.54	3784.98 48.44
39.5	13622.76- 773.22- 4.18	3.23	6565.67- 265.34- 1.05	3.54	89419.33 3669.89 49.26-	.72	3759.84 49.44
40.0	14008.51- 773.38- 2.10	2.55	6697.47- 266.34- .96-	2.79	91248.27 3645.33 48.29-	.56	3735.97 48.34
40.5	14396.14- 771.12- 6.99	2.06	6832.01- 266.30- 4.87	2.29	93064.66 3621.60 45.89-	.45	3712.35 46.68
41.0	14779.63- 766.38- 3.64	2.77	6963.78- 261.46- 5.71	3.02	94869.87 3599.43 45.18-	.59	3689.39 45.69
41.5	15162.53- 767.47- 1.71-	3.17	7093.48- 260.59- .64	3.51	96664.10 3576.41 45.61-	.69	3667.10 45.64
42.0	15547.11- 768.09- .14	2.50	7224.36- 260.82- .88	2.75	98446.28 3553.82 43.45-	.53	3645.22 43.46
42.5	15930.63- 767.32- 1.81	2.45	7354.30- 259.70- 1.93	2.69	100217.92 3532.96 41.67-	.52	3624.64 41.76
43.0	16314.43- 766.28- 3.18	2.37	7484.07- 258.88- 2.79	2.59	101979.24 3512.14 41.16-	.50	3604.07 41.38
43.5	16696.91- 764.14- 1.74	2.28	7613.19- 256.91- 2.32	2.53	103730.06 3491.79 40.19-	.48	3583.64 40.29
44.0	17078.58- 764.54- .10-	1.75	7740.99- 256.56- 2.90-	1.93	105471.03 3471.95 41.52-	.37	3564.38 41.62

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44.5	17461.46- 764.24- 4.02	2.65	7869.75- 259.81- .20	2.91	107202.02 3450.26 41.37-	.55	3543.43 41.56
45.0	17842.83- 760.51- 3.63	2.46	8000.80- 256.35- 5.57	2.71	108921.30 3430.58 38.19-	.51	3523.20 38.77
45.5	18221.98- 760.61- .78-	2.64	8126.10- 254.24- .11	2.89	110632.60 3412.07 38.20-	.55	3505.05 38.21
46.0	18603.45- 761.29- 1.44	1.99	8255.05- 256.24- .15	2.21	112333.37 3392.37 37.90-	.41	3486.18 37.93
46.5	18983.28- 759.17- 2.27-	3.46	8382.35- 254.08- 2.09	3.77	114024.97 3374.16 36.73-	.72	3467.84 36.86
47.0	19362.62- 763.57- 2.42-	3.66	8509.13- 254.14- .49	4.04	115707.54 3355.64 37.03-	.76	3450.79 37.11
47.5	19746.86- 761.59- 4.67	1.56	8636.49- 253.59- 1.25	1.71	117380.61 3337.13 37.41-	.32	3432.31 37.72
48.0	20124.22- 758.90- 2.75	2.42	8762.73- 252.89- 1.83	2.67	119044.67 3318.22 37.17-	.50	3413.28 37.32
48.5	20505.76- 758.84- 1.56	1.37	8889.39- 251.76- 2.73	1.49	120698.84 3299.95 35.85-	.28	3395.42 35.99
49.0	20883.06- 757.34- 1.60-	2.81	9014.50- 250.15- .08-	3.08	122344.62 3282.37 36.09-	.58	3377.88 36.13
49.5	21263.10- 760.44- .29-	1.56	9139.54- 251.84- 3.77-	1.73	123981.21 3263.85 36.40-	.32	3360.72 36.60
50.0	21643.51- 757.63- 4.78	1.42	9266.34- 253.93- 1.30-	1.56	125608.48 3245.96 35.47-	.28	3342.86 35.82
50.5	22020.74- 755.66- .02	1.96	9393.47- 253.14- .14-	2.18	127227.17 3228.38 36.32-	.40	3325.29 36.32
51.0	22399.17- 757.60- 1.25-	1.33	9519.49- 254.07- 1.83-	1.45	128836.86 3209.64 36.62-	.26	3307.61 36.69
51.5	22778.34- 756.91- 2.04	1.70	9647.55- 254.97- 1.39	1.87	130436.82 3191.75 34.58-	.35	3290.17 34.66
52.0	23156.08- 755.56- 4.86	1.51	9774.46- 252.69- 6.10	1.65	132028.61 3175.06 32.83-	.30	3273.48 33.75
52.5	23533.90- 752.05- 1.30-	1.05	9900.24- 248.87- 1.79	1.15	133611.88 3158.91 34.00-	.20	3256.72 34.07
53.0	23908.13- 756.86- 5.58-	2.59	10023.33- 250.90- 1.22-	2.85	135187.53 3141.05 34.79-	.53	3240.68 35.25
53.5	24290.76- 757.63- 3.81	1.12	10151.14- 250.09- 3.09	1.22	136752.93 3124.12 32.11-	.21	3224.38 32.48
54.0	24665.77- 753.04- 1.48	1.74	10273.43- 247.80- 1.38	1.92	138311.65 3108.94 34.00-	.36	3208.42 34.06
54.5	25043.81- 756.14- 2.67-	.36	10398.95- 248.70- .86-	.38	139861.88 3090.11 37.11-	.08	3190.99 37.21
55.0	25421.91- 755.71- 3.22	.01	10522.13- 248.66- .73	.04	141401.76 3071.82 33.84-	.01	3173.17 34.00

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55.5	25799.52- 752.92- 1.75	.35	10647.61- 247.97- 2.28	.37	142933.70 3056.27 31.91-	.08	3157.39 32.04
56.0	26174.83- 753.96- 4.00-	.41	10770.11- 246.38- 1.62-	.47	144458.03 3039.91 33.79-	.08	3141.69 34.07
56.5	26553.48- 756.92- 2.80-	.04	10894.00- 249.60- 5.65-	.04	145973.62 3022.47 34.41-	.01	3125.79 34.98
57.0	26931.75- 756.76- 1.85	1.55	11019.71- 252.04- .83	1.70	147480.51 3005.50 32.77-	.32	3109.54 32.83
57.5	27310.24- 755.06- 6.09	.62	11146.04- 248.76- 4.84	.70	148979.12 2989.70 32.21-	.12	3093.59 33.14
58.0	27686.82- 750.66- 12.79	1.59	11268.48- 247.19- 3.97	1.74	150470.21 2973.28 31.89-	.32	3076.53 34.59
58.5	28060.91- 742.27- 6.78	1.92	11393.23- 244.79- 3.28	2.11	151952.40 2957.80 31.86-	.39	3059.32 32.73
59.0	28429.09- 743.88- 7.91-	2.37	11513.28- 243.90- 1.38-	2.60	153428.01 2941.42 34.08-	.49	3043.82 35.02
59.5	28804.79- 750.18- 6.93-	2.81	11637.14- 246.17- .35-	3.07	154893.83 2923.71 34.16-	.58	3028.44 34.86
60.0	29179.28- 750.81- 3.53-	3.57	11759.45- 244.26- .70-	3.92	156351.72 2907.26 33.42-	.74	3012.56 33.61
60.5	29555.61- 753.72- 1.05-	3.43	11881.40- 246.87- 1.22	3.76	157801.09 2890.29 32.12-	.71	2997.13 32.16
61.0	29933.00- 751.86- 2.47	2.44	12006.33- 243.04- 5.11	2.70	159242.01 2875.13 31.73-	.51	2981.74 32.23
61.5	30307.48- 751.25- 1.51-	1.36	12124.44- 241.76- 1.89-	1.50	160676.23 2858.55 34.15-	.27	2965.49 34.24
62.0	30684.25- 753.37- 3.49-	.72	12248.09- 244.93- 3.15-	.79	162100.57 2840.97 33.93-	.14	2949.36 34.26
62.5	31060.86- 754.74- 2.49	1.26	12369.38- 244.91- .83-	1.40	163517.20 2824.62 32.73-	.26	2933.95 32.83
63.0	31438.99- 750.88- 4.31	.54	12493.00- 245.77- .45	.58	164925.19 2808.24 32.71-	.10	2917.27 33.00
63.5	31811.74- 750.43- 1.47	1.81	12615.15- 244.45- 2.79	1.99	166325.45 2791.90 32.07-	.38	2901.31 32.22
64.0	32189.42- 749.41- .81-	1.58	12737.46- 242.97- .66-	1.74	167717.09 2776.17 32.18-	.33	2885.79 32.20
64.5	32561.16- 751.24- 3.86-	2.25	12858.12- 245.12- 2.84-	2.47	169101.63 2759.71 32.97-	.47	2870.62 33.31
65.0	32940.66- 753.28- 2.53	1.20	12982.59- 245.82- 1.92	1.33	170476.81 2743.20 32.36-	.25	2855.34 32.52
65.5	33314.44- 748.70- 2.16	1.73	13103.94- 243.20- 1.66	1.90	171844.83 2727.35 32.71-	.37	2838.68 32.82
66.0	33689.37- 751.11- .19	1.84	13225.79- 244.16- .82-	2.04	173204.16 2710.49 32.57-	.39	2823.21 32.58

SM 1.03

66.5	34065.55- 748.50- 3.59	1.67	13348.10- 244.02- 1.24	1.83	174555.32 2694.77 31.19-	.35	2807.42 31.42
67.0	34437.88- 747.52- 2.59-	2.70	13469.81- 242.91- 2.22-	2.95	175898.94 2679.29 32.14-	.57	2792.21 32.32
67.5	34813.07- 751.10- 2.98-	1.66	13591.02- 246.24- 3.39-	1.82	177234.62 2662.63 32.83-	.35	2777.48 33.13
68.0	35188.99- 750.50- .52-	1.71	13716.06- 246.31- 5.00	1.91	178561.57 2646.46 31.71-	.36	2761.83 32.10
68.5	35563.57- 751.63- 3.53-	1.91	13837.34- 241.24- 5.43	2.08	179881.09 2630.92 31.93-	.41	2746.79 32.58
69.0	35940.62- 754.03- 2.29	2.12	13957.30- 240.87- .18-	2.32	181192.49 2614.53 32.79-	.46	2731.73 32.86
69.5	36317.61- 749.33- 11.84	.90	14078.21- 241.43- 1.70-	.99	182495.62 2598.13 32.06-	.19	2714.79 34.22
70.0	36689.95- 742.18- 3.94	1.76	14198.73- 242.58- 2.14-	1.93	183790.63 2582.47 32.42-	.38	2697.93 32.72
70.5	37059.80- 745.39- 5.35-	2.15	14320.80- 243.57- .18-	2.38	185078.09 2565.71 33.09-	.46	2682.87 33.52
71.0	37435.34- 747.54- 5.73-	3.33	14442.30- 242.76- 2.26	3.65	186356.34 2549.37 32.26-	.72	2667.78 32.84
71.5	37807.34- 751.12- 1.63-	2.78	14563.56- 241.30- 1.59	3.07	187627.47 2533.44 31.51-	.60	2653.44 31.59
72.0	38186.47- 749.17- 1.73	2.88	14683.61- 241.16- .90	3.17	188889.79 2517.86 31.15-	.63	2638.00 31.21
72.5	38556.52- 749.39- 2.55-	4.26	14804.73- 240.40- 1.88	4.68	190145.33 2502.29 31.56-	.94	2623.14 31.72
73.0	38935.86- 751.73- .01	2.76	14924.01- 239.28- .30-	3.04	191392.09 2486.30 32.61-	.61	2608.45 32.61
73.5	39308.25- 749.38- 2.60	1.25	15044.01- 240.70- 1.74-	1.38	192631.64 2469.68 33.49-	.27	2592.07 33.64
74.0	39685.24- 749.13- 2.49	1.21	15164.72- 241.02- .19	1.37	193861.77 2452.80 32.69-	.27	2575.95 32.79
74.5	40057.38- 746.89- .20-	2.58	15285.04- 240.51- 1.47	2.81	195084.44 2436.98 32.17-	.57	2560.19 32.20
75.0	40432.13- 749.33- .19	3.15	15405.24- 239.54- 2.23	3.45	196298.76 2420.63 31.92-	.69	2545.25 31.99
75.5	40806.71- 746.70- 4.56	3.55	15524.59- 238.27- .90	3.92	197505.07 2405.06 31.04-	.79	2529.56 31.39
76.0	41178.84- 744.77- .94-	3.90	15643.51- 238.63- 3.54-	4.30	198703.82 2389.58 31.80-	.88	2514.30 32.01
76.5	41551.48- 747.64- 6.24-	3.56	15763.22- 241.82- 3.99-	3.91	199894.65 2373.26 32.79-	.80	2499.96 33.61
77.0	41926.48- 751.01- 1.20-	4.38	15885.34- 242.63- 3.27	4.81	201077.08 2356.79 31.39-	.98	2485.43 31.58

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77.5	42302.50- 748.84- 3.29	2.65	16005.86- 238.55- 6.97	2.92	202251.44 2341.86 30.89-	.60	2470.22 31.84
78.0	42675.32- 747.72- 1.67-	3.82	16123.89- 235.66- .10-	4.19	203418.95 2325.89 33.70-	.86	2454.47 33.74
78.5	43050.22- 750.51- 3.98-	2.59	16241.52- 238.65- 5.45-	2.86	204577.34 2308.16 34.14-	.59	2438.82 34.80
79.0	43425.83- 751.70- .54-	1.58	16362.55- 241.11- 1.16	1.72	205727.11 2291.75 31.58-	.35	2423.90 31.61
79.5	43801.93- 751.05- 4.76	1.56	16482.64- 237.49- 7.04	1.74	206869.09 2276.57 30.02-	.36	2409.00 31.19
80.0	44176.89- 746.94- 7.86	.71	16600.04- 234.07- .74-	.76	208003.69 2261.72 30.90-	.15	2393.35 31.90
80.5	44548.88- 743.18- 2.91	1.77	16716.71- 238.23- 7.51-	1.94	209130.82 2245.66 32.42-	.40	2377.41 33.41
81.0	44920.07- 744.03- .64-	3.82	16838.28- 241.59- .33	4.20	210249.35 2229.30 31.33-	.88	2362.57 31.33
81.5	45292.91- 743.83- .62-	3.74	16958.30- 237.90- .30	4.11	211360.12 2214.33 31.40-	.86	2348.01 31.41
82.0	45663.91- 744.65- 2.52-	3.83	17076.18- 241.28- 2.69-	4.18	212463.69 2197.89 33.03-	.88	2333.12 33.23
82.5	46037.57- 746.35- 3.93-	4.27	17199.59- 240.60- 6.31	4.69	213558.02 2181.30 32.73-	.99	2317.97 33.56
83.0	46410.26- 748.59- 4.51-	4.47	17316.79- 234.97- 5.68	4.90	214644.99 2165.16 32.93-	1.04	2302.94 33.72
83.5	46786.16- 750.87- .50	2.99	17434.56- 234.91- .98	3.28	215723.18 2148.36 32.51-	.70	2287.89 32.52
84.0	47161.13- 748.08- 4.47	2.25	17551.70- 233.99- 1.63-	2.47	216793.36 2132.65 31.58-	.53	2272.13 31.93
84.5	47534.24- 746.40- 1.63	1.40	17668.55- 236.54- .87-	1.53	217855.83 2116.77 31.44-	.32	2256.95 31.49
85.0	47907.53- 746.45- 2.39	2.63	17788.25- 234.86- 1.76	2.89	218910.14 2101.20 31.42-	.61	2242.19 31.55
85.5	48280.70- 744.01- 4.35	2.09	17903.42- 234.78- 1.73-	2.29	219957.04 2085.36 31.57-	.48	2226.52 31.91
86.0	48651.54- 742.09- 1.63	3.40	18023.03- 236.59- .81-	3.74	220995.50 2069.63 31.08-	.81	2211.35 31.13
86.5	49022.79- 742.37- 2.31-	3.63	18140.01- 235.60- 1.61-	3.97	222026.67 2054.28 31.87-	.86	2196.97 32.00
87.0	49393.92- 744.40- 3.56-	4.22	18258.63- 238.21- .81-	4.63	223049.78 2037.75 32.99-	.99	2182.50 33.19
87.5	49767.20- 745.93- 4.18-	4.59	18378.22- 236.41- .86	5.02	224064.43 2021.28 33.63-	1.09	2167.46 33.90
88.0	50139.86- 748.59- .06	4.23	18495.05- 237.35- 2.26	4.65	225071.06 2004.12 32.16-	1.02	2152.49 32.24

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88.5	50515.80- 745.87- 6.97	3.49	18615.57- 234.15- 4.25	3.85	226068.55 1989.11 30.17-	.84	2137.22 31.26
89.0	50885.73- 741.62- 3.03-	4.78	18729.20- 233.09- 6.77-	5.26	227060.17 1973.94 33.34-	1.16	2121.50 34.15
89.5	51257.42- 748.90- 5.66-	4.23	18848.67- 240.92- .23-	4.65	228042.50 1955.77 32.15-	1.02	2108.06 32.65
90.0	51634.63- 747.28- 9.75	4.66	18970.13- 233.33- 10.27	5.11	229015.94 1941.78 27.97-	1.12	2093.66 31.35
90.5	52004.71- 739.14- 8.05	4.72	19082.01- 230.65- 2.86-	5.19	229984.28 1927.79 30.77-	1.14	2077.48 31.94
91.0	52373.77- 739.23- .82-	6.89	19200.79- 236.19- 2.08-	7.58	230943.74 1911.01 32.36-	1.69	2062.57 32.43
91.5	52743.94- 739.97- 6.70-	6.91	19318.21- 232.74- 2.82	7.59	231895.29 1895.43 32.20-	1.69	2048.02 33.01
92.0	53113.75- 745.93- 8.71-	8.19	19433.53- 233.37- .68-	8.98	232839.17 1878.80 33.26-	2.01	2034.89 34.39
92.5	53489.88- 748.68- .83	7.53	19551.58- 233.42- 1.19-	8.26	233774.10 1862.17 32.98-	1.85	2020.57 33.01
93.0	53862.44- 745.09- 5.27	7.68	19666.96- 234.57- 2.89	8.45	234701.35 1845.81 31.77-	1.90	2004.30 32.33
93.5	54234.97- 743.41- .33-	4.08	19786.16- 230.53- 5.69	4.48	235619.92 1830.40 31.83-	1.01	1989.01 32.34
94.0	54605.85- 745.43- 6.72-	6.64	19897.49- 228.88- 5.18-	7.29	236531.75 1813.98 34.68-	1.65	1974.48 35.70
94.5	54980.41- 750.13- .47	4.34	20015.04- 235.72- 7.86-	4.79	237433.90 1795.72 33.62-	1.08	1960.32 34.52
95.0	55355.98- 744.96- 9.20	3.39	20133.21- 236.74- .47	3.72	238327.48 1780.36 30.44-	.85	1944.40 31.80
95.5	55725.37- 740.93- 5.73	3.18	20251.78- 235.24- 2.02	3.49	239214.26 1765.27 30.35-	.79	1928.86 30.95
96.0	56096.91- 739.23- 1.87	4.11	20368.46- 234.71- 2.79	4.54	240092.75 1750.01 30.29-	1.03	1914.18 30.48
96.5	56464.60- 739.06- 4.17-	5.38	20486.50- 232.45- 1.61	5.90	240964.27 1734.98 31.59-	1.35	1900.10 31.90
97.0	56835.97- 743.40- 5.20-	5.72	20600.91- 233.10- .55	6.28	241827.74 1718.41 31.69-	1.44	1886.78 32.12
97.5	57208.00- 744.26- .42	7.02	20719.60- 231.89- 1.50	7.71	242682.69 1703.28 30.46-	1.78	1873.20 30.50
98.0	57580.24- 742.98- 4.10-	4.36	20832.81- 231.60- 2.65-	4.77	243531.02 1687.95 33.01-	1.09	1858.72 33.37
98.5	57950.98- 748.36- 5.10-	6.39	20951.20- 234.54- .29-	7.00	244370.65 1670.27 33.96-	1.62	1845.23 34.34
99.0	58328.60- 748.08- 4.12	7.11	21067.35- 231.89- 3.66	7.82	245201.29 1653.99 31.98-	1.82	1830.05 32.45

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99.5	58699.07- 744.24- 5.68	8.27	21183.10- 230.88- 1.04-	9.10	246024.64 1638.28 31.15-	2.12	1814.16 31.68
100.0	59072.85- 742.40- 4.77	7.40	21298.23- 232.94- .40	8.12	246839.58 1622.83 30.38-	1.91	1799.72 30.75
100.5	59441.47- 739.46- 3.57	6.91	21416.05- 230.47- 7.84	7.61	247647.47 1607.90 29.48-	1.79	1784.73 30.72
101.0	59812.31- 738.83- 1.22-	7.19	21528.71- 229.10- 3.96	7.87	248447.48 1593.34 31.02-	1.85	1770.67 31.29
101.5	60180.30- 740.68- 9.54-	6.84	21641.15- 226.51- 4.29-	7.49	249240.81 1576.88 34.48-	1.77	1756.83 36.03
102.0	60553.00- 748.37- 5.13-	6.84	21755.22- 229.40- 7.32-	7.51	250024.36 1558.85 33.86-	1.77	1744.34 35.02
102.5	60928.67- 745.82- 5.48	3.06	21870.55- 233.83- 4.37-	3.38	250799.67 1543.02 31.03-	.80	1729.69 31.81
103.0	61298.82- 742.88- .84	6.58	21989.06- 233.77- 3.54	7.21	251567.38 1527.82 30.91-	1.72	1714.86 31.12
103.5	61671.56- 744.97- 9.12-	5.50	22104.32- 230.29- 3.27	6.06	252327.49 1512.10 33.17-	1.45	1701.32 34.56
104.0	62043.80- 752.01- 8.10-	4.83	22219.35- 230.50- 1.06	5.31	253079.49 1494.64 32.90-	1.27	1688.96 33.90
104.5	62423.57- 753.08- 6.51	1.49	22334.83- 229.22- 3.38	1.65	253822.13 1479.20 29.69-	.39	1675.62 30.58
105.0	62796.88- 745.50- 9.32	2.27	22448.58- 227.12- 4.52	2.49	254558.69 1464.95 29.58-	.59	1659.34 31.34
105.5	63169.07- 743.75- 12.58	.45	22561.95- 224.70- 12.71	.50	255287.08 1449.61 28.05-	.11	1644.70 33.27
106.0	63540.64- 732.91- 18.89	3.43	22673.28- 214.40- 8.03	3.76	256008.30 1436.89 28.26-	.91	1627.20 34.92
106.5	63901.99- 724.86- .27	1.71	22776.35- 216.67- 14.26-	1.90	256723.98 1421.35 34.63-	.46	1610.16 37.45
107.0	64257.59- 724.73- 18.53-	3.24	22889.19- 227.81- 11.38-	3.55	257431.42 1403.93 36.73-	.86	1596.29 42.68
107.5	64626.71- 735.56- 10.37-	2.95	23004.26- 227.19- .22-	3.24	258128.00 1386.28 33.33-	.79	1585.70 34.90
108.0	64993.16- 735.10- 1.79-	5.08	23116.38- 228.03- 1.99-	5.59	258817.70 1370.60 31.92-	1.37	1571.92 32.03
108.5	65361.82- 737.36- 7.60-	5.27	23232.29- 229.18- .01-	5.77	259498.60 1354.35 32.88-	1.42	1559.01 33.75
109.0	65730.52- 742.71- 7.03-	3.99	23345.57- 228.05- 4.14	4.39	260172.06 1337.72 32.56-	1.08	1546.97 33.57
109.5	66104.53- 744.40- .08-	4.73	23460.34- 225.04- 7.91	5.20	260836.33 1321.79 31.02-	1.28	1533.59 32.01
110.0	66474.92- 742.79- 1.43	2.35	23570.61- 220.13- 2.28	2.60	261493.85 1306.70 31.24-	.64	1519.10 31.35

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110.5	66847.32- 742.96- .66	3.83	23680.48- 222.76- 6.99-	4.22	262143.03 1290.55 32.24-	1.04	1505.70 32.99
111.0	67217.88- 742.13- .05	4.28	23793.38- 227.13- 5.16-	4.68	262784.40 1274.45 32.17-	1.17	1492.17 32.58
111.5	67589.46- 742.91- 2.22-	3.13	23907.61- 227.93- 1.64	3.45	263417.49 1258.37 31.86-	.86	1478.98 31.98
112.0	67960.79- 744.33- 1.15-	4.53	24021.31- 225.48- 2.26	4.95	264042.78 1242.59 31.09-	1.24	1465.92 31.19
112.5	68333.82- 744.06- 1.19	6.04	24133.10- 225.66- 3.01-	6.63	264660.08 1227.28 31.01-	1.67	1452.85 31.18
113.0	68704.85- 743.16- 3.79-	6.33	24246.97- 228.50- .89-	6.96	265270.07 1211.57 33.01-	1.76	1439.59 33.23
113.5	69076.98- 747.86- 6.31-	4.97	24361.60- 226.56- 1.01	5.46	265871.65 1194.27 34.26-	1.38	1427.20 34.85
114.0	69452.71- 749.47- 2.21	3.77	24473.53- 227.48- 4.29-	4.14	266464.34 1177.31 32.84-	1.05	1414.04 33.19
114.5	69826.46- 745.64- 5.12	5.48	24589.09- 230.85- 3.32-	6.00	267048.96 1161.43 31.80-	1.53	1399.35 32.38
115.0	70198.36- 744.35- 3.62-	4.75	24704.39- 230.81- 6.49-	5.22	267625.77 1145.51 33.42-	1.33	1385.46 34.24
115.5	70570.81- 749.27- 11.44-	4.55	24819.90- 237.35- 12.64-	5.02	268194.47 1128.00 34.95-	1.28	1374.82 38.88
116.0	70947.63- 755.80- 7.09	6.03	24941.75- 243.45- 15.21	6.64	268753.77 1110.55 27.24-	1.71	1365.22 32.00
116.5	71326.61- 742.17- 21.08	7.88	25063.36- 222.13- 30.56	8.66	269305.03 1100.75 22.61-	2.24	1346.04 43.46
117.0	71689.80- 734.72- 3.74	9.63	25163.89- 212.89- 3.71-	10.56	269854.53 1087.94 30.55-	2.74	1329.94 31.00
117.5	72061.33- 738.42- 1.94	10.08	25276.25- 225.85- 12.72-	11.07	270392.98 1070.20 31.97-	2.89	1319.70 34.46
118.0	72428.23- 732.78- 11.36	8.87	25389.74- 225.61- 7.15	9.75	270924.74 1055.97 28.85-	2.55	1304.97 31.82
118.5	72794.11- 727.05- 2.64	7.24	25501.87- 218.70- 8.33	7.96	271448.95 1041.35 30.99-	2.08	1288.74 32.20
119.0	73155.29- 730.13- 12.62-	9.74	25608.44- 217.28- 4.54-	10.67	271966.09 1024.98 34.45-	2.81	1277.06 36.97
119.5	73524.25- 739.68- 10.00-	8.26	25719.15- 223.24- 6.17-	9.06	272473.93 1006.90 34.64-	2.39	1269.17 36.58
120.0	73894.97- 740.13- 1.56-	8.99	25831.69- 223.45- .58	9.87	272972.99 990.33 32.61-	2.61	1256.38 32.66
120.5	74264.38- 741.25- 4.38-	7.30	25942.61- 222.65- 6.58-	8.03	273464.27 974.28 33.73-	2.14	1244.28 34.64
121.0	74636.22- 744.51- 1.00	6.52	26054.34- 230.04- 6.93-	7.18	273947.27 956.60 32.42-	1.90	1233.82 33.17

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121.5	75008.90- 740.25- 8.36	4.99	26172.66- 229.59- 6.60	5.49	274420.87 941.85 28.16-	1.47	1219.74 30.11
122.0	75376.47- 736.15- .93	6.68	26283.93- 223.44- 4.98	7.34	274889.13 928.43 29.86-	1.97	1205.75 30.29
122.5	75745.05- 739.31-	6.78	26396.10- 224.58-	7.46	275349.33 911.99	2.00	1195.30
123.0	76115.79-	6.88	26508.54-	7.57	275801.14	2.04	

SM 1.04

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	27.46-	.64	26.23-	.83	341.12	3.51	
1.5	68.34- 106.30-	.45	60.61- 73.05-	.59	602.44 636.95	1.47	649.88
2.0	133.77- 150.99- 73.43-	.44	99.29- 85.15- 21.80-	.55	978.08 851.47 351.73	.65	868.94 359.98
2.5	219.33- 179.74- 44.24-	.15	145.77- 94.85- 9.72-	.28	1453.91 988.69 191.67	.33	1009.36 196.95
3.0	313.51- 195.23- 26.68-	.05	194.15- 94.87- 1.99	.10	1966.77 1043.15 83.78	.20	1065.49 87.95
3.5	414.57- 206.42- 17.12-	2.23	240.65- 92.86- 1.15-	2.38	2497.06 1072.47 50.65	2.27	1096.10 53.47
4.0	519.94- 212.36- 10.52-	4.19	287.01- 96.03- 8.28-	4.44	3039.25 1093.80 40.29	4.06	1118.35 42.45
4.5	626.93- 216.95- 10.23-	5.13	336.69- 101.14- 8.89-	5.43	3590.87 1112.77 39.99	4.78	1138.22 42.22
5.0	736.89- 222.59- 13.75-	5.19	388.16- 104.92- 8.04-	5.43	4152.02 1133.79 44.15	4.79	1160.19 46.94
5.5	849.53- 230.70- 11.06-	5.18	441.61- 109.18- 4.59-	5.40	4724.66 1156.92 43.02	4.57	1184.74 44.66
6.0	967.60- 233.66- 5.49-	6.48	497.34- 109.52- 1.34-	6.70	5308.94 1176.82 42.39	5.76	1204.78 42.76
6.5	1083.19- 236.20- 14.43-	4.09	551.13- 110.53- 3.57-	4.27	5901.49 1199.31 49.43	3.40	1227.34 51.62
7.0	1203.80- 248.09- 21.33-	3.46	607.88- 113.09- 4.24-	3.64	6508.26 1226.26 51.33	2.83	1256.20 55.75
7.5	1331.28- 257.53- 19.67-	4.18	664.23- 114.77- 9.07-	4.32	7127.75 1250.65 48.35	3.48	1282.04 52.98
8.0	1461.33- 267.76- 17.61-	4.51	722.66- 122.17- 11.58-	4.80	7758.92 1274.61 48.53	3.57	1308.15 52.91
8.5	1599.05- 275.14- 9.09-	6.81	786.40- 126.36- 7.94-	7.21	8402.37 1299.18 50.29	5.33	1334.00 51.71
9.0	1736.48- 276.86- 14.71-	6.25	849.02- 130.11- 3.18-	6.64	9058.10 1324.90 54.01	4.92	1359.76 56.07
9.5	1875.91- 289.85- 23.98-	4.90	916.52- 129.55- 1.00	5.20	9727.28 1353.19 56.01	3.59	1389.94 60.94
10.0	2026.34- 300.84- 13.40-	6.50	978.57- 129.11- 5.35-	6.98	10411.30 1380.92 55.89	4.81	1419.20 57.72
10.5	2176.76- 303.26- 13.10-	4.99	1045.63- 134.90- 8.25-	5.27	11108.21 1409.09 59.75	3.63	1447.65 61.72
11.0	2329.59- 313.95- 23.92-	2.99	1113.47- 137.36- 5.76-	3.27	11820.40 1440.67 62.52	2.14	1480.87 67.18

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11.5	2490.71- 327.18- 25.29-	3.36	1183.00- 140.67- 11.55-	3.63	12548.88 1471.61 61.73	2.34	1514.09 67.70
12.0	2656.78- 339.24- 19.18-	3.72	1254.14- 148.91- 17.25-	3.96	13292.01 1502.41 61.85	2.46	1547.41 67.01
12.5	2829.95- 346.36- 12.43-	5.35	1331.92- 157.92- 12.49-	5.71	14051.29 1533.46 60.88	3.65	1580.00 63.38
13.0	3003.15- 351.67- 16.60-	4.28	1412.07- 161.41- 1.83-	4.52	14825.48 1563.30 59.83	2.84	1610.47 62.11
13.5	3181.63- 362.96- 19.42-	2.82	1493.33- 159.75- 2.15	3.03	15614.60 1593.29 62.05	1.80	1641.90 65.06
14.0	3366.11- 371.10- 21.60-	1.83	1571.82- 159.26- 3.33-	1.94	16418.77 1625.35 64.58	1.06	1674.77 68.18
14.5	3552.73- 384.57- 31.64-	.58	1652.59- 163.09- 11.50-	.64	17239.95 1657.88 65.09	.23	1709.69 73.28
15.0	3750.69- 402.74- 28.92-	.65	1734.91- 170.76- 12.47-	.79	18076.65 1690.45 67.46	.25	1746.13 74.45
15.5	3955.47- 413.49- 24.19-	3.41	1823.35- 175.56- 16.98-	3.63	18930.41 1725.34 62.82	1.97	1782.86 69.43
16.0	4164.18- 426.94- 26.19-	5.01	1910.47- 187.74- 14.73-	5.40	19802.00 1753.28 60.16	2.95	1814.25 67.25
16.5	4382.41- 439.69- 21.73-	.75	2011.09- 190.29- 8.78	.75	20683.69 1785.50 74.90	.40	1848.66 78.48
17.0	4603.87- 448.67- 23.19-	.65	2100.77- 178.95- 12.12	.76	21587.51 1828.18 82.34	.34	1890.92 86.40
17.5	4831.09- 462.88- 21.87-	2.90	2190.04- 178.16- 5.59-	3.21	22511.87 1867.85 76.17	1.57	1932.58 79.45
18.0	5066.75- 470.55- 15.99-	7.53	2278.93- 184.54- 19.95-	8.34	23455.36 1904.35 71.66	4.06	1970.29 76.09
18.5	5301.64- 478.87- 25.49-	6.92	2374.59- 198.12- 17.89-	7.64	24416.22 1939.51 74.59	3.70	2007.56 80.83
19.0	5545.63- 496.05- 24.12-	7.28	2477.06- 202.44- 8.29-	8.01	25394.88 1978.95 82.00	3.81	2050.19 85.88
19.5	5797.69- 502.99- 24.16-	7.10	2577.03- 206.42- 8.16-	7.70	26395.18 2021.52 84.89	3.64	2093.36 88.64
20.0	6048.63- 520.21- 36.70-	6.73	2683.48- 210.60- 7.01-	7.41	27416.40 2063.85 86.26	3.33	2138.79 94.01
20.5	6317.91- 539.70- 31.40-	6.99	2787.64- 213.43- 11.06-	7.65	28459.03 2107.79 86.99	3.43	2186.23 93.14
21.0	6588.34- 551.62- 26.26-	7.68	2896.91- 221.66- 11.95-	8.46	29524.19 2150.84 89.92	3.63	2231.48 94.44
21.5	6869.53- 565.97- 29.05-	7.05	3009.31- 225.38- 7.90-	7.74	30609.87 2197.71 94.56	3.31	2280.59 99.24
22.0	7154.31- 580.67- 31.81-	7.01	3122.30- 229.57- 9.14-	7.70	31721.91 2245.40 96.01	3.25	2330.61 101.56

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22.5	7450.21- 597.78- 32.46-	6.99	3238.88- 234.53- 9.87-	7.67	32855.28 2293.73 98.82	3.17	2381.92 104.49
23.0	7752.09- 613.14- 32.68-	7.52	3356.83- 239.44- 12.62-	8.34	34015.65 2344.23 101.92	3.30	2434.89 107.77
23.5	8063.35- 630.46- 31.38-	7.05	3478.33- 247.16- 11.69-	7.78	35199.51 2395.65 106.38	3.04	2489.52 111.53
24.0	8382.56- 644.52- 31.73-	6.17	3603.99- 251.14- 7.80-	6.75	36411.30 2450.62 109.73	2.60	2546.37 114.49
24.5	8707.88- 662.20- 37.21-	6.12	3729.47- 254.97- 5.90-	6.72	37650.13 2505.38 114.63	2.53	2603.93 120.67
25.0	9044.77- 681.73- 33.94-	6.35	3858.96- 257.04- 10.00-	7.07	38916.69 2565.26 118.78	2.56	2666.72 123.93
25.5	9389.62- 696.14- 33.15-	6.84	3986.52- 264.96- 17.63-	7.62	40215.39 2624.16 118.42	2.72	2727.83 124.78
26.0	9740.91- 716.89- 37.56-	5.73	4123.93- 274.67- 13.29-	6.29	41540.85 2683.68 125.55	2.23	2791.33 131.72
26.5	10106.50- 733.70- 37.36-	5.44	4261.19- 278.26- 9.90-	6.03	42899.08 2749.71 131.83	2.11	2859.49 137.38
27.0	10474.61- 754.25- 48.91-	4.26	4402.19- 284.57- 10.25-	4.68	44290.57 2815.52 132.54	1.63	2928.66 141.65
27.5	10860.76- 782.61- 47.28-	4.59	4545.77- 288.51- 10.41-	5.10	45714.60 2882.26 138.48	1.71	3000.53 146.70
28.0	11257.23- 801.54- 38.60-	5.82	4690.71- 294.99- 17.96-	6.46	47172.84 2954.00 146.12	2.13	3075.00 152.20
28.5	11662.31- 821.22- 43.76-	5.94	4840.76- 306.47- 18.27-	6.54	48668.61 3028.39 149.58	2.12	3152.69 156.92
29.0	12078.45- 845.30- 52.31-	4.04	4997.18- 313.27- 10.94-	4.40	50201.23 3103.58 153.17	1.40	3231.86 162.22
29.5	12507.61- 873.53- 55.34-	3.66	5154.03- 317.42- 13.91-	4.09	51772.20 3181.56 157.30	1.31	3314.54 167.33
30.0	12951.99- 900.65- 47.67-	5.02	5314.60- 327.18- 19.91-	5.48	53382.79 3260.89 157.79	1.72	3398.76 166.03
30.5	13408.26- 921.20- 45.25-	5.12	5481.22- 337.33- 17.96-	5.71	55033.09 3339.35 150.19	1.75	3480.47 157.88
31.0	13873.20- 945.90- 44.27-	5.64	5651.94- 345.15- 13.72-	6.22	56722.15 3411.08 124.04	1.88	3556.59 132.42
31.5	14354.17- 965.47- 24.45-	4.96	5826.38- 351.06- 9.49-	5.52	58444.17 3463.40 64.15	1.65	3612.55 69.31
32.0	14838.68- 970.35- 4.29-	5.37	6003.01- 354.64- 1.57-	5.95	60185.56 3475.24 11.36-	1.76	3625.55 12.25
32.5	15324.53- 969.77- 4.84	5.57	6181.02- 352.63- 4.82	6.24	61919.41 3452.04 59.96-	1.81	3602.96 60.35
33.0	15808.45- 965.51- 10.25	4.91	6355.64- 349.82- 4.12	5.40	63637.59 3415.27 75.54-	1.57	3566.33 76.34

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44.5	26374.33- 890.52- 4.21-	6.83	10176.88- 321.52- 5.32	7.49	98955.69 2797.95 41.01-	2.02	2953.80 41.56
45.0	26821.49- 895.30- .60-	6.11	10336.57- 316.93- 5.27	6.75	100349.28 2777.05 40.69-	1.83	2934.97 41.04
45.5	27269.63- 891.13- 8.97	6.78	10493.82- 316.24- .50-	7.46	101732.75 2757.25 38.95-	2.04	2914.88 39.97
46.0	27712.62- 886.32- 4.63	7.27	10652.82- 317.43- 1.65-	7.99	103106.54 2738.10 37.93-	2.22	2895.43 38.24
46.5	28155.96- 886.49- .12	6.68	10811.25- 317.90- 1.35	7.50	104470.86 2719.32 37.06-	2.06	2877.78 37.09
47.0	28599.11- 886.20- .55-	6.47	10970.72- 316.07- 3.38	7.11	105825.86 2701.03 37.51-	1.96	2860.22 37.66
47.5	29042.17- 887.04- 2.14-	6.92	11127.33- 314.52- 3.11-	7.66	107171.89 2681.81 40.32-	2.09	2842.16 40.50
48.0	29486.16- 888.34- 6.39	7.28	11285.24- 319.19- 1.50-	8.04	108507.67 2660.71 37.74-	2.20	2823.19 38.31
48.5	29930.51- 880.65- 8.03	5.11	11446.53- 316.02- 8.09	5.62	109832.60 2644.06 33.23-	1.57	2804.72 35.13
49.0	30366.81- 880.31- 4.13-	6.68	11601.26- 311.10- 4.29	7.38	111151.74 2627.47 36.33-	2.05	2788.43 36.81
49.5	30810.82- 884.78- 1.30-	6.51	11757.63- 311.73- 2.16-	7.29	112460.08 2607.73 38.34-	2.01	2771.33 38.42
50.0	31251.59- 881.61- 6.50	6.50	11912.99- 313.26- 4.84-	7.27	113759.47 2589.13 36.15-	1.99	2752.99 37.05
50.5	31692.44- 878.28- 2.83	7.52	12070.90- 316.57- 1.08-	8.38	115049.21 2571.58 34.76-	2.34	2735.80 34.89
51.0	32129.87- 878.77- 3.32-	6.47	12229.57- 314.35- 7.17	7.14	116331.05 2554.36 35.30-	1.96	2719.53 36.17
51.5	32571.21- 881.60- 1.17-	5.77	12385.25- 309.40- 1.69	6.48	117603.58 2536.28 37.05-	1.81	2702.90 37.11
52.0	33011.47- 879.95- 7.59	6.56	12538.98- 312.65- 3.85-	7.25	118867.33 2517.31 35.43-	2.01	2684.94 36.44
52.5	33451.17- 874.01- 3.85	5.79	12697.90- 313.26- 1.39	6.40	120120.89 2500.84 32.87-	1.80	2667.63 33.12
53.0	33885.49- 876.09-	7.10	12852.25- 311.26-	7.84	121368.18 2484.44	2.17	2652.71
53.5	34327.26-	5.89	13009.16-	6.54	122605.33	1.82	
54.0	34779.27-		13176.11-		123827.91		
54.5	35217.15- 874.36-		13331.10- 312.76-		125047.83 2431.48		2602.77
55.0	35653.63- 874.99- 1.25-		13488.87- 311.39- 2.75		126259.39 2414.09 35.38-		2586.58 35.51

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55.5	36092.15- 875.61- 1.89	13642.49- 310.00- .06-	127461.92 2396.10 34.10-	2569.84 34.15
56.0	36529.25- 873.10- 2.24	13798.88- 311.46- 2.59	128655.49 2379.99 31.81-	2554.15 32.00
56.5	36965.25- 873.37- 2.18-	13953.95- 307.41- 2.76	129841.92 2364.28 34.17-	2539.11 34.35
57.0	37402.62- 875.28- 1.64	14106.29- 308.69- 1.43-	131019.77 2345.81 34.41-	2522.75 34.48
57.5	37840.54- 871.72- 4.21	14262.65- 308.84- 3.88	132187.73 2329.87 31.29-	2506.70 31.81
58.0	38274.35- 871.07- 3.81-	14415.13- 304.81- 2.58-	133349.64 2314.52 35.77-	2491.72 36.07
58.5	38711.61- 875.54- .13	14567.46- 311.43- 5.46-	134502.26 2294.09 36.53-	2475.16 36.94
59.0	39149.89- 870.93- 5.66	14726.56- 310.28- 7.87	135643.74 2277.98 30.44-	2458.46 31.95
59.5	39582.55- 869.87- 4.76-	14877.74- 303.55- 2.87	136780.24 2263.64 33.80-	2443.95 34.25
60.0	40019.77- 875.69- 4.02-	15030.11- 307.40- 3.89-	137907.38 2244.18 36.04-	2428.51 36.47
60.5	40458.25- 873.89- 4.19	15185.14- 307.44- 3.90	139024.43 2227.60 30.86-	2412.55 31.39
61.0	40893.67- 871.50- 2.90	15337.56- 303.50- 1.16	140134.99 2213.31 31.68-	2398.00 31.84
61.5	41329.75- 870.99- .85	15488.64- 306.28- 6.84-	141237.74 2195.91 35.00-	2382.11 35.67
62.0	41764.66- 870.65- .09-	15643.84- 310.34- 1.30-	142330.90 2178.31 34.10-	2366.30 34.12
62.5	42200.41- 871.08- 1.97	15798.99- 307.58- 6.70	143416.06 2161.81 32.96-	2350.91 33.69
63.0	42635.75- 868.68- 4.40	15951.42- 303.63- 5.17	144492.71 2145.35 31.27-	2334.38 32.00
63.5	43069.10- 866.68- 2.56-	16102.62- 302.40- .03	145561.41 2130.54 32.08-	2319.86 32.18
64.0	43502.43- 871.25- 2.98-	16253.83- 303.60- 2.59-	146623.25 2113.27 34.80-	2305.89 35.02
64.5	43940.35- 869.66- 6.25	16406.22- 305.00- .21-	147674.68 2095.73 31.08-	2289.42 31.70
65.0	44372.09- 865.00- 2.05	16558.83- 303.81- 1.23	148718.99 2082.18 30.60-	2275.08 30.69
65.5	44805.35- 867.60- 3.64-	16710.03- 303.76- 1.28-	149756.87 2065.13 36.16-	2260.48 36.36
66.0	45239.70- 868.64- 2.76-	16862.59- 305.09- 1.24-	150784.12 2046.02 35.27-	2243.62 35.40

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66.5	45674.00- 870.37- 1.36	17015.13- 305.00- 2.66	151802.89 2029.86 31.18-	2229.55 31.32
67.0	46110.08- 867.29- .36-	17167.60- 302.42- 2.69	152813.99 2014.84 32.75-	2214.32 32.87
67.5	46541.29- 870.74- 6.27-	17317.55- 302.30- 1.16-	153817.72 1997.10 34.93-	2199.54 35.50
68.0	46980.82- 873.56- 4.46	17469.91- 303.58- .20-	154811.09 1979.90 31.28-	2185.24 31.59
68.5	47414.85- 866.27- 8.21	17621.14- 302.51- 1.03	155797.63 1965.82 30.00-	2169.42 31.12
69.0	47847.09- 865.35- 1.01-	17772.42- 302.55- 1.31-	156776.91 1949.90 33.18-	2154.64 33.22
69.5	48280.20- 867.28- .65	17923.69- 303.82- 4.02	157747.54 1932.64 30.60-	2139.99 30.87
70.0	48714.38- 864.69- 3.13	18076.25- 298.53- 2.54	158709.55 1919.30 31.31-	2126.15 31.56
70.5	49144.90- 864.15- 2.43-	18222.22- 301.28- 5.32-	159666.84 1901.33 37.36-	2110.11 37.81
71.0	49578.54- 867.13- 1.45-	18377.53- 303.85- 1.41	160610.89 1881.94 32.93-	2094.26 33.00
71.5	50012.03- 865.61- 2.00	18526.08- 299.87- 1.22	161548.78 1868.39 29.37-	2080.88 29.46
72.0	50444.15- 865.12- 4.77-	18677.40- 302.63- 2.60-	162479.28 1852.57 33.89-	2066.89 34.32
72.5	50877.15- 870.38- 1.07-	18828.71- 302.46- 4.11	163401.35 1834.50 33.35-	2052.91 33.61
73.0	51314.53- 866.19- 10.59	18979.87- 298.52- 5.06	164313.78 1819.22 28.52-	2036.90 30.84
73.5	51743.35- 859.78- 2.12	19127.24- 297.40- 4.18-	165220.57 1805.97 31.83-	2022.18 32.17
74.0	52174.32- 864.07- 5.79-	19277.28- 302.70- 3.88-	166119.75 1787.39 36.36-	2008.23 37.02
74.5	52607.42- 865.58- .86-	19429.94- 301.29- 5.44	167007.97 1769.61 32.31-	1992.87 32.77
75.0	53039.90- 864.93- 3.80	19578.57- 297.26- 1.19	167889.36 1755.08 29.63-	1979.08 29.89
75.5	53472.36- 861.78- 1.02	19727.20- 300.10- 5.48-	168763.05 1739.98 32.74-	1964.75 33.21
76.0	53901.68- 863.91- 4.12-	19878.67- 302.74- 1.48	169629.35 1722.33 34.75-	1950.49 35.03
76.5	54336.27- 865.90- .87	20029.95- 298.61- 5.38	170485.38 1705.22 31.21-	1935.65 31.69
77.0	54767.58- 863.03- 2.08	20177.28- 297.36- 4.15-	171334.58 1691.11 30.78-	1921.75 31.13

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77.5	55199.30- 863.81- 2.96-	20327.31- 302.76- 2.64-	172176.50 1674.44 33.62-	1908.29 33.85
78.0	55631.39- 865.99- .44-	20480.05- 300.00- 8.10	173009.02 1657.49 32.96-	1893.99 33.95
78.5	56065.29- 864.25- 2.25	20627.31- 294.65- 2.61	173833.99 1641.47 32.24-	1878.35 32.42
79.0	56495.65- 863.74- 2.11	20774.71- 297.39- 4.15-	174650.49 1625.25 31.56-	1864.38 31.90
79.5	56929.03- 862.13- .07	20924.70- 298.80- .02-	175459.25 1609.91 31.98-	1850.50 31.98
80.0	57357.79- 863.66- 4.13-	21073.52- 297.41- 1.46	176260.40 1593.27 32.59-	1836.54 32.88
80.5	57792.70- 866.27- 5.16	21222.12- 297.34- 1.55-	177052.52 1577.31 29.85-	1823.94 30.33
81.0	58224.06- 858.49- 3.20	21370.86- 298.97- 2.83-	177837.72 1563.41 32.58-	1808.49 32.86
81.5	58651.19- 863.06- 5.89-	21521.09- 300.17- 1.54	178615.93 1544.73 34.39-	1794.76 34.92
82.0	59087.13- 864.39- 4.42	21671.03- 297.43- 5.25	179382.45 1529.02 27.51-	1781.44 28.35
82.5	59515.59- 858.64- 6.05	21818.53- 294.92- 1.58-	180144.95 1517.22 29.76-	1768.11 30.41
83.0	59945.77- 858.34- 2.11-	21965.95- 299.01- 2.66-	180899.67 1499.26 37.11-	1753.26 37.26
83.5	60373.93- 860.76- 6.18-	22117.54- 297.58- 5.61	181644.21 1480.11 37.18-	1737.87 38.10
84.0	60806.54- 864.52- .50	22263.54- 293.40- 2.66	182379.78 1462.08 31.67-	1723.70 31.79
84.5	61238.45- 860.25- 6.55	22410.95- 294.92- 4.30-	183106.29 1448.43 28.09-	1710.25 29.16
85.0	61666.79- 857.96- 8.25-	22558.46- 297.70- 2.42-	183828.22 1433.99 34.63-	1697.36 35.68
85.5	62096.41- 868.51- 2.17-	22708.65- 297.34- 2.75	184540.28 1413.80 33.26-	1685.69 33.44
86.0	62535.30- 860.13- 16.06	22855.80- 294.95- 6.16	185242.02 1400.73 26.16-	1669.99 31.31
86.5	62956.55- 852.44- 2.36-	23003.61- 291.18- 1.42	185941.01 1387.63 32.48-	1654.38 32.60
87.0	63387.75- 862.49- 12.38-	23146.99- 293.53- 6.33-	186629.65 1368.24 37.10-	1643.82 39.62
87.5	63819.05- 864.82- 1.16	23297.14- 297.52- 1.29	187309.25 1350.52 32.03-	1631.06 32.08
88.0	64252.57- 861.33- 8.13	23444.51- 292.23- 6.44	187980.18 1336.20 29.33-	1616.39 31.10

SM 1.04

88.5	64680.38- 856.69- 3.59	23589.38- 291.07- .16-	188645.46 1321.19 33.03-	1601.31 33.23
89.0	65109.27- 857.73- 1.87-	23735.58- 292.40- 1.29-	189301.38 1303.17 34.36-	1587.28 34.44
89.5	65538.12- 858.57- 2.76-	23881.78- 292.37- 1.26-	189948.63 1286.83 30.41-	1574.34 30.56
90.0	65967.84- 860.50- .07	24027.96- 293.66- .02-	190588.21 1272.76 29.99-	1564.16 29.99
90.5	66398.62- 858.50- 7.33	24175.44- 292.39- 1.06	191221.39 1256.83 32.02-	1549.88 32.86
91.0	66826.34- 853.16- 1.47	24320.36- 292.60- 2.75-	191845.04 1240.74 34.96-	1533.93 35.10
91.5	67251.78- 857.03- 10.56	24468.04- 295.15- 22.59	192462.13 1221.87 25.36-	1521.37 35.57
92.0	67683.37- 842.60- 41.00	24615.51- 270.00- 30.91	193066.91 1215.37 12.75-	1503.33 52.91
92.5	68094.39- 816.02- 8.91	24738.05- 264.23- 17.93-	193677.51 1209.11 33.12-	1482.45 38.70
93.0	68499.39- 833.69- 39.72-	24879.74- 287.93- 35.09-	194276.03 1182.25 51.87-	1475.01 74.16
93.5	68928.08- 855.74- 23.97-	25025.99- 299.33- 12.68-	194859.76 1157.23 42.38-	1470.06 50.31
94.0	69355.13- 857.66- 2.61-	25179.08- 300.61- 5.52	195433.26 1139.86 30.18-	1457.82 30.79
94.5	69785.75- 858.36- 2.58	25326.61- 293.81- 10.73	195999.62 1127.05 27.05-	1446.84 29.22
95.0	70213.50- 855.07- 3.10	25472.89- 289.88- 2.53	196560.32 1112.81 31.66-	1433.01 31.91
95.5	70640.83- 855.26- 2.50-	25616.49- 291.27- 5.35-	197112.44 1095.39 35.51-	1419.93 35.99
96.0	71068.76- 857.58- 2.54-	25764.16- 295.24- .09	197655.72 1077.30 32.79-	1408.25 32.88
96.5	71498.41- 857.81- 1.56	25911.74- 291.17- 3.98	198189.74 1062.60 28.94-	1396.33 29.25
97.0	71926.57- 856.02- 1.63	26055.33- 291.26- 1.44-	198718.33 1048.36 30.61-	1384.43 30.68
97.5	72354.43- 856.18- 2.03	26203.00- 292.61- 1.25	199238.10 1031.99 31.39-	1372.47 31.48
98.0	72782.75- 853.98- 3.80	26347.95- 290.01- 1.19	199750.32 1016.96 31.20-	1359.27 31.46
98.5	73208.41- 852.37-	26493.01- 291.42-	200255.07 1000.78	1346.49
99.0	73635.13-	26639.38-	200751.11	

SM 1.04

99.5	74065.86-	1.41	26783.97-	1.49	201239.63	.53	
100.0	74496.20- 855.45-	1.03	26929.46- 287.95-	1.00	201718.61 951.97	.38	1311.85
100.5	74921.31- 849.88- 5.49	1.02	27071.92- 288.52- 3.12-	1.08	202191.61 937.34 31.79-	.38	1297.75 32.41
101.0	75346.08- 849.96- 5.52-	1.72	27217.99- 291.08- .15-	1.90	202655.95 920.18 32.73-	.66	1286.03 33.19
101.5	75771.27- 855.41- 4.74-	.81	27363.00- 288.67- 2.00	.99	203111.79 904.61 29.93-	.32	1278.04 30.37
102.0	76201.50- 854.69- 3.04	1.48	27506.66- 289.07- .72	1.68	203560.56 890.24 31.30-	.62	1267.51 31.45
102.5	76625.97- 852.36- .29-	.96	27652.08- 287.95- 1.55	1.09	204002.03 873.30 34.36-	.38	1253.84 34.39
103.0	77053.87- 854.99- .03	1.16	27794.62- 287.51- .63	1.28	204433.87 855.87 32.25-	.44	1243.46 32.25
103.5	77480.96- 852.33- 4.52	1.26	27939.59- 287.31- .08-	1.32	204857.91 841.05 30.56-	.42	1231.42 30.89
104.0	77906.20- 850.47- 4.76	1.06	28081.93- 287.59- 1.29-	1.22	205274.93 825.31 35.18-	.42	1219.49 35.52
104.5	78331.43- 847.57- 3.97	1.03	28227.19- 288.60- 6.89	1.15	205683.23 805.87 38.41-	.40	1204.62 39.22
105.0	78753.77- 846.49- 1.43-	.14	28370.54- 280.70- 6.08	.20	206080.81 786.90 31.81-	.07	1189.35 32.42
105.5	79177.93- 849.00- 10.72-	1.11	28507.89- 282.51- 6.43-	1.19	206470.13 774.06 27.70-	.48	1183.13 30.39
106.0	79602.77- 857.21- 3.14-	1.81	28653.06- 287.13- 3.74-	1.95	206854.87 759.20 30.11-	.81	1180.52 30.51
106.5	80035.14- 852.14- 11.26	.62	28795.03- 286.26- .68-	.68	207229.33 743.94 30.57-	.28	1166.85 32.58
107.0	80454.92- 845.95- .32-	1.67	28939.32- 287.82- .28-	1.86	207598.82 728.62 32.96-	.78	1152.98 32.97
107.5	80881.09- 852.47- 3.18-	.59	29082.85- 286.55- .42	.71	207957.96 710.97 32.88-	.27	1146.43 33.03
108.0	81307.40- 849.13- 1.89	1.04	29225.87- 287.39- 1.63-	1.16	208309.79 695.74 31.42-	.46	1134.76 31.52
108.5	81730.23- 850.57- 5.19-	.67	29370.25- 288.18- 2.55	.75	208653.71 679.55 32.92-	.32	1126.19 33.42
109.0	82157.97- 854.33- 1.68	.51	29514.06- 284.84- 1.57	.57	208989.35 662.82 31.33-	.26	1118.19 31.41
109.5	82584.56- 848.89- 7.89	1.95	29655.09- 286.60- .91-	2.18	209316.53 648.22 29.73-	.89	1105.87 30.77
110.0	83006.87- 846.43- 2.15	.64	29800.67- 285.75- 9.55	.65	209637.57 633.09 29.22-	.26	1094.95 30.82

SM 1.04

110.5	83431.00- 846.74- 1.44	2.34	29940.84- 277.05- 4.93	2.59	209949.63 618.99 28.76-	1.04	1084.84 29.21
111.0	83853.61- 844.99- 5.77-	4.86	30077.72- 280.82- 9.68-	5.36	210256.56 604.33 34.49-	2.13	1076.14 36.29
111.5	84275.99- 852.51- 7.57-	4.21	30221.66- 286.74- 3.60-	4.71	210553.96 584.49 35.76-	1.83	1072.67 36.72
112.0	84706.13- 852.56- 10.85	4.48	30364.46- 284.42- 3.45	4.90	210841.05 568.57 26.52-	2.01	1063.50 28.86
112.5	85128.55- 841.66- 4.51	4.55	30506.09- 283.28- 3.15-	4.99	211122.54 557.97 25.44-	1.95	1048.79 26.02
113.0	85547.79- 848.04- 13.24-	2.82	30647.75- 287.57- .11	3.07	211399.02 543.13 34.01-	1.22	1047.31 36.50
113.5	85976.59- 854.90- 2.13-	2.16	30793.66- 283.17- 7.52	2.38	211665.68 523.95 35.64-	.98	1041.90 36.49
114.0	86402.69- 850.17- 8.03	3.06	30930.93- 280.04- 4.88-	3.44	211922.97 507.49 33.48-	1.39	1028.96 34.77
114.5	86826.76- 846.86- 2.53	2.68	31073.71- 288.06- 7.13-	2.97	212173.17 490.47 34.46-	1.22	1020.16 35.28
115.0	87249.56- 847.63- 6.33-	2.04	31219.00- 287.18- 9.91	2.20	212413.44 473.02 30.52-	.94	1012.28 32.70
115.5	87674.40- 853.20- 18.03-	1.83	31360.89- 278.14- 5.84-	2.02	212646.20 459.95 33.54-	.83	1008.40 38.53
116.0	88102.76- 865.67- 2.37-	4.12	31497.14- 293.02- 11.91-	4.59	212873.40 439.48 35.54-	1.92	1014.09 37.55
116.5	88540.08- 855.57- 22.69	3.49	31653.92- 290.05- 17.53	3.97	213085.68 424.41 25.70-	1.67	998.12 38.50
117.0	88958.33- 842.97- 2.40	2.95	31787.20- 275.49- 6.13	3.17	213297.81 413.77 30.44-	1.34	978.63 31.14
117.5	89383.05- 853.16- 5.04-	1.53	31929.41- 283.92- 7.83-	1.72	213499.46 393.97 33.75-	.77	981.68 35.01
118.0	89811.50- 848.02- 11.51	3.58	32071.13- 283.32- 2.87	3.81	213691.78 380.02 25.66-	1.61	971.51 28.27
118.5	90231.07- 841.65- 11.53-	4.24	32212.73- 281.05- 3.28	4.72	213879.48 368.30 35.62-	1.97	960.73 37.58
119.0	90653.15- 859.55- 15.39-	5.20	32352.18- 280.04- 3.68	5.73	214060.08 344.40 40.15-	2.41	967.40 43.16
119.5	91080.66- 847.34- 1.15	8.13	32500.15- 285.08- 4.32	9.03	214225.41 329.49 29.99-	3.79	952.79 30.32
120.0	91500.49- 848.43- 4.61-	8.13	32637.26- 283.09- 2.70	9.04	214389.60 315.92 30.52-	3.86	948.57 30.98
120.5	91929.10- 851.96- 8.14	6.93	32783.24- 282.37- 2.96	7.67	214541.33 298.97 28.12-	3.28	946.02 29.42
121.0	92352.45- 840.29- 25.59	8.01	32919.64- 280.12- 13.56	8.86	214688.57 287.80 20.26-	3.83	931.34 35.35

SM 1.04

121.5	92769.39- 826.36- 1.17	6.91	33063.37- 268.81- 25.04	7.54	214829.13 278.71 26.24-	3.27	912.58 36.29
122.0	93178.81- 839.11- 19.05-	7.31	33188.45- 255.08- .51	8.14	214967.29 261.55 35.34-	3.52	915.20 40.15
122.5	93608.51- 845.41- 5.54	.27	33318.45- 268.30- 30.13-	.30	215090.69 243.37 32.53-	.07	919.75 44.69
123.0	94024.23- 833.56- 5.83	3.88	33456.75- 285.21- 17.84-	4.29	215210.66 229.02 33.09-	1.93	910.29 38.05
123.5	94442.08- 839.57- 16.38-	4.06	33603.66- 286.14- 9.22	4.53	215319.71 210.27 35.06-	1.98	911.58 39.78
124.0	94863.81- 849.95-	2.98	33742.90- 275.98-	3.30	215420.93 193.95	1.46	914.44
124.5	95292.03-	1.76	33879.65-	1.90	215513.66	.87	

SM 1.05

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
.5	11.78-	1.19	.17	1.51	247.50	5.73	
1.0	38.96- 53.38-	4.28	.42- 7.15-	4.66	448.73 503.53	9.64	506.41
1.5	65.16- 60.64- 22.49-	3.79	6.97- 12.63- 5.49-	4.18	751.04 709.53 398.63	5.95	712.23 399.31
2.0	99.61- 75.88- 21.65-	4.02	13.05- 12.64- 2.75-	4.38	1158.27 902.17 300.48	5.25	905.45 301.27
2.5	141.04- 82.30- 6.36-	3.12	19.62- 15.38- 6.08-	3.37	1653.21 1010.02 140.59	3.61	1013.48 140.87
3.0	181.91- 82.24- 2.07-	2.77	28.44- 18.72- 4.97-	2.97	2168.29 1042.77 56.13	3.01	1046.17 56.38
3.5	223.28- 84.38- 4.96-	2.61	38.35- 20.36- 2.41-	2.74	2695.99 1066.15 42.85	2.69	1069.68 43.20
4.0	266.29- 87.20- 5.31-	2.41	48.80- 21.14- 1.42-	2.56	3234.44 1085.62 37.13	2.41	1089.32 37.53
4.5	310.49- 89.69- 3.90-	2.46	59.49- 21.78- 2.33-	2.60	3781.61 1103.28 36.59	2.38	1107.13 36.87
5.0	355.99- 91.11- 3.40-	2.27	70.59- 23.47- 2.93-	2.37	4337.73 1122.21 37.42	2.15	1126.15 37.69
5.5	401.60- 93.09- 4.01-	2.29	82.97- 24.72- .26-	2.41	4903.83 1140.71 37.66	2.10	1144.77 37.96
6.0	449.08- 95.13- 2.99-	2.49	95.31- 26.08- 3.27-	2.63	5478.44 1159.87 39.45	2.28	1164.06 39.70
6.5	496.73- 96.09- 4.60-	2.46	109.05- 28.00- 2.21-	2.62	6063.70 1180.16 40.14	2.19	1184.40 40.46
7.0	545.17- 99.73- 7.09-	2.66	123.32- 28.30- .66-	2.83	6658.60 1200.01 41.14	2.28	1204.48 41.75
7.5	596.47- 103.18- 5.19-	2.60	137.35- 28.66- 1.27-	2.76	7263.72 1221.31 43.38	2.20	1225.99 43.71
8.0	648.35- 104.92- 3.23-	2.42	151.98- 29.57- 1.62-	2.52	7879.91 1243.40 43.58	2.01	1248.17 43.73
8.5	701.40- 106.41- 1.89-	2.22	166.93- 30.28- 2.58-	2.35	8507.12 1264.89 45.79	1.79	1269.72 45.91
9.0	754.77- 106.82- 1.77-	2.85	182.27- 32.16- 2.82-	3.02	9144.81 1289.20 47.58	2.24	1294.01 47.68
9.5	808.23- 108.19- 3.63-	2.85	199.09- 33.11- .32-	2.98	9796.33 1312.48 47.50	2.49	1317.34 47.50
10.0	862.96- 110.46- 4.16-	3.75	215.38- 32.48- 2.23-	3.94	10457.29 1336.56 50.91	2.83	1341.51 51.13
10.5	918.69- 112.35- 6.91-	3.47	231.57- 35.34- 4.89-	3.67	11132.89 1363.39 52.42	2.59	1368.47 53.10
11.0	975.31- 117.38- 11.05-	4.13	250.72- 37.37- 1.07-	4.34	11820.68 1388.99 53.46	3.05	1394.44 54.60

SM 1.05

11.5	1036.07- 123.40- 9.60-	4.05	268.94- 36.41- .36	4.27	12521.89 1416.86 56.38	2.91	1422.69 57.19
12.0	1098.72- 126.98- 5.33-	3.03	287.13- 37.01- .10-	3.19	13237.54 1445.38 56.67	2.11	1451.42 56.92
12.5	1163.05- 128.73- 2.11-	2.37	305.95- 36.52- .91	2.49	13967.27 1473.53 57.27	1.62	1479.59 57.32
13.0	1227.45- 129.09- 1.69-	2.21	323.66- 36.09- 1.71-	2.35	14711.08 1502.65 59.00	1.51	1508.62 59.05
13.5	1292.15- 130.43- 5.29-	2.17	342.05- 38.23- 3.74-	2.30	15469.92 1532.54 61.36	1.45	1538.55 61.70
14.0	1357.88- 134.39- 6.84-	2.91	361.89- 39.83- 1.77	3.09	16243.62 1564.02 66.76	1.90	1570.29 67.13
14.5	1426.54- 137.27- 2.42-	3.41	381.88- 36.46- 4.39	3.59	17033.95 1599.30 70.30	2.17	1605.59 70.48
15.0	1495.15- 136.81- .59-	2.90	398.36- 35.44- 4.10-	3.08	17842.92 1634.32 68.93	1.81	1640.42 69.05
15.5	1563.36- 137.86- 6.11-	3.20	417.33- 40.56- 5.32-	3.40	18668.27 1668.23 71.58	1.95	1674.41 72.04
16.0	1633.02- 142.93- 10.29-	3.67	438.92- 40.76- .28	3.91	19511.16 1705.91 76.13	2.18	1712.37 76.82
16.5	1706.29- 148.16- 6.85-	2.32	458.09- 40.28- 2.19-	2.48	20374.18 1744.36 78.26	1.36	1751.10 78.59
17.0	1781.18- 149.79- .23	2.20	479.20- 42.96- 4.19-	2.35	21255.52 1784.17 81.09	1.25	1790.96 81.20
17.5	1856.08- 147.92- 2.67	1.29	501.05- 44.47- 2.77-	1.37	22158.36 1825.46 81.92	.73	1831.98 82.01
18.0	1929.11- 147.11- 3.45-	1.78	523.68- 45.73- .75	1.89	23080.98 1866.09 83.38	.98	1872.44 83.45
18.5	2003.20- 151.37- 10.06-	2.47	546.78- 43.72- 5.57	2.62	24024.46 1908.84 88.14	1.33	1915.33 88.88
19.0	2080.49- 157.17- 7.77-	4.00	567.40- 40.16- .97	4.25	24989.82 1954.23 91.33	2.08	1960.96 91.67
19.5	2160.37- 159.15- .45	3.22	586.95- 42.75- 6.80-	3.41	25978.70 2000.17 91.98	1.64	2006.95 92.23
20.0	2239.64- 156.72- 2.75	3.41	610.16- 46.97- 2.06-	3.65	26990.00 2046.22 95.79	1.68	2052.75 95.85
20.5	2317.10- 156.39- 1.78-	3.58	633.92- 44.81- 3.91	3.83	28024.92 2095.97 99.70	1.72	2102.27 99.79
21.0	2396.04- 158.51- 2.23-	1.56	654.98- 43.06- .25	1.66	29085.97 2145.93 98.61	.75	2152.20 98.63
21.5	2475.61- 158.62- 3.34-	.76	676.98- 44.56- .37	.81	30170.85 2194.58 100.36	.36	2200.75 100.42
22.0	2554.67- 161.85- 5.33-	.72	699.53- 42.68- 3.21	.76	31280.55 2246.29 106.30	.35	2252.52 106.48

SM 1.05

22.5	2637.47- 163.96- 7.76-	2.10	719.66- 41.34- .30	2.24	32417.15 2300.88 109.93	.92	2307.09 110.20
23.0	2718.63- 169.61- 13.26-	1.91	740.88- 42.38- 5.68-	2.04	33581.44 2356.22 111.13	.80	2362.70 112.06
23.5	2807.08- 177.22- 1.78-	.88	762.05- 47.03- 6.42-	.94	34773.37 2412.01 113.25	.37	2418.97 113.45
24.0	2895.85- 171.40- 7.01	1.19	787.91- 48.80- 2.33	1.28	35993.46 2469.48 116.96	.49	2475.90 117.19
24.5	2978.48- 170.21- 3.29-	1.39	810.85- 44.69- 6.47	1.50	37242.86 2528.97 120.66	.54	2535.09 120.88
25.0	3066.06- 174.69- 7.23-	1.61	832.61- 42.32- 2.72-	1.74	38522.44 2590.14 122.76	.61	2596.37 123.00
25.5	3153.18- 177.44- 3.44-	.86	853.18- 47.42- 2.00-	.95	39833.00 2651.74 126.03	.32	2658.09 126.09
26.0	3243.51- 178.13- .02-	2.51	880.03- 44.33- 5.83	2.67	41174.18 2716.17 132.48	.91	2722.37 132.61
26.5	3331.31- 177.47- 7.48-	4.47	897.51- 41.58- .32	4.78	42549.17 2784.23 137.90	1.58	2790.19 138.10
27.0	3420.99- 185.62- 12.16-	4.73	921.61- 44.00- 1.85	5.09	43958.41 2854.07 141.89	1.61	2860.44 142.42
27.5	3516.93- 189.63- 11.28-	3.63	941.51- 39.72- 1.46	3.92	45403.25 2926.12 146.42	1.19	2932.53 146.86
28.0	3610.63- 196.90- 8.13-	3.76	961.34- 42.53- 2.97-	4.04	46884.54 3000.49 151.00	1.22	3007.25 151.25
28.5	3713.84- 197.77- 1.30-	2.50	984.05- 42.70- .76	2.69	48403.75 3077.13 156.22	.78	3083.77 156.23
29.0	3808.40- 198.20- 8.20-	5.32	1004.04- 41.77- 1.01	5.73	49961.67 3156.72 162.49	1.62	3163.21 162.70
29.5	3912.04- 205.97- 13.39-	4.54	1025.82- 41.69- .36-	4.89	51560.47 3239.62 168.91	1.35	3246.43 169.44
30.0	4014.37- 211.59- 8.74-	4.13	1045.73- 42.13- 2.42-	4.45	53201.29 3325.63 173.98	1.19	3332.62 174.21
30.5	4123.64- 214.72- 7.32-	3.40	1067.95- 44.11- .81-	3.66	54886.11 3413.60 179.00	.96	3420.63 179.16
31.0	4229.09- 218.92- 11.02-	5.67	1089.85- 42.94- .27-	6.10	56614.90 3504.64 184.68	1.54	3511.74 185.00
31.5	4342.57- 225.74- 13.89-	5.22	1110.90- 44.39- 1.96-	5.62	58390.76 3598.28 188.40	1.39	3605.63 188.92
32.0	4454.84- 232.81- 12.81-	5.88	1134.24- 44.90- 1.29-	6.34	60213.19 3693.05 188.39	1.50	3700.65 188.83
32.5	4575.38- 238.56- 9.29-	5.39	1155.81- 45.68- 2.06	5.83	62083.81 3786.68 181.37	1.34	3794.46 181.62
33.0	4693.40- 242.10- 13.65-	6.23	1179.92- 42.84- .27	6.74	63999.87 3874.42 161.28	1.50	3882.21 161.85

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33.5	4817.49- 252.22- 9.94-	5.20	1198.65- 45.41- 6.38-	5.60	65958.23 3947.96 126.29	1.23	3956.27 126.84
34.0	4945.63- 252.05- 2.41-	6.02	1225.33- 49.22- 1.63	6.50	67947.83 4000.71 91.10	1.38	4008.94 91.15
34.5	5069.55- 254.63- 6.21-	7.03	1247.87- 43.77- .62-	7.59	69958.94 4039.06 43.58	1.56	4047.32 44.02
35.0	5200.26- 258.27- 1.17	6.59	1269.11- 49.85- 2.20-	7.12	71986.89 4044.29 20.13-	1.42	4052.83 20.28
35.5	5327.82- 253.45- 3.73	7.40	1297.72- 45.98- 8.51	8.03	74003.24 4018.92 54.65-	1.55	4027.17 55.44
36.0	5453.71- 254.53- .78-	7.64	1315.09- 41.33- 5.60-	8.27	76005.82 3989.63 59.67-	1.56	3997.96 59.94
36.5	5582.35- 254.23- .54	7.04	1339.06- 51.58- 4.25-	7.62	77992.87 3959.25 58.76-	1.41	3967.74 58.92
37.0	5707.95- 253.99- .15	7.71	1366.68- 45.58- 12.48	8.36	79965.07 3930.87 55.32-	1.50	3939.33 56.71
37.5	5836.35- 254.08- 2.99	8.06	1384.64- 39.10- 2.44-	8.72	81923.75 3903.92 54.34-	1.53	3912.37 54.47
38.0	5962.04- 251.00- 1.75	8.09	1405.78- 48.03- 4.57-	8.77	83868.99 3876.53 53.79-	1.50	3884.94 54.01
38.5	6087.35- 252.32- 1.88-	8.66	1432.68- 43.67- 8.45	9.35	85800.27 3850.12 51.99-	1.58	3858.63 52.71
39.0	6214.36- 252.88- 1.24	8.75	1449.46- 39.57- 3.96-	9.46	87719.12 3824.53 50.85-	1.56	3833.08 51.02
39.5	6340.23- 251.08- 3.26	7.91	1472.25- 47.64- 3.44-	8.57	89624.81 3799.27 48.99-	1.37	3807.86 49.22
40.0	6465.45- 249.61- .43-	8.94	1497.10- 43.01- 8.09	9.70	91518.40 3775.54 46.21-	1.53	3784.02 46.91
40.5	6589.84- 251.52- .72-	7.74	1515.27- 39.54- 2.96-	8.39	93400.35 3753.06 45.28-	1.30	3761.69 45.38
41.0	6716.97- 250.34- 4.81	9.15	1536.65- 45.98- 2.84-	9.92	95271.46 3730.25 45.16-	1.51	3738.92 45.51
41.5	6840.19- 246.70- .91	8.28	1561.25- 42.38- 7.54	8.97	97130.60 3707.89 43.65-	1.34	3716.33 44.30
42.0	6963.67- 249.43- 5.01-	8.18	1579.04- 38.43- 1.46-	8.87	98979.36 3686.60 43.16-	1.29	3695.23 43.48
42.5	7089.62- 251.72- 2.43	9.19	1599.69- 43.85- 3.70-	9.96	100817.21 3664.72 42.87-	1.43	3673.62 43.09
43.0	7215.39- 247.00- 7.37	8.06	1622.89- 42.13- 5.59	8.74	102644.08 3643.73 40.35-	1.23	3652.33 41.40
43.5	7336.62- 244.34- 2.02-	8.79	1641.82- 38.25- 1.49	9.54	104460.94 3624.37 38.87-	1.32	3632.80 38.95
44.0	7459.74- 249.02- 2.83-	8.62	1661.14- 40.63- 5.16-	9.35	106268.46 3604.85 39.51-	1.28	3613.67 39.95

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44.5	7585.64- 247.18- 2.92	8.38	1682.46- 43.41- 3.71-	9.08	108065.80 3584.85 40.04-	1.22	3593.63 40.31
45.0	7706.92- 246.10- 1.96-	8.54	1704.55- 44.35- 5.01	9.26	109853.32 3564.81 39.21-	1.22	3573.57 39.58
45.5	7831.74- 249.14- .31	9.54	1726.81- 38.39- 5.92	10.35	111630.61 3545.64 37.43-	1.35	3554.59 37.89
46.0	7956.06- 245.78- 3.59	9.02	1742.95- 38.43- 3.93-	9.77	113398.96 3527.38 36.97-	1.26	3536.14 37.35
46.5	8077.53- 245.55- 1.01-	7.96	1765.24- 42.33- .26-	8.65	115158.00 3508.67 37.41-	1.09	3517.51 37.43
47.0	8201.61- 246.80- .55	8.56	1785.29- 38.69- 2.31	9.27	116907.64 3489.96 36.62-	1.16	3498.89 36.69
47.5	8324.33- 244.99- .80-	9.54	1803.93- 40.02- 4.81-	10.35	118647.96 3472.05 36.28-	1.27	3480.91 36.60
48.0	8446.61- 247.61- .28	8.73	1825.31- 43.50- 2.16	9.47	120379.69 3453.68 37.11-	1.15	3462.82 37.18
48.5	8571.94- 244.71- 4.56	9.49	1847.43- 37.86- 5.26	10.29	122101.64 3434.93 36.41-	1.23	3443.85 37.07
49.0	8691.32- 243.04- 2.96-	9.59	1863.17- 38.24- 4.85-	10.42	123814.63 3417.27 34.96-	1.23	3426.11 35.42
49.5	8814.98- 247.67- 2.15-	9.55	1885.68- 42.71- 1.38	10.35	125518.91 3399.97 34.74-	1.21	3409.24 34.83
50.0	8939.00- 245.19- 5.00	11.03	1905.88- 36.85- 7.84	11.98	127214.59 3382.52 34.43-	1.38	3391.59 35.66
50.5	9060.17- 242.68- 4.41-	10.18	1922.53- 34.87- 9.18-	11.05	128901.44 3365.53 34.13-	1.26	3374.45 35.61
51.0	9181.68- 249.60- 4.12-	10.77	1940.75- 46.03- 7.24-	11.68	130580.13 3348.39 35.82-	1.31	3357.99 36.77
51.5	9309.77- 246.80- 9.40	12.09	1968.57- 42.11- 13.31	13.13	132249.83 3329.72 36.02-	1.46	3339.12 39.53
52.0	9428.49- 240.20- .44	9.67	1982.87- 32.71- 2.88	10.50	133909.85 3312.37 33.94-	1.16	3321.23 34.07
52.5	9549.99- 246.42- 5.89-	9.03	2001.28- 39.33- 6.31-	9.79	135562.20 3295.76 33.60-	1.07	3305.19 34.69
53.0	9674.93- 246.09- 2.60	9.65	2022.20- 39.02- .56	10.50	137205.62 3278.76 33.49-	1.13	3288.22 33.59
53.5	9796.09- 243.81- .12	10.33	2040.31- 38.77- .02	11.24	138840.97 3262.27 33.06-	1.20	3271.60 33.06
54.0	9918.75- 245.97- .12-	9.83	2060.98- 39.00- 3.45	10.68	140467.89 3245.70 33.41-	1.13	3255.24 33.58
54.5	10042.06- 243.94- 6.13	9.15	2079.32- 35.31- 2.18	9.96	142086.67 3228.86 34.25-	1.04	3238.25 34.86
55.0	10162.69- 239.83- .42	11.24	2096.29- 36.81- 4.60-	12.21	143696.75 3211.44 34.58-	1.26	3220.59 34.88

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55.5	10281.89- 243.51- 3.20-	9.26	2116.13- 39.92- .43	10.03	145298.11 3194.28 33.85-	1.03	3203.80 34.00
56.0	10406.21- 243.04- 1.56	9.24	2136.22- 36.38- 2.93	10.04	146891.03 3177.59 32.89-	1.02	3187.07 33.05
56.5	10524.94- 241.95- 7.56-	9.40	2152.52- 36.99- 4.61-	10.19	148475.70 3161.39 32.46-	1.03	3170.85 33.65
57.0	10648.16- 250.60- 4.39-	11.09	2173.20- 41.00- .48	12.05	150052.42 3145.12 33.08-	1.20	3155.35 33.37
57.5	10775.54- 246.35- 10.21	9.92	2193.52- 36.50- 6.39	10.78	151620.83 3128.30 32.62-	1.07	3138.20 34.77
58.0	10894.52- 240.39- 3.56	10.54	2209.71- 34.60- 3.98-	11.45	153180.73 3112.50 32.74-	1.12	3121.96 33.17
58.5	11015.94- 242.79- 4.85-	11.43	2228.12- 40.49- 2.35-	12.43	154733.33 3095.56 34.42-	1.21	3105.33 34.83
59.0	11137.31- 245.24- 1.22-	10.49	2250.20- 36.95- 7.65	11.42	156276.29 3078.08 32.91-	1.10	3088.05 33.81
59.5	11261.19- 244.01- 1.73	12.58	2265.07- 32.83- 1.62-	13.65	157811.41 3062.65 32.23-	1.31	3072.53 32.31
60.0	11381.32- 243.51- 2.39-	12.48	2283.03- 38.57- 3.33-	13.57	159338.95 3045.85 33.37-	1.29	3055.81 33.62
60.5	11504.70- 246.40- 1.84	11.08	2303.65- 36.16- 5.56	12.06	160857.26 3029.28 31.73-	1.14	3039.50 32.27
61.0	11627.73- 241.67- 3.90	12.90	2319.20- 33.01- 1.57-	14.04	162368.23 3014.11 31.81-	1.31	3023.96 32.08
61.5	11746.37- 242.50- 8.20-	11.40	2336.66- 37.74- 3.05-	12.38	163871.38 2997.46 33.26-	1.16	3007.49 34.39
62.0	11870.24- 249.87- .95	11.69	2356.95- 36.06- 2.92	12.70	165365.69 2980.84 32.95-	1.17	2991.51 33.09
62.5	11996.25- 241.55- 9.29	12.03	2372.72- 34.82- 1.48	13.08	166852.22 2964.50 33.08-	1.20	2974.53 34.40
63.0	12111.79- 240.58- 7.49-	8.73	2391.77- 34.58- .72	9.46	168330.20 2947.75 32.66-	.87	2957.76 33.52
63.5	12236.83- 249.05- .22-	11.33	2407.30- 34.10- .79-	12.33	169799.98 2931.84 31.74-	1.12	2942.60 31.75
64.0	12360.84- 240.80- 8.49	12.08	2425.87- 33.37- 2.48-	13.12	171262.05 2916.01 32.40-	1.18	2926.15 33.58
64.5	12477.64- 240.56- 5.84-	11.32	2442.68- 36.58- .80-	12.31	172715.99 2899.44 32.35-	1.10	2909.63 32.88
65.0	12601.40- 246.64- 4.75-	11.78	2462.45- 36.17- 3.39	12.79	174161.49 2883.66 31.58-	1.14	2894.41 32.12
65.5	12724.28- 245.31- 3.92-	11.54	2478.85- 33.19- .61	12.54	175599.65 2867.85 32.87-	1.12	2878.51 33.10
66.0	12846.71- 250.57- 3.57	12.10	2495.65- 35.55- 2.17	13.18	177029.34 2850.79 33.19-	1.16	2862.00 33.45

SM 1.05

66.5	12974.86- 241.73- 17.52	12.49	2514.41- 31.02- 3.78	13.57	178450.44 2834.66 31.75-	1.19	2845.11 36.46
67.0	13088.44- 233.05- 7.19-	11.36	2526.67- 31.77- 11.24-	12.35	179864.00 2819.03 32.59-	1.08	2826.83 35.21
67.5	13207.91- 248.92- 13.51-	12.53	2546.18- 42.26- 4.14-	13.62	181269.46 2802.06 33.03-	1.18	2813.42 35.93
68.0	13337.37- 246.56- 7.82	13.28	2568.94- 35.91- 15.81	14.44	182666.07 2785.99 31.24-	1.24	2797.11 35.88
68.5	13454.47- 241.10- 5.20	13.81	2582.10- 26.45- 6.43	15.03	184055.47 2770.82 31.06-	1.29	2781.41 32.14
69.0	13578.48- 241.36- 2.43	13.45	2595.39- 29.48- 4.59-	14.63	185436.89 2754.93 31.94-	1.25	2765.64 32.36
69.5	13695.84- 238.66- 12.65-	11.17	2611.58- 31.04- 4.14-	12.15	186810.41 2738.87 32.91-	1.04	2749.43 35.50
70.0	13817.15- 254.02- 7.42-	13.00	2626.43- 33.62- 2.22	14.13	188175.76 2722.01 32.97-	1.20	2734.04 33.87
70.5	13949.86- 246.09- 27.31	9.56	2645.21- 28.82- 3.00	10.41	189532.42 2705.89 31.71-	.88	2717.21 41.95
71.0	14063.24- 226.71- 4.94	13.26	2655.25- 30.62- 26.78-	14.44	190881.66 2690.30 33.40-	1.21	2700.01 43.10
71.5	14176.57- 241.14- 28.50-	11.54	2675.83- 55.61- 1.47	12.56	192222.72 2672.49 33.88-	1.05	2683.92 44.30
72.0	14304.39- 255.21- .90	15.75	2710.86- 29.14- 46.79	17.14	193554.15 2656.41 29.29-	1.43	2668.80 55.21
72.5	14431.79- 240.24- 23.42	13.85	2704.97- 8.81- 18.59-	15.08	194879.14 2643.19 30.51-	1.25	2654.10 42.71
73.0	14544.63- 231.79- 5.02-	12.43	2719.68- 47.73- 37.99-	13.52	196197.35 2625.90 33.44-	1.12	2636.55 52.20
73.5	14663.58- 245.26- 5.30-	13.88	2752.71- 46.81- 13.85	15.11	197505.05 2607.75 32.25-	1.25	2619.67 35.49
74.0	14789.90- 237.09- 20.83	14.18	2766.49- 33.88- 3.59	15.45	198805.10 2593.65 32.28-	1.27	2604.69 38.58
74.5	14900.68- 224.43- 3.23	15.38	2786.59- 43.22- 4.24-	16.72	200098.71 2575.46 35.03-	1.37	2585.58 35.44
75.0	15014.33- 233.86- 17.36-	14.48	2809.72- 38.12- 10.67	15.76	201380.56 2558.61 30.55-	1.28	2569.56 36.73
75.5	15134.54- 241.80- 10.74-	13.70	2824.72- 32.55- 6.62	14.91	202657.32 2544.91 29.53-	1.22	2556.57 32.12
76.0	15256.13- 244.61- .08	14.14	2842.27- 31.50- .22	15.38	203925.47 2529.08 31.30-	1.25	2541.07 31.30
76.5	15379.15- 241.72- 2.11	15.03	2856.22- 32.32- .06	16.36	205186.40 2513.60 31.99-	1.32	2525.40 32.05
77.0	15497.85- 242.49- .02	14.51	2874.60- 31.43- 2.99	15.81	206439.08 2497.09 31.99-	1.28	2509.03 32.13

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77.5	15621.65- 241.69- 2.73	14.57	2887.65- 29.33- 4.14-	15.84	207683.49 2481.61 31.51-	1.28	2493.52 31.90
78.0	15739.55- 239.75- 10.56-	13.25	2903.93- 35.58- 7.67-	14.41	208920.69 2465.57 31.56-	1.16	2477.45 34.15
78.5	15861.40- 252.25- 12.70-	14.11	2923.24- 37.01- 12.87	15.39	210149.06 2450.04 29.99-	1.23	2463.27 35.02
79.0	15991.81- 252.45- 8.96	13.34	2940.94- 22.70- 15.57	14.51	211370.74 2435.57 31.94-	1.16	2448.73 36.64
79.5	16113.86- 243.29- 8.74	11.13	2945.94- 21.44- 9.90-	12.09	212584.64 2418.10 34.73-	.97	2430.40 37.15
80.0	16235.10- 243.70- 4.98-	12.05	2962.38- 32.60- 8.25-	13.09	213788.84 2400.84 33.18-	1.04	2413.40 34.55
80.5	16357.57- 248.28- 3.12-	12.24	2978.55- 29.69- 3.77	13.34	214985.48 2384.92 31.68-	1.06	2397.99 32.05
81.0	16483.39- 246.82- 11.21	13.11	2992.07- 28.83- .40-	14.25	216173.76 2369.16 31.58-	1.13	2382.15 33.51
81.5	16604.40- 237.07- 7.34	13.16	3007.39- 30.09- .37-	14.30	217354.65 2353.34 31.87-	1.14	2365.44 32.70
82.0	16720.46- 239.48- 7.00-	12.11	3022.17- 29.21- .55	13.16	218527.11 2337.28 31.70-	1.04	2349.70 32.47
82.5	16843.88- 244.08- 1.04-	11.22	3036.60- 29.53- 1.85-	12.21	219691.93 2321.63 31.34-	.97	2334.61 31.40
83.0	16964.54- 240.53- .40	12.56	3051.71- 31.06- 3.52-	13.66	220848.74 2305.94 32.30-	1.08	2318.66 32.49
83.5	17084.42- 243.67- 5.41-	12.92	3067.66- 33.06- 3.43	14.06	221997.88 2289.33 33.89-	1.11	2302.50 34.49
84.0	17208.21- 245.94- 6.45	13.50	3084.77- 27.63- 10.53	14.71	223138.07 2272.05 32.23-	1.15	2285.49 34.51
84.5	17330.36- 237.22- 10.11	13.87	3095.30- 22.52- 1.87-	15.10	224269.94 2257.10 30.65-	1.18	2269.64 32.33
85.0	17445.44- 235.83- 8.36-	14.23	3107.30- 29.50- 10.52-	15.48	225395.17 2241.40 32.95-	1.21	2253.97 35.59
85.5	17566.20- 245.58- 15.46-	15.37	3124.80- 33.05- 2.70	16.74	226511.34 2224.14 33.04-	1.31	2237.90 36.58
86.0	17691.02- 251.29- 6.42	13.01	3140.36- 26.80- 8.26	14.16	227619.32 2208.35 29.90-	1.11	2222.77 31.68
86.5	17817.49- 239.16- 17.63	15.95	3151.60- 24.78- .46-	17.37	228719.70 2194.23 30.04-	1.35	2207.37 34.83
87.0	17930.19- 233.66- 7.30-	14.68	3165.14- 27.26- 12.86-	16.00	229813.55 2178.31 34.02-	1.24	2190.98 37.09
87.5	18051.15- 246.46- 14.38-	13.36	3178.87- 37.64- 1.01-	14.55	230898.01 2160.21 33.32-	1.13	2174.55 36.30
88.0	18176.65- 248.04- 2.78	12.50	3202.79- 28.27- 18.51	13.59	231973.76 2144.99 29.10-	1.06	2159.46 34.60

SM: 1.05

88.5	18299.19- 243.68- 18.96	14.67	3207.14- 19.13- 3.35	15.94	233043.00 2131.10 30.25-	1.24	2145.07 35.85
89.0	18420.33- 229.07- 7.58	14.88	3221.93- 24.92- 13.95-	16.17	234104.87 2114.74 35.45-	1.26	2127.25 38.84
89.5	18528.27- 236.09- 24.28-	7.47	3232.07- 33.09- 6.52-	8.12	235157.74 2095.65 35.24-	.63	2109.17 43.29
90.0	18656.43- 253.36- 9.73-	10.19	3255.02- 31.45- 9.15	11.08	236200.52 2079.49 29.35-	.86	2095.10 32.25
90.5	18781.63- 245.82- 25.93	14.21	3263.52- 23.93- 4.85	15.45	237237.24 2066.30 29.08-	1.20	2081.01 39.27
91.0	18902.26- 227.42- 7.53	14.26	3278.95- 26.59- 9.49-	15.51	238266.83 2050.40 34.04-	1.20	2063.15 36.13
91.5	19009.06- 238.29- 29.01-	5.81	3290.12- 33.42- 7.31-	6.30	239287.64 2032.25 33.73-	.49	2046.45 45.08
92.0	19140.55- 256.43- 8.44-	11.35	3312.38- 33.91- 9.89	12.35	240299.08 2016.67 28.95-	.96	2033.19 31.73
92.5	19265.49- 246.73- 26.46	14.11	3324.03- 23.53- 10.72	15.36	241304.31 2003.30 29.32-	1.19	2018.58 40.93
93.0	19387.29- 229.96- 15.10	14.11	3335.91- 23.18- 13.08-	15.35	242302.39 1987.34 33.67-	1.19	2000.74 39.16
93.5	19495.46- 231.63- 18.18-	6.87	3347.21- 36.61- 9.46-	7.45	243291.66 1969.62 33.21-	.58	1983.54 39.03
94.0	19618.92- 248.15- 9.62-	9.49	3372.52- 32.65- 9.75	10.32	244272.01 1954.13 31.00-	.80	1970.09 33.89
94.5	19743.56- 241.32- 21.48	12.08	3379.85- 26.98- .00-	13.14	245245.87 1938.61 32.22-	1.01	1953.76 38.73
95.0	19860.15- 226.64- 2.86-	8.73	3399.38- 32.68- 19.44-	9.51	246210.72 1921.90 35.53-	.74	1935.49 40.60
95.5	19970.20- 244.18- 35.26-	8.64	3412.53- 46.43- 1.70-	9.39	247167.78 1903.08 33.93-	.73	1919.24 48.96
96.0	20104.34- 261.91- 1.54-	13.01	3445.82- 34.39- 36.24	14.16	248113.80 1887.96 26.21-	1.09	1906.35 44.76
96.5	20232.11- 245.73- 23.39	9.06	3446.92- 10.18- 6.95	9.86	249055.74 1876.86 29.30-	.77	1892.90 38.13
97.0	20350.08- 238.52- 7.77	11.96	3456.01- 27.43- 22.55-	13.00	249990.66 1858.66 35.70-	1.00	1874.10 42.94
97.5	20470.63- 237.96- 3.96-	11.90	3474.36- 32.74- 1.35	12.96	250914.40 1841.15 30.94-	1.00	1856.76 31.22
98.0	20588.04- 242.48- 3.92-	11.13	3488.75- 26.07- 7.63	12.09	251831.82 1827.71 28.77-	.94	1843.91 30.02
98.5	20713.12- 241.88- .87-	12.00	3500.43- 25.11- .98-	13.07	252742.12 1812.38 32.38-	1.01	1828.62 32.41
99.0	20829.92- 243.36- 3.70-	12.22	3513.86- 27.05- 1.67-	13.28	253644.20 1795.33 33.32-	1.03	1811.95 33.57

SM 1.05

99.5	20956.49- 245.58- 3.86	16.35	3527.49- 26.79- 1.95	17.80	254537.45 1779.05 31.02-	1.38	1796.13 31.32
100.0	21075.51- 239.50- 19.50	14.56	3540.65- 25.10- 6.92	15.87	255423.26 1764.30 28.91-	1.23	1780.66 35.55
100.5	21195.99- 226.08- 16.27	12.91	3552.59- 19.86- 1.56	14.04	256301.75 1750.14 31.58-	1.09	1764.79 35.55
101.0	21301.59- 223.23- 15.14-	13.13	3560.52- 23.54- 6.84-	14.29	257173.40 1732.72 36.10-	1.11	1747.20 39.74
101.5	21419.22- 241.22- 21.81-	13.42	3576.13- 26.71- 1.73-	14.61	258034.48 1714.03 33.31-	1.13	1731.13 39.85
102.0	21542.82- 245.04- .52	14.11	3587.23- 25.27- 3.51	15.36	258887.44 1699.40 29.12-	1.19	1717.17 29.33
102.5	21664.27- 240.70- 7.48	13.15	3601.41- 23.19- .83-	14.31	259733.89 1684.91 31.38-	1.11	1702.18 32.27
103.0	21783.53- 237.56- .72	14.97	3610.43- 26.11- 7.66-	16.27	260572.36 1668.02 34.24-	1.27	1685.05 35.09
103.5	21901.83- 239.98- 2.35-	13.45	3627.53- 30.85- .82-	14.64	261401.91 1650.67 31.82-	1.14	1668.31 31.92
104.0	22023.51- 239.92- 6.78-	14.15	3641.29- 26.93- 4.33	15.39	262223.04 1636.19 28.84-	1.20	1653.91 29.94
104.5	22141.76- 246.77- 8.77-	13.54	3654.46- 26.52- 4.81	14.72	263038.11 1621.83 29.21-	1.15	1640.71 30.88
105.0	22270.28- 248.69- 19.08	12.61	3667.82- 22.12- 14.05	13.71	263844.87 1606.97 30.02-	1.07	1626.25 38.25
105.5	22390.45- 227.69- 23.68	14.15	3676.50- 12.47- 14.43	15.37	264645.08 1591.80 33.19-	1.20	1608.05 43.25
106.0	22497.97- 225.01- 23.02-	10.98	3680.29- 7.69- 31.55-	11.95	265436.68 1573.78 36.71-	.94	1589.80 53.61
106.5	22615.47- 250.71- 16.18-	14.54	3684.28- 44.03- 34.78-	15.83	266218.87 1555.09 32.95-	1.23	1575.78 50.57
107.0	22748.69- 241.19- 17.48	12.53	3724.32- 42.47- 27.36	13.64	266991.77 1540.82 29.14-	1.07	1560.16 43.63
107.5	22856.66- 233.23- 6.41-	8.30	3726.75- 16.66- 14.07	9.04	267759.69 1525.94 32.56-	.71	1543.75 36.05
108.0	22981.92- 247.60- 11.44-	15.69	3740.99- 28.39- 17.13-	17.07	268517.71 1508.26 33.58-	1.34	1528.71 39.39
108.5	23104.27- 244.67- .38	13.35	3755.14- 33.80- 1.34	14.53	269257.95 1492.36 30.21-	1.14	1512.66 30.24
109.0	23226.60- 247.22- 6.20	12.61	3774.79- 27.03- 17.26	13.70	270010.08 1478.04 29.04-	1.08	1498.82 34.35
109.5	23351.49- 238.47- 12.50	14.00	3782.19- 16.53- 5.21	15.25	270746.00 1463.32 32.53-	1.20	1482.71 35.24
110.0	23465.07- 234.71- .31	12.65	3791.33- 21.83- 10.69-	13.79	271473.40 1445.51 34.25-	1.08	1464.60 35.88

SM 1.05

110.5	23586.21- 238.15- 6.44-	13.75	3804.02- 27.23- 5.43-	14.98	272191.51 1429.06 30.93-	1.18	1449.02 32.06
111.0	23703.22- 241.16- 11.79-	11.82	3818.56- 27.26- 4.42	12.87	272902.47 1414.57 29.37-	1.02	1435.24 31.95
111.5	23827.37- 249.95- 5.32	12.86	3831.29- 22.80- 5.61	13.97	273606.08 1399.69 31.62-	1.11	1422.01 32.55
112.0	23953.18- 235.83- 10.38	14.29	3841.37- 21.65- 6.70-	15.55	274302.16 1382.94 35.02-	1.23	1403.08 37.14
112.5	24063.20- 239.57- 9.85-	12.87	3852.95- 29.51- 5.32-	14.00	274989.03 1364.66 31.95-	1.11	1385.85 33.85
113.0	24192.75- 245.68- .31	15.87	3870.88- 26.98- 10.02	17.26	275666.83 1350.99 26.27-	1.37	1373.42 28.12
113.5	24308.89- 239.25- 9.07	14.14	3879.93- 19.48- 2.61	15.40	276340.03 1338.38 29.19-	1.22	1359.74 30.68
114.0	24432.01- 236.61- 2.44	15.26	3890.36- 24.36- 8.55-	16.60	277005.21 1321.80 35.07-	1.32	1343.03 36.18
114.5	24545.51- 236.81- 25.17-	11.93	3904.29- 28.03- 5.72	12.97	277661.83 1303.31 34.47-	1.03	1324.95 43.06
115.0	24668.82- 261.79- 9.39	13.39	3918.40- 18.63- 53.44	14.57	278308.53 1287.33 25.94-	1.16	1313.81 60.14
115.5	24807.30- 227.41- 53.00	13.65	3922.93- 25.40 39.09	14.86	278949.16 1277.37 26.20-	1.19	1297.70 70.88
116.0	24896.23- 208.79- 7.15-	13.75	3892.99- 20.46 47.35-	14.98	279585.90 1261.12 37.02-	1.20	1278.45 60.53
116.5	25016.09- 234.57- 31.77-	11.72	3902.47- 21.94- 43.92-	12.78	280210.29 1240.35 38.65-	1.02	1262.52 66.58
117.0	25130.80- 240.56- 7.95-	9.73	3914.94- 23.46- 1.20-	10.59	280826.25 1222.46 32.28-	.85	1246.13 33.27
117.5	25256.65- 242.52- 1.34	11.60	3925.93- 23.15- .82	12.63	281432.76 1208.06 27.22-	1.02	1232.38 27.26
118.0	25373.32- 239.21- 3.04	10.45	3938.09- 22.64- 2.10	11.35	282034.31 1195.24 28.75-	.91	1219.16 28.98
118.5	25495.87- 239.47- .05-	10.68	3948.57- 21.05- 2.66-	11.65	282628.01 1179.30 34.83-	.94	1203.56 34.93
119.0	25612.80- 239.27- 2.54	9.76	3959.14- 25.30- 13.66-	10.62	283213.62 1160.41 35.88-	.86	1185.09 38.48
119.5	25735.15- 236.93- 1.87-	11.93	3973.88- 34.71- 36.71-	12.99	283788.42 1143.42 32.68-	1.05	1168.22 49.18
120.0	25849.73- 241.14- 8.14-	12.45	3993.86- 62.02- 18.97-	13.54	284357.04 1127.73 28.75-	1.10	1154.89 35.39
120.5	25976.29- 245.08- 4.29	11.15	4035.91- 53.69- 39.97	12.13	284916.16 1114.66 26.39-	.98	1142.55 48.09
121.0	26094.81- 236.84- 15.72	11.14	4047.55- 22.04- 34.87	12.13	285471.71 1101.34 30.20-	.99	1126.74 48.74

SM 1.05

121.5	26213.13- 229.36- 6.35	11.45	4057.96- 18.81- 1.29-	12.48	286017.51 1084.46 32.15-	1.02	1108.61 32.79
122.0	26324.17- 230.49- 15.01-	11.06	4066.36- 23.34- 8.27-	12.03	286556.17 1069.19 33.22-	.98	1094.00 37.37
122.5	26443.62- 244.37- 17.65-	11.42	4081.30- 27.08- 1.97	12.44	287086.71 1051.24 36.18-	1.02	1079.61 40.30
123.0	26568.54- 248.14- .58-	11.75	4093.44- 21.37- 6.12	12.77	287607.42 1033.01 30.80-	1.04	1062.61 31.41
123.5	26691.77- 244.95- 8.96	12.37	4102.67- 20.95- 5.58-	13.46	288119.72 1020.43 24.54-	1.10	1049.63 26.71
124.0	26813.49- 239.18-	12.48	4114.39- 26.95-	13.58	288627.86 1008.47	1.12	1036.80
124.5	26930.95-	13.56	4129.63-	14.77	289128.20	1.22	

SM 2.06

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	34.96-	.54	.16	.43	315.01	1.86	
1.5	78.62- 86.69-	1.60	3.76- 23.70-	1.46	554.56 559.49	2.49	566.66
2.0	121.66- 98.19- 26.79-	.81	23.54- 44.90- 31.46-	.93	874.51 735.84 307.93	1.08	743.72 310.69
2.5	176.81- 113.49- 19.89-	.24	48.66- 55.16- 17.97-	.28	1290.40 867.42 183.77	.42	876.55 185.72
3.0	235.16- 118.08- 8.27-	.29	78.70- 62.88- 13.45-	.48	1741.93 919.62 83.73	.53	929.30 85.20
3.5	294.90- 121.76- 7.67-	.26	111.55- 68.61- 10.43-	.39	2210.02 951.15 62.74	.13	961.36 64.07
4.0	356.92- 125.76- 11.95-	.16	147.31- 73.32- 10.31-	.42	2693.08 982.36 60.57	.23	993.09 62.60
4.5	420.67- 133.72- 9.98-	.51	184.87- 78.92- 8.16-	.49	3192.39 1011.73 54.84	.36	1023.58 56.33
5.0	490.65- 135.75- 5.12-	.20	226.24- 81.48- 4.93	.18	3704.81 1037.20 54.79	.13	1049.22 55.25
5.5	556.42- 138.85- 11.74-	1.28	266.35- 73.99- 5.57	1.36	4229.60 1066.52 52.72	1.34	1078.07 54.29
6.0	629.50- 147.48- 11.71-	1.83	300.24- 75.91- 15.56-	1.82	4771.34 1089.92 39.77	1.60	1102.47 44.28
6.5	703.91- 150.56- 4.19-	2.91	342.26- 89.56- 20.92-	3.01	5319.52 1106.30 34.79	2.56	1120.08 40.81
7.0	780.07- 151.68- 4.07-	4.65	389.80- 96.83- 12.77-	4.83	5877.65 1124.72 36.55	3.94	1139.03 38.93
7.5	855.59- 154.63- 8.96-	4.51	439.09- 102.33- 5.86-	4.67	6444.25 1142.86 40.20	3.77	1157.80 41.60
8.0	934.70- 160.64- 4.18-	3.45	492.13- 102.69- .69	3.58	7020.51 1164.93 44.41	2.92	1180.43 44.61
8.5	1016.24- 158.82- 4.13	3.24	541.79- 101.63- 6.51-	3.41	7609.18 1187.27 43.00	2.59	1202.15 43.69
9.0	1093.52- 156.51- 6.90-	2.31	593.77- 109.21- 13.41-	2.41	8207.78 1207.93 43.97	1.72	1222.92 46.49
9.5	1172.75- 165.72- 18.32-	1.45	651.00- 115.05- 9.46-	1.47	8817.12 1231.25 46.77	.99	1247.66 51.12
10.0	1259.24- 174.83- 12.75-	2.40	708.82- 118.68- 9.28-	2.49	9439.03 1254.71 45.25	1.83	1272.38 47.92
10.5	1347.59- 178.48- 10.07-	3.15	769.69- 124.33- 9.37-	3.30	10071.84 1276.50 44.59	2.29	1294.90 46.66
11.0	1437.72- 184.91- 11.35-	2.95	833.15- 128.06- 2.96-	3.13	10715.53 1299.31 48.04	2.17	1318.63 49.45

SM 2.06

11.5	1532.50- 189.83- 5.83-	2.42	897.75- 127.29- 1.42-	2.59	11371.15 1324.54 51.09	1.76	1344.11 51.44
12.0	1627.56- 190.74- 2.31	2.13	960.45- 129.49- 10.87-	2.21	12040.07 1350.40 50.39	1.50	1369.93 51.60
12.5	1723.25- 187.52- 5.03-	2.22	1027.24- 138.17- 13.58-	2.32	12721.55 1374.94 50.70	1.47	1394.53 52.72
13.0	1815.08- 195.77- 21.71-	1.13	1098.62- 143.07- 8.49-	1.26	13415.01 1401.10 53.16	.64	1421.92 58.04
13.5	1919.03- 209.23- 16.79-	2.09	1170.32- 146.66- 10.66-	2.22	14122.65 1428.10 53.03	1.33	1450.78 56.64
14.0	2024.31- 212.57- 9.99-	2.32	1245.29- 153.73- 9.82-	2.45	14843.12 1454.13 52.43	1.58	1477.60 54.27
14.5	2131.60- 219.22- 13.25-	1.88	1324.05- 156.49- 1.70-	1.92	15576.78 1480.53 54.98	1.20	1504.83 56.58
15.0	2243.53- 225.83- 9.07-	1.22	1401.78- 155.44- 2.56-	1.29	16323.65 1509.11 58.32	.72	1533.82 59.08
15.5	2357.43- 228.29- 5.00-	1.81	1479.50- 159.05- 8.95-	1.96	17085.90 1538.86 59.59	1.02	1563.81 60.47
16.0	2471.83- 230.83- 8.91-	2.07	1560.84- 164.40- 12.01-	2.25	17862.52 1568.71 59.12	1.26	1594.11 60.98
16.5	2588.26- 237.20- 15.32-	3.62	1643.90- 171.07- 12.91-	3.84	18654.61 1597.98 57.82	2.24	1624.52 61.19
17.0	2709.04- 246.15- 15.87-	4.23	1731.91- 177.31- 10.24-	4.49	19460.50 1626.54 58.21	2.54	1654.58 61.20
17.5	2834.41- 253.08- 10.99-	4.96	1821.21- 181.31- 6.63-	5.31	20281.15 1656.20 61.29	2.96	1685.21 62.62
18.0	2962.12- 257.14- 7.23-	4.26	1913.22- 183.94- 8.52-	4.60	21116.71 1687.83 63.46	2.42	1717.19 64.43
18.5	3091.55- 260.31- 5.30-	4.77	2005.15- 189.84- 15.12-	5.21	21968.99 1719.66 63.10	2.68	1749.58 65.11
19.0	3222.43- 262.44- 11.46-	3.89	2103.07- 199.07- 15.04-	4.17	22836.37 1750.94 63.83	2.21	1781.66 66.57
19.5	3354.00- 271.77- 23.15-	3.25	2204.23- 204.88- 6.36-	3.48	23719.93 1783.50 66.82	1.78	1815.68 71.00
20.0	3494.21- 285.59- 21.93-	2.45	2307.95- 205.44- .46-	2.72	24619.87 1817.77 69.85	1.32	1851.50 73.21
20.5	3639.60- 293.71- 11.06-	3.46	2409.67- 205.34- 6.90-	3.71	25537.70 1853.35 71.07	1.77	1887.68 72.26
21.0	3787.92- 296.65- 7.57-	4.07	2513.29- 212.34- 21.32-	4.36	26473.23 1888.84 69.12	2.06	1923.75 72.73
21.5	3936.26- 301.28- 15.15-	3.48	2622.01- 226.66- 20.62-	3.78	27426.55 1922.47 69.78	1.70	1959.10 74.32
22.0	4089.20- 311.81- 22.71-	.26	2739.96- 232.96- .31-	.23	28395.70 1958.63 77.73	.07	1996.93 80.98

SM 2.06

22.5	4248.07- 323.99- 19.69-	.70	2854.98- 226.98- 5.62	.75	29385.18 2000.21 82.54	.37	2038.96 85.04
23.0	4413.20- 331.51- 9.17-	.82	2966.95- 227.33- 9.22-	.88	30395.92 2041.17 81.64	.38	2080.37 82.67
23.5	4579.59- 333.17- 8.09-	.56	3082.31- 236.20- 18.17-	.64	31426.35 2081.85 81.94	.20	2121.53 84.32
24.0	4746.37- 339.61- 22.31-	.32	3203.15- 245.50- 9.95-	.35	32477.78 2123.11 84.13	.18	2164.07 87.60
24.5	4919.20- 355.48- 28.42-	1.19	3327.82- 246.15- .41-	1.38	33549.47 2165.98 89.18	.56	2208.72 93.60
25.0	5101.86- 368.03- 16.74-	.22	3449.31- 245.91- 7.50-	.29	34643.77 2212.30 93.06	.13	2256.14 94.85
25.5	5287.23- 372.23- 10.54-	.15	3573.74- 253.65- 17.66-	.18	35761.77 2259.04 94.28	.06	2303.51 96.50
26.0	5474.09- 378.57- 21.72-	.34	3702.97- 263.58- 13.34-	.42	36902.81 2306.58 97.23	.18	2352.26 100.52
26.5	5665.81- 393.96- 29.47-	1.15	3837.33- 266.99- 5.56-	1.28	38068.36 2356.28 102.12	.55	2403.86 106.43
27.0	5868.05- 408.04- 19.47-	.40	3969.97- 269.15- 11.42-	.47	39259.10 2408.71 106.29	.24	2457.81 108.66
27.5	6073.86- 413.43- 16.09-	.52	4106.48- 278.42- 20.00-	.63	40477.08 2462.57 107.15	.26	2512.51 110.19
28.0	6281.49- 424.14- 27.95-	.75	4248.39- 289.16- 14.29-	.78	41721.67 2515.87 109.13	.36	2567.71 113.55
28.5	6498.00- 441.38- 27.77-	1.53	4395.65- 292.71- 6.96-	1.66	42992.95 2571.70 114.41	.67	2625.67 117.94
29.0	6722.87- 451.91- 17.99-	.94	4541.11- 296.12- 16.33-	1.01	44293.38 2630.29 117.34	.37	2685.21 119.83
29.5	6949.91- 459.37- 24.68-	1.17	4691.78- 309.05- 21.61-	1.32	45623.25 2689.04 119.25	.50	2745.45 123.69
30.0	7182.25- 476.59- 32.89-	1.84	4850.16- 317.74- 10.93-	2.04	46982.43 2749.55 124.18	.69	2808.58 128.93
30.5	7426.51- 492.26- 23.00-	1.37	5009.52- 319.98- 12.18-	1.57	48372.80 2813.23 128.80	.53	2873.84 131.40
31.0	7674.52- 499.60- 24.09-	2.18	5170.14- 329.92- 23.55-	2.41	49795.66 2878.35 129.98	.82	2939.96 134.27
31.5	7926.11- 516.36- 35.18-	2.07	5339.45- 343.54- 17.71-	2.31	51251.15 2943.21 132.98	.77	3007.84 138.69
32.0	8190.88- 534.78- 27.65-	2.06	5513.69- 347.64- 10.78-	2.32	52738.87 3011.34 139.35	.73	3078.15 142.47
32.5	8460.89- 544.01- 24.81-	2.78	5687.10- 354.33- 22.13-	3.04	54262.50 3082.56 142.87	.93	3150.19 146.69
33.0	8734.89- 559.59- 37.24-	2.66	5868.02- 369.77- 24.47-	2.94	55821.43 3154.21 145.23	.91	3224.74 151.92

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33.5	9020.49- 581.25- 34.00-	2.77	6056.87- 378.81- 16.02-	3.03	57416.72 3227.80 150.04	.94	3301.52 154.68
34.0	9316.15- 593.60- 27.42-	3.82	6246.83- 385.79- 21.71-	4.21	59049.23 3304.26 154.76	1.26	3379.25 158.66
34.5	9614.09- 608.68- 36.45-	3.47	6442.67- 400.52- 23.90-	3.87	60720.98 3382.56 159.63	1.13	3460.15 165.48
35.0	9924.84- 630.05- 35.52-	3.93	6647.35- 409.70- 16.23-	4.30	62431.80 3463.89 166.23	1.22	3544.48 170.75
35.5	10244.14- 644.20- 34.57-	4.14	6852.38- 416.75- 23.77-	4.58	64184.88 3548.79 169.66	1.29	3630.79 174.77
36.0	10569.04- 664.62- 46.43-	4.27	7064.11- 433.47- 31.83-	4.73	65980.60 3633.56 172.49	1.30	3719.19 181.44
36.5	10908.76- 690.63- 39.41-	4.40	7285.85- 448.59- 25.80-	4.82	67818.44 3721.29 180.62	1.31	3811.32 186.67
37.0	11259.68- 704.04- 31.48-	5.71	7512.71- 459.28- 23.72-	6.29	69701.89 3814.19 186.88	1.69	3905.72 191.00
37.5	11612.80- 722.12- 40.70-	5.45	7745.14- 472.31- 20.89-	6.00	71632.63 3908.17 190.67	1.56	4002.30 196.08
38.0	11981.80- 744.74- 39.68-	6.33	7985.02- 480.17- 22.19-	6.93	73610.07 4004.86 195.85	1.79	4101.72 201.05
38.5	12357.54- 761.81- 41.18-	6.31	8225.32- 494.51- 30.51-	6.90	75637.49 4104.02 199.32	1.77	4203.32 205.80
39.0	12743.61- 785.92- 43.17-	6.27	8479.53- 510.69- 23.61-	6.96	77714.09 4204.18 199.78	1.76	4307.39 205.75
39.5	13143.46- 804.98- 40.16-	7.33	8736.01- 518.12- 27.68-	8.08	79841.68 4303.81 190.21	2.02	4408.99 196.37
40.0	13548.59- 826.08- 39.24-	6.86	8997.66- 538.37- 28.65-	7.59	82017.90 4394.40 168.77	1.88	4503.67 175.62
40.5	13969.55- 844.22- 25.94-	7.20	9274.39- 546.78- 11.24-	8.04	84236.09 4472.58 141.37	1.94	4584.28 144.17
41.0	14392.82- 852.02- 25.06-	6.54	9544.44- 549.62- 19.29-	7.26	86490.49 4535.77 112.10	1.74	4647.72 116.47
41.5	14821.58- 869.29- 30.56-	6.84	9824.01- 566.08- 21.97-	7.55	88771.86 4584.68 93.20	1.81	4700.57 100.51
42.0	15262.11- 882.59- 22.66-	7.42	10110.52- 571.59- 12.18-	8.16	91075.17 4628.98 88.57	1.96	4746.91 92.23
42.5	15704.17- 891.95- 20.22-	7.55	10395.61- 578.26- 11.76-	8.21	93400.84 4673.25 83.38	1.93	4792.63 86.60
43.0	16154.07- 902.81- 14.97-	6.69	10688.78- 583.36- 4.66-	7.28	95748.43 4712.36 63.59	1.71	4833.40 65.50
43.5	16606.99- 906.93- 12.44-	7.44	10978.97- 582.92- 6.50-	8.15	98113.21 4736.85 29.44	1.90	4857.99 32.62
44.0	17061.00- 915.25- 9.91-	6.68	11271.70- 589.86- 9.09-	7.29	100485.29 4741.81 3.71-	1.68	4865.22 13.95

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44.5	17522.24- 916.84- 3.39-	8.27	11568.83- 592.01- 5.63-	9.11	102855.03 4733.13 26.25-	2.08	4857.33 27.06
45.0	17977.84- 918.64- 1.99-	8.62	11863.72- 595.50- 1.00	9.50	105218.42 4715.56 35.18-	2.16	4840.97 35.25
45.5	18440.89- 918.83- 7.60	7.62	12164.34- 591.01- 8.32	8.40	107570.59 4697.95 34.93-	1.92	4823.31 36.70
46.0	18896.67- 911.04- 6.60	9.30	12454.73- 587.18- 3.18	10.25	109916.38 4680.62 36.07-	2.32	4804.48 36.80
46.5	19351.94- 912.23- 1.39	8.49	12751.52- 587.82- 5.11	9.31	112251.21 4661.88 34.63-	2.09	4786.52 35.03
47.0	19808.91- 909.65- 2.06-	9.61	13042.55- 582.06- .77	10.58	114578.26 4645.99 35.59-	2.38	4769.86 35.66
47.5	20261.59- 914.30- 3.98-	7.73	13333.58- 587.04- 4.82-	8.55	116897.21 4626.28 37.78-	1.91	4752.17 38.29
48.0	20723.21- 913.63- 3.48	9.65	13629.59- 586.89- 4.98-	10.62	119204.55 4608.21 36.37-	2.37	4734.42 36.87
48.5	21175.23- 910.81- 3.35-	8.42	13920.47- 592.03- 5.35-	9.28	121505.43 4589.91 35.64-	2.06	4716.71 36.19
49.0	21634.02- 916.98- 6.38-	9.74	14221.62- 592.24- 2.86	10.76	123794.47 4572.57 34.92-	2.40	4701.07 35.61
49.5	22092.22- 917.20- 5.31	10.28	14512.72- 589.16- 8.08	11.33	126078.00 4554.99 35.04-	2.52	4683.62 36.34
50.0	22551.22- 911.67- 10.94	8.97	14810.79- 584.15- 7.59	9.91	128349.46 4537.53 33.23-	2.17	4664.93 35.80
50.5	23003.89- 906.25- 1.34-	10.37	15096.87- 581.57- 3.69-	11.32	130615.54 4521.75 34.45-	2.49	4648.20 34.67
51.0	23457.48- 913.01- 3.34-	8.51	15392.36- 587.85- .19-	9.36	132871.22 4503.08 33.19-	2.07	4632.16 33.35
51.5	23916.91- 909.59- .69	11.03	15684.72- 581.76- 2.97	12.13	135118.62 4488.56 32.83-	2.70	4616.60 32.97
52.0	24367.08- 912.32- .89-	9.10	15974.12- 584.87- 1.12	9.98	137359.78 4470.25 34.46-	2.20	4599.73 34.49
52.5	24829.24- 910.49- 12.39	11.40	16269.60- 580.63- 13.68	12.57	139588.88 4454.10 29.94-	2.77	4583.14 35.17
53.0	25277.57- 899.93- 4.94-	9.88	16554.76- 571.19- 4.97-	10.89	141813.89 4440.31 35.45-	2.39	4566.45 36.13
53.5	25729.17- 915.44- 22.51-	13.21	16840.80- 585.61- 28.74-	14.49	144029.19 4418.65 41.14-	3.21	4550.32 55.00
54.0	26193.01- 922.44- .33	12.61	17140.36- 599.93- 5.13	13.90	146232.54 4399.17 32.13-	3.07	4534.70 32.54
54.5	26651.61- 915.10- 19.13	11.71	17440.74- 580.47- 24.16	12.89	148428.37 4386.51 26.19-	2.82	4518.39 40.44
55.0	27108.11- 903.30- 9.71	12.56	17720.84- 575.77- 2.61-	13.84	150619.11 4372.97 31.37-	3.05	4502.26 32.94

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55.5	27554.92- 905.39- 4.23-	11.71	18016.51- 583.08- 1.19-	12.80	152801.39 4355.14 33.94-	2.83	4486.31 34.22
56.0	28013.51- 907.54- 9.73-	14.63	18303.92- 576.96- 5.00-	15.96	154974.25 4339.03 34.01-	3.51	4470.31 35.72
56.5	28462.47- 915.12- .36-	13.41	18593.47- 588.09- .68-	14.69	157140.42 4321.12 32.73-	3.23	4455.94 32.74
57.0	28928.64- 907.91- 15.50	14.11	18892.01- 577.64- 18.27	15.57	159295.37 4306.29 30.02-	3.45	4438.71 38.41
57.5	29370.39- 899.62- 6.46-	13.72	19171.11- 569.81- 4.79-	15.08	161446.72 4291.10 34.27-	3.32	4421.26 35.20
58.0	29828.26- 914.38- 9.43-	14.61	19461.83- 582.43- 11.84-	16.07	163586.47 4272.02 34.24-	3.54	4407.43 37.44
58.5	30284.77- 909.05- 4.74-	14.06	19753.55- 581.65- 5.52-	15.47	165718.74 4256.85 33.79-	3.41	4391.53 34.57
59.0	30737.31- 919.12- 1.43-	15.07	20043.48- 587.95- 1.14	16.63	167843.33 4238.22 32.56-	3.69	4376.41 32.61
59.5	31203.90- 910.48- 17.47	14.35	20341.51- 580.50- 15.46	15.69	169956.97 4224.29 27.88-	3.48	4360.11 36.35
60.0	31647.80- 901.65- 10.44-	14.43	20623.99- 572.49- 8.99-	15.78	172067.62 4210.34 35.42-	3.47	4343.69 38.01
60.5	32105.55- 920.93- 8.77-	14.03	20914.01- 589.49- 4.48-	15.49	174167.31 4188.86 34.55-	3.44	4329.22 35.92
61.0	32568.73- 910.42- 11.43	15.63	21213.48- 576.98- 15.34	17.17	176256.48 4175.79 28.12-	3.80	4312.66 34.01
61.5	33015.97- 909.49- 7.55-	15.78	21490.99- 574.15- 17.30-	17.38	178343.10 4160.73 35.45-	3.85	4297.50 40.16
62.0	33478.23- 917.98- 3.81	14.11	21787.64- 594.29- .70	15.39	180417.22 4140.34 31.66-	3.42	4282.32 31.90
62.5	33933.95- 905.68- 21.48	16.55	22085.28- 573.44- 31.56	18.09	182483.44 4129.06 24.00-	4.02	4265.94 45.10
63.0	34383.91- 896.49- .04-	14.18	22361.08- 562.72- 1.06-	15.56	184546.29 4116.33 32.76-	3.47	4250.24 32.78
63.5	34830.44- 905.73- 14.45-	15.23	22648.01- 574.50- 21.75-	16.73	186599.77 4096.30 38.23-	3.73	4234.39 46.30
64.0	35289.64- 910.95- 6.45	15.36	22935.58- 584.48- .44	16.83	188642.59 4078.09 29.51-	3.75	4219.28 30.21
64.5	35741.39- 899.27- 4.71-	14.79	23232.49- 574.06- 8.69	16.24	190677.87 4066.78 30.01-	3.65	4204.39 31.60
65.0	36188.91- 915.67- 22.12-	14.16	23509.65- 575.78- 18.96-	15.51	192709.37 4048.07 39.76-	3.48	4190.09 49.29
65.5	36657.06- 921.39- 9.47	13.99	23808.27- 593.02- 5.69	15.30	194725.95 4027.01 32.17-	3.41	4173.42 34.02
66.0	37110.31- 906.19- 13.46	13.68	24102.67- 570.08- 28.12	14.99	196736.39 4015.90 26.36-	3.35	4156.15 40.83

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66.5	37563.26- 907.93- 3.00-	12.32	24378.36- 564.90- 6.92-	13.51	198741.85 4000.65 33.12-	3.01	4141.09 33.97
67.0	38018.24- 909.19- 11.20-	14.45	24667.57- 577.01- 19.64-	15.88	200737.04 3982.77 37.27-	3.58	4125.78 43.60
67.5	38472.46- 919.13- 4.99-	13.92	24955.38- 584.55- 1.90-	15.25	202724.62 3963.37 33.31-	3.42	4110.33 33.74
68.0	38937.37- 914.18- 24.06	14.53	25252.12- 578.92- 22.14	16.02	204700.41 3949.45 22.35-	3.60	4095.00 39.61
68.5	39386.65- 895.06- 18.88	15.47	25534.30- 562.40- 11.57	16.96	206674.08 3941.01 26.34-	3.84	4080.32 34.41
69.0	39832.44- 895.30- 4.81-	12.63	25814.52- 567.34- 11.17-	13.86	208641.43 3923.11 36.78-	3.15	4063.77 38.74
69.5	40281.95- 899.88- 19.91-	15.09	26101.64- 573.57- 12.56-	16.41	210597.18 3904.23 38.14-	3.73	4047.44 44.82
70.0	40732.32- 915.21- 10.14-	12.82	26388.10- 579.91- 3.10	14.10	212545.66 3884.96 33.99-	3.21	4033.22 35.60
70.5	41197.17- 910.02- 12.40	13.17	26681.55- 570.47- 9.23	14.42	214482.15 3870.24 29.02-	3.29	4016.50 32.88
71.0	41642.34- 902.80- .37	14.68	26958.57- 570.68- 2.23-	16.02	216415.90 3855.93 30.92-	3.62	4001.12 31.00
71.5	42099.97- 909.64- .97	13.35	27252.24- 572.71- 6.41	14.69	218338.09 3839.31 30.74-	3.34	3986.95 31.42
72.0	42551.99- 901.83- 3.63-	14.92	27531.28- 564.26- 8.44-	16.38	220255.22 3825.19 34.31-	3.76	3970.36 35.52
72.5	43001.81- 913.28- 16.88-	13.64	27816.50- 581.15- 13.80-	14.93	222163.28 3805.00 35.57-	3.41	3955.98 41.72
73.0	43465.27- 918.72- 7.96	15.12	28112.44- 578.07- 3.27-	16.61	224060.22 3789.62 30.74-	3.82	3942.00 31.92
73.5	43920.53- 905.32- 2.55-	15.23	28394.57- 584.42- 7.45-	16.67	225952.90 3774.26 33.68-	3.81	3925.07 34.59
74.0	44370.59- 921.27- 16.34-	14.71	28696.86- 585.52- 18.55	16.06	227834.48 3755.93 33.58-	3.69	3911.34 41.70
74.5	44841.81- 921.66- 17.87	14.21	28980.09- 565.87- 16.77	15.54	229708.84 3740.67 29.40-	3.54	3893.88 38.27
75.0	45292.25- 903.40- 13.09	13.98	29262.74- 568.75- 5.16-	15.26	231575.15 3726.53 27.08-	3.53	3876.42 30.52
75.5	45745.21- 908.56- 2.66	12.21	29548.84- 571.03- 1.35-	13.46	233435.37 3713.58 30.73-	3.11	3865.52 30.87
76.0	46200.82- 900.73- 3.32	12.82	29833.77- 570.10- .97	14.01	235288.74 3695.80 34.93-	3.26	3846.46 35.10
76.5	46645.94- 905.24- 16.27-	12.06	30118.94- 570.05- 1.20	13.28	237131.17 3678.65 32.43-	3.07	3831.04 36.30
77.0	47106.06- 917.01- 3.25-	12.69	30403.82- 568.90- .13	13.88	238967.39 3663.36 32.72-	3.22	3819.00 32.88

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77.5	47562.96- 908.49- 13.90	13.40	30687.84- 569.91- 2.59-	14.72	240794.54 3645.93 30.26-	3.43	3800.39 33.41
78.0	48014.56- 903.11- 11.35-	12.40	30973.74- 571.49- 5.96	13.60	242613.32 3633.10 27.41-	3.16	3787.03 30.26
78.5	48466.07- 919.85- 8.29-	12.63	31259.33- 563.95- 3.39	13.84	244427.64 3618.51 32.79-	3.22	3775.95 33.99
79.0	48934.41- 911.40- 21.95	11.89	31537.69- 568.09- 9.17-	13.04	246231.84 3600.30 33.54-	3.07	3757.07 41.12
79.5	49377.48- 897.89- 2.77-	9.05	31827.43- 573.12- 2.53-	9.86	248027.94 3584.97 34.29-	2.31	3739.88 34.49
80.0	49832.30- 914.18- 9.67-	10.84	32110.82- 570.63- 3.03	11.87	249816.82 3566.01 34.16-	2.80	3725.29 35.63
80.5	50291.66- 907.57- 13.76	12.24	32398.06- 570.09- 7.00	13.49	251593.96 3550.81 26.55-	3.16	3709.03 30.71
81.0	50739.87- 900.41- 16.86-	10.18	32680.92- 563.62- 10.09	11.19	253367.63 3539.46 29.86-	2.63	3695.43 35.75
81.5	51192.07- 924.43- 13.71-	11.23	32961.68- 559.99- 8.41-	12.26	255133.42 3520.95 37.03-	2.91	3683.10 40.37
82.0	51664.31- 914.12- 30.61	11.98	33240.91- 572.03- 15.77-	13.05	256888.58 3502.43 31.92-	3.08	3664.68 46.95
82.5	52106.20- 893.82- 6.18	9.34	33533.71- 575.77- .01-	10.17	258635.85 3489.02 28.98-	2.39	3647.43 29.63
83.0	52558.14- 907.94- 12.92-	10.09	33816.69- 572.04- 10.22	11.02	260377.61 3473.45 30.37-	2.63	3635.44 34.55
83.5	53014.14- 906.75- 2.61	10.13	34105.76- 565.55- 10.58	11.14	262109.30 3458.64 29.82-	2.65	3619.98 31.75
84.0	53464.89- 905.33- 5.15	10.34	34382.24- 561.46- 6.24-	11.36	263836.26 3443.62 34.07-	2.70	3604.64 35.01
84.5	53919.47- 901.59- 6.37	9.75	34667.22- 571.79- 5.29-	10.63	265552.93 3424.58 35.68-	2.49	3587.14 36.63
85.0	54366.49- 898.95- 2.67-	8.91	34954.04- 566.75- 11.45	9.69	267260.84 3407.94 29.70-	2.29	3569.79 31.94
85.5	54818.43- 904.26- 6.99-	8.07	35233.98- 560.33- 2.96-	8.79	268960.88 3394.87 27.96-	2.08	3557.64 28.98
86.0	55270.75- 905.95- 2.17-	8.82	35514.37- 569.72- 8.68-	9.62	270655.71 3379.98 34.01-	2.30	3545.36 35.17
86.5	55724.38- 906.44- 3.03-	7.50	35803.70- 569.02- 6.10	8.28	272340.86 3360.86 34.17-	1.97	3527.15 34.84
87.0	56177.20- 908.98- 1.95	8.88	36083.40- 563.61- 8.27	9.69	274016.57 3345.80 25.82-	2.33	3512.59 27.18
87.5	56633.37- 904.49- 8.19	8.10	36367.32- 560.74- 5.30	8.85	275686.66 3335.03 28.93-	2.13	3500.71 30.53
88.0	57081.69- 900.79- 3.64-	8.01	36644.15- 558.31- 7.86-	8.74	277351.61 3316.87 37.06-	2.08	3482.06 38.06

SM 2.06

88.5	57534.16- 908.13- 14.56-	7.86	36925.63- 568.61- 17.70-	8.51	279003.54 3297.97 32.86-	2.05	3467.65 40.07
89.0	57989.83- 915.35- 30.40-	5.98	37212.76- 576.02- 28.73	6.64	280649.58 3284.01 24.94-	1.60	3457.51 48.70
89.5	58449.51- 938.54- 19.56-	4.30	37501.66- 539.88- 41.05	4.69	282287.55 3273.02 26.32-	1.11	3447.47 52.54
90.0	58928.37- 934.92- 28.80	3.62	37752.65- 534.96- 24.18-	3.95	283922.61 3257.68 35.26-	.96	3431.14 51.55
90.5	59384.43- 909.73- 32.68	3.81	38036.63- 564.06- 34.67-	4.24	285545.23 3237.76 37.14-	1.03	3410.12 60.41
91.0	59838.10- 902.23- 7.00	3.27	38316.72- 569.64- 2.86-	3.49	287160.38 3220.53 33.42-	.81	3392.69 34.26
91.5	60286.67- 902.73- 3.21-	3.70	38606.27- 566.93- 13.11	4.09	288765.77 3204.34 30.63-	1.00	3377.00 33.47
92.0	60740.83- 905.44- 3.99-	3.90	38883.65- 556.52- 4.09	4.28	290364.73 3189.90 31.09-	1.02	3362.29 31.61
92.5	61192.12- 906.72- 4.81-	3.60	39162.80- 562.84- 11.06-	3.83	291955.67 3173.25 33.71-	.90	3347.91 35.80
93.0	61647.56- 910.26- 1.65	3.91	39446.49- 567.59- 3.32	4.29	293537.98 3156.18 30.94-	1.06	3333.50 31.16
93.5	62102.38- 905.07- 7.74	2.37	39730.39- 559.52- 10.47	2.56	295111.86 3142.31 28.02-	.64	3317.58 30.90
94.0	62552.64- 902.52- 25.04	3.70	40006.01- 557.11- 21.90	4.03	296680.30 3128.15 21.89-	.99	3303.07 39.82
94.5	63004.90- 880.02- 15.17-	3.68	40287.50- 537.61- 14.86-	3.98	298240.01 3120.42 36.22-	.97	3286.41 41.99
95.0	63432.67- 917.69- .07-	5.16	40543.63- 571.98- 34.99-	5.63	299800.72 3091.93 38.75-	1.36	3275.57 52.21
95.5	63922.60- 880.10- 57.15	5.32	40859.48- 572.61- 24.68	5.76	301331.95 3081.67 19.91-	1.40	3255.63 65.35
96.0	64312.77- 860.54- 41.95-	4.86	41116.25- 547.30- 4.72	5.28	302882.39 3072.02 39.72-	1.28	3236.88 57.97
96.5	64783.14- 922.06- 44.08-	4.31	41406.78- 567.89- 10.87-	4.72	304403.98 3041.94 41.20-	1.15	3228.95 61.31
97.0	65234.83- 904.63- 19.11	4.13	41684.14- 558.17- 9.22	4.46	305924.34 3030.82 26.48-	1.09	3211.82 33.93
97.5	65687.78- 902.94- 2.44	4.55	41964.95- 558.67- .75-	4.90	307434.80 3015.46 30.60-	1.21	3196.94 30.70
98.0	66137.78- 902.19- 3.22-	4.14	42242.82- 558.92- 2.44-	4.45	308939.80 3000.22 33.03-	1.08	3182.40 33.28
98.5	66589.97- 906.17- 4.41-	4.74	42523.88- 561.11- 2.08-	5.25	310435.02 2982.42 33.59-	1.27	3167.15 33.95
99.0	67043.95- 906.60- .89-	5.23	42803.93- 561.01- 2.32-	5.78	311922.23 2966.62 32.13-	1.46	3152.38 32.23

SM 2.06

99.5	67496.58- 907.07- 2.41	5.18	43084.89- 563.44- 2.92	5.63	313401.65 2950.28 30.45-	1.39	3137.58 30.68
100.0	67951.03- 904.19- 11.86-	5.61	43367.37- 558.08- 29.34-	6.13	314872.51 2936.17 37.04-	1.55	3122.52 48.72
100.5	68400.77- 918.94- 16.38-	5.43	43642.98- 592.78- 77.50-	5.87	316337.82 2913.24 46.09-	1.47	3111.72 91.65
101.0	68869.97- 920.58- 15.73	3.83	43960.16- 635.59- 38.20-	4.24	317785.76 2890.07 36.15-	1.07	3099.02 54.90
101.5	69321.36- 903.20- 12.03	3.30	44278.57- 630.99- 14.37	3.59	319227.89 2877.08 28.84-	.89	3080.83 34.40
102.0	69773.17- 908.54- 6.61	1.84	44591.15- 621.21- 41.80	1.91	320662.84 2861.22 27.78-	.48	3065.61 50.62
102.5	70229.90- 896.59- 29.26	1.41	44899.79- 589.18- 65.80	1.59	322089.12 2849.30 19.58-	.36	3044.59 74.63
103.0	70669.76- 879.28- 6.31-	.23	45180.33- 555.41- 31.14	.28	323512.15 2841.64 26.09-	.06	3025.98 41.11
103.5	71109.19- 902.90- 28.77-	.36	45455.20- 558.04- 2.30-	.51	324930.76 2823.21 36.55-	.08	3016.15 46.57
104.0	71572.67- 908.05- 7.80	.65	45738.38- 557.71- 2.51	.74	326335.36 2805.08 28.45-	.19	3000.68 29.61
104.5	72017.25- 895.10- 15.32	1.15	46012.91- 555.52- 7.53	1.14	327735.85 2794.75 26.48-	.28	2986.71 31.51
105.0	72467.77- 892.73- .52	.29	46293.90- 550.18- 9.36	.29	329130.12 2778.60 33.28-	.04	2969.89 34.57
105.5	72909.98- 894.57- 21.34-	.81	46563.09- 546.16- 16.88-	.86	330514.45 2761.47 37.56-	.23	2953.69 46.38
106.0	73362.35- 914.07- 10.47-	.39	46840.06- 567.05- 34.13-	.32	331891.59 2741.03 36.97-	.07	2944.55 51.40
106.5	73824.05- 905.04- 5.81-	1.59	47130.15- 580.30- 19.57	1.73	333255.49 2724.49 29.59-	.43	2928.94 35.94
107.0	74267.39- 919.89- 63.09-	.61	47420.36- 547.48- 54.56	.68	334616.08 2711.44 34.59-	.18	2915.11 90.30
107.5	74743.94- 968.13- 28.84-	.66	47677.63- 525.74- 10.85	.70	335966.94 2689.89 32.51-	.21	2906.75 44.80
108.0	75235.53- 948.74- 76.29	1.04	47946.11- 536.63- 1.72	1.19	337305.98 2678.93 9.82-	.34	2892.19 76.94
108.5	75692.68- 891.84- 90.48	.91	48214.27- 524.01- 12.56	1.06	338645.88 2680.07 6.04-	.30	2872.76 91.55
109.0	76127.37- 858.25- 12.58	.43	48470.12- 524.06- 25.06-	.47	339986.06 2672.89 31.97-	.02	2855.80 42.52
109.5	76550.94- 879.25- 49.94-	.45	48738.33- 549.07- 36.28-	.43	341318.77 2648.10 49.88-	.11	2843.77 79.36
110.0	77006.63- 908.19- 26.29-	.24	49019.19- 560.34- 6.80-	.16	342634.16 2623.00 37.34-	.02	2831.78 46.17

SM 2.06

110.5	77459.14- 905.55- .22-	.86	49298.68- 555.87- 4.86-	.94	343941.78 2610.76 30.59-	.27	2818.70 30.98
111.0	77912.18- 908.42- 3.19-	.91	49575.07- 565.21- 13.97-	.99	345244.93 2592.40 38.53-	.20	2804.51 41.11
111.5	78367.56- 908.74- 1.00	.51	49863.89- 569.85- 6.22	.58	346534.19 2572.22 37.79-	.06	2786.91 38.31
112.0	78820.92- 907.42- 2.92	.72	50144.92- 558.99- 13.59	.66	347817.15 2554.61 35.40-	.17	2768.02 38.03
112.5	79274.99- 905.82- 1.36-	.49	50422.89- 556.25- 4.47-	.54	349088.80 2536.82 33.69-	.09	2750.52 34.01
113.0	79726.75- 908.78- 4.66-	.80	50701.18- 563.46- 9.46-	.88	350353.98 2520.92 31.11-	.19	2738.32 32.85
113.5	80183.77- 910.49- .22	2.04	50986.35- 565.71- 5.10	2.26	351609.72 2505.70 30.82-	.60	2725.36 31.24
114.0	80637.24- 908.56- 6.85	1.70	51266.89- 558.36- 10.86	1.80	352859.68 2490.09 32.64-	.44	2708.83 35.07
114.5	81092.33- 903.64- 6.06	2.47	51544.71- 554.85- 3.50	2.71	354099.81 2473.06 29.02-	.72	2690.81 29.85
115.0	81540.88- 902.50- 3.22-	1.46	51821.75- 554.85- 2.83-	1.63	355332.74 2461.06 25.85-	.40	2679.40 26.20
115.5	81994.83- 906.86- 5.13	2.23	52099.57- 557.68- 5.22	2.45	356560.88 2447.21 32.42-	.64	2668.75 33.23
116.0	82447.75- 897.36- 8.85	2.24	52379.44- 549.63- 8.73	2.31	357779.96 2428.64 32.36-	.59	2646.82 34.66
116.5	82892.20- 898.00- 7.34-	.56	52649.21- 548.95- 8.03-	.58	358989.52 2414.84 29.66-	.15	2634.24 31.60
117.0	83345.75- 904.71- 6.79-	.77	52928.40- 557.66- 4.92-	.90	360194.80 2398.98 35.46-	.23	2623.85 36.44
117.5	83796.91- 904.80- 1.41	.34	53206.87- 553.87- 4.09	.23	361388.50 2379.38 34.10-	.06	2605.17 34.37
118.0	84250.56- 903.30- 1.08-	1.70	53482.27- 553.57- 4.81-	1.92	362574.19 2364.87 32.35-	.50	2591.33 32.72
118.5	84700.21- 905.88- 5.44-	.65	53760.45- 558.68- 8.90-	.72	363753.38 2347.03 34.46-	.16	2577.07 36.00
119.0	85156.45- 908.74- 4.88	.73	54040.96- 562.48- 8.30	.81	364921.22 2330.41 28.99-	.24	2563.78 30.55
119.5	85608.95- 901.00- 3.82	1.49	54322.93- 550.37- 3.77	1.63	366083.79 2318.04 30.69-	.45	2547.16 31.16
120.0	86057.45- 904.92- .24	.97	54591.34- 558.70- 13.28-	1.02	367239.26 2299.71 32.24-	.24	2533.71 34.87
120.5	86513.87- 900.76- 1.16	.15	54881.63- 563.66- 17.11	.20	368383.50 2285.79 26.37-	.04	2520.70 31.45
121.0	86958.21- 903.75- 14.05-	.31	55155.00- 541.59- 20.72	.34	369525.06 2273.34 32.47-	.06	2505.62 41.00

SM 2.06

121.5	87417.62- 914.82- 3.11-	3.72	55423.23- 542.94- 6.24	4.04	370656.84 2253.31 35.90-	1.07	2491.81 36.57
122.0	87873.03- 906.86- 26.25	3.01	55697.95- 535.35- .94	3.28	371778.37 2237.43 27.25-	.86	2472.87 37.84
122.5	88324.49- 888.56- 21.39	2.17	55958.58- 541.99- 38.32-	2.43	372894.27 2226.06 33.81-	.67	2457.37 55.40
123.0	88761.60- 885.47- 7.89-	4.87	56239.94- 573.67- 23.89-	5.34	374004.44 2203.62 41.37-	1.47	2443.17 48.42
123.5	89209.95- 896.46- 8.22-	1.68	56532.25- 565.88- 38.32	1.79	375097.89 2184.69 26.37-	.48	2428.32 47.24
124.0	89658.06- 893.69- 11.20-	3.25	56805.83- 535.34- 12.99	3.56	376189.13 2177.24 27.86-	.97	2413.64 32.72
124.5	90103.65- 907.66- 18.11-	1.70	57067.59- 552.89- 29.97-	1.77	377275.14 2156.82 38.69-	.49	2404.46 52.19
125.0	90565.73- 911.81- 12.64	3.56	57358.72- 565.31- 10.63	3.96	378345.95 2138.54 28.76-	1.07	2392.56 33.16
125.5	91015.47- 895.02- 14.22	2.75	57632.91- 542.25- 19.05	2.96	379413.68 2128.06 25.33-	.83	2371.44 34.74
126.0	91460.74- 897.58- 11.13-	1.98	57900.98- 546.26- 15.76-	2.18	380474.02 2113.21 32.43-	.60	2360.03 37.73
126.5	91913.05- 906.15- 3.81-	1.42	58179.18- 558.02- 13.98-	1.44	381526.90 2095.63 34.61-	.40	2350.35 37.52
127.0	92366.90- 901.40- 10.70	1.17	58459.00- 560.24- 5.23	1.26	382569.65 2078.60 32.24-	.35	2333.87 34.36
127.5	92814.45- 895.45- 3.44-	.43	58739.42- 552.79- 7.01	.43	383605.50 2063.39 29.79-	.13	2316.24 30.79
128.0	93262.35- 904.85- 13.88-	.28	59011.79- 553.23- 4.99-	.34	384633.05 2048.81 29.84-	.10	2307.04 33.29
128.5	93719.30- 909.34- 2.58	1.68	59292.66- 557.78- 1.66	1.79	385654.31 2033.54 30.98-	.47	2296.37 31.13
129.0	94171.70- 902.26- 8.02	1.76	59569.58- 551.56- 5.36	1.87	386666.59 2017.82 32.46-	.53	2278.14 33.87
129.5	94621.57- 901.32- 8.95-	2.29	59844.23- 552.42- 4.94-	2.47	387672.13 2001.07 31.20-	.71	2263.15 32.83
130.0	95073.02- 911.22- 9.25	4.03	60122.00- 556.51- 14.61	4.32	388667.67 1986.62 18.65-	1.21	2255.36 25.44
130.5	95532.79- 892.07- 24.11	2.43	60400.74- 537.80- 18.22	2.65	389658.75 1982.42 23.31-	.74	2239.42 38.17
131.0	95965.09- 887.10- 22.56-	1.47	60659.81- 538.29- 24.37-	1.57	390650.09 1963.30 50.55-	.42	2220.64 60.49
131.5	96419.90- 914.64- 23.11-	2.43	60939.03- 562.18- 15.73-	2.73	391622.06 1931.86 42.36-	.76	2210.13 50.75
132.0	96879.73- 910.22- 12.41	3.37	61221.99- 554.02- 14.32	3.79	392581.96 1920.94 21.52-	1.06	2196.69 28.68

SM 2.06

132.5	97330.12- 902.22- 5.47	2.45	61493.06- 547.86- 1.01	2.66	393543.00 1910.33 29.98-	.73	2182.55 30.49
133.0	97781.96- 904.74- 1.64	2.86	61769.85- 553.01- .64	3.13	394492.29 1890.95 30.68-	.87	2167.97 30.73
133.5	98234.86- 900.57- 4.17	3.69	62046.07- 547.21- 4.98	3.96	395433.96 1879.65 23.17-	1.09	2154.89 24.06
134.0	98682.53- 900.56- .74-	4.73	62317.07- 548.03- 7.65-	5.17	396371.95 1867.78 30.23-	1.49	2144.75 31.18
134.5	99135.43- 901.32- 4.97	3.75	62594.10- 554.86- 4.84-	4.09	397301.75 1849.42 35.34-	1.16	2130.87 36.02
135.0	99583.86- 895.59- 8.42-	1.67	62871.94- 552.87- 1.67	1.85	398221.37 1832.44 37.68-	.49	2113.19 38.65
135.5	100031.02- 909.74- 17.91-	1.47	63146.98- 553.19- .23-	1.62	399134.19 1811.73 37.15-	.45	2101.44 41.25
136.0	100493.60- 913.51- 7.14	2.66	63425.13- 553.10- 4.58	2.94	400033.11 1795.28 27.65-	.81	2088.89 28.92
136.5	100944.53- 902.60- 9.70	1.84	63700.08- 548.61- 6.39	2.02	400929.47 1784.08 28.66-	.56	2073.31 30.93
137.0	101396.21- 903.81- 1.07-	2.45	63973.75- 546.71- 1.78	2.65	401817.19 1766.61 32.37-	.78	2058.32 32.43
137.5	101848.34- 903.67- .65-	3.08	64246.79- 546.83- .95-	3.32	402696.09 1751.71 30.39-	.94	2045.51 30.41
138.0	102299.89- 904.46- 3.33	4.41	64520.58- 547.66- 1.11-	4.82	403568.90 1736.21 31.06-	1.40	2032.84 31.25
138.5	102752.80- 900.34- 6.38	5.23	64794.46- 547.94- 3.05-	5.71	404432.30 1720.64 31.86-	1.70	2017.79 32.63
139.0	103200.23- 898.07-	3.99	65068.52- 550.72-	4.39	405289.55 1704.35	1.28	2003.66
139.5	103650.88-	1.87	65345.18-	2.01	406136.66	.55	

SM 1.07

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	19.01-	2.37	15.55-	2.78	351.21	7.70	
1.5	54.41- 91.89-	2.25	30.70- 38.98-	2.65	634.58 669.30	3.98	676.71
2.0	110.91- 120.84- 45.13-	1.08	54.53- 47.45- 8.70-	1.02	1020.52 864.46 317.54	1.34	874.15 320.85
2.5	175.25- 137.02- 27.89-	1.11	78.15- 47.69- 3.13-	1.01	1499.05 986.85 162.32	1.34	997.45 164.73
3.0	247.93- 148.73- 17.25-	.34	102.22- 50.58- 6.43-	.61	2007.37 1026.79 61.20	.59	1038.73 63.90
3.5	323.99- 154.27- 8.31-	.27	128.72- 54.12- 4.48-	.45	2525.84 1048.05 41.55	.39	1060.72 42.61
4.0	402.21- 157.04- 7.25-	.43	156.35- 55.06- 2.03-	.38	3055.42 1068.34 40.91	.29	1081.22 41.59
4.5	481.03- 161.52- 11.43-	.57	183.78- 56.16- 2.43-	.61	3594.18 1088.96 42.93	.67	1102.30 44.49
5.0	563.73- 168.48- 11.61-	.50	212.51- 57.49- 6.02-	.40	4144.38 1111.27 43.50	.53	1125.44 45.43
5.5	649.52- 173.14- 7.87-	.18	241.28- 62.19- 8.20-	.34	4705.46 1132.46 41.24	.21	1147.31 42.78
6.0	736.88- 176.36- 10.47-	.24	274.71- 65.70- 2.11-	.22	5276.85 1152.52 40.46	.26	1167.78 41.84
6.5	825.88- 183.62- 14.67-	.88	3.0699- 64.31- .49-	1.02	5857.98 1172.93 39.65	.93	1188.95 42.28
7.0	920.50- 191.03- 11.35-	.42	339.02- 66.19- 5.22-	.58	6449.78 1192.17 35.57	.47	1209.19 37.70
7.5	1016.91- 194.97- 9.26-	.42	373.18- 69.53- 2.98-	.59	7050.16 1208.50 34.04	.50	1226.10 35.40
8.0	1115.48- 200.29- 10.41-	.78	408.55- 69.18- .75-	.87	7658.28 1226.21 33.49	.81	1244.39 35.08
8.5	1217.21- 205.39- 3.50-	.27	442.37- 70.28- 2.98-	.30	8276.37 1242.00 27.64	.20	1260.83 28.02
9.0	1320.87- 203.80- 2.95-	.13	478.83- 72.17- 4.51-	.26	8900.29 1253.86 27.66	.15	1272.36 28.18
9.5	1421.01- 208.34- 19.55-	3.57	514.54- 74.79- 5.80-	3.90	9530.24 1269.66 33.38	2.85	1288.82 39.11
10.0	1529.22- 223.35- 17.04-	2.73	553.63- 77.97- 1.26-	2.94	10169.95 1287.24 30.50	2.18	1308.80 34.96
10.5	1644.36- 225.39- 1.16-	.84	592.51- 76.05- .05-	.98	10817.48 1300.17 25.27	.79	1321.75 25.30
11.0	1754.61- 224.52- 9.53-	2.71	629.68- 78.03- 3.30-	2.92	11470.12 1312.52 28.14	2.05	1333.87 29.89

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11.5	1868.88- 234.92- 11.04-	3.19	670.55- 79.35- 1.41-	3.45	12130.01 1328.31 28.18	2.30	1351.26 30.30
12.0	1989.54- 235.56- 1.50	.25	709.03- 79.44- 3.43-	.30	22798.44 1340.71 23.27	.14	1363.56 23.57
12.5	2104.44- 233.42- 10.26-	2.01	749.99- 82.78- 4.83-	2.15	13470.72 1351.59 25.49	1.54	1374.09 27.89
13.0	2222.96- 245.82- 20.30-	3.38	791.82- 84.28- 1.81-	3.57	14150.03 1366.20 27.08	2.42	1390.70 33.89
13.5	2350.27- 253.72- 4.85-	1.36	834.28- 84.60- 1.89	1.56	14836.93 1378.67 23.24	1.05	1404.37 23.82
14.0	2476.69- 250.67- .28-	1.45	876.42- 82.38- 1.79	1.52	15528.70 1389.45 24.39	1.00	1414.28 24.45
14.5	2600.95- 254.00- 8.23-	2.04	916.66- 82.80- 5.07-	2.12	16226.38 1403.06 25.52	1.37	1428.26 27.29
15.0	2730.69- 258.90- 6.35-	.61	959.22- 87.46- 5.40-	.63	16931.76 1414.97 21.78	.35	1441.12 23.32
15.5	2859.85- 260.35- 9.66-	.22	1004.12- 88.21- .40	.20	17641.35 1424.84 24.60	.09	1451.11 26.43
16.0	2991.05- 268.57- 15.50-	1.82	1047.44- 87.05- 1.89	2.00	18356.60 1439.58 29.39	1.22	1467.00 33.28
16.5	3128.42- 275.85- 7.41-	.94	1091.18- 86.31- .96	1.01	19080.93 1454.23 27.04	.48	1482.68 28.05
17.0	3266.91- 275.98- 2.83-	1.72	1133.75- 86.09- 2.80-	1.85	19810.84 1466.62 27.81	.92	1494.84 28.09
17.5	3404.40- 278.69- 7.47-	.94	1177.28- 89.12- .06-	.95	20547.55 1482.04 31.44	.53	1510.65 32.31
18.0	3545.60- 283.45- 11.50-	2.92	1222.88- 86.16- 2.17	3.14	21292.88 1498.06 29.78	1.50	1527.08 32.00
18.5	3687.86- 290.20- 13.76-	1.27	1263.44- 86.94- 3.16-	1.40	22045.62 1511.83 29.55	.60	1541.88 32.75
19.0	3835.80- 297.21- 8.28-	2.33	1309.82- 89.32- 1.93	2.51	22804.72 1527.61 32.00	1.12	1558.82 33.11
19.5	3985.07- 298.48- 5.69-	5.65	1352.77- 85.01- .26	6.08	23573.24 1543.83 31.40	2.83	1574.71 31.91
20.0	4134.28- 302.91- 12.73-	5.38	1394.83- 89.06- 11.51-	5.79	24348.55 1559.02 31.50	2.68	1590.67 35.87
20.5	4287.98- 311.21- 10.73-	6.36	1441.83- 96.52- 4.33-	6.90	25132.26 1575.33 37.15	3.12	1608.67 38.90
21.0	4445.49- 313.64- 7.40-	3.36	1491.35- 93.39- 4.41	3.64	25923.88 1596.17 43.78	1.56	1629.37 44.61
21.5	4601.62- 318.61- 9.72-	4.40	1535.23- 92.10- .18	4.88	26728.44 1619.11 43.60	2.02	1652.73 44.67
22.0	4764.10- 323.36- 5.96-	4.29	1583.46- 93.21- 4.20-	4.70	27542.99 1639.77 40.76	1.98	1673.95 41.40

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22.5	4924.99- 324.57- 6.28-	4.33	1628.44- 96.30- .30	4.60	28368.21 1659.87 42.01	2.01	1694.04 42.48
23.0	5088.68- 329.65- 11.95-	3.04	1679.76- 92.90- 8.84	3.22	29202.86 1681.79 45.56	1.33	1716.31 47.92
23.5	5254.64- 336.53- 12.37-	3.00	1721.35- 87.46- .77-	3.23	30050.00 1705.43 45.50	1.31	1740.52 47.15
24.0	5425.21- 342.02- 7.16-	4.67	1767.22- 93.68- 4.89-	5.06	30908.30 1727.29 45.65	2.00	1763.31 46.47
24.5	5596.67- 343.69- 8.26-	3.47	1815.03- 92.35- .71	3.80	31777.30 1751.09 48.55	1.45	1786.89 49.25
25.0	5768.91- 350.29- 13.36-	4.21	1859.58- 92.96- 3.26	4.53	32659.40 1775.84 50.62	1.70	1812.45 52.45
25.5	5946.96- 357.06- 11.33-	3.46	1908.00- 89.09- 3.07	3.79	33553.14 1801.71 53.05	1.37	1838.91 54.33
26.0	6125.97- 361.62- 9.68-	3.78	1948.67- 89.89- 4.49-	4.17	34461.11 1828.89 54.75	1.49	1866.47 55.78
26.5	6308.58- 366.74- 11.07-	3.75	1997.89- 93.58- 3.85-	4.18	35382.04 1856.47 56.73	1.43	1894.66 57.93
27.0	6492.71- 372.69- 14.22-	3.00	2042.26- 93.75- 3.52	3.22	36317.58 1885.63 59.79	1.10	1924.39 61.56
27.5	6681.28- 380.96- 14.42-	2.11	2091.65- 90.06- 3.66	2.28	37267.67 1916.26 62.34	.76	1955.84 64.09
28.0	6873.68- 387.11- 15.17-	2.62	2132.32- 90.09- 1.11-	2.78	38233.85 1947.97 64.33	.98	1988.11 66.10
28.5	7068.39- 396.14- 18.15-	2.31	2181.74- 91.17- .46-	2.55	39215.65 1980.59 66.10	.79	2021.87 68.55
29.0	7269.82- 405.27- 14.69-	3.76	2223.50- 90.55- .43	3.98	40214.44 2014.08 68.56	1.36	2056.44 70.12
29.5	7473.66- 410.84- 15.42-	3.60	2272.30- 90.74- 1.28	3.99	41229.74 2049.15 71.87	1.24	2091.90 73.51
30.0	7680.66- 420.70- 16.96-	3.73	2314.24- 89.27- 5.34-	4.01	42263.60 2085.95 73.40	1.30	2129.82 75.52
30.5	7894.36- 427.80- 15.13-	4.78	2361.57- 96.09- 5.28-	5.28	43315.69 2122.56 74.96	1.60	2167.37 76.65
31.0	8108.47- 435.83- 19.51-	3.66	2410.33- 94.55- .87	4.02	44386.16 2160.91 77.77	1.19	2206.45 80.19
31.5	8330.20- 447.31- 18.38-	4.46	2456.12- 95.21- 2.47-	4.86	45476.60 2200.33 79.46	1.42	2247.36 81.60
32.0	8555.78- 454.21- 19.35-	4.87	2505.55- 97.03- 2.40-	5.33	46586.50 2240.38 81.25	1.54	2288.01 83.56
32.5	8784.41- 466.66- 21.43-	4.28	2553.16- 97.61- 1.73-	4.63	47716.98 2281.59 85.90	1.32	2330.87 88.56
33.0	9022.45- 475.65- 17.84-	4.98	2603.17- 98.77- .82-	5.39	48868.09 2326.28 91.55	1.51	2376.47 93.28

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33.5	9260.07- 484.51- 24.00-	4.26	2651.93- 98.43- 1.72-	4.65	50043.27 2373.15 93.62	1.28	2424.10 96.66
34.0	9506.96- 499.65- 21.63-	4.73	2701.60- 100.49- 3.29-	5.29	51241.24 2419.90 94.68	1.41	2472.99 97.18
34.5	9759.72- 506.14- 19.26-	5.49	2752.43- 101.72- 2.17-	5.93	52463.18 2467.83 97.38	1.63	2521.26 99.29
35.0	10013.10- 518.91- 28.49-	4.19	2803.33- 102.67- .35	4.62	53709.08 2517.29 103.35	1.19	2572.27 107.20
35.5	10278.64- 534.63- 24.92-	4.27	2855.10- 101.36- 2.09-	4.56	54980.47 2571.18 107.48	1.20	2628.13 110.35
36.0	10547.74- 543.84- 22.04-	5.05	2904.70- 104.77- 6.82-	5.48	56280.27 2624.77 105.88	1.40	2682.57 108.36
36.5	10822.48- 556.67- 23.55-	5.13	2959.87- 108.20- 2.77-	5.66	57605.25 2677.07 106.43	1.42	2736.47 109.04
37.0	11104.11- 567.39- 25.71-	4.06	3012.90- 107.54- .38-	4.47	58957.34 2731.20 110.66	1.10	2791.59 113.61
37.5	11389.87- 582.38- 31.61-	5.07	3067.41- 108.58- 1.60-	5.49	60336.45 2787.73 116.31	1.36	2849.98 120.54
38.0	11686.79- 599.00- 26.20-	4.86	3121.48- 109.14- 2.01-	5.23	61745.07 2847.51 121.14	1.27	2911.88 123.96
38.5	11988.87- 608.58- 26.69-	5.58	3176.55- 110.59- 3.36-	6.11	63183.96 2908.87 119.45	1.44	2973.90 122.44
39.0	12295.37- 624.69- 30.34-	4.83	3232.07- 112.50- .36	5.35	64653.94 2966.96 115.05	1.24	3034.10 118.99
39.5	12613.57- 638.92- 26.59-	4.48	3289.05- 110.22- 2.07	4.93	66150.92 3023.92 113.74	1.14	3092.65 116.82
40.0	12934.29- 651.29- 23.69-	4.83	3342.29- 110.43- .62-	5.32	67677.86 3080.70 107.12	1.20	3150.73 109.71
40.5	13264.86- 662.62- 20.47-	4.73	3399.48- 110.85- 4.74-	5.17	69231.63 3131.05 85.83	1.16	3202.32 88.37
41.0	13596.91- 671.76- 20.45-	5.26	3453.15- 115.17- 6.09-	5.81	70808.92 3166.54 62.20	1.27	3239.06 65.75
41.5	13936.63- 683.07- 17.17-	5.61	3514.65- 116.94- .03	6.21	72398.17 3193.25 59.19	1.36	3267.58 61.63
42.0	14279.99- 688.94- 17.24-	5.56	3570.09- 115.13- 1.73	6.17	74002.17 3225.73 73.48	1.32	3300.49 75.49
42.5	14625.57- 700.32- 24.70-	5.72	3629.78- 115.21- .85-	6.31	75623.90 3266.73 92.81	1.33	3342.94 96.04
43.0	14980.31- 713.64- 27.26-	5.44	3685.30- 115.99- 1.09-	6.00	77268.90 3318.55 104.23	1.25	3396.39 107.74
43.5	15339.22- 727.58- 22.72-	6.16	3745.77- 116.30- .44-	6.74	78942.46 3370.96 89.15	1.39	3450.55 92.01
44.0	15707.89- 736.37- 13.24-	5.21	3801.60- 116.43- .52	5.73	80639.87 3407.70 45.34	1.18	3488.30 47.24

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44.5	16075.59- 740.82- 5.58-	5.55	3862.21- 115.77- .80	6.17	82350.16 3416.31 4.99-	1.24	3497.63 7.52
45.0	16448.72- 741.95- .81	5.57	3917.38- 115.63- .48-	6.16	84056.19 3402.71 34.21-	1.26	3484.58 34.22
45.5	16817.54- 740.01- 1.43	4.85	3977.85- 116.26- 1.20	5.36	85752.88 3382.09 42.19-	1.05	3464.06 42.23
46.0	17188.73- 740.51- .50	5.34	4033.65- 114.43- .72-	5.84	87438.29 3360.51 43.40-	1.16	3443.04 43.41
46.5	17558.06- 739.51- 3.31	5.22	4092.28- 116.98- 1.79-	5.74	89113.39 3338.69 42.99-	1.14	3421.61 43.15
47.0	17928.24- 737.20- 5.74	5.33	4150.63- 116.22- .74-	5.83	90776.98 3317.52 40.71-	1.17	3400.43 41.12
47.5	18295.27- 733.76- 1.11	5.97	4208.50- 117.73- 1.07-	6.52	92430.92 3297.98 39.63-	1.26	3380.67 39.66
48.0	18662.00- 736.09- 1.50-	5.97	4268.37- 117.30- 4.44	6.59	94074.96 3277.89 39.61-	1.28	3361.57 39.89
48.5	19031.36- 735.27- 3.99	6.24	4325.80- 113.29- 2.94	6.84	95708.81 3258.36 39.48-	1.34	3342.21 39.79
49.0	19397.28- 732.10- 1.05	5.50	4381.66- 114.36- 1.73-	6.08	97333.33 3238.40 39.99-	1.19	3322.09 40.04
49.5	19763.47- 734.22- 1.81-	5.91	4440.16- 115.03- .90	6.53	98947.21 3218.37 38.56-	1.26	3303.06 38.61
50.0	20131.49- 733.91- 2.80	5.38	4496.70- 113.45- 1.01	5.91	100551.70 3199.84 36.69-	1.14	3284.88 36.81
50.5	20497.38- 731.41- 3.51	5.69	4553.62- 114.02- 1.79-	6.31	102147.05 3181.67 36.65-	1.21	3266.65 36.86
51.0	20862.91- 730.40- .76	6.45	4610.72- 115.25- .90-	7.03	103733.37 3163.18 36.77-	1.35	3248.46 36.79
51.5	21227.79- 730.65- 1.26	6.22	4668.88- 114.92- 1.10	6.88	105310.24 3144.89 36.01-	1.31	3230.70 36.05
52.0	21593.56- 729.14- 1.56	7.11	4725.64- 114.15- 2.41-	7.81	106878.27 3127.17 36.31-	1.50	3213.07 36.42
52.5	21956.93- 729.08- 1.35-	5.97	4783.03- 117.33- .06-	6.47	108437.41 3108.58 36.72-	1.22	3195.09 36.74
53.0	22322.65- 730.49- .63-	5.90	4842.97- 114.21- 3.81	6.50	109986.86 3090.44 35.08-	1.23	3177.66 35.29
53.5	22687.43- 729.72- 1.21-	6.14	4897.24- 113.52- 2.21	6.77	111527.85 3073.49 34.18-	1.26	3160.97 34.27
54.0	23052.37- 731.71- 3.25	6.51	4956.49- 112.00- 3.78	7.23	113060.36 3056.26 33.59-	1.36	3144.63 33.96
54.5	23419.15- 726.46- 3.72	5.36	5009.25- 109.73- .13-	5.87	114584.12 3039.90 33.38-	1.11	3127.42 33.58
55.0	23778.83- 727.99- 4.37-	6.63	5066.23- 112.13- 3.08-	7.24	116100.26 3022.88 34.83-	1.35	3111.33 35.24

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55.5	24147.13- 730.83- 2.18-	6.85	5121.39- 112.81- 3.39-	7.55	117607.01 3005.07 35.22-	1.40	3094.72 35.45
56.0	24509.66- 730.17- 4.30	6.92	5179.05- 115.52- .88	7.67	119105.34 2987.66 33.37-	1.42	3077.75 33.66
56.5	24877.30- 726.53- 7.93	6.55	5236.91- 111.93- 1.77	7.19	120594.67 2971.69 31.92-	1.35	3061.26 32.94
57.0	25236.20- 722.23- .33-	6.89	5290.98- 113.75- .36	7.53	122077.03 2955.73 33.16-	1.43	3044.81 33.16
57.5	25599.54- 726.86- 5.09-	7.24	5350.66- 111.57- 3.86	7.99	123550.40 2938.53 33.56-	1.49	3029.14 34.16
58.0	25963.06- 727.32- 6.80-	7.32	5402.56- 109.88- 1.55-	8.10	125015.56 2922.16 33.86-	1.52	3013.32 34.57
58.5	26326.86- 733.67- .32-	7.22	5460.55- 113.13- 1.45-	8.01	126472.56 2904.66 33.91-	1.49	2998.02 33.94
59.0	26696.74- 727.64- 5.28	5.55	5515.69- 111.34- .96	5.96	127920.23 2888.25 33.54-	1.11	2980.57 33.96
59.5	27054.50- 728.39- 2.57	7.54	5571.89- 112.16- 3.09	8.34	129360.81 2871.12 32.23-	1.57	2964.19 32.47
60.0	27425.13- 725.06- 10.29	6.33	5627.85- 108.25- 6.35-	6.89	130791.35 2856.02 30.80-	1.29	2948.60 33.08
60.5	27779.56- 718.10- 2.91-	6.40	5680.14- 118.51- 8.04-	7.11	132216.83 2840.32 34.05-	1.32	2932.08 35.10
61.0	28143.23- 727.97- 12.69-	5.81	5746.37- 116.29- 10.80	6.32	133631.67 2821.96 34.94-	1.21	2916.67 38.71
61.5	28507.54- 730.79- 4.64-	6.39	5796.43- 107.70- 5.20	7.00	135038.80 2805.37 32.56-	1.31	2901.00 33.29
62.0	28874.02- 732.61- 4.06	5.33	5854.08- 111.09- 1.38-	5.86	136437.05 2789.40 31.35-	1.12	2886.15 31.64
62.5	29240.16- 726.72- 11.00	6.28	5907.52- 109.08- .63	6.87	137828.21 2774.02 31.27-	1.28	2869.71 33.16
63.0	29600.75- 721.60- 5.28	6.59	5963.16- 110.45- .55-	7.25	139211.08 2758.13 31.45-	1.36	2853.10 31.90
63.5	29961.76- 721.44- 3.30-	6.70	6017.98- 109.63- .23-	7.30	140586.34 2742.57 32.09-	1.37	2837.99 32.26
64.0	30322.19- 724.90- 4.40-	7.56	6072.80- 110.69- 1.61-	8.35	141953.65 2726.04 33.11-	1.57	2822.94 33.44
64.5	30686.67- 725.85- 1.09-	5.41	6128.67- 111.25- .46	6.00	143312.38 2709.45 32.54-	1.13	2807.20 32.56
65.0	31048.05- 726.00- 2.39-	6.39	6184.05- 110.23- 1.30-	6.96	144663.10 2693.50 32.23-	1.34	2791.80 32.34
65500.0	31412.67- 728.24- .23	6.51	6238.90- 112.55- .79-	7.09	146005.88 2677.22 32.12-	1.36	2776.78 32.13
66.0	31776.29- 725.76- 3.21	7.06	6296.61- 111.02- 3.85	7.74	147340.33 2661.37 31.44-	1.50	2760.79 31.83

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66.5	32138.43- 725.02- 2.10-	6.47	6349.93- 108.70- 2.89	7.04	148667.26 2645.78 31.83-	1.36	2745.47 32.02
67.0	32501.32- 727.86- 4.81-	6.51	6405.31- 108.13- .21-	7.14	149986.11 2629.54 33.15-	1.36	2730.56 33.50
67.5	32866.30- 729.84- .01	5.86	6458.06- 108.92- 4.14-	6.49	151296.80 2612.62 32.94-	1.25	2714.83 33.20
68.0	33231.16- 727.85- 6.83	5.24	6514.23- 112.28- .26-	5.86	152598.73 2596.60 30.57-	1.12	2699.02 31.32
68.5	33594.15- 723.01- 8.89	4.81	6570.35- 109.18- 5.30	5.24	153893.41 2582.05 29.50-	1.00	2683.59 31.26
69.0	33954.17- 718.96- 1.68	5.73	6623.42- 106.98- 2.67-	6.28	155180.78 2567.10 31.86-	1.20	2668.02 32.01
69.5	34313.11- 721.32- 5.11-	7.85	6677.33- 111.86- 5.96-	8.58	156460.51 2550.18 32.79-	1.65	2652.60 33.71
70.0	34675.50- 724.07- 1.28-	7.57	6735.28- 112.94- .70	8.38	157730.97 2534.31 31.86-	1.61	2638.14 31.89
70.5	35037.19- 722.61- 1.80-	7.66	6790.27- 111.16- 5.91	8.46	158994.82 2518.32 33.74-	1.64	2622.30 34.30
71.0	35398.11- 725.87- 5.62-	9.43	6846.44- 107.02- 6.76	10.37	160249.29 2500.57 33.47-	1.99	2605.99 34.61
71.5	35763.06- 728.23- 2.11	7.11	6897.30- 104.39- 1.69-	7.75	161495.39 2484.84 31.61-	1.50	2591.46 31.73
72.0	36126.35- 723.76- 7.23	7.18	6950.84- 108.71- 4.96-	7.88	162734.14 2468.95 31.24-	1.51	2575.14 32.45
72.5	36486.83- 721.00- 5.22-	9.32	7006.01- 109.36- 2.41	10.26	163964.35 2453.60 31.61-	1.98	2559.67 32.13
73.0	36847.35- 728.99- 9.75-	8.84	7060.21- 106.30- 5.36	9.70	165187.74 2437.33 33.40-	1.90	2546.24 33.21
73.5	37215.82- 730.75- 3.60	5.99	7112.32- 103.99- 2.67-	6.61	166401.68 2420.19 32.61-	1.29	2530.24 32.92
74.0	37578.10- 725.38- 6.56	5.53	7164.21- 108.98- 5.76-	5.99	167607.93 2404.72 30.82-	1.17	2514.11 32.04
74.5	37941.21- 724.18- 5.52	5.71	7221.30- 109.76- 3.51	6.20	168806.41 2389.36 30.17-	1.23	2499.11 30.87
75.0	38302.29- 719.86- 3.31	7.87	7273.97- 105.46- 2.92	8.75	169997.30 2374.54 30.74-	1.71	2483.50 31.05
75.5	38661.07- 720.87- 2.95-	8.94	7326.77- 106.83- 1.15-	9.79	171180.95 2358.62 32.05-	1.94	2468.64 32.20
76.0	39023.17- 722.81- 1.33-	7.42	7380.81- 106.61- 1.19-	8.26	172355.93 2342.49 32.65-	1.62	2453.79 32.70
76.5	39383.89- 722.20- 1.39-	6.45	7433.39- 108.03- 1.08	7.02	173523.45 2325.97 32.64-	1.41	2437.91 32.69
77.0	39745.38- 724.21- 4.09	7.11	7488.84- 105.53- 5.21	7.90	174681.90 2309.85 29.57-	1.56	2423.02 30.30

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77.5	40108.10- 718.11- 2.35	7.34	7538.92- 102.81- 7.13-	8.04	175833.31 2296.40 31.69-	1.62	2408.26 32.56
78.0	40463.49- 721.86- 8.31-	9.71	7591.66- 112.66- 10.47-	10.72	176978.31 2278.16 34.51-	2.14	2392.44 37.00
78.5	40829.96- 726.42- 1.86-	8.51	7651.58- 113.29- 2.20	9.25	178111.47 2261.89 31.74-	1.85	2378.37 31.87
79.0	41189.92- 723.72- 11.60-	8.46	7704.95- 110.46- 11.62-	9.27	179240.20 2246.41 35.84-	1.88	2362.70 39.43
79.5	41553.69- 738.03- 11.88-	6.55	7762.05- 124.92- 15.02-	7.18	180357.89 2226.04 38.32-	1.47	2348.52 42.84
80.0	41927.95- 735.61- 21.02	6.19	7829.87- 125.49- 17.65	6.86	181466.24 2208.09 30.40-	1.36	2330.78 40.96
80.5	42289.30- 717.00- 16.78	6.17	7887.54- 107.26- 19.57	6.87	182565.98 2195.64 25.35-	1.39	2312.23 36.15
81.0	42644.96- 718.83- 12.38-	4.90	7937.14- 105.91- 1.58	5.30	183661.88 2182.74 31.46-	1.09	2300.49 33.85
81.5	43008.13- 729.39- 5.00-	5.49	7993.46- 105.68- 5.84	6.07	184748.72 2164.17 33.20-	1.25	2286.22 34.08
82.0	43374.35- 723.83- 7.15	5.74	8042.83- 100.07- 2.20-	6.26	185826.06 2149.53 29.69-	1.28	2270.34 30.61
82.5	43731.97- 722.23- .11	5.82	8093.53- 107.89- 4.17-	6.49	186898.26 2134.48 31.27-	1.33	2255.94 31.55
83.0	44096.59- 723.71- .11-	6.19	8150.72- 104.24- 4.10	6.84	187960.54 2118.26 32.09-	1.40	2240.90 32.35
83.5	44455.68- 722.34- 7.53-	5.66	8197.78- 103.79- 5.26-	6.21	189016.52 2102.39 33.68-	1.28	2225.44 34.91
84.0	44818.93- 731.25- 2.45	4.73	8254.51- 109.51- 3.74	5.24	190062.93 2084.58 31.42-	1.07	2211.83 31.74
84.5	45186.94- 719.89- 14.80	5.20	8307.29- 100.04- 5.56	5.66	191101.10 2070.96 30.18-	1.16	2194.80 34.07
85.0	45538.83- 716.45- 7.81-	7.20	8354.56- 103.94- 11.05-	7.89	192133.90 2054.39 35.17-	1.66	2178.22 37.68
85.5	45903.39- 727.71- 7.09-	6.46	8411.23- 111.10- 2.04-	7.12	193155.50 2035.79 32.80-	1.48	2164.79 33.62
86.0	46266.54- 723.55- 9.56	4.63	8465.66- 105.99- 7.37	5.18	194169.69 2021.59 28.71-	1.08	2149.79 31.14
86.5	46626.94- 718.14- 2.23	5.76	8517.23- 103.72- 1.16-	6.38	195177.09 2007.08 31.38-	1.34	2134.21 31.48
87.0	46984.69- 721.31- 7.42-	6.05	8569.38- 107.15- 1.63-	6.71	196176.77 1990.21 33.61-	1.39	2119.60 34.46
87.5	47348.25- 725.57- 3.67	5.98	8624.39- 105.36- 4.65	6.50	197167.31 1973.46 30.70-	1.39	2105.25 31.26
88.0	47710.26- 717.64- 10.42	5.02	8674.75- 102.50- 1.40-	5.56	198150.23 1959.51 29.57-	1.17	2089.30 31.39

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88.5	48065.90- 715.14- 8.05-	7.60	8726.89- 106.76- 6.56-	8.37	199126.82 1943.88 33.56-	1.76	2074.01 35.13
89.0	48425.41- 725.69- 11.99-	7.67	8781.51- 109.07- 1.80	8.38	200094.12 1925.94 33.87-	1.80	2061.01 35.97
89.5	48791.59- 727.14- 9.96	5.06	8835.96- 104.96- 7.92	5.59	201052.77 1910.01 30.00-	1.19	2046.43 32.59
90.0	49152.55- 715.72- 11.66	4.66	8886.48- 101.14- .10	5.15	202004.13 1895.94 29.67-	1.10	2029.06 31.88
90.5	49507.31- 715.47- 7.07-	5.90	8937.11- 104.85- 3.38-	6.49	202948.71 1880.33 33.78-	1.39	2014.58 34.67
91.0	49868.03- 722.80- 4.14-	7.04	8991.34- 104.53- .25	7.72	203884.46 1862.16 34.36-	1.67	2000.25 34.61
91.5	50230.11- 719.62- 5.80	4.91	9041.64- 104.60- 2.12-	5.34	204810.87 1845.96 29.97-	1.14	1984.03 30.60
92.0	50587.65- 716.99- .92-	6.70	9095.94- 106.66- .05	7.37	205730.43 1832.18 30.61-	1.60	1970.37 30.62
92.5	50947.11- 720.54- 6.19-	8.34	9148.30- 104.55- 3.45	9.10	206643.06 1815.35 33.97-	1.98	1955.92 34.70
93.0	51308.20- 723.19- 3.92-	6.37	9200.49- 103.20- .48	6.94	207545.79 1798.21 31.72-	1.51	1940.94 31.96
93.5	51670.30- 724.47- 4.62	5.72	9251.51- 104.07- .16-	6.32	208441.28 1783.63 30.42-	1.36	1927.95 30.77
94.0	52032.67- 718.56- 6.52	6.96	9304.56- 103.37- .33-	7.61	209329.42 1767.79 31.97-	1.64	1911.05 32.63
94.5	52388.87- 717.94- 2.59-	7.32	9354.88- 104.40- .33	8.06	210209.07 1751.65 31.43-	1.77	1895.95 31.53
95.0	52750.61- 721.16- .27-	6.30	9408.97- 103.03- 4.92	6.88	211081.07 1736.36 32.49-	1.53	1882.98 32.86
95.5	53110.03- 718.21- 1.54	7.54	9457.91- 99.48- 1.48-	8.28	211945.44 1719.16 33.29-	1.84	1865.80 33.36
96.0	53468.83- 719.62- 3.25-	6.79	9508.45- 104.51- 3.25-	7.45	212800.23 1703.06 31.22-	1.64	1851.81 31.56
96.5	53829.65- 721.46- 1.84	6.52	9562.43- 102.73- 3.68	7.12	213648.50 1687.93 32.17-	1.59	1838.53 32.43
97.0	54190.29- 717.77- 3.92	6.52	9611.18- 100.83- 4.84-	7.22	214488.17 1670.89 32.53-	1.60	1821.33 33.12
97.5	54547.42- 717.54- 5.61-	8.35	9663.26- 107.57- 4.67-	9.22	215319.40 1655.40 31.37-	2.04	1807.42 32.21
98.0	54907.84- 723.39- .96-	6.06	9718.76- 105.50- 6.94	6.66	216143.57 1639.52 31.87-	1.47	1795.11 32.62
98.5	55270.81- 718.50- 9.20	6.78	9768.76- 100.63- 3.11	7.43	216958.92 1623.53 30.35-	1.65	1778.26 31.86
99.0	55626.34- 714.19- 7.33-	7.76	9819.40- 102.39- 1.45-	8.40	217767.10 1609.17 31.90-	1.90	1763.51 32.76

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99.5	55985.00- 725.83- 4.86-	6.83	9871.15- 102.08- 1.70	7.49	218568.09 1591.62 32.81-	1.70	1752.29 33.21
100.0	56352.18- 719.05- 15.83	5.67	9921.48- 100.69- .77	6.13	219358.73 1576.35 28.65-	1.41	1735.53 32.74
100.5	56704.05- 710.00- 2.60-	8.45	9971.84- 101.31- 11.94-	9.28	220144.45 1562.97 33.80-	2.10	1719.66 35.95
101.0	57062.18- 721.65- 21.90-	7.97	10022.80- 112.64- 5.96-	8.75	220921.70 1542.54 38.50-	1.99	1706.73 44.69
101.5	57425.71- 731.90- 3.52	11.96	10084.48- 107.27- 25.96	13.20	221687.00 1524.47 29.41-	2.99	1694.46 39.38
102.0	57794.08- 718.12- 25.21	11.20	10130.08- 86.68- 13.47	12.36	222446.18 1513.13 25.56-	2.80	1677.14 38.35
102.5	58143.84- 706.68- 2.42-	5.71	10171.16- 93.80- 20.06-	6.26	223200.14 1498.91 33.24-	1.45	1659.80 38.90
103.0	58500.77- 720.55- 11.97-	5.98	10223.89- 106.74- 9.54-	6.54	223945.09 1479.89 34.55-	1.50	1649.44 37.79
103.5	58864.39- 718.66- 6.86	8.08	10277.91- 103.35- 7.88	8.85	224680.03 1464.35 30.26-	2.04	1634.46 32.01
104.0	59219.43- 713.69- 4.41	5.51	10327.24- 98.86- 1.85	6.15	225409.44 1449.62 30.76-	1.42	1618.81 31.13
104.5	59578.08- 714.24- 5.25-	4.85	10376.77- 101.49- 2.78-	5.33	226129.66 1433.58 32.40-	1.25	1604.87 32.93
105.0	59933.67- 718.94- 6.33-	5.40	10428.73- 101.64- 2.02-	5.98	226843.03 1417.23 33.24-	1.40	1592.40 33.89
105.5	60297.02- 720.57- 4.43	4.60	10478.42- 103.52- 1.81-	5.10	227546.89 1400.34 30.67-	1.21	1578.26 31.04
106.0	60654.25- 714.51- 1.39	4.93	10532.25- 103.46- 1.35-	5.34	228243.37 1386.55 30.23-	1.26	1563.25 30.29
106.5	61011.54- 719.18- 1.75-	6.63	10581.88- 104.87- .97	7.30	228933.44 1370.11 32.49-	1.71	1550.94 32.55
107.0	61373.44- 716.26- .50	6.85	10637.12- 102.48- 6.26	7.50	229613.49 1354.06 32.22-	1.76	1535.26 32.83
107.5	61727.81- 718.68- 4.44	6.92	10684.37- 98.61- 5.78	7.58	230287.51 1337.88 29.13-	1.79	1521.89 30.02
108.0	62092.13- 711.82- 2.98-	4.65	10735.73- 96.70- 4.29-	5.16	230951.37 1324.93 35.20-	1.22	1507.14 35.58
108.5	62439.63- 721.67- 13.82-	8.74	10781.07- 102.90- 6.45-	9.51	231612.44 1302.68 40.06-	2.28	1492.77 42.86
109.0	62813.80- 725.65- 17.52	6.47	10838.64- 103.15- 4.65	7.06	232254.05 1284.87 23.52-	1.69	1479.22 29.70
109.5	63165.28- 704.14- 12.73	5.47	10884.22- 98.24- 2.95	5.98	232897.32 1279.15 26.12-	1.44	1463.45 29.21
110.0	63517.95- 712.91- 17.36-	7.07	10936.88- 100.20- .88-	7.82	233533.20 1258.74 40.88-	1.88	1450.08 44.42

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110.5	63878.19- 721.51- .63	15.71	10984.42- 99.13- 2.72-	17.27	234156.07 1238.26 29.80-	4.17	1436.56 29.93
111.0	64239.46- 712.27- .85	6.74	11036.01- 102.92- 10.12-	7.50	234771.46 1228.94 27.68-	1.81	1424.16 29.49
111.5	64590.47- 720.65- 12.44-	9.38	11087.34- 109.25- 3.03	10.29	235385.02 1210.58 39.09-	2.49	1413.07 41.13
112.0	64960.11- 724.72- 14.93-	5.42	11145.27- 99.89- 2.10-	5.95	235982.05 1189.85 38.30-	1.45	1396.76 41.16
112.5	65315.19- 735.58- 50.67-	5.70	11187.24- 111.36- 34.45-	6.20	236574.87 1172.27 41.42-	1.52	1388.42 73.96
113.0	65695.70- 775.39- 8.44	6.27	11256.63- 134.34- 35.57	6.89	237154.32 1148.43 24.81-	1.71	1392.18 44.18
113.5	66090.59- 727.14- 100.30	4.93	11321.59- 75.79- 79.60	5.35	237723.31 1147.46 3.32-	1.34	1360.56 128.09
114.0	66422.84- 675.09- 49.13	4.89	11332.42- 54.74- 1.55	5.45	238301.78 1145.10 19.11-	1.32	1330.42 52.74
114.5	66765.69- 678.00- .96	6.12	11376.33- 74.23- 31.01-	6.64	238868.41 1128.35 34.61-	1.66	1318.47 46.48
115.0	67100.85- 674.13- 10.65-	8.50	11406.66- 85.76- 27.49-	9.34	239430.13 1110.48 39.71-	2.32	1301.91 49.46
115.5	67439.82- 688.65- 28.08-	8.39	11462.09- 101.73- 12.10-	9.28	239978.90 1088.63 38.36-	2.30	1292.17 49.05
116.0	67789.51- 702.21- 24.31-	6.74	11508.39- 97.86- 1.86	7.41	240518.76 1072.12 33.46-	1.86	1285.35 41.40
116.5	68142.03- 712.97- 24.04-	9.12	11559.96- 99.86- 9.72-	10.10	241051.02 1055.17 38.78-	2.53	1277.37 46.65
117.0	68502.48- 726.25- .20	9.27	11608.26- 107.59- 3.45	10.17	241573.93 1033.34 36.56-	2.57	1267.60 36.72
117.5	68868.29- 712.77- 22.20	7.40	11667.55- 96.41- 19.84	8.13	242084.37 1018.61 25.06-	2.03	1246.95 38.92
118.0	69215.25- 704.04- 1.53	6.36	11704.67- 87.74- 4.06-	6.94	242592.54 1008.27 27.25-	1.78	1232.88 27.59
118.5	69572.33- 711.24- 9.56-	7.02	11755.29- 100.48- 12.83-	7.78	243092.64 991.35 37.67-	1.96	1224.23 40.92
119.0	69926.49- 713.61- 4.15-	8.82	11805.15- 100.57- 2.80-	9.73	243583.90 970.60 36.35-	2.46	1208.89 36.69
119.5	70285.95- 715.39- 1.34-	9.79	11855.86- 103.28- 5.44	10.75	244063.25 955.00 26.06-	2.75	1197.70 26.66
120.0	70641.88- 714.95- 3.46-	5.01	11908.44- 95.13- .79-	5.45	244538.91 944.53 29.75-	1.39	1188.43 29.96
120.5	71000.90- 718.85- 4.03	9.12	11950.99- 104.08- 5.33-	9.99	245007.79 925.25 34.75-	2.56	1176.29 35.39
121.0	71360.73- 710.91- 17.42	8.05	12012.52- 100.46- 12.36	8.87	245464.16 909.78 30.46-	2.27	1158.96 37.21

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121.5	71711.82- 701.42- .17-	6.71	12051.46- 91.71- .54	7.39	245917.58 894.78 33.31-	1.93	1140.63 33.31
122.0	72062.16- 711.09- 14.45-	6.27	12104.24- 99.92- 8.49-	6.96	246358.94 876.47 31.33-	1.81	1133.06 35.53
122.5	72422.91- 715.87- 1.91	7.32	12151.38- 100.21- .52-	7.99	246794.05 863.45 30.75-	2.08	1126.09 30.82
123.0	72778.04- 709.17- 4.75	7.84	12204.45- 100.44- 4.96	8.67	247222.40 845.71 34.72-	2.27	1108.26 35.39
123.5	73132.09- 711.12- .16	5.95	12251.83- 95.24- 4.09-	6.55	247639.76 828.73 28.82-	1.71	1096.16 29.10
124.0	73489.16- 709.01- .01-	9.24	12299.70- 104.53- 6.81-	10.16	248051.13 816.89 28.27-	2.68	1086.71 29.08
124.5	73841.10- 711.14- 1.31-	6.07	12356.36- 102.05- 7.11	6.75	248456.66 800.45 35.47-	1.78	1075.58 36.20
125.0	74200.31- 710.32- 3.15	6.31	12401.76- 97.42- 1.45-	6.96	248851.59 781.41 34.85-	1.86	1060.50 35.02
125.5	74551.42- 707.99- 4.67-	7.05	12453.79- 103.51- 4.95-	7.71	249238.08 765.60 29.52-	2.05	1047.91 30.30
126.0	74908.30- 715.00- 9.20-	8.74	12505.27- 102.38- 2.23	9.61	249617.19 751.89 31.68-	2.54	1042.61 33.06
126.5	75266.42- 717.19- 2.30-	8.15	12556.17- 101.28- .94	8.90	249989.97 733.92 37.00-	2.39	1031.14 37.09
127.0	75625.49- 717.30- 4.33	7.43	12606.55- 101.43- 7.85	8.17	250351.11 714.88 31.67-	2.19	1017.78 32.91
127.5	75983.73- 712.85- .62-	4.56	12657.61- 93.42- 1.53	4.93	250704.85 702.24 27.03-	1.35	1005.01 27.08
128.0	76338.35- 717.93- .73	5.20	12699.98- 99.90- 10.78-	5.74	251053.36 687.84 31.23-	1.55	999.26 33.05
128.5	76701.66- 712.12- 12.40	7.92	12757.51- 104.21- 3.93-	8.66	251392.69 671.01 33.62-	2.36	983.98 36.05
129.0	77050.47- 705.52- 25.73-	4.82	12804.19- 103.83- 28.14-	5.23	251724.37 654.21 41.84-	1.46	967.75 56.61
129.5	77407.19- 737.85- 34.87-	5.55	12861.34- 132.36- 11.83-	6.06	252046.91 629.17 37.57-	1.67	978.67 52.60
130.0	77788.32- 740.39- 28.19	4.91	12936.55- 115.67- 34.44	5.48	252353.54 616.64 20.21-	1.49	970.47 48.88
130.5	78147.58- 709.66- 32.20	4.10	12977.02- 97.92- 2.02	4.46	252663.55 608.95 26.34-	1.26	940.22 41.65
131.0	78497.98- 708.19- 33.86-	3.44	13034.47- 113.64- 14.37-	3.86	252962.49 590.30 40.70-	1.06	928.93 54.85
131.5	78855.78- 743.52- 15.88-	3.31	13090.66- 112.29- 16.03	3.66	253253.85 568.25 30.83-	1.00	942.51 38.20
132.0	79241.50- 724.07- 66.06	3.00	13146.76- 97.60- 25.91	3.24	253530.75 559.47 15.30-	.92	920.23 72.59

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132.5	79579.85- 677.45- 31.18	4.65	13188.27- 86.38- 1.61-	5.22	253813.33 552.94 28.23-	1.45	878.72 42.09
133.0	79918.95- 692.89- 31.49-	3.68	13233.14- 99.21- 11.80-	4.07	254083.69 531.23 36.06-	1.14	878.72 49.31
133.5	80272.74- 708.94- 23.68-	3.67	13287.49- 98.18- 4.00	3.99	254344.57 516.88 28.22-	1.12	882.84 37.06
134.0	80627.90- 716.57- 4.89-	2.17	13331.32- 95.21- 4.13-	2.44	254600.58 503.01 33.10-	.69	880.66 33.72
134.5	80989.31- 713.84- 13.26	2.02	13382.70- 102.32- 9.03-	2.19	254847.58 483.77 35.51-	.64	868.38 38.96
135.0	81341.75- 703.31- 6.76	2.44	13433.64- 104.24- 2.05	2.71	255084.35 467.50 29.93-	.80	850.92 30.75
135.5	81692.63- 707.08- 17.05-	4.19	13486.94- 100.26- 50.21-	4.54	255315.08 453.83 37.65-	1.31	846.16 65.04
136.0	82048.83- 720.36- 11.29-	3.14	13533.90- 154.46- 61.46-	3.49	255538.19 429.84 43.12-	.99	852.96 75.92
136.5	82412.99- 718.38- 14.10	5.56	13641.40- 161.72- 50.65	6.11	255744.92 410.71 26.14-	1.77	843.15 58.72
13700.0	82767.22- 706.26- 11.20	4.48	13695.63- 103.80- 61.30	4.95	255948.90 403.70 20.45-	1.41	820.09 65.59
137.5	83119.25- 707.18- 8.23-	4.20	13745.20- 100.42- 8.87	4.60	256148.62 390.25 33.10-	1.34	813.93 35.24
138.0	83474.40- 714.50- 6.66-	6.16	13796.05- 94.92- 2.67	6.80	256339.16 370.59 37.97-	1.97	810.47 38.64
138.5	83833.75- 713.84- 6.81	5.22	13840.13- 97.74- 9.29-	5.70	256519.22 352.28 30.46-	1.67	802.01 32.56
139.0	84188.24- 707.69- 6.24	4.68	13893.79- 104.22- 1.06-	5.15	256691.44 340.13 24.89-	1.53	792.07 25.68
139.5	84541.44- 707.60- 5.32-	4.71	13944.35- 98.80- 9.91	5.16	256859.35 327.39 32.04-	1.54	785.90 33.96
140.0	84895.85- 713.01- 5.36-	4.59	13992.60- 94.30- .87-	5.10	257018.82 308.08 37.96-	1.52	782.43 38.34
140.5	85254.46- 712.97- 5.30	6.14	14038.65- 99.68- 22.32-	6.76	257167.44 289.42 33.09-	2.00	775.90 40.27
141.0	85608.82- 707.71- 6.24	5.11	14092.28- 116.62- 13.45-	5.64	257308.25 274.99 27.04-	1.68	768.16 30.84
141.5	85962.17- 706.72- 4.06-	5.76	14155.28- 113.13- 25.56	6.42	257442.44 262.38 28.53-	1.91	762.30 38.52
142.0	86315.55- 711.77- 6.93-	6.12	14205.41- 91.06- 15.91	6.76	257570.64 246.45 35.68-	2.01	758.72 39.68
142.5	86673.95- 713.66- 3.53-	8.05	14246.34- 97.22- 14.88-	8.93	257688.89 226.70 35.48-	2.68	755.09 38.64
143.0	87029.21- 715.31- 5.55	6.55	14302.64- 105.94- 1.49-	7.12	257797.34 210.97 25.55-	2.17	753.26 26.19

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143.5	87389.26- 708.10- 7.61	6.97	14352.29- 98.71- 13.99	7.66	257899.87 201.14 26.04-	2.31	742.71 30.52
144.0	87737.32- 707.70- 5.63-	4.90	14401.35- 91.95- 1.72	5.43	257998.48 184.92 37.41-	1.64	737.22 37.87
144.5	88096.96- 713.74- 7.51-	7.47	14444.24- 96.98- 11.99-	8.27	258084.80 163.72 37.06-	2.52	738.67 39.67
145.0	88451.06- 715.22- 4.77-	4.97	14498.34- 103.95- 8.07	5.41	258162.21 147.86 28.26-	1.67	737.70 29.78
145.5	88812.18- 718.51- 9.69	6.29	14548.19- 88.91- 12.22	6.91	258232.66 135.45 24.87-	2.16	736.56 29.36
146.0	89169.58- 705.52- 17.41	11.06	14587.25- 91.72- 19.73-	12.14	258297.67 122.98 31.50-	3.77	722.01 41.04
146.5	89517.71- 701.10- 11.17-	7.30	14639.91- 108.64- 17.52-	8.03	258355.64 103.95 39.52-	2.49	717.04 44.65
147.0	89870.68- 716.69- 15.65-	5.80	14695.89- 109.24- 17.41	6.42	258401.63 83.45 31.08-	2.01	729.76 38.91
147.5	90234.40- 716.75- 15.90	6.86	14749.16- 91.22- 23.64	7.57	258439.10 72.87 20.83-	2.38	726.20 35.29
148.0	90587.43- 700.79- 14.64	11.94	14787.12- 85.60- 13.92-	13.09	258474.51 62.62 31.93-	4.10	708.77 37.79
148.5	90935.20- 702.11- 13.99-	7.71	14834.76- 105.15- 20.66-	8.53	258501.72 40.94 41.97-	2.67	711.12 48.83
149.0	91289.55- 714.78- 14.63-	4.66	14892.27- 106.26- 16.75	5.07	258515.45 20.65 30.67-	1.61	722.93 37.88
149.5	91649.98- 716.74- 10.19	5.28	14941.02- 88.40- 19.17	5.85	258522.37 10.27 21.81-	1.87	722.25 30.77
150.0	92006.29- 704.59- 15.67	12.17	14980.68- 87.08- 19.77-	13.42	258525.72 1.16- 32.25-	4.26	709.96 40.94
150.5	92354.58- 701.07- 4.82-	6.63	15028.11- 108.17- 24.06-	7.29	258521.21 21.97- 40.50-	2.33	709.70 47.36
151.0	92707.36- 709.42- 4.14-	4.12	15088.85- 111.15- 8.10	4.57	258503.75 41.67- 31.11-	1.48	719.28 32.41
151.5	93064.01- 705.21- 6.89	4.55	15139.26- 100.06- 7.39	5.10	258479.54 53.09- 24.32-	1.66	714.25 26.34
152.0	93412.58- 702.53- 7.52-	5.46	15188.92- 103.75- 3.68	6.03	258450.65 65.99- 31.22-	1.96	713.21 32.32
152.5	93766.54- 712.73- 8.09-	10.00	15243.02- 96.38- 13.26	10.89	258413.54 84.31- 36.35-	3.58	724.15 39.53
153.0	94125.31- 710.62- 7.82	4.36	15285.30- 90.49- 2.86-	4.82	258366.34 102.35- 31.12-	1.57	723.63 32.21
153.5	94477.16- 704.91- .64-	3.49	15333.51- 99.25- 17.40-	3.84	258311.19 115.43- 28.05-	1.27	721.16 33.02
154.0	94830.23- 711.26- 4.73	6.16	15384.56- 107.89- 3.33	6.86	258250.90 130.41- 27.24-	2.24	731.13 27.84

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154.5	95188.43- 700.18- 14.96	6.61	15441.41- 95.91- 15.15	7.31	258180.78 142.67- 29.16-	2.40	720.97 36.11
155.0	95530.41- 696.30- 2.14	6.15	15480.47- 92.75- 6.30-	6.80	258108.23 159.57- 35.76-	2.28	720.35 36.37
155.5	95884.73- 698.04- 4.07-	5.41	15534.16- 102.22- 20.66-	5.91	258021.20 178.43- 34.85-	1.98	727.70 40.72
156.0	96228.45- 700.38- 7.54-	5.89	15582.70- 113.41- 27.45-	6.53	257929.79 194.43- 34.57-	2.21	735.66 44.79
156.5	96585.12- 705.58- 1.10	4.25	15647.57- 129.67- 3.42	4.67	257826.77 213.01- 32.13-	1.57	748.36 32.33
157.0	96934.04- 699.27- 11.79	5.20	15712.37- 109.99- 32.98	5.68	257716.78 226.57- 26.57-	1.95	743.24 43.96
157.5	97284.39- 693.79- 15.59-	6.76	15757.56- 96.69- 14.12	7.52	257600.20 239.58- 34.41-	2.56	740.33 40.33
158.0	97627.84- 714.87- 48.07-	11.15	15809.06- 95.86- 6.32-	12.26	257477.19 260.98- 46.17-	4.16	767.03 66.95
158.5	97999.26- 741.86- 16.20-	3.74	15853.43- 103.01- 14.03-	4.21	257339.21 285.76- 37.77-	1.46	801.64 43.42
159.0	98369.70- 731.07- .86-	4.37	15912.08- 109.90- 5.17-	4.85	257191.43 298.76- 30.03-	1.67	797.37 30.49
159.5	98730.33- 742.73- 8.23-	6.15	15963.33- 108.19- 5.83	6.80	257040.45 315.79- 30.48-	2.36	814.30 32.10
160.0	99112.43- 739.31- 65.99	2.14	16020.27- 104.06- 16.02	2.41	256875.63 329.24- 8.13-	.84	815.97 68.39
160.5	99469.65- 676.73- 63.98	.27	16067.39- 92.16- 13.81	.33	256711.21 323.93- 11.06-	.12	755.91 66.38
161.0	99789.17- 675.32- 62.09-	6.18	16112.44- 90.25- 9.04-	6.86	256551.70 340.30- 54.33-	2.42	761.59 83.00
161.5	100144.98- 738.83- 61.46-	5.76	16157.64- 101.20- 14.81-	6.41	256370.90 378.26- 51.48-	2.24	836.18 81.53
162.0	100528.00- 736.79- 61.27	1.57	16213.65- 105.06- 8.13	1.73	256173.43 391.79- 8.36-	.62	841.07 62.37
162.5	100881.77- 677.55- 57.53	1.69	16262.71- 93.07- 14.86	1.88	255979.11 386.63- 12.70-	.67	785.64 60.76
163.0	101205.56- 679.26- 58.49-	6.61	16306.72- 90.20- 9.42-	7.29	255786.80 404.49- 53.88-	2.59	795.70 80.08
163.5	101561.03- 736.05- 55.61-	6.06	16352.91- 102.49- 15.29-	6.76	255574.61 440.51- 49.76-	2.41	863.90 76.17
164.0	101941.61- 734.87- 41.62	1.91	16409.21- 105.49- 12.26-	2.15	255346.28 454.25- 17.75-	.77	870.35 46.88
164.5	102295.91- 694.42- 43.06	2.02	16458.41- 114.75- 3.38-	2.16	255120.36 458.27- 20.29-	.79	839.88 47.72
165.0	102636.04- 691.81- 25.49-	6.09	16523.97- 108.88- 37.74	6.60	254888.01 474.54- 36.37-	2.38	845.96 58.28

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165.5	102987.72- 719.92- 35.47-	6.21	16567.29- 77.01- 30.84	6.75	254645.81 494.64- 36.79-	2.43	876.86 59.69
166.0	103355.96- 727.28- 22.35	.53	16600.98- 78.03- 33.63-	.56	254393.36 511.34- 27.70-	.22	892.47 48.96
166.5	103715.00- 697.57- 37.76	3.90	16645.32- 110.64- 32.01-	4.29	254134.47 522.35- 25.12-	1.59	878.46 55.51
167.0	104053.53- 689.52- 22.99-	3.56	16711.63- 110.04- 35.68	3.77	253871.01 536.46- 35.46-	1.39	880.53 55.31
167.5	104404.53- 720.56- 34.19-	4.07	16755.36- 74.96- 27.12	4.33	253598.01 557.81- 37.28-	1.62	914.32 57.39
168.0	104774.09- 723.71- 9.04	4.02	16786.60- 82.91- 21.56-	4.51	253313.20 573.74- 24.76-	1.68	927.26 34.05
168.5	105128.25- 711.51- 14.09	4.14	16838.28- 96.52- 9.87-	4.55	253024.26 582.57- 25.33-	1.73	924.64 30.62
169.0	105485.61- 709.61- 5.45	5.37	16883.12- 92.79- .34-	5.95	252730.62 599.07- 34.35-	2.21	933.30 34.78
169.5	105837.87- 706.05- 3.20	4.80	16931.07- 96.87- 2.85-	5.31	252425.19 616.92- 31.86-	1.99	942.60 32.14
170.0	106191.66- 706.41- 11.08	6.31	16979.99- 95.64- 7.04	6.90	252113.69 630.93- 22.13-	2.64	951.96 25.73
170.5	106544.28- 694.97- 13.59	5.01	17026.71- 89.82- 4.25	5.51	251794.26 639.05- 25.20-	2.10	948.39 28.94
171.0	106886.64- 692.82- 4.81-	5.50	17069.82- 91.39- 13.76-	6.07	251474.64 656.13- 40.53-	2.35	958.57 43.07
171.5	107237.10- 699.78- 15.36-	5.72	17118.10- 103.59- 33.31-	6.29	251138.12 679.59- 43.70-	2.41	980.96 57.05
172.0	107586.43- 708.18- 3.37-	6.31	17173.42- 124.70- 30.11-	6.98	250795.04 699.84- 32.53-	2.69	1003.42 44.45
172.5	107945.28- 703.15- .63-	7.74	17242.81- 133.70- 6.44-	8.52	250438.28 712.12- 29.80-	3.32	1009.66 30.50
173.0	108289.59- 708.82- 11.25-	6.61	17307.12- 131.14- 10.75	7.27	250082.92 729.64- 38.95-	2.83	1025.67 41.94
173.5	108654.11- 714.41- 3.28	10.84	17373.95- 122.95- 9.99	11.96	249708.63 751.07- 32.17-	4.69	1043.85 33.85
174.0	109004.00- 705.54- 3.00	11.00	17430.08- 121.15- .14	12.26	249331.84 761.82- 26.34-	4.80	1045.39 26.51
174.5	109359.65- 711.41- 6.04-	14.07	17495.10- 122.80- 19.99	15.48	248946.81 777.42- 29.48-	6.14	1060.93 36.13
175.0	109715.41- 711.59- 6.10	11.91	17552.89- 101.15- 27.01	13.15	248554.41 791.31- 30.21-	5.23	1069.00 40.98
175.5	110071.25- 705.31- 2.42	10.76	17596.26- 95.79- 3.20-	11.89	248155.50 807.64- 35.10-	4.74	1076.53 35.33
176.0	110420.73- 709.17- 1.20	11.58	17648.68- 104.35- 2.27	12.80	247746.78 826.41- 28.62-	5.10	1093.97 28.73

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176.5	110780.42- 704.10- 3.54	12.81	17700.61- 93.52- 13.13	14.13	247329.09 836.26- 24.65-	5.71	1097.19 28.15
177.0	111124.83- 705.63- 3.56-	11.56	17742.20- 91.22- 2.75-	12.84	246910.51 851.06- 34.09-	5.19	1109.29 34.38
177.5	111486.05- 707.67- 4.26	12.00	17791.83- 96.27- 3.42-	13.25	246478.03 870.35- 34.89-	5.40	1125.87 35.32
178.0	111832.51- 701.36- 2.18	10.77	17838.47- 94.64- 1.35	11.86	246040.16 885.95- 31.17-	4.88	1133.92 31.27
178.5	112187.41- 705.49- 8.58-	11.58	17886.47- 94.92- .56	12.85	245592.07 901.52- 30.02-	5.28	1148.68 31.22
179.0	112538.00- 709.94- .91	10.36	17933.40- 94.07- .77	11.37	245138.64 915.97- 28.52-	4.69	1162.70 28.54
179.5	112897.35- 704.57- 11.34	9.83	17980.54- 94.14- 3.20-	10.93	244676.09 930.05- 32.07-	4.54	1170.59 34.16
180.0	113242.58- 698.60- 1.27-	10.49	18027 97.27- 2.75-	11.62	244208.59 948.05- 36.26-	4.86	1181.65 36.38
180.5	113595.96- 705.85- 2.04-	10.20	18077.82- 96.90- 3.15	11.22	243728.04 966.31- 28.91-	4.72	1200.57 29.15
181.0	113948.44- 700.64- 2.92	11.26	18124.45- 94.12- 3.82	12.49	243242.28 976.96- 25.46-	5.24	1205.91 25.91
181.5	114296.60- 702.93- 4.31-	10.11	18171.95- 93.08- .65	11.18	242751.08 991.77- 33.30-	4.74	1219.17 33.59
182.0	114651.37- 704.95- 4.35-	10.64	18217.54- 93.46- 3.61-	11.85	242250.50 1010.27- 38.40-	5.04	1235.45 38.82
182.5	115001.56- 707.28- .35	10.92	18265.42- 96.70- 2.47-	12.05	241740.80 1030.18- 33.06-	5.19	1253.35 33.15
183.0	115358.65- 704.60- 3.75	10.51	18314.24- 95.94- 3.74	11.53	241220.32 1043.33- 25.49-	5.01	1262.62 26.04
183.5	115706.16- 703.32- 2.62	10.79	18361.36- 92.95- 4.08	11.88	240697.47 1055.68- 27.35-	5.15	1272.02 27.78
184.0	116062.18- 701.98- 3.49	9.44	18407.20- 91.86- 2.03-	10.46	240164.64 1070.69- 33.63-	4.58	1283.58 33.87
184.5	116408.14- 700.03- 3.46-	9.45	18453.22- 94.99- 3.99-	10.48	239626.77 1089.31- 37.17-	4.61	1298.33 37.54
185.0	116762.21- 705.44-	9.25	18502.19- 95.85-	10.25	239075.32 1107.86-	4.49	1316.89
185.5	117113.58-	9.67	18549.08-	10.73	238518.91	4.77	

SM 1.08

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.5	35.57-	.76	51.34-	.74	684.49	1.23	
2.0	64.64- 63.05-	.24	81.48- 63.42-	.32	1053.45 828.25	.47	833.07
2.5	98.62- 73.48- 18.13-	1.44	114.76- 73.92- 19.52-	1.60	1512.74 963.05 192.02	1.87	968.67 193.86
3.0	138.12- 81.18- 10.71-	1.53	155.41- 82.94- 11.21-	1.66	2016.50 1020.27 80.70	1.88	1026.85 82.17
3.5	179.81- 84.19- 6.23-	1.19	197.71- 85.14- 4.00-	1.28	2533.02 1043.75 45.03	1.37	1050.60 45.63
4.0	222.32- 87.41- 7.07-	.79	240.55- 86.95- 4.26-	.85	3060.26 1065.30 42.30	.89	1072.41 43.09
4.5	267.22- 91.27- 5.85-	.40	284.66- 89.40- 3.96-	.44	3598.33 1086.05 42.44	.48	1093.54 43.03
5.0	313.59- 93.27- 6.51-	.59	329.95- 90.91- 7.06-	.65	4146.31 1107.75 41.52	.63	1115.38 42.61
5.5	360.49- 97.78- 10.14-	.09	375.58- 96.46- 10.38-	.08	4706.08 1127.57 39.78	.03	1135.91 42.35
6.0	411.37- 103.41- 7.25-	1.62	426.42- 101.30- 1.79-	1.69	5273.89 1147.54 45.38	1.58	1156.63 45.99
6.5	463.91- 105.03- 3.85-	2.88	476.88- 98.26- 4.69	3.04	5853.62 1172.95 49.98	2.71	1181.74 50.35
7.0	516.41- 107.26- 6.63-	1.38	524.68- 96.60- 3.02-	1.47	6446.85 1197.52 48.14	1.26	1206.19 48.68
7.5	571.17- 111.67- 5.49-	.19	573.49- 101.28- 7.29-	.21	7051.15 1221.10 46.31	.13	1230.37 47.20
8.0	628.08- 112.75- 3.64-	3.18	625.96- 103.90- 8.09-	3.32	7667.95 1243.84 41.55	2.73	1253.25 42.48
8.5	683.93- 115.31- 9.58-	4.12	677.39- 109.38- 5.50-	4.34	8295.00 1262.64 44.35	3.47	1272.61 45.70
9.0	743.39- 122.34- 8.47-	2.10	735.34- 109.40- 7.4	2.22	8930.59 1288.19 53.25	1.73	1298.60 53.95
9.5	806.28- 123.78- 1.36	4.45	786.80- 108.63- 3:29-	4.66	9583.19 1315.90 50.84	3.62	1326.16 50.96
10.0	867.18- 120.97- 1.39-	4.18	843.97- 112.69- 7.08-	4.41	10246.50 1339.03 50.23	3.33	1349.20 50.74
10.5	927.26- 125.18- 14.24-	2.36	899.49- 115.72- 2.29-	2.48	10922.23 1366.13 59.26	1.84	1376.72 60.99
11.0	992.36- 135.21- 16.45-	3.25	959.69- 114.99- 1.25-	3.43	11612.63 1398.30 61.34	2.48	1409.52 63.52
11.5	1062.48- 141.63- 3.02-	8.35	1014.48- 116.97- 6.84-	8.86	12320.53 1427.47 53.78	6.31	1439.24 54.29

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12.0	1134.00- 138.24- 1.90	10.25	1076.67- 121.83- 9.45-	10.88	13040.11 1452.08 53.24	7.60	1463.72 54.11
12.5	1200.72- 139.73- 16.48-	8.09	1136.31- 126.42- 12.30-	8.60	13772.61 1480.72 59.88	5.87	1492.66 63.32
13.0	1273.74- 154.72- 20.02-	8.46	1203.09- 134.13- 8.14-	8.98	14520.83 1511.96 63.29	6.06	1525.77 66.88
13.5	1355.44- 159.75- .82	9.44	1270.45- 134.57- 1.29	10.02	15284.58 1544.02 64.19	6.62	1558.08 64.20
14.0	1433.49- 153.90- 3.72	10.88	1337.66- 132.84- 3.41-	11.59	16064.85 1576.15 64.30	7.46	1589.21 64.50
14.5	1509.35- 156.03- 11.22-	9.94	1403.29- 137.98- 11.82-	10.60	16860.74 1608.32 67.04	6.69	1621.75 68.99
15.0	1589.53- 165.13- 19.77-	10.24	1475.64- 144.65- 4.96-	10.92	17673.18 1643.20 71.63	6.74	1657.80 74.47
15.5	1674.48- 175.80- 8.92-	12.38	1547.94- 142.94- 1.01-	13.23	18503.94 1679.96 70.45	7.97	1695.17 71.02
16.0	1765.34- 174.05- .13	15.75	1618.59- 145.67- 9.73-	16.84	19353.14 1713.65 69.07	9.93	1728.62 69.75
16.5	1848.53- 175.66- 13.76-	13.73	1693.62- 152.68- 5.81-	14.69	20217.59 1749.03 77.45	8.49	1764.45 78.88
17.0	1941.01- 187.81- 13.87-	14.52	1771.28- 151.48- 4.22-	15.57	21102.17 1791.11 78.65	8.77	1807.29 79.98
17.5	2036.34- 189.54- 5.60-	18.93	1845.10- 156.91- 14.29-	20.28	22008.70 1827.69 73.97	11.21	1844.18 75.55
18.0	2130.55- 193.42- 8.17-	15.28	1928.19- 165.77- 15.14-	16.40	22929.86 1865.09 80.71	8.82	1882.40 82.52
18.5	2229.77- 197.72- 13.59-	16.01	2010.88- 172.05- 14.32-	17.20	23873.79 1908.40 84.61	9.05	1926.31 86.88
19.0	2328.27- 207.02- 16.62-	15.43	2100.25- 180.10- 5.09-	16.59	24838.26 1949.70 86.53	8.54	1968.91 88.25
19.5	2436.79- 214.34- 5.56-	13.87	2190.98- 177.14- .39-	14.93	25823.50 1994.92 91.80	7.49	2014.21 91.97
20.0	2542.62- 212.58- 7.21-	13.35	2277.39- 180.49- 11.89-	14.37	26833.19 2041.50 92.89	7.07	2060.46 93.93
20.5	2649.38- 221.56- 16.52-	11.99	2371.47- 189.04- 4.83-	12.92	27865.00 2087.82 96.44	6.20	2108.04 97.96
21.0	2764.18- 229.11- 10.36-	10.21	2466.44- 185.33- .28	11.02	28921.01 2137.94 101.71	5.14	2158.15 102.24
21.5	2878.49- 231.93- 12.68-	10.14	2556.81- 188.76- 15.36-	10.93	30002.94 2189.54 102.59	5.01	2209.86 104.51
22.0	2996.11- 241.79- 16.69-	10.46	2655.20- 200.69- 11.34-	11.27	31110.56 2240.54 105.15	5.05	2262.47 107.07
22.5	3120.28- 248.62- 9.72-	8.62	2757.50- 200.10- 4.44-	9.32	32243.49 2294.69 110.28	4.03	2316.78 110.79

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23.0	3244.74- 251.51- 9.99-	8.09	2855.31- 205.14- 7.28-	8.73	33405.26 2350.82 114.88	3.71	2373.12 115.54
23.5	3371.80- 258.62- 16.33-	5.39	2962.64- 207.38- .00-	5.80	34594.31 2409.58 121.59	2.41	2432.27 122.68
24.0	3503.37- 267.85- 16.93-	4.97	3062.69- 205.14- 11.12-	5.37	35814.84 2472.41 123.85	2.16	2495.32 125.50
24.5	3639.65- 275.55- 15.40-	5.98	3167.79- 218.51- 17.39-	6.48	37066.73 2533.43 124.93	2.54	2557.73 127.07
25.0	3778.92- 283.25- 14.03-	3.71	3281.20- 222.53- 7.18-	4.05	38348.27 2597.35 131.17	1.52	2622.20 132.12
25.5	3922.90- 289.58- 14.47-	2.78	3390.33- 225.69- 4.06-	3.01	39664.08 2664.61 137.06	1.11	2689.78 137.88
26.0	4068.51- 297.72- 21.51-	.55	3506.90- 226.60- 1.19-	.60	41012.89 2734.41 142.74	.20	2759.89 144.36
26.5	4220.62- 311.09- 23.31-	.87	3616.93- 226.89- 8.65-	.93	42398.49 2807.35 145.32	.33	2833.64 147.43
27.0	4379.60- 321.03- 20.62-	2.04	3733.79- 235.26- 10.65-	2.21	43820.25 2879.73 147.36	.76	2907.10 149.17
27.5	4541.65- 331.71- 16.22-	1.32	3852.20- 237.54- 7.49-	1.40	45278.22 2954.72 153.00	.47	2982.75 154.04
28.0	4711.32- 337.26- 14.95-	1.86	3971.33- 242.76- 11.66-	2.01	46774.97 3032.74 158.01	.65	3061.07 159.15
28.5	4878.92- 346.66- 24.51-	.42	4094.96- 249.20- 13.31-	.45	48310.96 3112.73 160.97	.12	3141.88 163.37
29.0	5057.98- 361.78- 20.04-	1.84	4220.54- 256.07- 7.62-	2.01	49887.71 3193.71 165.92	.61	3224.32 167.30
29.5	5240.70- 366.71- 12.20-	.53	4351.03- 256.83- 7.17-	.58	51504.68 3278.66 173.65	.16	3309.08 174.22
30.0	5424.70- 373.98- 23.98-	.72	4477.37- 263.24- 17.21-	.80	53166.37 3367.36 178.06	.21	3398.28 180.49
30.5	5614.68- 390.69- 30.96-	.76	4614.28- 274.04- 8.99-	.83	54872.04 3456.72 182.47	.21	3489.51 185.29
31.0	5815.40- 404.95- 18.87-	1.10	4751.41- 272.24- 1.64-	1.20	56623.09 3549.83 189.91	.32	3583.21 190.86
31.5	6019.63- 409.56- 18.32-	1.21	4886.52- 275.68- 14.52-	1.32	58421.88 3646.64 195.23	.34	3679.91 196.62
32.0	6224.96- 423.27- 32.59-	.87	5027.10- 286.76- 17.29-	.96	60269.74 3745.07 196.11	.24	3779.80 199.55
32.5	6442.91- 442.15- 27.40-	.95	5173.28- 292.97- 4.64-	1.05	62166.95 3842.75 193.06	.26	3879.19 195.05
33.0	6667.12- 450.68- 15.39-	.71	5320.07- 291.41- 6.23-	.78	64112.50 3938.13 174.81	.18	3974.54 175.59
33.5	6893.59- 457.55- 18.75-	.86	5464.69- 299.20- 16.79-	.94	66105.09 4017.56 132.44	.22	4054.59 134.81

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34.0	7124.67- 469.44- 19.35-	1.36	5619.28- 308.20- 5.01-	1.50	68130.06 4070.58 94.04	.35	4109.13 96.14
34.5	7363.03- 476.90- 6.11-	.64	5772.90- 304.22- 1.16-	.70	70175.67 4111.61 59.76	.16	4150.34 60.08
35.0	7601.58- 475.55- 1.25-	.93	5923.51- 309.36- 5.93-	1.04	72241.67 4130.34 3.93	.22	4169.12 7.23
35.5	7838.58- 478.15- 3.84-	.40	6082.27- 310.16- 7.50	.44	74306.02 4115.55 39.91-	.08	4154.82 40.79
36.0	8079.73- 479.39- 3.46	.33	6233.68- 301.86- 1.15	.37	76357.22 4090.43 51.27-	.07	4129.47 51.40
36.5	8317.97- 474.69- .45	1.12	6384.14- 309.01- 6.97-	1.23	78396.45 4064.27 53.38-	.26	4103.55 53.83
37.0	8554.42- 478.94- 4.06-	1.83	6542.69- 308.84- 7.74	2.00	80421.50 4037.04 52.13-	.42	4077.07 52.86
37.5	8796.92- 478.75- 8.18	.64	6692.98- 301.27- 1.46	.71	82433.49 4012.14 49.37-	.13	4051.82 50.07
38.0	9033.18- 470.75- 3.88	1.23	6843.96- 307.37- 5.09-	1.36	84433.64 3987.67 48.60-	.27	4027.10 49.02
38.5	9267.67- 474.87- 4.11-	.87	7000.35- 306.36- 7.35	.98	86421.16 3963.53 46.21-	.18	4003.62 46.97
39.0	9508.06- 474.87- 7.33	1.38	7150.32- 300.02- 1.79	1.51	88397.17 3941.45 44.87-	.29	3981.27 45.50
39.5	9742.54- 467.55- 3.71	1.53	7300.37- 304.57- 4.62-	1.67	90362.61 3918.66 45.30-	.32	3958.18 45.68
40.0	9975.61- 471.15- 5.16-	2.54	7454.89- 304.65- 3.89	2.78	92315.83 3896.14 42.89-	.54	3936.34 43.38
40.5	10213.70- 472.70- 3.89	2.41	7605.02- 300.67- .89-	2.65	94258.76 3875.76 40.93-	.50	3916.04 41.13
41.0	10448.32- 467.26- 1.31	1.29	7755.57- 305.54- 3.77-	1.43	96191.60 3855.21 41.05-	.26	3895.42 41.24
41.5	10680.96- 471.39- 4.73-	1.44	7910.56- 304.44- 7.70	1.59	98113.97 3834.70 39.33-	.29	3875.54 40.35
42.0	10919.71- 471.99- 4.13	.80	8060.01- 297.83- .97	.89	100026.31 3815.87 38.59-	.15	3856.47 38.82
42.5	11152.95- 467.26- 1.00	2.16	8208.40- 303.47- 6.94-	2.36	101929.85 3796.11 40.85-	.43	3836.78 41.45
43.0	11386.97- 470.98- .84	1.12	8363.48- 304.78- 5.02	1.23	103822.42 3775.02 38.48-	.22	3816.48 38.82
43.5	11623.94- 466.41- 3.86	.44	8513.18- 298.44- 1.56	.50	105704.88 3757.62 35.42-	.08	3798.20 35.67
44.0	11853.39- 467.12- 3.24-	1.87	8661.93- 303.22- 3.01-	2.04	107580.05 3739.59 37.25-	.36	3780.83 37.51
44.5	12091.06- 469.66- 3.07	2.16	8816.41- 301.46- 7.65	2.38	109444.48 3720.38 35.90-	.42	3762.00 36.83

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45.0	12323.05- 464.04- 2.46	2.16	8963.39- 295.56- .02	2.37	111300.43 3703.69 35.35-	.41	3744.33 35.44
45.5	12555.10- 467.19- 5.62-	1.95	9111.97- 301.43- 8.02-	2.13	113148.17 3685.02 38.32-	.37	3726.73 39.55
46.0	12790.25- 469.67- 1.75-	2.76	9264.82- 303.59- 4.88	3.01	114985.46 3665.37 36.40-	.52	3707.79 36.76
46.5	13024.77- 468.95- 4.16	2.09	9415.56- 296.54- 5.93	2.29	116813.54 3648.62 33.30-	.39	3690.57 34.07
47.0	13259.20- 465.50- 5.70	3.15	9561.37- 297.65- 5.96-	3.44	118634.08 3632.07 34.07-	.59	3673.85 35.05
47.5	13490.28- 463.25- 2.00-	3.11	9713.22- 302.51- .51	3.41	120445.62 3614.54 34.36-	.58	3656.64 34.42
48.0	13722.45- 467.50- 3.46-	3.45	9863.88- 297.13- 3.12	3.80	122248.63 3597.71 33.87-	.64	3640.10 34.19
48.5	13957.79- 466.71- .95	2.21	10010.35- 299.38- 6.40-	2.42	124043.32 3580.67 35.08-	.40	3623.35 35.67
49.0	14189.17- 466.55- 2.28-	3.89	10163.26- 303.54- 4.14	4.28	125829.30 3562.62 35.35-	.72	3605.83 35.66
49.5	14424.34- 469.00- 1.70	3.45	10313.89- 295.24- 9.60	3.78	127605.95 3545.32 32.84-	.63	3588.37 34.26
50.0	14658.17- 464.85- 7.81	2.54	10458.50- 293.93- 6.98-	2.80	129374.62 3529.77 32.73-	.46	3572.36 34.37
50.5	14889.20- 461.18- 3.57-	3.31	10607.83- 302.23- 3.83-	3.63	131135.72 3512.58 34.20-	.60	3555.59 34.59
51.0	15119.35- 468.42- 5.43-	3.47	10760.74- 297.77- 6.88	3.78	132887.20 3495.57 32.50-	.62	3539.37 33.66
51.5	15357.63- 466.62- 8.33	3.56	10905.59- 295.34- 5.73-	3.90	134631.30 3480.08 32.75-	.64	3523.62 34.28
52.0	15585.98- 460.09- 2.25-	3.67	11056.08- 303.50- .54	4.02	136367.28 3462.81 34.58-	.66	3506.40 34.66
52.5	15817.72- 468.87- 4.02-	4.29	11209.10- 294.80- 14.04	4.69	138094.11 3445.49 33.10-	.77	3489.72 36.18
53.0	16054.85- 464.11- 13.53	4.40	11350.89- 289.45- 4.15-	4.83	139812.78 3429.71 32.42-	.79	3473.05 35.38
53.5	16281.84- 455.34- 5.75-	3.63	11498.55- 298.96- 6.83-	3.97	141523.83 3413.07 33.87-	.64	3456.26 35.03
54.0	16510.19- 469.87- 12.60-	5.04	11649.85- 296.29- 5.76	5.52	143225.85 3395.84 32.51-	.90	3440.97 35.34
54.5	16751.71- 467.94- 13.45	4.90	11794.85- 293.19- 3.72-	5.36	144919.67 3380.56 31.25-	.86	3425.36 34.23
55.0	16978.14- 456.42- 1.48	4.67	11943.05- 300.02- 6.25-	5.12	146606.41 3364.58 33.40-	.82	3408.62 34.02
55.5	17208.13- 466.45- 10.18-	3.62	12094.87- 299.45- 6.26	3.94	148284.26 3347.15 34.06-	.63	3392.73 36.10

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56.0	17444.59- 466.60- 8.51	5.62	12242.50- 293.76- 1.99	6.15	149953.56 3330.51 32.72-	.98	3375.84 33.87
56.5	17674.74- 457.94- 6.92-	4.41	12388.63- 297.45- 12.56-	4.82	151614.77 3314.42 34.16-	.77	3359.11 37.05
57.0	17902.54- 473.52- 11.83-	4.45	12539.95- 306.33- 5.75	4.88	153267.99 3296.35 33.62-	.77	3344.24 36.10
57.5	18148.26- 469.77- 17.57	6.83	12694.96- 291.69- 19.84	7.49	154911.12 3280.80 29.93-	1.19	3327.07 39.98
58.0	18372.31- 455.95- 5.73	4.48	12831.65- 286.48- 12.97-	4.89	156548.79 3266.41 31.94-	.78	3310.50 34.95
58.5	18604.21- 464.03- 12.06-	3.90	12981.45- 304.67- 8.15-	4.28	158177.53 3248.86 33.26-	.68	3295.94 36.30
59.0	18836.35- 468.02- 1.92-	4.64	13136.32- 294.63- 18.70	5.07	159797.65 3233.15 31.68-	.80	3280.10 36.84
59.5	19072.23- 465.96- 3.23	4.70	13276.08- 285.96- 3.00-	5.15	161410.68 3217.17 34.09-	.81	3263.30 34.37
60.0	19302.31- 464.79- 2.00	4.82	13422.28- 297.63- 10.56-	5.28	163014.83 3199.05 34.00-	.83	3246.31 35.65
60.5	19537.02- 463.96- 4.76	3.53	13573.72- 296.52- 5.32	3.87	164609.74 3183.17 30.07-	.60	3230.44 30.90
61.0	19766.27- 460.02- 1.34	3.93	13718.80- 292.30- .10-	4.30	166198.01 3168.98 31.19-	.67	3215.51 31.22
61.5	19997.05- 462.61- 2.70-	5.56	13866.02- 296.62- .72-	6.07	167778.72 3151.98 33.68-	.95	3199.53 33.79
62.0	20228.89- 462.72- 2.88	4.30	14015.43- 293.03- 1.70	4.73	169350.00 3135.29 32.39-	.74	3182.77 32.56
62.5	20459.77- 459.73- .92-	6.94	14159.05- 294.92- 3.06-	7.61	170914.02 3119.59 32.38-	1.20	3167.05 32.53
63.0	20688.63- 463.64- 7.21-	7.11	14310.35- 296.09- 3.62	7.79	172469.59 3102.92 33.32-	1.23	3151.30 34.28
63.5	20923.42- 466.95- 5.83-	4.99	14455.14- 291.29- .63-	5.47	174016.94 3086.27 34.23-	.86	3134.96 34.73
64.0	21155.59- 469.48- 1.47-	6.64	14601.64- 296.72- 3.88-	7.28	175555.86 3068.68 32.44-	1.14	3118.53 32.70
64.5	21392.90- 468.43- 5.32	6.46	14751.87- 295.18- 4.56	7.07	177085.62 3053.82 29.55-	1.11	3103.61 30.37
65.0	21624.02- 464.15- 1.47	6.36	14896.82- 292.16- 1.66	6.96	178609.69 3039.12 32.00-	1.10	3088.22 32.07
65.5	21857.06- 466.95- .03	5.99	15044.03- 293.51- .24	6.56	180124.75 3021.82 32.99-	1.03	3071.74 32.99
66.0	22090.98- 464.11- 2.28	6.24	15190.34- 291.91- 3.92	6.83	181631.51 3006.13 31.77-	1.07	3055.72 32.09
66.5	22321.18- 464.67- 3.49	7.24	15335.94- 289.59- 1.10	7.93	183130.88 2990.05 32.33-	1.24	3039.76 32.54

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67.0	22555.66- 460.62- 6.54	5.78	15479.93- 290.80- 9.79-	6.34	184621.57 2973.79 33.35-	.99	3023.27 35.37
67.5	22781.80- 458.13- 6.01-	6.66	15626.75- 299.38- 4.88-	7.29	186104.67 2956.69 33.47-	1.14	3006.91 34.35
68.0	23013.79- 466.63- 8.80-	6.22	15779.32- 295.69- 16.18	6.83	187578.26 2940.32 30.73-	1.07	2991.77 35.82
68.5	23248.44- 466.94- 6.16	6.37	15922.44- 283.20- 8.55	6.98	189045.00 2925.96 29.85-	1.10	2976.49 31.65
69.0	23480.73- 460.47- 1.64	5.80	16062.51- 287.14- 19.33-	6.34	190504.22 2910.47 33.65-	1.00	2960.63 38.85
69.5	23708.91- 465.29- 8.28-	5.00	16209.59- 302.53- 8.91-	5.47	191955.47 2892.30 34.55-	.86	2945.07 36.63
70.0	23946.02- 468.76- 4.58	5.79	16365.05- 296.05- 14.34	6.35	193396.53 2875.91 30.86-	.99	2928.87 34.33
70.5	24177.68- 460.71- 8.65	5.54	16505.64- 288.19- .09	6.05	194831.39 2861.44 31.80-	.94	2912.58 32.95
71.0	24406.73- 460.11- 4.76-	6.23	16653.24- 295.95- 5.17-	6.84	196257.97 2844.11 33.35-	1.07	2896.25 34.08
71.5	24637.79- 465.47- 6.00-	5.65	16801.59- 293.36- 6.02	6.19	197675.50 2828.09 30.96-	.97	2881.11 32.11
72.0	24872.21- 466.12- .43	4.17	16946.61- 289.93- 5.49	4.59	199086.06 2813.14 31.27-	.72	2866.20 31.75
72.5	25103.91- 465.04- 1.44	4.85	17091.53- 287.87- 3.53-	5.34	200488.64 2796.81 33.16-	.84	2849.79 33.37
73.0	25337.25- 464.67- 1.26-	4.05	17234.48- 293.46- 6.15-	4.44	201882.88 2779.98 32.87-	.69	2833.78 33.46
73.5	25568.59- 466.30- .80-	5.55	17384.99- 294.02- 2.15	6.09	203268.63 2763.93 31.52-	.96	2818.37 31.60
74.0	25803.56- 465.48- .05-	4.00	17528.50- 291.30- 2.77	4.38	204646.82 2748.45 31.47-	.69	2802.77 31.59
74.5	26034.07- 466.35- 1.60	4.47	17676.30- 291.24- 4.23	4.89	206017.09 2732.46 31.10-	.77	2787.23 31.43
75.0	26269.92- 463.87- 1.38-	3.53	17819.75- 287.06- 2.16-	3.88	207379.28 2717.35 34.39-	.61	2771.56 34.48
75.5	26497.95- 467.74- 2.98	5.78	17963.37- 293.41- .34	6.35	208734.44 2698.07 33.69-	1.00	2753.98 33.82
76.0	26737.66- 460.89- 13.92	2.93	18113.16- 286.72- 8.07	3.22	210077.35 2683.65 26.47-	.50	2738.00 30.98
76.5	26958.84- 453.82- 6.71-	2.08	18250.09- 285.33- 9.68-	2.31	211418.10 2671.59 31.57-	.36	2724.84 33.69
77.0	27191.49- 467.60- 11.58-	2.37	18398.50- 296.40- 3.18-	2.62	212748.95 2652.08 37.09-	.41	2709.25 38.99
77.5	27426.42- 465.36- 14.46	5.44	18546.52- 288.36- 9.60	5.98	214070.25 2634.50 31.28-	.94	2690.79 35.77

SM 1.08

78.0	27656.77- 453.14- 7.42	4.03	18686.92- 286.82- 5.90-	4.46	215383.53 2620.80 28.30-	.70	2675.11 29.85
78.5	27879.56- 457.94- 12.32-	3.18	18833.34- 294.26- 6.36-	3.49	216691.05 2606.20 31.59-	.55	2662.43 34.50
79.0	28114.71- 465.46- 8.89-	1.54	18981.18- 293.18- 4.14	1.70	217989.73 2589.20 35.38-	.26	2647.00 36.71
79.5	28345.02- 466.83- 2.39-	4.24	19126.53- 290.11- 2.13	4.66	219280.26 2570.82 34.65-	.74	2628.91 34.79
80.0	28581.54- 467.86- .39	2.76	19271.30- 291.05- 1.79	3.00	220560.55 2554.55 30.79-	.48	2613.30 30.84
80.5	28812.88- 466.44- 9.20	5.00	19417.58- 288.31- 6.02	5.45	221834.82 2540.02 29.26-	.87	2598.54 31.25
81.0	29047.98- 458.65- 7.40	1.15	19559.61- 285.03- .30	1.26	223100.57 2525.29 31.23-	.19	2582.38 32.09
81.5	29271.54- 459.04- 10.67-	4.22	19702.61- 288.01- 8.68-	4.65	224360.11 2508.79 33.76-	.74	2566.65 36.45
82.0	29507.02- 469.33- 7.23-	2.47	19847.62- 293.71- .93	2.72	225609.37 2491.53 31.52-	.43	2552.31 32.35
82.5	29740.87- 466.27- 12.73	5.57	19996.33- 287.08- 11.15	6.11	226851.65 2477.26 28.92-	.98	2537.06 33.51
83.0	29973.30- 456.60- 6.52	.94	20134.71- 282.56- 1.90-	1.07	228086.64 2462.61 31.69-	.17	2520.47 32.41
83.5	30197.47- 459.74- 4.75-	3.60	20278.89- 288.98- 8.80-	3.97	229314.26 2445.57 34.25-	.63	2505.14 35.69
84.0	30433.04- 461.35- 8.25-	3.02	20423.69- 291.36- 3.94	3.31	230532.22 2428.35 33.13-	.53	2488.90 34.37
84.5	30658.82- 468.00- 1.60	4.90	20570.26- 285.03- 13.57	5.37	231742.61 2412.44 30.07-	.86	2473.89 33.03
85.0	30901.05- 459.75- 17.22	1.11	20708.72- 277.79- 1.97-	1.24	232944.66 2398.28 30.18-	.20	2457.70 34.80
85.5	31118.58- 450.78- 5.01-	1.97	20848.05- 287.00- 20.03-	2.18	234140.89 2382.26 34.79-	.34	2441.46 40.46
86.0	31351.83- 464.76- 17.84-	3.42	20995.73- 297.83- .43	3.74	235326.92 2363.48 34.17-	.60	2427.08 38.54
86.5	31583.34- 468.62- .71	4.48	21145.89- 286.57- 16.64	4.91	236504.38 2348.09 29.82-	.79	2411.48 34.16
87.0	31820.45- 464.05- 13.49	1.48	21282.31- 281.18- 2.56-	1.61	237675.02 2333.66 29.11-	.25	2395.90 32.18
87.5	32047.39- 455.12- 5.06	1.32	21427.07- 289.13- 10.33-	1.43	238838.04 2318.98 31.66-	.23	2380.84 33.69
88.0	32275.58- 458.98- 11.57-	3.59	21571.44- 291.51- 1.79-	3.95	239994.00 2301.99 34.90-	.64	2365.33 36.81
88.5	32506.37- 466.70- 8.13	1.16	21718.59- 290.92- 19.26-	1.29	241140.03 2284.07 34.93-	.20	2349.35 40.71

SM 1.08

89.0	32740.02- 446.38- 10.08	3.43	21864.65- 315.25- 23.57-	3.76	242278.09 2267.07 31.32-	.61	2332.01 40.48
89.5	32952.64- 454.38- 36.91-	3.16	22033.89- 316.77- 40.51	3.48	243407.12 2252.75 27.99-	.57	2319.85 61.53
90.0	33194.41- 483.29- 9.60-	2.53	22181.42- 274.74- 37.86	2.78	244530.85 2239.08 30.58-	.45	2307.06 49.60
90.5	33435.94- 463.99- 22.58	1.70	22308.63- 278.91- 15.27-	1.87	245646.21 2222.17 34.22-	.30	2287.16 43.75
91.0	33658.40- 460.71- 1.79-	3.07	22460.34- 290.01- 2.17-	3.37	246753.02 2204.85 33.06-	.55	2271.06 33.18
91.5	33896.66- 465.78- 8.04	2.76	22598.64- 281.09- 1.34	3.00	247851.07 2189.11 30.09-	.49	2255.69 31.17
92.0	34124.18- 452.66- 5.30	3.67	22741.43- 288.66- 4.44-	4.03	248942.13 2174.76 30.11-	.66	2240.05 30.89
92.5	34349.32- 460.47- 9.51-	3.14	22887.30- 285.53- 1.64	3.47	250025.83 2158.99 31.76-	.57	2225.94 33.19
93.0	34584.66- 462.17- 1.14-	3.99	23026.96- 287.02- 1.64-	4.38	251101.12 2143.00 32.84-	.72	2210.98 32.90
93.5	34811.50- 461.62- 2.55	4.09	23174.32- 287.17- 2.89	4.49	252168.83 2126.15 32.42-	.74	2194.55 32.65
94.0	35046.28- 459.61- 7.57-	3.02	23314.13- 284.12- 17.85	3.32	253227.28 2110.57 28.58-	.55	2178.64 34.54
94.5	35271.12- 469.19- 44.96-	3.82	23458.45- 269.32- 34.35	4.19	254279.41 2097.56 30.21-	.69	2166.20 64.14
95.0	35515.47- 504.58- 27.68-	3.37	23583.45- 249.77- 1.19	3.70	255324.84 2080.36 36.67-	.62	2155.20 45.96
95.5	35775.70- 496.88- 39.60	2.27	23708.22- 268.12- 26.98-	2.51	256359.77 2060.89 34.96-	.42	2136.83 59.32
96.0	36012.35- 464.97- 43.36	3.10	23851.58- 276.75- 4.32-	3.40	257385.73 2045.39 28.71-	.57	2115.75 52.19
96.5	36240.68- 453.51- 14.10	1.97	23984.98- 272.44- 10.83-	2.17	258405.16 2032.17 28.29-	.36	2099.91 33.41
97.0	36465.87- 450.87- 12.28-	1.75	24124.02- 287.59- 22.18-	1.94	259417.91 2017.09 33.12-	.32	2086.78 41.71
97.5	36691.55- 465.79- 12.96-	3.98	24272.57- 294.62- 8.92-	4.38	260422.26 1999.04 35.28-	.74	2073.63 38.62
98.0	36931.66- 463.83- 7.77	1.44	24418.65- 296.51- 10.66	1.58	261416.95 1981.81 32.07-	.26	2056.86 34.68
98.5	37155.39- 458.01- 5.60	2.63	24569.08- 283.96- 24.16	2.90	262404.08 1966.97 28.55-	.48	2039.45 37.82
99.0	37389.68- 458.23- 11.56	1.35	24702.61- 272.34- 1.90-	1.48	263383.93 1953.26 28.36-	.24	2024.69 30.68
99.5	37613.63- 446.44- 2.51	2.30	24841.43- 285.86- 18.80-	2.50	264357.35 1938.61 31.69-	.42	2009.78 36.93

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100.0	37836.12- 459.72- 19.82-	3.12	24988.48- 291.15- 2.35-	3.43	265322.54 1921.57 33.78-	.57	1996.22 39.24
100.5	38069.35- 466.27- 15.71-	2.12	25132.58- 288.21- .52-	2.34	266278.92 1904.82 33.68-	.39	1982.13 37.17
101.0	38302.40- 471.43- 7.12-	3.41	25276.69- 291.67- 5.44-	3.75	267227.36 1887.89 33.82-	.64	1967.60 34.99
101.5	38540.78- 473.39- 6.06	6.90	25424.25- 293.66- 6.63	7.56	268166.81 1871.00 31.48-	1.30	1952.17 32.74
102.0	38775.80- 465.37- 11.60	5.26	25570.36- 285.04- 12.47	5.77	269098.36 1856.40 29.75-	.99	1934.95 34.28
102.5	39006.16- 461.79- 7.62	5.53	25709.29- 281.19- 4.09	6.07	270023.21 1841.24 29.82-	1.04	1918.98 31.05
103.0	39237.59- 457.75- 2.49-	4.73	25851.55- 280.94- .35	5.20	270939.60 1826.57 31.25-	.89	1903.90 31.35
103.5	39463.91- 464.29- 6.44-	5.61	25990.24- 280.84- 3.24-	6.13	271849.79 1809.98 33.91-	1.06	1889.57 34.66
104.0	39701.88- 464.19- 7.30	3.50	26132.39- 284.18- 3.00-	3.85	272749.59 1792.66 32.35-	.67	1873.47 33.29
104.5	39928.11- 456.99- .76	5.73	26274.43- 283.84- 3.73	6.28	273642.46 1777.63 30.50-	1.09	1857.25 30.73
105.0	40158.87- 463.43- .40-	5.56	26416.23- 280.45- 6.93	6.11	274527.22 1762.16 29.12-	1.07	1843.54 29.93
105.5	40391.55- 457.39- 5.09	2.45	26554.88- 276.90- .36	2.68	275404.63 1748.51 29.93-	.46	1828.43 30.36
106.0	40616.27- 458.33- 4.50-	5.26	26693.14- 280.09- 9.55-	5.77	276275.73 1732.23 34.06-	1.01	1813.60 35.66
106.5	40849.88- 461.90- 2.89-	4.64	26834.98- 286.46- 10.63	5.11	277136.86 1714.44 31.44-	.89	1798.54 33.32
107.0	41078.17- 461.23- 17.06-	5.21	26979.60- 269.45- 3.13-	5.72	277990.18 1700.78 32.73-	1.00	1782.70 37.04
107.5	41311.12- 478.96- 16.31-	4.09	27104.43- 289.59- 78.12-	4.49	278837.65 1681.71 39.43-	.79	1772.40 89.01
108.0	41557.14- 477.54- 7.77	3.49	27269.20- 347.57- 24.66-	3.84	279671.89 1661.35 29.52-	.67	1763.22 39.24
108.5	41788.67- 471.19- 9.80	3.20	27452.01- 314.26- 78.57	3.52	280499.00 1652.19 20.04-	.62	1746.57 81.68
109.0	42030.72- 469.98- 4.29	4.13	27580.79- 265.78- 7.87	4.57	281324.08 1641.37 36.09-	.80	1727.90 37.19
109.5	42258.50- 469.41- 4.31-	3.90	27718.22- 303.57- 46.82-	4.41	282140.37 1616.08 45.37-	.79	1710.04 65.34
110.0	42500.14- 474.30- 21.70	4.17	27884.37- 312.60- 9.80	4.58	282940.17 1596.00 26.88-	.82	1694.08 35.91
110.5	42732.80- 447.71- 27.63	4.81	28030.82- 293.77- 26.09	5.26	283736.37 1589.20 19.56-	.96	1676.99 42.74

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111.0	42947.85- 446.67- 14.09-	5.47	28178.15- 286.50- 14.30	6.00	284529.37 1576.44 30.77-	1.08	1663.36 36.74
111.5	43179.47- 461.80- 4.72-	3.69	28317.33- 279.47- 22.83-	4.00	285312.81 1558.42 38.79-	.71	1649.26 45.26
112.0	43409.66- 451.39- 15.89	4.92	28457.62- 309.34- .98-	5.44	286087.80 1537.64 34.35-	.98	1632.11 37.86
112.5	43630.87- 445.91- 3.10	3.85	28626.68- 280.45- 60.18	4.32	286850.46 1524.07 22.35-	.80	1612.54 64.27
113.0	43855.57- 448.28- 5.88-	4.87	28738.07- 249.16- 2.78	5.39	287611.88 1515.29 25.56-	.98	1599.73 26.38
113.5	44079.15- 451.80- 5.58-	6.10	28875.84- 277.67- 35.82-	6.65	288365.75 1498.51 34.77-	1.22	1589.58 50.23
114.0	44307.37- 453.86- 1.78-	5.39	29015.74- 284.98- 34.51-	5.92	289110.39 1480.52 39.32-	1.09	1574.53 52.34
114.5	44533.02- 453.58- 38.27	5.43	29160.82- 312.18- 8.41-	5.97	289846.27 1459.19 32.06-	1.10	1559.62 50.63
115.0	44760.95- 415.59- 51.97	5.65	29327.93- 293.39- 61.00	6.21	290569.58 1448.46 18.47-	1.14	1535.19 82.24
115.5	44948.61- 401.60- 9.98-	11.09	29454.21- 251.18- 47.21	12.09	291294.73 1440.71 25.20-	2.21	1516.58 54.44
116.0	45162.56- 425.57- 43.23-	9.87	29579.11- 246.18- 32.09	10.77	292010.30 1423.25 33.46-	1.97	1505.77 63.39
116.5	45374.19- 444.83- 41.44-	9.42	29700.39- 219.08- 13.73	10.29	292717.98 1407.25 36.96-	1.89	1492.06 57.21
117.0	45607.39- 467.02- 25.12-	7.89	29798.20- 232.44- 59.45-	8.66	293417.55 1386.28 42.88-	1.61	1481.18 77.48
117.5	45841.21- 469.96- 14.24	6.83	29932.84- 278.53- 46.24-	7.51	294104.27 1364.37 34.74-	1.41	1469.68 59.56
118.0	46077.36- 452.77- 26.87	8.43	30076.73- 278.68- 8.50	9.28	294781.92 1351.53 22.27-	1.73	1452.35 35.92
118.5	46293.99- 443.09- 2.99-	7.90	30211.52- 270.03- .65	8.65	295455.81 1342.09 27.67-	1.62	1438.91 27.83
119.0	46520.45- 455.76- 22.49-	8.08	30346.77- 278.03- 21.78-	8.80	296124.02 1323.86 41.71-	1.65	1427.46 52.16
119.5	46749.76- 465.58- .36-	8.19	30489.55- 291.81- .91-	9.04	296779.67 1300.37 36.45-	1.69	1411.70 36.46
120.0	46986.04- 456.13- 10.55	8.32	30638.58- 278.94- 6.20	9.03	297424.40 1287.41 28.65-	1.69	1394.02 31.15
120.5	47205.89- 455.03- 3.53-	9.62	30768.50- 285.61- .21	10.56	298067.09 1271.72 37.17-	1.98	1380.54 37.34
121.0	47441.07- 459.67- 12.47	11.03	30924.19- 278.72- 24.09	12.08	298696.12 1250.23 31.22-	2.30	1360.91 41.36
121.5	47665.57- 442.56- 7.16-	9.42	31047.23- 261.52- 3.06	10.25	299317.32 1240.50 21.34-	1.95	1342.79 22.72

SM 1.08

122.0	47883.64- 466.83- 31.01-	10.60	31185.72- 275.66- 17.75-	11.66	299936.62 1228.88 27.48-	2.22	1343.16 45.07
122.5	48132.40- 473.57- 10.20	8.71	31322.89- 279.27- 3.32-	9.60	300546.21 1213.01 26.57-	1.83	1331.79 28.65
123.0	48357.21- 456.62- 12.33	9.84	31464.99- 278.98- 4.33	10.82	301149.64 1202.31 24.74-	2.07	1316.02 27.98
123.5	48589.02- 461.24- 1.34	10.65	31601.88- 274.93- 1.98-	11.58	301748.53 1188.27 34.03-	2.23	1303.96 34.12
124.0	48818.45- 455.28-	10.28	31739.92- 280.97-	11.34	302337.91 1168.28	2.19	1284.95
124.5	49044.31-	9.55	31882.86-	10.41	302916.81	2.01	

SM 1.09

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	21.77-	.96	5.33-	1.00	0452.35	2.16	
1.5	53.41- 72.69-	1.81	13.41- 14.29-	1.88	776.19 751.08	2.66	754.73
2.0	94.46- 95.95- 37.81-	.84	19.62- 18.24- 10.11-	.97	1203.43 928.23 266.67	1.18	933.35 269.53
2.5	149.37- 110.51- 18.70-	.51	31.66- 24.40- 7.01-	.70	1704.42 1017.76 118.13	.72	1024.03 119.81
3.0	204.98- 114.65- 11.00-	.65	44.02- 25.25- 1.05-	.69	2221.20 1046.36 52.48	.77	1052.93 53.63
3.5	264.03- 121.51- 11.74-	.50	56.92- 25.46- .31-	.58	2750.79 1070.25 46.34	.55	1077.42 47.81
4.0	326.49- 126.40- 9.90-	.10	69.49- 25.57- 1.71-	.08	3291.45 1092.71 44.64	.09	1100.30 45.75
4.5	390.44- 131.42- 11.06-	.70	82.49- 27.17- 2.63-	.71	3843.50 1114.89 43.73	.58	1122.94 45.19
5.0	457.91- 137.46- 10.50-	1.09	96.66- 28.20- 1.74-	1.14	4406.34 1136.45 44.43	.95	1145.08 45.69
5.5	527.90- 141.92- 8.89-	1.31	110.70- 28.92- 2.07-	1.35	4979.96 1159.33 46.58	1.09	1168.34 47.47
6.0	599.83- 146.36- 9.67-	1.79	125.59- 30.28- 2.36-	1.87	5565.68 1183.03 47.15	1.52	1192.44 48.19
6.5	674.27- 151.59- 7.95-	2.23	140.98- 31.28- .31	2.33	6162.99 1206.48 46.21	1.83	1216.37 46.89
7.0	751.43- 154.31- 7.04-	2.53	156.87- 29.96- 1.47	2.61	6772.16 1229.25 47.24	2.04	1239.26 47.78
7.5	828.59- 158.63- 11.80-	.80	170.94- 29.81- 2.59-	.81	7392.25 1253.72 51.42	.59	1264.07 52.82
8.0	910.06- 166.12- 13.24-	.45	186.68- 32.56- 4.10-	.46	8025.89 1280.67 53.98	.31	1291.81 55.74
8.5	994.71- 171.88- 10.93-	.28	203.50- 33.91- 2.17-	.29	8672.93 1307.71 54.88	.16	1319.39 56.00
9.0	1081.95- 177.05- 10.39-	.25	220.59- 34.73- 2.16-	.26	9333.61 1335.56 56.42	.15	1347.70 57.41
9.5	1171.77- 182.27- 10.74-	.24	238.24- 36.07- 2.07-	.22	10008.49 1364.14 58.14	.15	1376.73 59.16
10.0	1264.22- 187.79- 13.03-	.24	256.66- 36.81- .25-	.23	10697.75 1393.71 60.51	.14	1406.78 61.90
10.5	1359.57- 195.30- 13.35-	.38	275.06- 36.32- 2.11-	.37	11402.21 1424.65 61.33	.22	1438.43 62.80
11.0	1459.53- 201.15- 11.91-	1.33	292.99- 38.93- 5.60-	1.38	12122.40 1455.03 61.79	.88	1469.39 63.18

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11.5	1560.72- 207.22- 14.09-	.81	313.99- 41.93- 3.25-	.87	12857.24 1486.44 64.55	.50	1501.40 66.15
12.0	1666.75- 215.25- 16.65-	.84	334.92- 42.18- 2.87-	.89	13608.85 1519.59 66.44	.54	1535.34 68.55
12.5	1775.97- 223.87- 15.86-	.88	356.18- 44.80- 3.04-	.90	14376.84 1552.88 67.01	.55	1569.58 68.93
13.0	1890.63- 231.11- 14.05-	1.66	379.72- 45.22- .56	1.75	15161.73 1586.61 68.15	1.04	1603.99 69.58
13.5	2007.09- 237.93- 17.95-	1.11	401.40- 44.23- .05-	1.17	15963.45 1621.04 69.99	.68	1639.00 72.26
14.0	2128.56- 249.07- 23.26-	1.10	423.96- 45.27- 3.56-	1.16	16782.77 1656.60 70.75	.66	1675.83 74.56
14.5	2256.16- 261.19- 23.55-	1.36	446.68- 47.80- 3.80-	1.42	17620.06 1691.79 72.09	.80	1712.50 75.93
15.0	2389.76- 272.63- 21.04-	.27	471.77- 49.08- .72	.27	18474.57 1728.70 76.77	.11	1750.75 79.60
15.5	2528.79- 282.24- 18.96-	.04	495.76- 47.08- 2.80	.06	19348.76 1768.56 81.14	.01	1791.56 83.37
16.0	2672.01- 291.59- 20.85-	.40	518.85- 46.28- .41	.41	20243.14 1809.84 83.58	.20	1833.77 86.14
16.5	2820.39- 303.09- 21.01-	1.11	542.04- 46.66- 1.03	1.19	21158.61 1852.15 84.71	.59	1877.36 87.29
17.0	2975.11- 312.60- 18.14-	2.85	565.51- 45.24- 3.24	3.05	22095.29 1894.56 85.99	1.49	1920.71 87.94
17.5	3132.99- 321.24- 20.08-	3.25	587.29- 43.42- 1.80	3.51	23053.17 1938.14 88.72	1.65	1965.06 90.98
18.0	3296.35- 332.69- 22.90-	3.62	608.94- 43.44- .36-	3.87	24033.43 1983.29 91.11	1.79	2011.47 93.95
18.5	3465.68- 344.14- 24.70-	3.78	630.73- 43.79- 3.07-	4.05	25036.46 2029.25 92.50	1.84	2058.69 95.79
19.0	3640.49- 357.39- 28.33-	3.88	652.73- 46.51- 3.50-	4.19	26062.68 2075.79 94.57	1.82	2106.84 98.79
19.5	3823.08- 372.47- 28.81-	3.65	677.24- 47.30- 1.78	3.90	27112.25 2123.83 97.88	1.68	2156.76 102.04
20.0	4012.97- 386.20- 26.09-	3.38	700.03- 44.73- 5.64	3.64	28186.52 2173.67 100.78	1.51	2208.17 104.25
20.5	4209.29- 398.56- 27.12-	3.68	721.98- 41.65- 3.22	3.98	29285.93 2224.61 103.31	1.61	2260.42 106.86
21.0	4411.54- 413.32- 32.45-	3.19	741.68- 41.51- 2.19-	3.45	30411.14 2276.99 106.61	1.35	2314.57 111.45
21.5	4622.61- 431.01- 38.60-	3.07	763.48- 43.84- 1.33-	3.32	31562.92 2331.22 110.05	1.26	2371.14 116.63
22.0	4842.56- 451.93- 39.40-	3.69	785.53- 42.84- 2.85	4.01	32742.36 2387.04 114.85	1.48	2429.82 121.45

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22.5	5074.55- 470.42- 30.40-	4.74	806.33- 40.99- 4.05	5.12	33949.97 2446.08 120.66	1.86	2491.24 124.50
23.0	5312.98- 482.34- 23.02-	5.93	826.52- 38.78- 5.61	6.43	35188.44 2507.70 124.70	2.26	2553.96 126.93
23.5	5556.89- 493.44- 28.03-	6.21	845.11- 35.38- .70	6.74	36457.67 2570.78 129.18	2.29	2617.95 132.18
24.0	5806.42- 510.37- 41.77-	4.72	861.90- 38.08- 19.70-	5.11	37759.23 2636.89 134.40	1.70	2686.09 142.11
24.5	6067.26- 535.21- 41.77-	4.86	883.20- 55.08- 19.18-	5.27	39094.57 2705.18 139.36	1.68	2758.17 146.74
25.0	6341.63- 552.14- 29.41-	8.66	916.99- 57.26- 11.06	9.41	40464.42 2776.25 145.17	2.95	2831.20 148.53
25.5	6619.40- 564.63- 30.26-	7.50	940.46- 44.01- 13.84	8.16	41870.82 2850.36 150.05	2.48	2906.08 153.69
26.0	6906.27- 582.40- 39.06-	7.27	961.00- 43.42- 1.08-	7.90	43314.78 2926.30 155.05	2.33	2984.01 159.90
26.5	7201.81- 603.69- 43.42-	6.07	983.88- 45.10- 1.91-	6.62	44797.13 3005.41 161.98	1.89	3065.78 167.71
27.0	7509.96- 625.82- 37.79-	6.61	1006.11- 45.33- .79-	7.21	46320.20 3088.29 167.98	2.00	3151.39 172.18
27.5	7827.64- 641.48- 34.85-	6.99	1029.22- 45.89- 1.49-	7.62	47885.42 3173.40 172.89	2.06	3237.91 176.37
28.0	8151.45- 660.68- 43.68-	5.50	1052.00- 46.83- 2.89-	5.99	49493.60 3261.18 179.43	1.57	3327.76 184.69
28.5	8488.33- 685.17- 51.03-	5.00	1076.05- 48.79- .48	5.45	51146.61 3352.83 186.89	1.40	3422.47 193.73
29.0	8836.63- 711.72- 47.52-	4.48	1100.80- 46.34- 3.68	4.88	52846.44 3448.08 194.31	1.22	3521.07 200.07
29.5	9200.05- 732.70- 39.16-	5.87	1122.39- 45.11- 2.55-	6.41	54594.69 3547.14 201.64	1.56	3622.31 205.42
30.0	9569.33- 750.88- 41.89-	5.41	1145.91- 48.89- 5.25-	5.91	56393.59 3649.72 209.07	1.39	3726.48 213.29
30.5	9950.93- 774.59- 49.81-	4.55	1171.29- 50.36- 3.42-	4.95	58244.41 3756.21 216.95	1.14	3835.58 222.62
31.0	10343.93- 800.69- 50.93-	5.11	1196.27- 52.32- 4.81-	5.57	60149.81 3866.67 220.80	1.25	3949.05 226.65
31.5	10751.62- 825.52- 47.77-	4.80	1223.62- 55.17- 4.42-	5.23	62111.08 3977.02 214.22	1.14	4062.17 219.53
32.0	11169.45- 848.46- 42.52-	6.27	1251.44- 56.74- 3.65-	6.87	64126.83 4080.90 178.01	1.47	4168.55 183.05
32.5	11600.09- 868.05- 24.89-	6.14	1280.37- 58.82- 2.57-	6.71	66191.99 4155.03 89.99	1.40	4245.15 93.40
33.0	12037.51- 873.36- 3.91-	5.64	1310.26- 59.32- 2.19-	6.17	68281.87 4170.89 7.87-	1.26	4261.76 9.06

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33.5	12473.45- 871.96- 4.38	5.92	1339.69- 61.01- .99-	6.47	70362.88 4147.15 53.52-	1.29	4238.27 53.71
34.0	12909.48- 868.97- 5.78	6.18	1371.28- 60.31- 1.16	6.75	72429.03 4117.37 60.00-	1.33	4208.50 60.29
34.5	13342.43- 866.18- 3.97	5.60	1400.00- 59.84- 1.12-	6.14	74480.26 4087.15 59.88-	1.18	4178.35 60.02
35.0	13775.66- 865.00- 4.04	6.02	1431.13- 61.44- .04	6.59	76516.18 4057.49 57.93-	1.25	4149.12 58.07
35.5	14207.43- 862.13- 4.13	5.32	1461.44- 59.80- 1.22	5.82	78537.75 4029.22 55.78-	1.09	4120.86 55.95
36.0	14637.79- 860.87- 4.01	5.95	1490.93- 60.21- .67-	6.51	80545.40 4001.70 53.91-	1.21	4093.69 54.06
36.5	15068.30- 858.12- 5.50	6.19	1521.65- 60.48- 1.66	6.78	82539.45 3975.31 51.40-	1.24	4067.32 51.72
37.0	15495.92- 855.36- 3.21	6.10	1551.41- 58.54- 2.52	6.69	84520.72 3950.29 49.60-	1.20	4042.26 49.77
37.5	15923.67- 854.90- 2.09	5.69	1580.20- 57.95- 1.68-	6.22	86489.75 3925.70 48.66-	1.12	4018.13 48.74
38.0	16350.83- 853.27- 2.92	5.73	1609.37- 60.22- .59-	6.27	88446.42 3901.62 47.42-	1.11	3994.29 47.51
38.5	16776.94- 851.98- 1.27	4.77	1640.42- 58.55- 3.81	5.26	90391.37 3878.28 47.19-	.92	3971.19 47.36
39.0	17202.81- 852.00- 1.89	5.34	1667.92- 56.41- 2.56	5.85	92324.70 3854.43 46.59-	1.02	3947.87 46.70
39.5	17628.95- 850.09- 1.87	4.81	1696.84- 55.98- .15	5.28	94245.80 3831.68 44.47-	.91	3925.25 44.51
40.0	18052.91- 850.13- 3.39-	4.74	1723.91- 56.26- .90-	5.21	96156.39 3809.96 43.42-	.89	3904.06 43.56
40.5	18479.08- 853.48- 1.56-	4.40	1753.10- 56.89- .34-	4.81	98055.77 3788.26 42.46-	.82	3883.63 42.49
41.0	18906.39- 851.69- .49	4.47	1780.80- 56.60- .36	4.92	99944.65 3767.49 41.57-	.84	3862.97 41.58
41.5	19330.77- 852.99- 1.78-	5.15	1809.71- 56.53- .90-	5.64	101823.26 3746.68 41.40-	.96	3842.97 41.45
42.0	19759.38- 853.47- 1.08	4.85	1837.33- 57.50- 1.33-	5.32	103691.34 3726.08 40.78-	.90	3823.01 40.81
42.5	20184.25- 851.91- .34	4.93	1867.22- 57.86- 2.67	5.41	105549.35 3705.90 39.30-	.91	3802.99 39.39
43.0	20611.29- 853.13- .65-	4.87	1895.20- 54.83- 2.27	5.34	107397.24 3686.78 37.64-	.90	3784.60 37.71
43.5	21037.38- 852.56- .54	5.66	1922.05- 55.59- 2.91-	6.20	109236.13 3668.25 37.72-	1.04	3766.44 37.83
44.0	21463.86- 852.58- .26	5.93	1950.79- 57.74- .56-	6.53	111065.50 3649.06 37.07-	1.09	3747.78 37.07

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44.5	21889.97- 852.29- .59	5.79	1979.79- 56.16- 5.23	6.35	112885.20 3631.18 36.57-	1.06	3730.29 36.94
45.0	22316.15- 851.99- .53-	5.45	2006.96- 52.51- 2.89	5.98	114696.68 3612.49 37.97-	1.00	3711.97 38.08
45.5	22741.96- 852.83- 2.96-	6.05	2032.30- 53.26- .77-	6.65	116497.69 3593.21 36.70-	1.10	3693.42 36.82
46.0	23168.99- 854.96- 1.38-	5.99	2060.22- 53.28- 2.94	6.58	118289.90 3575.79 34.75-	1.09	3676.96 34.90
46.5	23596.92- 854.21- 2.37	5.89	2085.58- 50.32- 3.89	6.47	120073.49 3558.46 34.56-	1.08	3659.90 34.86
47.0	24023.20- 852.59- 1.79	5.54	2110.54- 49.38- .60-	6.08	121848.36 3541.23 34.59-	1.01	3642.75 34.64
47.5	24449.51- 852.42- 1.26	5.82	2134.97- 50.92- .35-	6.35	123614.72 3523.87 34.80-	1.06	3625.86 34.82
48.0	24875.62- 851.32- 1.91	5.97	2161.47- 49.73- 2.58	6.53	125372.23 3506.43 34.90-	1.09	3608.64 35.04
48.5	25300.84- 850.50- 1.05	5.56	2184.70- 48.34- 2.08	6.10	127121.15 3488.96 34.52-	1.02	3591.46 34.59
49.0	25726.13- 850.27- .02	5.02	2209.81- 47.65- 1.01-	5.50	128861.20 3471.91 33.98-	.91	3574.82 34.00
49.5	26151.11- 850.47- .30-	6.53	2232.36- 49.35- 1.06-	7.18	130593.06 3454.98 33.32-	1.19	3558.45 33.34
50.0	26576.60- 850.57- 1.15	5.38	2259.16- 48.71- 3.24	5.90	132316.18 3438.58 32.54-	.98	3542.55 32.72
50.5	27001.69- 849.32- 2.28	4.81	2281.07- 46.10- 2.62	5.28	134031.64 3422.44 32.84-	.88	3526.55 33.02
51.0	27425.92- 848.29- 1.96	4.73	2305.26- 46.09- 1.44-	5.17	135738.62 3405.74 33.47-	.87	3510.10 33.56
51.5	27849.98- 847.35- 1.44	4.25	2327.16- 47.54- 1.77-	4.66	137437.39 3388.96 33.38-	.78	3493.61 33.46
52.0	28273.27- 846.84- .64	5.62	2352.81- 47.86- 1.15	6.15	139127.58 3372.36 32.98-	1.04	3477.39 33.00
52.5	28696.82- 846.70- 1.21	4.79	2375.03- 46.38- .44	5.25	140809.75 3355.98 32.64-	.88	3461.45 32.66
53.0	29119.98- 845.63- 2.09-	5.81	2399.20- 47.42- 1.28-	6.38	142483.56 3339.71 32.83-	1.08	3445.43 32.92
53.5	29542.45- 848.80- 5.14-	5.97	2422.45- 47.67- .02-	6.56	144149.46 3323.15 33.15-	1.11	3430.17 33.55
54.0	29968.78- 850.77- 1.02	5.40	2446.87- 47.44- 4.61-	5.91	145806.71 3306.55 32.79-	1.00	3414.58 33.13
54.5	30393.22- 847.78- 2.14	6.82	2469.90- 52.28- 5.35-	7.49	147456.02 3290.35 33.28-	1.27	3398.22 33.77
55.0	30816.56- 848.62- 2.07-	5.33	2499.16- 52.79- 4.79	5.84	149097.07 3273.27 33.99-	.99	3381.90 34.39

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55.5	31241.85- 849.85- 2.75-	5.78	2522.70- 47.49- 7.01	6.33	150729.29 3256.36 33.27-	1.08	3365.77 34.11
56.0	31666.42- 851.38- 3.13-	6.95	2546.65- 45.78- 1.48	7.61	152353.43 3239.99 32.91-	1.30	3350.30 33.09
56.5	32093.23- 852.98- 1.42	6.27	2568.49- 46.00- 1.47	6.88	153969.29 3223.45 31.97-	1.17	3334.71 32.03
57.0	32519.41- 849.96- 5.17	8.09	2592.66- 44.31- 2.21	8.90	155576.88 3208.02 31.05-	1.51	3319.00 31.55
57.5	32943.19- 847.81- .40-	8.02	2612.80- 43.79- 1.35	8.80	157177.31 3192.40 32.07-	1.50	3303.35 32.10
58.0	33367.22- 850.36- 5.82	8.85	2636.46- 42.96- 1.10-	9.72	158769.28 3175.95 31.82-	1.67	3288.10 32.37
58.5	33793.55- 841.98- 10.03	8.95	2655.76- 44.90- 2.51-	9.82	160353.26 3160.57 31.65-	1.70	3271.11 33.29
59.0	34209.21- 840.32- 2.36-	7.82	2681.36- 43.48- 3.82	8.60	161929.85 3144.30 32.55-	1.49	3254.97 32.86
59.5	34633.88- 844.35- 3.38-	8.05	2701.24- 41.08- .15-	8.83	163497.56 3128.01 32.89-	1.53	3240.23 33.06
60.0	35053.56- 843.71- 5.61-	7.14	2722.45- 45.63- 3.90-	7.86	165057.87 3111.40 33.67-	1.37	3224.09 34.35
60.5	35477.59- 849.96- 2.84-	8.28	2746.87- 44.98- 2.52	9.07	166608.97 3094.34 32.27-	1.58	3209.27 32.49
61.0	35903.53- 846.55- 6.84	6.77	2767.43- 43.10- 1.23-	7.44	168152.22 3079.13 30.91-	1.30	3193.67 31.68
61.5	36324.14- 843.11- 1.12	6.05	2789.98- 46.21- 1.00-	6.65	169688.11 3063.43 32.10-	1.16	3177.66 32.13
62.0	36746.64- 845.42- 3.52-	7.09	2813.64- 44.10- 2.02	7.76	171215.65 3047.03 33.12-	1.36	3162.45 33.37
62.5	37169.57- 846.64- 1.26-	6.68	2834.08- 44.19- .12-	7.36	172735.14 3030.30 33.04-	1.29	3146.66 33.06
63.0	37593.29- 846.69- 2.12	6.73	2857.84- 44.22- 2.51	7.37	174245.95 3013.99 31.78-	1.30	3130.97 31.95
63.5	38016.26- 844.51- .20	5.69	2878.31- 41.68- .72	6.26	175749.14 2998.52 31.86-	1.10	3115.45 31.86
64.0	38437.80- 846.48- .87-	5.70	2899.52- 43.50- 3.26-	6.25	177244.47 2982.13 32.21-	1.11	3100.25 32.38
64.5	38862.75- 845.39- 5.47	5.18	2921.81- 44.94- .05	5.69	178731.27 2966.30 31.12-	1.01	3084.75 31.60
65.0	39283.19- 841.01- 1.13	6.06	2944.46- 43.44- 2.95	6.67	180210.78 2951.00 31.85-	1.19	3068.81 32.00
65.5	39703.76- 844.26- 3.20-	6.76	2965.26- 41.98- .45-	7.43	181682.28 2934.45 32.73-	1.32	3053.77 32.89
66.0	40127.45- 844.22- .00-	6.70	2986.45- 43.90- 1.04-	7.34	183145.23 2918.27 32.39-	1.32	3038.24 32.41

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66.5	40547.99- 844.26- .44	7.80	3009.16- 43.03- 3.14	8.57	184600.55 2902.05 32.19-	1.54	3022.67 32.34
67.0	40971.71- 843.77- 1.63	7.50	3029.48- 40.76- 2.98	8.22	186047.29 2886.08 31.83-	1.48	3007.17 32.01
67.5	41391.76- 842.62- 1.72-	9.44	3049.92- 40.04- 1.22-	10.33	187486.63 2870.22 32.28-	1.87	2991.62 32.35
68.0	41814.34- 845.50- .79-	9.24	3069.53- 41.98- 3.59-	10.14	188917.51 2853.79 32.10-	1.84	2976.70 32.31
68.5	42237.26- 843.42- 2.89	9.51	3091.90- 43.63- .75	10.42	190340.43 2838.12 31.47-	1.89	2961.11 31.61
69.0	42657.77- 842.61- .65-	9.76	3113.17- 41.22- 2.16	10.70	191755.63 2822.31 31.90-	1.95	2945.70 31.98
69.5	43079.87- 844.07- 1.15	9.12	3133.13- 41.47- 1.02	10.00	193162.75 2806.21 31.67-	1.83	2930.70 31.71
70.0	43501.85- 841.45- .38	9.90	3154.64- 40.19- .79	10.89	194561.84 2790.64 32.58-	2.00	2915.02 32.59
70.5	43921.33- 843.69- 3.78-	9.72	3173.32- 40.68- 1.68-	10.66	195953.39 2773.62 33.69-	1.96	2899.39 33.95
71.0	44345.54- 845.23- .55	9.42	3195.32- 41.87- .87	10.37	197335.47 2756.94 31.93-	1.91	2883.91 31.94
71.5	44766.57- 843.14- .04	10.39	3215.20- 39.80- 1.84	11.39	198710.34 2741.69 31.65-	2.11	2868.69 31.70
72.0	45188.69- 845.19- .70-	9.47	3235.12- 40.02- 1.39-	10.39	200077.17 2725.29 32.02-	1.93	2853.63 32.06
72.5	45611.76- 843.85- 2.20	9.19	3255.23- 41.20- 1.72	10.07	201435.64 2709.67 30.84-	1.87	2838.32 30.97
73.0	46032.54- 842.99- 1.01-	10.44	3276.33- 38.30- 2.94	11.44	202786.84 2694.45 31.38-	2.14	2823.50 31.53
73.5	46454.75- 844.86- 10.40-	9.19	3293.53- 38.26- 3.77-	10.12	204130.09 2678.28 34.41-	1.89	2808.64 36.14
74.0	46877.41- 853.39- 2.91-	10.02	3314.59- 42.07- 3.10-	10.98	205465.12 2660.04 34.32-	2.06	2793.90 34.58
74.5	47308.15- 847.77- 16.02	7.97	3335.60- 41.36- 2.28	8.76	206790.13 2643.96 30.43-	1.64	2776.86 34.47
75.0	47725.18- 837.36- 9.40	9.74	3355.95- 39.79- 3.83	10.67	208109.09 2629.60 29.97-	2.02	2759.99 31.64
75.5	48145.52- 838.37- 6.96-	8.83	3375.39- 37.53- 1.12	9.69	209419.73 2613.99 32.13-	1.84	2745.40 32.90
76.0	48563.55- 844.32- 9.69-	9.31	3393.48- 38.66- 4.37-	10.19	210723.08 2597.46 33.49-	1.94	2731.52 35.13
76.5	48989.85- 848.06- 8.87-	8.15	3414.06- 41.90- 6.61	8.92	212017.20 2580.50 33.57-	1.70	2716.60 35.35
77.0	49411.61- 853.20- 4.11-	8.81	3435.39- 32.05- 11.35	9.68	213303.58 2563.88 31.56-	1.85	2702.31 33.79

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77.5	49835.16- 844.26- 1.47	7.51	3454.44- 38.83- .22-	8.24	214582.48 2550.28 30.98-	1.57	2686.67 31.02
78.0	50255.90- 844.01- .30	8.21	3474.51- 40.47- 1.72-	8.91	215853.91 2534.20 32.55-	1.73	2671.36 32.60
78.5	50679.17- 843.95- 1.12-	7.52	3494.91- 40.55- 1.73	8.23	217116.68 2517.72 31.93-	1.60	2655.72 31.99
79.0	51099.86- 845.13- 2.27-	8.55	3515.07- 38.73- 5.41	9.29	218371.64 2502.27 31.34-	1.80	2641.42 31.88
79.5	51524.30- 846.23- 2.62	11.35	3533.65- 35.14- 1.99	12.43	219618.95 2486.38 32.21-	2.43	2626.68 32.37
80.0	51946.10- 842.50- 5.95	11.49	3550.21- 36.74- 5.28-	12.59	220858.03 2470.06 32.28-	2.44	2610.05 33.24
80.5	52366.81- 840.28- .81	10.60	3570.40- 40.42- 2.44	11.55	222089.01 2454.10 31.56-	2.27	2594.29 31.66
81.0	52786.38- 841.69- 1.99-	12.98	3590.63- 34.30- 5.03	14.23	223312.13 2438.49 31.61-	2.80	2579.90 32.07
81.5	53208.50- 842.27- 1.68	10.62	3604.70- 35.39- 5.04-	11.64	224527.51 2422.48 31.98-	2.28	2564.98 32.42
82.0	53628.66- 840.01- 1.84	13.20	3626.03- 39.33- 3.76-	14.47	225734.62 2406.51 31.65-	2.84	2549.21 31.92
82.5	54048.52- 840.43- 3.31-	12.04	3644.04- 39.15- 2.57	13.30	226934.02 2390.83 31.78-	2.62	2534.55 32.05
83.0	54469.09- 843.32- 3.16-	14.59	3665.18- 36.76- 4.94	16.01	228125.45 2374.73 32.65-	3.17	2520.29 33.17
83.5	54891.85- 843.60- 1.23	12.76	3680.80- 34.21- 1.82-	13.97	229308.75 2358.18 32.92-	2.77	2504.76 32.99
84.0	55312.70- 842.09- 2.60-	14.51	3699.39- 38.59- 2.52-	15.97	230483.63 2341.80 33.00-	3.19	2488.91 33.19
84.5	55733.94- 846.20- 1.42-	13.51	3719.40- 36.73- 2.12	14.87	231650.56 2325.18 32.12-	2.96	2474.64 32.22
85.0	56158.91- 843.51- 10.86	13.00	3736.12- 36.46- .08-	14.27	232808.81 2309.68 29.85-	2.86	2459.16 31.76
85.5	56577.45- 835.34- 4.97	12.64	3755.86- 36.81- .97-	13.83	233960.24 2295.32 30.59-	2.80	2442.88 31.01
86.0	56994.25- 838.54- 8.80-	16.03	3772.94- 37.44- 2.03	17.56	235104.14 2279.08 32.88-	3.55	2428.74 34.10
86.5	57416.00- 844.15- 4.28-	13.90	3793.30- 34.78- 6.84	15.23	236239.33 2262.43 31.98-	3.08	2415.04 32.98
87.0	57838.41- 842.82- 4.38	13.53	3807.72- 30.60- .65-	14.90	237366.58 2247.10 30.68-	3.01	2400.15 30.99
87.5	58258.82- 839.77- 1.02-	11.40	3823.90- 35.43- 8.12-	12.46	238486.43 2231.75 32.04-	2.54	2384.78 33.07
88.0	58678.18- 843.84- 1.39-	12.16	3843.15- 38.72- 13.40	13.37	239598.34 2215.05 32.02-	2.72	2370.66 34.74

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88.5	59102.67- 841.17- 9.44	12.47	3862.63- 22.02- 10.45	13.61	240701.49 2199.73 30.23-	2.80	2355.17 33.35
89.0	59519.35- 834.40- 4.66	15.18	3865.18- 28.27- 22.39-	16.66	241798.07 2184.82 31.60-	3.40	2338.90 39.01
89.5	59937.07- 836.50- 4.76-	15.19	3890.90- 44.42- 6.08-	16.69	242886.32 2168.12 33.19-	3.44	2324.32 34.07
90.0	60355.85- 839.16- 3.91-	14.80	3909.60- 34.35- 12.54	16.24	243966.19 2151.63 32.48-	3.34	2309.74 35.03
90.5	60776.23- 840.41- .17	14.99	3925.25- 31.87- 2.16-	16.47	245037.95 2135.64 31.87-	3.41	2295.27 31.94
91.0	61196.26- 838.99- 3.64	14.45	3941.47- 36.52- 1.04-	15.84	246101.84 2119.76 30.99-	3.30	2280.05 31.22
91.5	61615.23- 836.76- 2.40	14.73	3961.77- 32.92- 6.73	16.17	247157.71 2104.65 30.67-	3.35	2265.13 31.49
92.0	62033.03- 836.59- 1.67-	13.95	3974.39- 29.78- 1.87	15.21	248206.49 2089.09 31.69-	3.20	2250.57 31.79
92.5	62451.83- 838.44- 2.34-	14.18	3991.55- 31.05- 1.60-	15.52	249246.80 2072.95 31.69-	3.26	2236.31 31.82
93.0	62871.47- 838.94- .40-	11.27	4005.44- 31.39- 7.19-	12.33	250279.45 2057.39 31.76-	2.59	2222.08 32.56
93.5	63290.77- 838.84- 2.85-	12.04	4022.94- 38.24- 2.47-	13.17	251304.19 2041.19 31.71-	2.80	2207.17 31.93
94.0	63710.31- 841.79- 7.77	13.44	4043.68- 33.86- 15.96	14.72	252320.64 2025.67 27.75-	3.12	2193.88 32.94
94.5	64132.57- 831.07- 14.93	10.32	4056.81- 22.28- 6.62	11.44	253329.87 2013.43 28.93-	2.40	2178.32 33.22
95.0	64541.38- 826.86- 4.31-	15.42	4065.96- 27.24- 11.29-	16.85	254334.08 1996.74 35.75-	3.57	2161.35 37.74
95.5	64959.43- 835.38- 12.94-	14.45	4084.05- 33.57- 8.67-	15.80	255326.61 1977.68 35.88-	3.38	2147.14 39.12
96.0	65376.76- 839.80- 10.10-	16.26	4099.54- 35.92- .14	17.91	256311.77 1960.86 33.96-	3.83	2133.43 35.43
96.5	65799.24- 845.49- .83	16.32	4119.97- 33.42- 3.49	17.85	257287.47 1943.71 31.34-	3.84	2119.90 31.55
97.0	66222.26- 838.97- 8.41	12.96	4132.97- 32.42- .39	14.18	258255.48 1929.51 29.25-	3.07	2104.27 30.44
97.5	66638.21- 837.07- 3.39-	16.67	4152.39- 33.03- 2.15-	18.32	259216.99 1914.46 31.97-	3.95	2089.72 32.22
98.0	67059.33- 842.36- 4.19-	14.82	4166.00- 34.58- .55-	16.24	260169.95 1897.54 32.49-	3.51	2076.40 32.77
98.5	67480.58- 841.27- 4.49	15.89	4186.97- 33.59- 3.74	17.35	261114.53 1881.96 30.53-	3.78	2061.71 31.08
99.0	67900.61- 837.87- 4.03	19.39	4199.58- 30.84- .78	21.26	262051.91 1867.01 30.71-	4.64	2046.63 30.98

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99.5	68318.45- 837.24- 3.55-	15.67	4217.82- 32.80- 10.77	17.11	262981.54 1851.25 31.06-	3.75	2032.04 33.06
100.0	68737.85- 841.42- .49	16.24	4232.38- 20.06- 21.46	17.79	263903.17 1835.94 30.07-	3.90	2019.67 36.95
100.5	69159.87- 836.74- 3.59	17.13	4237.88- 11.33- 14.32-	18.78	264817.49 1821.17 33.86-	4.12	2004.23 36.94
101.0	69574.59- 837.83- 8.87-	18.93	4243.72- 34.39- 43.57-	20.84	265724.34 1802.08 38.68-	4.60	1987.62 58.94
101.5	69997.71- 845.62- .68-	17.65	4272.28- 54.91- 5.22-	19.43	266619.57 1782.49 32.76-	4.29	1973.67 33.18
102.0	70420.22- 838.51- 8.29	15.19	4298.63- 39.61- 27.34	16.74	267506.84 1769.32 27.09-	3.71	1958.36 39.37
102.5	70836.22- 837.32- 1.12-	19.22	4311.89- 27.56- 7.65	21.03	268388.90 1755.39 30.16-	4.69	1945.06 31.14
103.0	71257.54- 839.64- 2.40	16.20	4326.20- 31.96- 6.13-	17.76	269262.24 1739.15 30.99-	3.96	1931.50 31.68
103.5	71675.86- 834.92- 5.74	17.16	4343.86- 33.69- 3.47	18.78	270128.06 1724.40 29.93-	4.20	1916.19 30.67
104.0	72092.46- 833.90- 1.63-	16.16	4359.90- 28.49- 4.57	17.73	270986.64 1709.22 31.69-	3.97	1902.01 32.05
104.5	72509.77- 836.55- .80-	17.52	4372.36- 29.12- 2.03-	19.11	271837.29 1692.71 31.76-	4.33	1888.36 31.84
105.0	72929.01- 834.70- 2.00	15.21	4389.03- 30.53- .66-	16.63	272679.35 1677.46 30.92-	3.77	1873.90 30.99
105.5	73344.47- 834.54- .12	15.30	4402.89- 29.79- .92-	16.74	273514.75 1661.78 31.53-	3.80	1859.80 31.54
106.0	73763.56- 834.58- 1.09-	13.65	4418.82- 31.45- .20-	14.98	274341.13 1645.92 31.65-	3.39	1845.69 31.67
106.5	74179.05- 836.01- 6.63-	15.63	4434.35- 30.32- 4.91-	17.15	275160.69 1630.02 33.94-	3.92	1832.16 34.93
107.0	74599.57- 841.22- 7.54-	15.02	4449.14- 36.37- 12.44-	16.48	275971.18 1611.97 35.54-	3.77	1818.63 38.40
107.5	75020.27- 843.55- 1.57-	16.79	4470.72- 42.76- .16-	18.36	276772.67 1594.49 33.23-	4.23	1804.38 33.26
108.0	75443.13- 842.79- 10.68	17.47	4491.90- 36.54- 10.18	19.18	277565.67 1578.74 29.07-	4.40	1789.99 32.60
108.5	75863.07- 832.87- 12.09	16.53	4507.26- 32.57- 4.76	18.20	278351.41 1565.41 28.14-	4.18	1773.48 31.00
109.0	76276.00- 830.70- 3.04-	17.21	4524.47- 31.77- 1.24	18.91	279131.08 1550.59 31.74-	4.36	1759.38 31.91
109.5	76693.77- 835.91- 6.91-	17.47	4539.04- 31.32- 4.00-	19.22	279902.01 1533.66- 33.23-	4.46	1746.95 34.18
110.0	77111.92- 837.62- .86	16.70	4555.80- 35.78- 1.63	18.27	280664.75 1517.36 31.06-	4.26	1733.57 31.12

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110.5	77531.39- 835.05- 3.31	18.34	4574.82- 29.68- 13.53	20.08	281419.37 1502.59 29.91-	4.70	1719.29 33.00
111.0	77946.97- 834.30- .88-	17.89	4585.49- 22.24- .73-	19.70	282167.35 1487.44 31.76-	4.62	1705.59 31.78
111.5	78365.69- 835.93- 2.93	16.49	4597.06- 30.42- 15.23-	18.06	282906.82 1470.83 31.44-	4.24	1692.05 35.06
112.0	78782.91- 831.36- 3.09	17.47	4615.91- 37.47- .72	19.18	283638.18 1456.00 30.36-	4.51	1677.05 30.53
112.5	79197.06- 832.83- 6.97-	17.97	4634.54- 29.69- 12.38	19.64	284362.83 1440.46 32.12-	4.65	1664.16 35.12
113.0	79615.74- 838.34- 4.23-	16.81	4645.60- 25.09- 1.30	18.47	285078.65 1423.88 32.02-	4.37	1652.53 32.32
113.5	80035.40- 837.06- .57	17.35	4659.63- 28.39- 6.97-	19.08	285786.71 1408.44 31.64-	4.53	1638.65 32.40
114.0	80452.81- 837.76- .52-	18.68	4673.99- 32.06- 2.20-	20.55	286487.09 1392.24 32.32-	4.89	1625.17 32.40
114.5	80873.16- 837.59- 9.25	18.70	4691.70- 30.59- 4.67	20.55	287178.95 1376.11 30.69-	4.92	1611.27 32.39
115.0	81290.40- 828.50- 11.43	18.16	4704.59- 27.38- 1.67	19.89	287863.20 1361.54 30.40-	4.77	1594.04 32.52
115.5	81701.66- 826.16- 7.15-	19.34	4719.09- 28.92- 1.47	21.21	288540.50 1345.71 33.82-	5.11	1579.34 34.60
116.0	82116.57- 835.65- 10.03-	18.70	4733.51- 25.91- 5.41	20.53	289208.91 1327.72 32.97-	4.94	1569.02 34.88
116.5	82537.32- 836.19- 3.57	17.57	4745.00- 23.50- .52-	19.23	289868.22 1312.73 29.76-	4.67	1556.61 29.97
117.0	82952.76- 832.08- 5.46	17.53	4757.02- 26.44- .77-	19.15	290521.65 1297.96 30.59-	4.65	1541.99 31.08
117.5	83369.40- 830.73- .56-	18.69	4771.45- 24.28- .65-	20.52	291166.17 1282.14 32.04-	4.99	1527.93 32.05
118.0	83783.49- 832.64- 5.51-	18.62	4781.30- 27.09- 5.29-	20.52	291803.79 1265.91 32.87-	5.02	1515.44 33.75
118.5	84202.05- 836.25- .40	17.80	4798.54- 29.57- 5.04	19.55	292432.09 1249.26 31.03-	4.78	1503.61 31.44
119.0	84619.74- 832.24- 5.66	18.17	4810.88- 22.04- 1.00-	19.93	293053.06 1234.88 27.42-	4.90	1489.31 28.02
119.5	85034.29- 830.58- 2.03-	16.91	4820.59- 30.58- 13.43-	18.51	293666.98 1221.84 29.71-	4.58	1477.73 32.66
120.0	85450.33- 834.27- 5.02-	20.62	4841.46- 35.48- 3.05	22.64	294274.90 1205.17 34.51-	5.61	1466.18 35.01
120.5	85868.56- 835.60- 1.65	22.53	4856.07- 27.52- 9.20	24.66	294872.15 1187.33 32.22-	6.13	1452.15 33.54
121.0	86285.94- 832.62- 2.07	21.57	4868.98- 26.28- 1.83-	23.64	295462.23 1172.95 30.31-	5.89	1438.66 30.43

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121.5	86701.19- 833.54- 3.42-	21.34	4882.35- 29.36- 10.04-	23.43	296045.10 1157.01 32.43-	5.85	1426.30 34.12
122.0	87119.48- 836.05- 2.70	21.13	4898.34- 36.32- 18.88-	23.29	296619.25 1140.51 31.48-	5.81	1414.59 36.81
122.5	87537.23- 830.83- 9.70	19.05	4918.68- 48.24- 17.43-	20.93	297185.62 1125.52 30.05-	5.26	1399.79 36.06
123.0	87950.31- 826.34- 4.07	19.84	4946.58- 53.75- 1.71-	21.82	297744.77 1110.46 30.91-	5.49	1385.23 31.22
123.5	88363.58- 826.76- 7.54	22.48	4972.44- 49.95- 25.95	24.66	298296.08 1094.61 29.34-	6.23	1372.66 39.89
124.0	88777.08- 818.80-	25.10	4996.54- 27.80-	27.60	298839.39 1081.11	6.99	1356.47
124.5	89182.38-	21.55	5000.24-	23.66	299377.20	6.01	

SM 2.10

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z (MSL)	SIG Z	VECTOR MAGNITUDE
1.0	15.74-	1.19	.42-	1.63	354.58	4.69	
1.5	25.28- 18.02-	1.88	3.77- 16.33-	2.38	607.14 594.02	4.02	594.51
2.0	33.76- 25.29- 16.20-	4.39	16.75- 20.67- 1.01-	4.83	948.60 775.06 293.02	6.53	775.74 293.47
2.5	50.57- 34.22- 12.76-	3.64	24.44- 17.34- .04-	3.89	1382.20 887.04 147.40	4.74	887.87 147.96
3.0	67.99- 38.05- 7.68-	3.25	34.10- 20.71- 5.85-	3.49	1835.64 922.46 64.94	3.89	923.48 65.66
3.5	88.62- 41.90- 3.84-	3.55	45.15- 23.20- 1.95-	3.81	2304.67 951.99 57.71	4.10	953.19 57.87
4.0	109.90- 41.89- 3.20-	3.53	57.30- 22.67- 2.78	3.62	2787.63 980.17 57.60	3.86	981.33 57.76
4.5	130.52- 45.11- 10.67-	4.51	67.82- 20.41- 6.61-	4.69	3284.85 1009.59 51.27	4.67	1010.81 52.78
5.0	155.01- 52.56- 9.58-	3.40	77.71- 29.28- 11.70-	3.75	3797.23 1031.44 42.98	3.51	1033.20 45.56
5.5	183.09- 54.69- 3.29-	7.84	97.11- 32.12- 5.85	8.20	4316.30 1052.57 47.83	7.70	1054.48 48.30
6.0	209.70- 55.85- 5.18-	7.44	109.84- 23.43- 5.77	7.83	4849.81 1079.28 48.79	7.21	1080.97 49.40
6.5	238.94- 59.88- 3.10-	5.97	120.55- 26.34- 5.39-	6.28	5395.58 1101.37 40.83	5.62	1103.31 41.30
7.0	269.58- 58.96- 2.62	3.46	136.18- 28.83- 1.24-	3.65	5951.18 1120.11 37.05	3.28	1122.03 37.16
7.5	297.91- 57.25- .40-	3.11	149.38- 27.58- 1.78-	3.36	6515.69 1138.42 37.01	2.87	1140.20 37.05
8.0	326.84- 59.37- 4.62-	2.98	163.77- 30.61- 5.71-	3.19	7089.61 1157.13 38.32	2.61	1159.05 39.01
8.5	357.28- 61.88- 5.13-	3.72	180.00- 33.30- .67	3.93	7672.82 1176.74 42.25	3.25	1178.84 42.56
9.0	388.72- 64.50- 5.24-	4.78	197.07- 29.93- 5.48	4.96	8266.36 1199.38 45.82	4.00	1201.48 46.44
9.5	421.78- 67.12- 6.46-	3.42	209.93- 27.82- 3.75-	3.60	8872.20 1222.56 45.83	2.95	1224.72 46.43
10.0	455.85- 70.97- 3.64-	2.39	224.90- 33.69- 6.14-	2.53	9488.92 1245.21 44.27	1.93	1247.69 44.84
10.5	492.75- 70.77- 2.58	.24	243.63- 33.97- 1.87	.24	10117.42 1266.84 43.19	.12	1269.27 43.30
11.0	526.62- 68.38- .40-	.39	258.87- 31.82- .75-	.36	10755.76 1288.40 44.94	.13	1290.61 44.95

SM 2.10

11.5	561.13- 71.18- 9.51-	.46	275.45- 34.72- .50-	.45	11405.83 1311.78 48.90	.17	1314.17 49.82
12.0	597.80- 77.89- 11.22-	.25	293.59- 32.32- 2.77	.32	12067.55 1337.30 51.99	.08	1339.96 53.25
12.5	639.03- 82.40- 5.41-	1.87	307.78- 31.94- 4.20-	1.84	12743.13 1363.77 51.61	1.36	1366.63 52.06
13.0	680.21- 83.31- 1.34-	3.26	325.54- 36.53- 4.54-	3.40	13431.33 1388.92 50.30	2.26	1391.90 50.52
13.5	722.34- 83.74- 1.15-	4.42	344.31- 36.48- .56	4.58	14132.06 1414.08 51.37	3.05	1417.03 51.38
14.0	763.95- 84.46- 1.30-	4.38	362.02- 35.96- .40	4.52	14845.41 1440.29 54.50	2.93	1443.21 54.51
14.5	806.80- 85.05- 4.63-	4.32	380.28- 36.08- .03	4.46	15572.35 1468.58 56.95	2.83	1471.48 57.14
15.0	849.00- 89.10- 10.85-	5.29	398.10- 35.93- .25	5.50	16313.99 1497.25 57.90	3.37	1500.32 58.91
15.5	895.91- 95.90- 6.15-	5.94	416.22- 35.82- 1.82	6.18	17069.60 1526.49 57.37	3.80	1529.91 57.72
16.0	944.91- 95.25- .07	7.39	433.93- 34.10- .24	7.72	17840.48 1554.62 57.48	4.52	1557.90 57.48
16.5	991.16- 95.83- 5.65-	5.87	450.32- 35.58- 4.55-	6.13	18624.22 1583.97 61.39	3.58	1587.26 61.82
17.0	1040.74- 100.91- 9.76-	5.95	469.52- 38.65- 1.10-	6.22	19424.45 1616.01 64.50	3.53	1619.62 65.25
17.5	1092.08- 105.59- 10.88-	6.46	488.98- 36.69- 1.78	6.73	20240.24 1648.48 65.61	3.75	1652.26 66.53
18.0	1146.33- 111.80- 11.01-	8.45	506.21- 36.87- 2.60-	8.96	21072.93 1681.62 65.90	4.72	1685.74 66.87
18.5	1203.88- 116.61- 7.34-	10.27	525.85- 39.29- 2.31-	10.87	21921.86 1714.38 65.90	5.78	1718.79 66.35
19.0	1262.94- 119.14- 5.17-	11.28	545.51- 39.19- .25-	12.00	22787.32 1747.52 67.14	6.11	1752.02 67.34
19.5	1323.02- 121.78- 4.71-	11.20	565.05- 39.55- 9.00-	11.69	23669.39 1781.53 66.98	6.10	1786.12 67.74
20.0	1384.72- 123.86- 9.01-	11.43	585.06- 48.19- 7.25-	12.14	24568.85 1814.51 69.73	5.97	1819.37 70.69
20.5	1446.89- 130.79- 14.29-	7.17	613.24- 46.80- 13.49	7.56	25483.90 1851.27 77.21	3.67	1856.47 79.67
21.0	1515.52- 138.16- 12.51-	7.56	631.86- 34.69- 12.71	8.07	26420.12 1891.72 79.56	3.73	1897.07 81.53
21.5	1585.05- 143.31- 13.57-	7.28	647.94- 34.09- 7.02-	7.80	27375.62 1930.83 77.25	3.48	1936.44 78.74
22.0	1658.83- 151.73- 17.57-	8.19	665.96- 41.71- 8.19-	8.75	28350.96 1968.97 78.36	3.86	1975.25 80.72

SM 2.10

22.5	1736.78- 160.88- 12.17-	6.01	689.66- 42.29- 11.64	6.33	29344.60 2009.19 83.15	2.78	2016.07 84.84
23.0	1819.71- 163.90- 7.42-	6.17	708.25- 30.07- 15.12	6.64	30360.15 2052.13 86.33	2.72	2058.88 87.96
23.5	1900.68- 168.30- 14.02-	4.55	719.73- 27.16- 2.05-	4.79	31396.73 2095.53 87.49	1.98	2102.45 88.63
24.0	1988.02- 177.93- 19.47-	5.64	735.41- 32.13- 7.21-	5.98	32455.69 2139.63 89.07	2.42	2147.25 91.46
24.5	2078.61- 187.78- 19.71-	6.78	751.86- 34.37- 2.91-	7.25	33536.36 2184.60 92.26	2.81	2192.93 94.38
25.0	2175.80- 197.64- 12.74-	7.24	769.79- 35.04- 3.10	7.75	34640.29 2231.89 95.75	2.90	2240.90 96.64
25.5	2276.25- 200.52- 6.91-	6.53	786.91- 31.26- 5.38	6.89	35768.26 2280.35 98.59	2.59	2289.37 98.98
26.0	2376.32- 204.55- 17.95-	5.16	801.05- 29.65- 2.30	5.51	36920.65 2330.49 102.73	1.96	2339.63 104.31
26.5	2480.80- 218.48- 20.75-	5.47	816.56- 28.96- 4.63	5.83	38098.74 2383.08 106.82	2.04	2393.25 108.92
27.0	2594.80- 225.30- 6.32-	6.22	830.02- 25.02- 3.73	6.66	39303.74 2437.31 109.69	2.27	2447.83 109.93
27.5	2706.11- 224.80- 5.17-	6.15	841.58- 25.23- 4.26-	6.56	40536.06 2492.78 112.68	2.17	2503.02 112.88
28.0	2819.61- 230.48- 14.53-	4.84	855.25- 29.28- 8.96-	5.25	41796.52 2549.99 115.72	1.68	2560.56 116.97
28.5	2936.59- 239.33- 22.93-	5.36	870.87- 34.19- 3.78-	5.71	43086.06 2608.50 119.32	1.79	2619.68 121.56
29.0	3058.94- 253.41- 21.57-	4.91	889.44- 33.06- 3.02	5.22	44405.03 2669.32 122.71	1.61	2681.52 124.63
29.5	3190.01- 260.91- 9.96-	6.96	903.93- 31.16- 1.89-	7.41	45755.38 2731.22 124.30	2.25	2743.83 124.72
30.0	3319.85- 263.37- 15.88-	5.19	920.60- 34.95- 2.67	5.66	47136.25 2793.62 129.21	1.60	2806.23 130.21
30.5	3453.38- 276.79- 22.29-	4.52	938.89- 28.48- 10.05	4.73	48549.01 2860.44 135.37	1.38	2873.94 137.56
31.0	3596.64- 285.67- 5.91-	6.64	949.09- 24.90- .71-	7.16	49996.70 2929.00 137.39	1.93	2943.00 137.52
31.5	3739.05- 282.70- .62-	5.52	963.79- 29.20- 8.76-	5.89	51478.01 2997.84 140.29	1.57	3011.28 140.56
32.0	3879.35- 286.29- 13.46-	3.99	978.29- 33.66- 14.28-	4.30	52994.53 3069.29 144.27	1.10	3082.80 145.60
32.5	4025.35- 296.17- 21.22-	4.88	997.46- 43.48- 15.47-	5.26	54547.31 3142.11 147.72	1.34	3156.34 150.03
33.0	4175.53- 307.51- 27.99-	4.81	1021.77- 49.14- 5.68-	5.26	56136.65 3217.01 152.72	1.23	3232.05 155.36

SM 2.10

33.5	4332.86- 324.17- 27.59-	4.62	1046.60- 49.16- 1.41	5.02	57764.32 3294.83 156.63	1.16	3311.10 159.04
34.0	4499.70- 335.11- 17.16-	5.69	1070.93- 47.73- 1.01	6.13	59431.48 3373.64 159.53	1.41	3390.58 160.46
34.5	4667.97- 341.33- 20.17-	3.81	1094.33- 48.14- 5.41	4.14	61137.97 3454.37 166.11	.87	3471.52 167.42
35.0	4841.04- 355.28- 18.91-	4.09	1119.08- 42.32- 13.13	4.44	62885.85 3539.76 173.60	.96	3557.80 175.12
35.5	5023.26- 360.25- .64-	4.99	1136.65- 35.01- 4.89	5.39	64677.74 3627.97 177.92	1.13	3645.98 177.98
36.0	5201.29- 355.93- 1.08	5.85	1154.10- 37.43- 9.90-	6.38	66513.83 3717.68 182.30	1.28	3734.87 182.57
36.5	5379.19- 359.16- 11.70-	4.37	1174.08- 44.92- 18.72-	4.77	68395.42 3810.28 188.04	.92	3827.43 189.33
37.0	5560.46- 367.63- 23.34-	4.21	1199.03- 56.15- 22.20-	4.51	70324.12 3905.72 193.09	.90	3923.39 195.76
37.5	5746.82- 382.51- 35.57-	3.44	1230.23- 67.13- 12.93-	3.71	72301.15 4003.37 197.99	.70	4022.17 201.58
38.0	5942.97- 403.20- 34.63-	4.94	1266.16- 69.08- .57-	5.36	74327.50 4103.72 202.50	.97	4124.06 205.44
38.5	6150.03- 417.14- 23.32-	5.09	1299.32- 67.70- .31	5.48	76404.87 4205.88 207.89	.99	4227.06 209.20
39.0	6360.11- 426.52- 20.70-	3.94	1333.86- 68.77- 5.77	4.28	78533.38 4311.61 216.09	.73	4333.20 217.16
39.5	6576.56- 437.85- 13.44-	4.10	1368.10- 61.93- 18.32	4.50	80716.49 4421.98 222.55	.74	4444.03 223.71
40.0	6797.96- 439.97- 2.94	3.63	1395.80- 50.44- 8.60	4.01	82955.36 4534.17 223.54	.65	4555.74 223.73
40.5	7016.54- 434.90- 6.54	3.10	1418.55- 53.32- 20.48-	3.33	85250.66 4645.52 215.78	.54	4666.14 216.85
41.0	7232.87- 433.43- 2.02-	2.08	1449.12- 70.93- 29.73-	2.25	87600.89 4749.96 188.59	.35	4770.22 190.93
41.5	7449.98- 436.92- 12.76-	2.08	1489.48- 83.06- 21.31-	2.19	90000.62 4834.12 134.43	.33	4854.54 136.70
42.0	7669.79- 446.20- 15.06-	1.79	1532.18- 92.24- 13.26-	1.91	92435.01 4884.39 78.47	.26	4905.59 80.99
42.5	7896.18- 451.98- 8.86-	2.23	1581.72- 96.32- 3.33-	2.41	94885.01 4912.60 44.37	.34	4934.28 45.36
43.0	8121.78- 455.06- 11.65-	2.66	1628.50- 95.57- 1.59-	2.94	97347.61 4928.76 12.67	.38	4950.65 17.29
43.5	8351.25- 463.64- 9.11-	3.03	1677.30- 97.92- 1.11	3.32	99813.78 4925.27 19.82-	.45	4948.01 21.84
44.0	8585.42- 464.18- .34	2.73	1726.42- 94.46- 3.85	2.94	102272.89 4908.94 34.00-	.39	4931.74 34.22

SM 2.10

44.5	8815.43- 463.30- 4.56	3.18	1771.76- 94.06- 4.15	3.51	104722.72 4891.27 33.22-	.44	4914.06 33.79
45.0	9048.72- 459.62- 8.41	2.35	1820.48- 90.30- 7.57	2.54	107164.16 4875.71 31.52-	.33	4898.16 33.49
45.5	9275.06- 454.89- 2.00	2.37	1862.06- 86.49- .79-	2.52	109598.44 4859.75 34.15-	.32	4881.75 34.21
46.0	9503.61- 457.61- .37-	2.87	1906.98- 91.10- 7.91-	3.12	112023.91 4841.56 36.61-	.39	4863.99 37.46
46.5	9732.67- 455.26- 5.16	1.11	1953.16- 94.40- 1.56-	1.14	114440.00 4823.13 35.46-	.13	4845.48 35.86
47.0	9958.88- 452.45- 3.20	1.04	2001.38- 92.66- .62	1.11	116847.04 4806.10 33.74-	.11	4828.24 33.89
47.5	10185.13- 452.06- 4.36-	1.21	2045.83- 93.77- 4.00-	1.31	119246.11 4789.39 33.18-	.14	4811.59 33.70
48.0	10410.95- 456.81- 8.98-	2.09	2095.15- 96.66- 1.01-	2.29	121636.43 4772.92 33.05-	.25	4795.70 34.26
48.5	10641.95- 461.05- 1.28	3.39	2142.50- 94.78- 4.29	3.67	124019.03 4756.33 34.56-	.43	4779.56 34.85
49.0	10872.00- 455.53- 9.19	2.89	2189.94- 92.37- 6.81	3.18	126392.77 4738.35 34.72-	.35	4761.09 36.55
49.5	11097.49- 451.86- .92	1.98	2234.87- 87.97- 5.37	2.11	128757.39 4721.61 32.26-	.24	4744.00 32.72
50.0	11323.86- 454.61- 9.14-	1.82	2277.92- 87.00- 6.03-	2.01	131114.38 4706.09 32.35-	.21	4728.79 34.15
50.5	11552.10- 461.00- 4.38-	2.99	2321.87- 94.01- 6.95-	3.30	133463.48 4689.26 33.25-	.35	4712.80 34.25
51.0	11784.87- 458.99- 10.93	2.79	2371.93- 93.95- 8.22	3.04	135803.64 4672.83 33.11-	.33	4696.26 35.82
51.5	12011.10- 450.07- 6.43	2.81	2415.83- 85.79- 4.15	3.02	138136.31 4656.14 33.41-	.33	4678.63 34.27
52.0	12234.94- 452.56- 7.07-	1.28	2457.72- 89.80- 9.89-	1.41	140459.78 4639.42 32.97-	.14	4662.30 35.14
52.5	12463.66- 457.14- 2.00-	.37	2505.63- 95.68- 1.76-	.33	142775.73 4623.17 32.36-	.03	4646.70 32.47
53.0	12692.09- 454.56- 1.91	4.36	2553.41- 91.57- 6.08	4.66	145082.96 4607.05 32.31-	.49	4630.33 32.93
53.5	12918.23- 455.23- 1.89-	3.41	2597.21- 89.60- 3.84	3.62	147382.79 4590.86 33.38-	.37	4614.24 33.65
54.0	13147.32- 456.45- .60	1.74	2643.01- 87.72- 6.62	1.79	149673.82 4573.67 33.29-	.19	4597.22 33.94
54.5	13374.68- 454.63- 1.59	2.21	2684.93- 82.98- .06-	2.38	151956.46 4557.56 32.35-	.24	4580.93 32.39
55.0	13601.95- 454.87- 1.03	3.28	2725.99- 87.79- 9.09-	3.73	154231.38 4541.31 32.81-	.35	4564.88 34.06

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55.5	13829.55- 453.59- .67	4.39	2772.72- 92.07- 2.57-	4.84	156497.78 4524.75 32.21-	.47	4548.36 32.32
56.0	14055.55- 454.19- .31	.81	2818.07- 90.36- 3.96	.89	158756.14 4509.09 31.32-	.08	4532.81 31.57
56.5	14283.75- 453.27- 1.97-	1.09	2863.08- 88.11- 5.84-	1.25	161006.87 4493.43 33.22-	.11	4517.09 33.78
57.0	14508.82- 456.17- 1.83-	2.85	2906.19- 96.20- 4.00-	3.21	163249.57 4475.87 33.95-	.29	4500.09 34.24
57.5	14739.92- 455.11- 5.01	3.70	2959.29- 92.12- 15.28	4.02	165482.75 4459.47 31.28-	.39	4483.58 35.17
58.0	14963.94- 451.15- .01-	.36	2998.31- 80.91- .94	.40	167709.05 4444.59 31.29-	.03	4468.16 31.30
58.5	15191.07- 455.12- 4.99-	.67	3040.21- 91.17- 12.55-	.84	169927.34 4428.18 32.67-	.07	4452.44 35.35
59.0	15419.07- 456.14- 2.31-	2.20	3089.48- 93.46- 3.42	2.28	172137.23 4411.91 33.19-	.21	4436.42 33.45
59.5	15647.22- 457.43- 7.91	.58	3133.68- 87.74- 4.06	.60	174339.26 4394.98 33.56-	.05	4419.59 34.72
60.0	15876.50- 448.23- 5.50	2.76	3177.23- 89.40- 1.16-	3.02	176532.22 4378.35 32.18-	.28	4402.14 32.67
60.5	16095.45- 451.92- 13.58-	.22	3223.08- 88.91- 2.92	.17	178717.61 4362.80 31.42-	.02	4387.04 34.35
61.0	16328.43- 461.81- 4.15-	1.10	3266.14- 86.48- 4.93	1.23	180895.02 4346.93 31.95-	.11	4372.25 32.60
61.5	16557.27- 456.08- 9.10	1.54	3309.56- 83.98- 3.96	1.72	183064.54 4330.84 32.67-	.15	4355.60 34.15
62.0	16784.51- 452.71- 4.90	.65	3350.12- 82.51- 1.47	.64	185225.86 4314.25 32.48-	.07	4338.72 32.88
62.5	17009.98- 451.17- 4.99-	.93	3392.08- 82.50- 4.72-	1.03	187378.80 4298.35 32.03-	.09	4322.75 32.76
63.0	17235.68- 457.70- 5.80-	2.85	3432.62- 87.23- .93-	3.13	189524.22 4282.22 32.17-	.28	4307.49 32.70
63.5	17467.69- 456.98- 4.19	.93	3479.31- 83.43- 6.54	1.08	191661.02 4266.17 31.95-	.09	4291.39 32.88
64.0	17692.66- 453.51- 8.78	2.70	3516.06- 80.69- 2.86-	2.94	193790.39 4250.26 31.48-	.28	4275.15 32.80
64.5	17921.20- 448.19- .15-	.52	3560.01- 86.30- 3.56-	.50	195911.28 4234.69 31.49-	.05	4259.22 31.69
65.0	18140.86- 453.66- 12.61-	1.01	3602.36- 84.26- 7.10	1.15	198025.09 4218.77 32.74-	.10	4243.93 35.79
65.5	18374.87- 460.80- 1.59	1.52	3644.27- 79.19- .30-	1.66	200130.05 4201.95 33.50-	.16	4227.89 33.54
66.0	18601.66- 452.07- 13.45	1.19	3681.56- 84.56- 7.70-	1.40	202227.05 4185.26 32.12-	.12	4210.45 35.67

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66.5	18826.94- 447.35- 2.06-	2.59	3728.84- 86.90- 2.44	2.90	204315.32 4169.82 30.64-	.26	4194.65 30.81
67.0	19049.02- 454.13- 12.49-	1.63	3768.47- 82.12- .43	1.80	206396.88 4154.61 31.87-	.16	4180.17 34.23
67.5	19281.08- 459.84- 8.96	2.00	3810.97- 86.47- 3.89-	2.15	208469.94 4137.95 33.13-	.18	4164.32 34.54
68.0	19508.87- 445.17- 14.51	2.05	3854.94- 86.02- 2.44	2.25	210534.83 4121.48 32.65-	.20	4146.34 35.81
68.5	19726.25- 445.33- 16.52-	2.05	3896.99- 84.02- 2.28-	2.22	212591.42 4105.30 32.27-	.20	4130.24 36.33
69.0	19954.20- 461.70- 18.95-	2.20	3938.96- 88.30- 2.58-	2.33	214640.14 4089.20 31.89-	.22	4116.13 37.19
69.5	20187.95- 464.29- 10.83	.98	3985.29- 86.61- 11.53	1.05	216680.63 4073.40 30.90-	.09	4100.69 34.72
70.0	20418.49- 450.86- 20.45	3.47	4025.58- 76.77- 12.73	3.64	218713.54 4058.29 30.62-	.32	4083.98 38.96
70.5	20638.82- 443.83- 4.73	2.48	4062.07- 73.88- 4.26-	2.76	220738.92 4042.78 32.28-	.23	4067.74 32.90
71.0	20862.32- 446.13- 9.33-	3.39	4099.46- 81.03- 15.27-	3.68	222756.33 4026.01 33.71-	.33	4051.46 38.17
71.5	21084.95- 453.16- 19.77-	2.80	4143.10- 89.15- 12.88-	3.11	224764.93 4009.06 33.67-	.27	4035.58 41.12
72.0	21315.49- 465.90- 6.58-	2.03	4188.61- 93.91- 6.05	2.20	226765.39 3992.33 32.41-	.19	4020.52 33.62
72.5	21550.85- 459.75- 19.91	2.93	4237.02- 83.09- 16.46	3.17	228757.27 3976.64 30.75-	.28	4003.99 40.16
73.0	21775.24- 445.99- 12.03	1.76	4271.71- 77.45- 5.58-	1.99	230742.04 3961.57 28.98-	.18	3987.35 31.87
73.5	21996.85- 447.71- 20.57-	.70	4314.47- 88.68- 15.06	.82	232718.85 3947.66 31.09-	.07	3973.96 40.20
74.0	22222.96- 466.56- 18.51-	1.77	4360.39- 62.38- 30.41	1.82	234689.70 3930.48 34.92-	.16	3958.57 49.87
74.5	22463.42- 466.23- 19.42	3.31	4376.86- 58.26- 24.24-	3.67	236649.34 3912.74 31.92-	.32	3940.85 44.54
75.0	22689.19- 447.14- 17.06	4.85	4418.65- 86.62- 23.47-	5.28	238602.45 3898.56 30.71-	.47	3925.07 42.25
75.5	22910.56- 449.16- 6.17-	8.00	4463.49- 81.73- 15.10	8.78	240547.90 3882.03 32.16-	.76	3908.78 36.06
76.0	23138.36- 453.32- 1.77-	7.94	4500.39- 71.52- 2.67-	8.69	242484.48 3866.40 31.35-	.75	3893.54 31.51
76.5	23363.88- 450.93- 2.71	6.01	4535.01- 84.40- 24.11-	6.59	244414.30 3850.68 33.14-	.57	3877.91 41.07
77.0	23589.30- 450.61- 2.25-	1.74	4584.80- 95.63- 1.17-	1.78	246335.16 3833.26 33.78-	.15	3860.84 33.87

SM 2.10

77.5	23814.49- 453.19- 11.17-	1.78	4630.64- 85.58- 18.97	1.91	248247.56 3816.90 32.74-	.16	3844.66 39.45
78.0	24042.49- 461.78- .41-	.69	4670.38- 76.65- 8.98	.82	250152.06 3800.52 32.28-	.06	3829.24 33.51
78.5	24276.27- 453.61- 17.16	.57	4707.29- 76.59- 4.09-	.57	252048.08 3784.61 30.97-	.04	3812.47 35.64
79.0	24496.10- 444.61- 2.37	.26	4746.98- 80.74- 6.11-	.32	253936.68 3769.54 30.81-	.03	3796.53 31.49
79.5	24720.89- 451.23- 8.30-	1.54	4788.04- 82.71- 1.70	1.67	255817.63 3753.80 30.97-	.13	3781.73 32.11
80.0	24947.34- 452.92- 18.31-	.80	4829.69- 79.04- 31.05	.92	257690.49 3738.57 30.07-	.08	3766.73 46.94
80.5	25173.82- 469.54- 12.84-	1.07	4867.08- 51.66- 43.99	1.12	259556.20 3723.73 30.00-	.10	3753.57 54.77
81.0	25416.88- 465.77- 23.88	.12	4881.35- 35.04- 17.46-	.13	261414.22 3708.57 32.88-	.02	3737.87 44.23
81.5	25639.59- 445.65- 11.93	2.44	4902.12- 69.13- 47.02-	2.61	263264.77 3690.85 35.58-	.23	3718.30 60.17
82.0	25862.54- 453.83- 13.47-	2.87	4950.48- 82.07- .22-	3.12	265105.07 3672.98 33.10-	.28	3701.82 35.74
82.5	26093.43- 459.13- 1.22	.64	4984.19- 69.35- 4.38	.74	266937.76 3657.75 31.56-	.06	3687.10 31.89
83.0	26321.67- 452.61- 14.50	.97	5019.83- 77.68- 11.44-	1.03	268762.82 3641.41 31.86-	.10	3670.25 36.83
83.5	26546.04- 444.63- 15.94	.33	5061.88- 80.79- 1.99	.37	270579.17 3625.88 30.16-	.03	3653.93 34.17
84.0	26766.31- 436.66- 4.28	.90	5100.63- 75.68- 5.68	1.07	272388.71 3611.25 31.45-	.09	3638.34 32.24
84.5	26982.70- 440.34- 10.25-	3.84	5137.57- 75.11- 1.66	4.20	274190.43 3594.43 32.92-	.37	3622.08 34.52
85.0	27206.65- 446.91- 9.10-	3.93	5175.74- 74.02- 1.00-	4.27	275983.14 3578.33 32.54-	.38	3606.89 33.80
85.5	27429.62- 449.44- 5.44-	2.72	5211.59- 76.11- 14.12-	2.91	277768.76 3561.88 33.14-	.27	3590.93 36.43
86.0	27656.10- 452.35- 4.13-	4.58	5251.85- 88.14- 1.78-	4.88	279545.03 3545.18 30.79-	.44	3575.01 31.12
86.5	27881.98- 453.58- 10.66-	5.83	5299.74- 77.89- 9.46	6.35	281313.94 3531.09 32.11-	.57	3560.95 35.14
87.0	28109.68- 463.02- 9.30-	3.52	5329.75- 78.67- 22.56-	3.81	283076.12 3513.06 35.91-	.34	3544.32 43.42
87.5	28345.00- 462.88- 13.10	1.89	5378.42- 100.46- 13.82-	2.00	284827.00 3495.17 31.16-	.18	3527.12 36.52
88.0	28572.56- 449.92- 16.25	2.44	5430.21- 92.50- 19.89	2.79	286571.30 3481.90 27.22-	.24	3512.06 37.43

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88.5	28794.92- 446.63- .10-	2.70	5470.92- 80.57- 12.84	3.00	288308.91 3467.94 30.05-	.26	3497.51 32.67
89.0	29019.20- 450.03- 6.69-	.79	5510.78- 79.66- .90	.84	290039.24 3451.85 35.61-	.08	3481.97 36.25
89.5	29244.95- 453.32- 5.86-	5.21	5550.59- 79.66- 1.68	5.78	291760.76 3432.33 36.24-	.51	3463.05 36.75
90.0	29472.52- 455.89- 7.19	4.15	5590.45- 77.98- 15.27	4.59	293471.58 3415.60 28.05-	.40	3446.77 32.74
90.5	29700.85- 446.13- 21.48	1.20	5628.57- 64.39- 17.36	1.29	295176.36 3404.27 24.41-	.11	3433.99 36.86
91.0	29918.65- 434.40- 21.89	3.28	5654.84- 60.61- 3.65-	3.58	296875.85 3391.19 27.82-	.32	3419.44 35.58
91.5	30135.25- 424.23- .75-	3.16	5689.18- 68.04- 18.82	3.46	298567.55 3376.45 31.38-	.31	3403.68 36.60
92.0	30342.89- 435.16- 33.03-	4.48	5722.88- 41.78- 50.99	4.84	300252.31 3359.81 32.20-	.43	3388.13 68.76
92.5	30570.42- 457.26- 10.72-	9.02	5730.97- 17.04- 15.07	9.78	301927.37 3344.25 30.70-	.88	3375.41 35.84
93.0	30800.15- 445.88- 15.77	7.19	5739.93- 26.71- 32.83-	7.78	303596.57 3329.10 33.76-	.69	3358.94 49.66
93.5	31016.30- 441.48- 21.85-	7.57	5757.68- 49.87- 52.81-	8.23	305256.47 3310.49 36.32-	.74	3340.17 67.72
94.0	31241.64- 467.73- 27.88-	6.18	5789.81- 79.52- 43.23-	6.82	306907.06 3292.78 33.00-	.60	3326.79 61.12
94.5	31484.04- 469.37- 6.97-	5.04	5837.20- 93.11- 2.38	5.59	308549.26 3277.48 29.19-	.51	3312.23 30.11
95.0	31711.01- 474.71- 27.03-	5.49	5882.92- 77.14- 21.46	6.01	310184.54 3263.58 28.64-	.54	3298.83 44.85
95.5	31958.75- 496.40- 5.83-	4.30	5914.34- 71.64- 10.26-	4.66	311812.84 3248.83 28.56-	.42	3287.32 30.90
96.0	32207.42- 480.54- 35.42	4.72	5954.57- 87.40- 43.41-	5.14	313433.38 3235.02 27.72-	.47	3271.68 62.52
96.5	32439.30- 460.97- 30.08	4.94	6001.75- 115.06- 14.70-	5.50	315047.87 3221.11 28.72-	.49	3255.96 44.11
97.0	32668.40- 450.46- 10.72	4.72	6069.64- 102.10- 32.31	5.16	316654.50 3206.29 36.08-	.47	3239.39 49.61
97.5	32889.76- 450.25- 11.66-	2.38	6103.85- 82.75- 10.61	2.63	318254.17 3185.02 44.07-	.24	3217.76 46.81
98.0	33118.65- 462.13- 9.95	6.61	6152.39- 91.49- 16.57	7.23	319839.52 3162.22 37.30-	.65	3197.12 42.01
98.5	33351.89- 440.29- 27.69	4.35	6195.35- 66.18- 27.14	4.74	321416.39 3147.72 30.62-	.43	3179.05 49.41
99.0	33558.94- 434.44- 13.23-	4.85	6218.57- 64.35- 5.08-	5.26	322987.25 3131.59 33.17-	.49	3162.24 36.07

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99.5	33786.33- 453.53- 14.27-	6.96	6259.70- 71.26- .14-	7.63	324547.99 3114.55 32.87-	.69	3148.20 35.83
100.0	34012.47- 448.71- 2.65-	5.39	6289.84- 64.49- 3.29	5.85	326101.80 3098.72 34.22-	.53	3131.71 34.47
100.5	34235.05- 456.18- 2.17-	3.85	6324.19- 67.97- 10.29	4.18	327646.71 3080.33 34.51-	.38	3114.66 36.08
101.0	34468.66- 450.89- 25.90	3.06	6357.81- 54.19- 18.97	3.35	329182.13 3064.21 29.64-	.31	3097.68 43.70
101.5	34685.94- 430.28- 21.94	2.34	6378.38- 48.99- 1.80-	2.59	330710.92 3050.68 27.38-	.25	3081.27 35.13
102.0	34898.94- 428.94- 17.89-	5.13	6406.80- 56.00- 14.62-	5.70	332232.82 3036.83 31.37-	.52	3067.48 38.96
102.5	35114.89- 448.17- 28.33-	5.91	6434.38- 63.61- 16.31-	6.39	333747.76 3019.31 33.74-	.60	3053.05 46.98
103.0	35347.12- 457.27- .06	6.21	6470.42- 72.31- 4.55-	6.77	335252.13 3003.08 29.65-	.63	3038.56 29.99
103.5	35572.17- 448.10- 8.60	8.62	6506.69- 68.17- 4.74	9.45	336750.84 2989.66 29.90-	.88	3023.82 31.47
104.0	35795.23- 448.67- 3.12	7.27	6538.59- 67.57- 5.25	7.92	338241.79 2973.18 32.04-	.73	3007.60 32.61
104.5	36020.84- 444.98- 5.69	7.90	6574.27- 62.92- 1.62	8.61	339724.03 2957.62 31.37-	.79	2991.57 31.92
105.0	36240.22- 442.97- 2.54-	7.81	6601.51- 65.94- 17.60-	8.52	341199.42 2941.81 32.16-	.80	2975.70 36.75
105.5	36463.81- 447.53- 6.92-	9.43	6640.21- 80.52- 4.58-	10.28	342665.84 2925.45 31.85-	.95	2960.58 32.91
106.0	36687.75- 449.90- 5.04	10.34	6682.04- 70.53- 24.19	11.29	344124.87 2909.95 29.33-	1.05	2945.37 38.35
106.5	36913.71- 442.49- 6.23	9.40	6710.74- 56.33- 7.86	10.31	345575.80 2896.12 28.60-	.97	2930.27 30.31
107.0	37130.24- 443.66- 9.44-	10.26	6738.37- 62.66- 11.20-	11.25	347020.99 2881.35 33.35-	1.05	2915.98 36.43
107.5	37357.37- 451.93- 13.48-	11.09	6773.41- 67.53- 9.55-	12.18	348457.15 2862.76 34.73-	1.15	2899.00 38.46
108.0	37582.18- 457.15- 1.16-	7.11	6805.90- 72.22- 4.69-	7.85	349883.76 2846.62 29.30-	.73	2884.00 29.69
108.5	37814.52- 453.10- 10.61	5.34	6845.64- 72.22- 4.51	5.80	351303.77 2833.46 28.50-	.55	2870.37 30.74
109.0	38035.28- 446.53- .17-	2.43	6878.13- 67.71- 1.72	2.69	352717.22 2818.12 31.74-	.26	2854.08 31.78
109.5	38261.06- 453.28- 1.06	5.06	6913.35- 70.50- 1.11	5.53	354121.89 2801.72 30.80-	.52	2839.03 30.83
110.0	38488.57- 445.47- 10.51	5.20	6948.64- 66.60- 5.25	5.72	355518.95 2787.32 29.69-	.54	2823.48 31.93

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110.5	38706.53- 442.77- 1.55	5.19	6979.96- 65.25- 2.87-	5.78	356909.21 2772.03 31.46-	.56	2807.92 31.63
111.0	38931.34- 443.91- 7.77-	5.64	7013.89- 69.47- .93	6.17	358290.98 2755.85 29.58-	.58	2792.24 30.60
111.5	39150.45- 450.54- 10.67-	7.07	7049.43- 64.32- 3.91	7.79	359665.06 2742.44 29.05-	.74	2779.95 31.19
112.0	39381.88- 454.59- 6.09	3.27	7078.22- 65.56- 2.78	3.59	361033.42 2726.80 33.00-	.35	2765.21 33.67
112.5	39605.05- 444.45- 11.12	5.61	7114.99- 61.54- 19.86	6.14	362391.86 2709.43 32.03-	.59	2746.33 39.29
113.0	39826.33- 443.47- 8.63-	6.48	7139.76- 45.70- 4.08	7.03	363742.86 2694.76 32.14-	.68	2731.39 33.53
113.5	40048.52- 453.08- 24.33-	6.59	7160.70- 57.46- 41.95-	7.20	365086.63 2677.29 35.86-	.68	2715.96 60.32
114.0	40279.42- 467.80- 4.12	4.28	7197.22- 87.66- 20.91-	4.66	366420.15 2658.89 30.58-	.45	2701.16 37.27
114.5	40516.33- 448.96- 26.65	4.33	7248.36- 78.37- 18.35	4.76	367745.53 2646.70 25.27-	.46	2685.66 41.06
115.0	40728.39- 441.15- 7.88-	8.56	7275.59- 69.31- 14.74	9.48	369066.86 2633.62 28.86-	.91	2671.21 33.35
115.5	40957.49- 456.85- 12.93-	6.41	7317.67- 63.62- 13.75	7.01	370379.15 2617.84 30.96-	.68	2658.16 36.26
116.0	41185.24- 454.08- 15.14	6.72	7339.22- 55.55- 17.97-	7.25	371684.70 2602.65 33.82-	.71	2642.55 41.18
116.5	41411.57- 441.71- 17.15	10.41	7373.22- 81.60- 18.88-	11.39	372981.80 2584.01 36.51-	1.11	2622.76 44.54
117.0	41626.95- 436.92- 1.55	10.05	7420.82- 74.44- 22.83	10.96	374268.71 2566.14 32.35-	1.06	2604.13 39.62
117.5	41848.50- 440.15- 3.05-	11.25	7447.66- 58.77- 10.59	12.20	375547.94 2551.66 28.14-	1.19	2590.01 30.22
118.0	42067.11- 439.97- 14.16	10.31	7479.59- 63.85- 17.44-	11.29	376820.38 2538.00 26.86-	1.11	2576.64 35.02
118.5	42288.48- 425.99- 13.84	8.05	7511.51- 76.21- 9.91-	8.72	378085.94 2524.79 29.03-	.86	2561.61 33.65
119.0	42493.11- 426.13- 22.27-	5.04	7555.81- 73.76- 22.23	5.45	379345.18 2508.96 31.97-	.54	2545.96 44.86
119.5	42714.62- 448.26- 36.91-	6.58	7585.28- 53.98- 28.72	7.25	380594.91 2492.82 31.35-	.71	2533.38 56.31
120.0	42941.37- 463.05- 23.27-	7.85	7609.79- 45.04- 8.30-	8.64	381838.00 2477.60 32.72-	.86	2520.90 41.00
120.5	43177.67- 471.54- 5.34	9.51	7630.32- 62.28- 30.88-	10.36	383072.51 2460.10 33.65-	1.01	2505.66 45.98
121.0	43412.91- 457.71- 25.65	7.36	7672.07- 75.92- 1.66	8.02	384298.10 2443.95 33.88-	.80	2487.60 42.53

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121.5	43635.38- 445.88- 9.45	8.15	7706.24- 60.61- 21.33	8.86	385516.47 2426.21 32.94-	.89	2467.58 40.37
122.0	43858.80- 448.25- 9.32-	8.33	7732.69- 54.58- 3.69-	9.03	386724.31 2411.01 28.54-	.89	2452.93 30.25
122.5	44083.64- 455.20- 6.96-	4.97	7760.83- 64.31- 9.15-	5.39	387927.48 2397.66 29.18-	.54	2441.34 31.36
123.0	44314.01- 455.21- 10.39-	3.23	7797.00- 63.74- 9.03	3.59	389121.98 2381.83 30.54-	.35	2425.78 33.50
123.5	44538.85- 465.60- 3.85-	6.07	7824.58- 55.28- 11.87	6.67	390309.32 2367.12 26.96-	.67	2413.11 29.71
124.0	44779.62- 459.07- 23.20	4.28	7852.28- 51.87- 10.85-	4.68	391489.11 2354.87 27.52-	.47	2399.76 37.60
124.5	44997.93- 442.40- 16.60	5.50	7876.45- 66.13- 24.13-	6.14	392664.19 2339.60 33.30-	.61	2381.98 44.35
125.0	45222.02- 442.46- 7.60-	4.86	7918.42- 76.00- .12	5.33	393828.71 2321.57 35.86-	.54	2364.58 36.66
125.5	45440.39- 450.00- 16.69-	5.34	7952.46- 66.01- 8.66	5.82	394985.76 2303.73 34.68-	.59	2348.20 39.45
126.0	45672.02- 459.15- 19.94-	4.05	7984.43- 67.35- 11.69	4.47	396132.44 2286.88 29.27-	.45	2333.49 37.30
126.5	45899.55- 469.94- 29.33	9.71	8019.81- 54.31- 14.32	10.56	397272.64 2274.46 24.20-	1.07	2323.13 40.63
127.0	46141.96- 429.82- 56.16	6.51	8038.75- 53.02- 15.31-	7.12	398406.90 2262.68 28.51-	.73	2303.75 64.82
127.5	46329.38- 413.78- 22.85-	9.75	8072.83- 69.63- 10.77-	10.62	399535.33 2245.94 35.01-	1.08	2284.80 43.17
128.0	46555.74- 452.68- 24.24-	7.38	8108.38- 63.79- 23.43	8.13	400652.85 2227.67 32.65-	.83	2274.09 46.94
128.5	46782.06- 438.02- 6.08	4.18	8136.63- 46.19- 7.01	4.61	401763.00 2213.29 32.61-	.47	2256.69 33.91
129.0	46993.77- 446.59- 31.68-	6.16	8154.58- 56.78- 7.98-	6.75	402866.14 2195.05 33.86-	.68	2240.74 47.05
129.5	47228.65- 469.71- 13.33-	8.09	8193.42- 54.17- 6.19	8.85	403958.05 2179.42 24.58-	.90	2230.12 28.63
130.0	47463.49- 459.92- 19.07	8.59	8208.76- 50.59- 7.49-	9.27	405045.57 2170.47 23.56-	.96	2219.24 31.22
130.5	47688.58- 450.64- 1.87	7.03	8244.01- 61.67- 7.94-	7.70	406128.53 2155.86 34.31-	.80	2203.32 35.27
131.0	47914.13- 458.05- 8.69-	5.02	8270.42- 58.54- 1.29-	5.58	407201.43 2136.15 37.08-	.57	2185.50 38.10
131.5	48146.63- 459.33- 9.32	5.25	8302.55- 62.96- 2.77-	5.81	408264.69 2118.78 31.14-	.60	2168.91 32.62
132.0	48373.47- 448.72- 20.95	4.35	8333.39- 61.31- 8.16-	4.75	409320.22 2105.01 25.94-	.49	2153.18 34.33

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132.5	48595.36- 438.38- 12.95	8.81	8363.87- 71.12- 9.14-	9.58	410369.70 2092.84 25.38-	.99	2139.44 29.93
133.0	48811.86- 435.76- 7.90-	8.29	8404.52- 70.46- 6.02	9.05	411413.06 2079.63 29.25-	.95	2125.96 30.89
133.5	49031.13- 446.28- 19.41-	11.10	8434.33- 65.11- 12.05	12.08	412449.33 2063.58 32.98-	1.26	2112.29 40.12
134.0	49258.14- 455.18- 9.98	8.39	8469.63- 58.41- 1.50-	9.20	413476.64 2046.64 33.88-	.96	2097.46 35.35
134.5	49486.31- 436.30- 23.69	8.67	8492.75- 66.61- 2.65-	9.49	414495.98 2029.69 35.78-	.99	2077.13 43.00
135.0	49694.45- 431.48- 1.39-	10.44	8536.24- 61.06- 22.30	11.37	415506.34 2010.85 35.21-	1.20	2057.53 41.71
135.5	49917.80- 437.70- 15.29-	5.83	8553.81- 44.30- 4.04-	6.33	416506.83 1994.48 30.75-	.66	2042.42 34.57
136.0	50132.16- 446.78- 21.66-	9.34	8580.54- 65.10- 24.46-	10.14	417500.82 1980.10 26.73-	1.08	2030.93 42.22
136.5	50364.58- 459.37- 12.47-	5.55	8618.92- 68.76- 13.28	6.06	418486.94 1967.74 24.72-	.65	2021.82 30.70
137.0	50591.53- 459.25- 1.87	7.83	8649.31- 51.82- 17.65	8.54	419468.57 1955.38 27.64-	.91	2009.26 32.85
137.5	50823.84- 457.49- 9.25	4.32	8670.74- 51.10- 9.94-	4.69	420442.33 1940.10 30.19-	.50	1993.97 33.10
138.0	51049.02- 450.00- 11.03	6.23	8700.42- 61.77- 16.15-	6.89	421408.67 1925.19 30.20-	.74	1978.05 35.98
138.5	51273.84- 446.46- .95-	2.38	8732.51- 67.26- 1.50-	2.61	422367.53 1909.90 32.63-	.29	1962.54 32.68
139.0	51495.48- 450.95- 27.90-	1.52	8767.68- 63.27- 13.12	1.67	423318.58 1892.56 35.48-	.18	1946.57 47.00
139.5	51724.79- 449.25- 5.06	3.57	8795.78- 54.14- 6.68	3.86	424260.09 1874.43 33.28-	.42	1928.27 34.32
140.0	51944.73- 445.89- 41.68-	4.99	8821.82- 56.59- 4.49-	5.48	425193.01 1859.28 31.43-	.59	1912.84 52.39
140.5	52170.68- 490.93- 5.42	3.42	8852.37- 58.63- 15.00	3.70	426119.37 1843.00 25.97-	.41	1908.17 30.48
141.0	52435.67- 388.17- 6.90	3.26	8893.96- 45.84- 19.46-	3.52	427952.69 1820.93 33.08-	.39	1862.41 39.00
142.0	52823.84- 433.57- 48.62-	1.70	8926.30- 61.06- 5.66-	1.87	428856.95 1800.22 35.93-	.21	1852.70 60.72
142.5	53044.72- 436.80- 10.70-	1.99	8955.03- 51.50- 8.49	2.27	429752.91 1785.00 32.40-	.24	1838.39 35.17
143.0	53260.64- 444.27- 6.43-	1.98	8977.80- 52.57- 16.52-	2.28	430641.95 1767.81 33.04-	.24	1823.54 37.49

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143.5	53489.00- 443.23- 4.24	2.91	9007.60- 68.02- 15.68-	3.16	431520.73 1751.96 31.72-	.35	1808.43 35.64
144.0	53703.87- 440.02- 8.59-	7.17	9045.83- 68.25- 13.15	7.77	432393.91 1736.09 34.65-	.85	1792.29 38.05
144.5	53929.03- 451.83- 7.35-	5.79	9075.85- 54.87- 8.18	6.35	433256.82 1717.30 34.37-	.70	1776.59 36.09
145.0	54155.70- 447.37- .94-	5.89	9100.70- 60.06- 4.98-	6.45	434111.21 1701.71 29.12-	.70	1760.56 29.56
145.5	54376.40- 452.77- 10.06-	6.27	9135.92- 59.85- 9.96	6.78	434958.54 1688.17 27.67-	.75	1748.86 31.08
146.0	54608.48- 457.44- 6.18-	3.61	9160.56- 50.10- 6.66	3.94	435799.39 1674.04 30.49-	.43	1736.14 31.82
146.5	54833.84- 458.96- 1.92-	4.91	9186.02- 53.18- 6.96-	5.36	436632.58 1657.68 31.14-	.59	1720.86 31.97
147.0	55067.44- 459.36- .60-	4.54	9213.74- 57.06- 12.56-	5.01	437457.07 1642.89 30.15-	.56	1706.86 32.67
147.5	55293.20- 459.56- 7.07-	6.19	9243.09- 65.74- 17.22-	6.75	438275.47 1627.52 31.81-	.75	1692.44 36.85
148.0	55527.01- 466.43- 5.60	4.89	9279.49- 74.28- 4.75-	5.39	439084.60 1611.08 30.15-	.59	1678.88 31.03
148.5	55759.64- 453.96- 30.39	3.38	9317.37- 70.50- 18.09	3.80	439886.56 1597.37 28.54-	.43	1662.12 45.45
149.0	55980.97- 436.03- 17.37	2.58	9350.00- 56.18- 22.79	2.94	440681.97 1582.54 31.42-	.32	1642.47 42.53
149.5	56195.67- 436.59- 14.35-	2.21	9373.55- 47.71- .20	2.37	441469.10 1565.94 33.64-	.27	1626.36 36.57
150.0	56417.57- 450.39- 10.81	2.80	9397.71- 55.98- 13.60	3.16	442247.91 1548.90 28.38-	.35	1614.02 33.27
150.5	56646.06- 425.78- 28.24	2.82	9429.53- 34.10- 26.93	3.01	443018.00 1537.56 24.91-	.34	1595.78 46.30
151.0	56843.35- 422.14- 24.31-	2.48	9431.81- 29.04- 16.26-	2.73	443785.47 1523.98 32.12-	.30	1581.64 43.44
151.5	57068.21- 450.09- 17.83-	2.85	9458.58- 50.37- 21.31-	3.06	444541.98 1505.43 33.72-	.35	1572.08 43.70
152.0	57293.44- 439.98- 15.94	2.85	9482.18- 50.35- 6.43-	3.15	445290.91 1490.25 30.87-	.36	1554.66 35.33
152.5	57508.20- 434.14- .26	2.25	9508.93- 56.80- 10.66-	2.50	446032.24 1474.56 33.09-	.28	1538.19 34.76
153.0	57727.58- 439.71- 13.12-	2.05	9538.99- 61.01- .16-	2.24	446765.47 1457.16 35.10-	.26	1523.28 37.47
153.5	57947.91- 447.26- 14.45-	2.43	9569.95- 56.97- 2.13	2.65	447489.40 1439.45 32.20-	.31	1508.42 35.35
154.0	58174.85- 454.16- 26.44-	.78	9595.96- 58.88- 20.70-	.87	448204.93 1424.96 30.52-	.10	1496.74 45.38

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154.5	58402.08- 473.71- 43.49-	1.42	9628.84- 77.67- 13.79-	1.66	448914.37 1408.93 32.42-	.18	1488.46 55.97
155.0	58648.56- 497.65- 2.64	.73	9673.64- 72.68- 25.11	.83	449613.86 1392.54 36.57-	.09	1480.57 44.44
155.5	58899.73- 471.06- 67.21	2.98	9701.52- 52.56- 46.60	3.21	450306.91 1372.36 22.90-	.38	1451.91 84.93
156.0	59109.94- 430.44- 34.34	4.16	9703.28- 26.08- 1.63-	4.54	450997.36 1369.64 21.68-	.53	1435.92 40.64
156.5	59330.17- 436.72- 16.61-	5.70	9727.60- 54.19- 31.50-	6.26	451676.55 1350.68 37.13-	.72	1420.56 51.45
157.0	59546.66- 447.05- 16.81-	9.15	9757.47- 57.58- 3.21-	9.99	452348.04 1332.51 33.77	1.17	1406.68 37.86
157.5	59777.22- 453.53- 4.05	1.79	9785.18- 57.40- .21-	1.96	453009.06 1316.91 28.20-	.23	1394.00 28.49
158.0	60000.19- 443.00- 16.89	.24	9814.87- 57.79- 1.87-	.28	453664.95 1304.31 29.47-	.04	1378.70 34.02
158.5	60220.23- 436.64- 7.47	1.56	9842.97- 59.27- 3.79	1.76	454313.37 1287.44 33.29-	.21	1360.76 34.33
159.0	60436.83- 435.53- 9.51-	5.21	9874.15- 53.99- 15.02	5.70	454952.39 1271.01 31.45-	.66	1344.65 36.13
159.5	60655.76- 446.15- 19.88-	5.03	9896.96- 44.25- 7.53	5.51	455584.38 1255.98 30.87-	.66	1333.61 37.48
160.0	60882.99- 455.41- 13.22-	2.03	9918.40- 46.46- 7.27-	2.24	456208.38 1240.14 32.41-	.26	1321.93 35.75
160.5	61111.18- 459.38- 2.60-	1.93	9943.43- 51.52- .12	2.17	456824.53 1223.57 30.89-	.25	1307.97 31.00
161.0	61342.37- 458.02- 8.49	1.13	9969.93- 46.33- 7.59	1.32	457431.95 1209.25 28.34-	.15	1293.91 30.54
161.5	61569.20- 450.89- 15.32	6.78	9989.77- 43.92- 11.31-	7.45	458033.78 1195.22 29.94-	.89	1278.20 35.49
162.0	61793.26- 442.69- 3.70	7.76	10013.85- 57.65- 35.70-	8.52	458627.18 1179.30 31.80-	1.01	1260.97 47.95
162.5	62011.89- 447.18- 21.99	8.91	10047.42- 79.63- 35.01-	9.80	459213.08 1163.42 28.78-	1.18	1248.94 50.38
163.0	62240.44- 420.69- 32.44	5.75	10093.49- 92.66- 10.02	6.25	459790.60 1150.51 27.56-	.76	1228.52 43.73
163.5	62432.59- 414.73- 8.30-	7.43	10140.09- 69.61- 48.24	8.16	460363.60 1135.85 29.75-	.97	1211.20 57.28
164.0	62655.18- 428.99- 1.79	7.00	10163.10- 44.42- 37.38	7.63	460926.45 1120.76 26.32-	.93	1200.88 45.75
164.5	62861.59- 412.93- 8.68-	11.12	10184.51- 32.23- 1.17	12.11	461484.36 1109.53 31.08-	1.46	1184.32 32.29
165.0	63068.12- 437.68- 47.65-	13.30	10195.33- 43.24- 22.10-	14.52	462035.99 1089.68 39.45-	1.75	1175.09 65.70

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165.5	63299.27- 460.59- 20.28-	7.42	10227.75- 54.34- 14.51-	8.06	462574.04 1070.07 33.74-	.97	1166.26 41.96
166.0	63528.72- 457.96- .53	7.39	10249.67- 57.75- 25.86-	8.04	463106.07 1055.93 29.22-	.99	1152.41 39.02
166.5	63757.24- 460.06- 4.85-	5.97	10285.51- 80.20- 26.02-	6.57	463629.97 1040.85 30.96-	.80	1140.82 40.74
167.0	63988.78- 462.82- 5.72	4.21	10329.88- 83.78- 11.77	4.66	464146.92 1024.96 33.19-	.57	1127.73 35.68
167.5	64220.06- 454.33- 19.50	5.24	10369.29- 68.43- 29.68	5.75	464654.94 1007.66 29.52-	.71	1107.47 46.18
168.0	64443.11- 443.32- .89	3.30	10398.31- 54.09- 15.88	3.55	465154.59 995.44 24.72-	.44	1091.04 29.40
168.5	64663.38- 453.44- 55.24-	4.86	10423.39- 52.54- 7.33-	5.36	465650.39 982.93 32.36-	.66	1083.75 64.44
169.0	64896.56- 498.56- 19.49-	2.95	10450.86- 61.42- 13.92	3.20	466137.52 963.08 31.72-	.39	1086.22 39.75
169.5	65161.95- 472.93- 94.07	5.36	10484.81- 38.62- 9.50	5.84	466613.47 951.21 20.75-	.73	1062.99 96.80
170.0	65369.49- 404.49- 57.61	5.95	10489.48- 51.92- 19.97-	6.54	467088.73 942.33 26.75-	.82	1026.79 66.59
170.5	65566.45- 415.31- 30.56-	7.79	10536.74- 58.59- 28.61	8.59	467555.81 924.45 37.73-	1.06	1015.15 56.35
171.0	65784.81- 435.05- 14.89-	4.55	10548.08- 23.30- 8.42	5.05	468013.18 904.60 37.45-	.63	1004.05 41.17
171.5	66001.50- 430.21- 13.24	4.63	10560.05- 50.17- 39.97-	5.12	468460.41 886.99 31.13-	.63	987.09 52.37
172.0	66215.02- 421.81- 3.21	3.07	10598.25- 63.28- .13-	3.38	468900.18 873.47 27.43-	.41	972.05 27.62
172.5	66423.32- 427.00- 18.00-	4.98	10623.33- 50.30- 15.63	5.33	469333.88 859.56 28.64-	.67	961.09 37.26
173.0	66642.02- 439.81- 10.31-	5.75	10648.55- 47.65- 1.97-	6.17	469759.74 844.82 29.16-	.79	953.64 31.00
173.5	66863.13- 437.31- 1.79-	3.13	10670.99- 52.27- 3.58-	3.41	470178.70 830.39 29.68-	.43	939.96 29.95
174.0	67079.34- 441.60- 18.57-	5.33	10700.83- 51.23- 6.43	5.84	470590.13 815.13 31.98-	.74	928.48 37.53
174.5	67304.73- 455.89- 16.00-	2.91	10722.22- 45.84- 8.92-	3.15	470993.84 798.41 33.50-	.41	920.54 38.18
175.0	67535.23- 457.60- 5.05	3.16	10746.68- 60.16- 25.93-	3.55	471388.54 781.63 31.96-	.45	907.73 41.47
175.5	67762.34- 450.83- 12.76	4.11	10782.38- 71.78- 5.21-	4.51	471775.47 766.44 29.19-	.58	892.10 32.28
176.0	67986.07- 444.84- 1.00-	3.67	10818.46- 65.37- 11.40	4.02	472154.99 752.44 28.69-	.51	876.54 30.88

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176.5	68207.18- 451.84- 6.57-	5.02	10847.76- 60.37- 4.52	5.48	472527.92 737.75 31.05-	.71	867.23 32.06
177.0	68437.92- 451.42- 19.77	3.92	10878.84- 60.84- 11.52	4.38	472892.74 721.38 31.36-	.57	853.16 38.82
177.5	68658.60- 432.07- 20.46	6.29	10908.60- 48.85- 23.16	6.83	473249.30 706.39 29.22-	.88	829.49 42.54
178.0	68869.99- 430.95- 1.18-	7.72	10927.69- 37.67- 1.62	8.50	473599.13 692.16 29.06-	1.09	816.23 29.13
178.5	69089.56- 433.25- 7.38	7.04	10946.28- 47.22- 16.24-	7.71	473941.47 677.32 29.82-	1.00	805.42 34.75
179.0	69303.24- 423.56- 5.83-	6.95	10974.91- 53.91- 6.82-	7.54	474276.46 662.33 32.62-	.98	788.04 33.83
179.5	69513.12- 439.08- 4.08-	6.89	11000.20- 54.04- 11.99	7.47	474603.81 644.70 33.27-	.97	781.89 35.60
180.0	69742.32- 427.65- 15.05	8.34	11028.96- 41.92- 1.71	9.15	474921.17 629.06 33.52-	1.20	761.81 36.78
180.5	69940.77- 424.03- 18.89-	12.76	11042.12- 52.32- 26.75-	14.03	475232.87 611.18 37.69-	1.82	745.71 49.93
181.0	70166.35- 446.54- 18.47-	12.01	11081.29- 68.67- 3.36-	13.06	475532.36 591.37 36.89-	1.70	744.20 41.40
181.5	70387.32- 442.50- 5.57	9.64	11110.80- 55.69- 14.09	10.56	475824.24 574.29 31.75-	1.38	727.13 35.18
182.0	70608.86- 440.97- .01-	8.65	11136.98- 54.58- 7.46	9.48	476106.65 559.61 26.80-	1.25	714.56 27.82
182.5	70828.29- 442.52- 12.90-	9.23	11165.38- 48.22- 10.79	10.06	476383.86 547.48 27.25-	1.33	705.61 32.02
183.0	71051.38- 453.87- 29.02-	9.57	11185.21- 43.78- 18.79	10.46	476654.13 532.35 29.61-	1.38	700.94 45.52
183.5	71282.16- 471.55- 7.18-	7.70	11209.17- 29.43- 10.87-	8.39	476916.21 517.86 29.14-	1.12	701.00 31.92
184.0	71522.93- 461.05- 10.05	7.22	11214.64- 54.66- 53.08-	7.95	477172.00 503.21 33.28-	1.06	684.67 63.45
184.5	71743.21- 461.49- 23.60	8.70	11263.83- 82.51- 1.75-	9.53	477419.43 484.58 32.91-	1.27	674.24 40.53
185.0	71984.42- 437.45- 75.89	9.73	11297.16- 56.41- 48.63	10.67	477656.57 470.30 23.35-	1.43	644.77 93.11
185.5	72180.67- 385.59- 32.23	9.44	11320.24- 33.88- 22.94	10.36	477889.73 461.22 24.95-	1.39	602.12 46.78
186.0	72370.02- 405.21- 43.83-	7.76	11331.04- 33.46- 18.82-	8.55	478117.80 445.34 34.32-	1.15	603.03 58.77
186.5	72585.88- 429.43- 25.51-	5.31	11353.71- 52.70- 12.18-	5.77	478335.08 426.90 33.88-	.77	607.80 44.13
187.0	72799.45- 430.72- 3.13	7.38	11383.75- 45.65- 18.48	8.02	478544.70 411.46 30.52-	1.09	597.42 35.82

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187.5	73016.61- 426.29- 25.91-	11.30	11399.36- 34.22- 18.57-	12.25	478746.54 396.37 35.73-	1.66	583.10 47.88
188.0	73225.74- 456.63- 43.10-	13.08	11417.97- 64.22- 46.80-	14.35	478941.07 375.73 38.48-	1.95	594.82 74.36
188.5	73473.25- 469.40- 12.26	9.13	11463.58- 81.03- 2.05-	10.06	479122.28 357.88 29.85-	1.36	595.80 32.34
189.0	73695.14- 444.37- 38.80	9.64	11499.00- 66.28- 35.84	10.54	479298.95 345.87 24.19-	1.44	567.00 58.10
189.5	73917.62- 430.59- 4.64	8.03	11529.86- 45.18- 14.74	8.84	479468.15 333.68 28.90-	1.21	546.62 32.77
190.0	74125.74- 439.72- 17.53-	10.21	11544.19- 51.54- 8.12-	11.21	479632.64 316.97 31.99-	1.54	544.50 37.37
190.5	74357.34- 448.13- 5.17	5.83	11581.40- 53.30- 14.17	6.37	479785.12 301.69 27.08-	.88	542.84 31.00
191.0	74573.87- 434.55- 11.42	6.91	11597.50- 37.36- 14.14	7.47	479934.34 289.88 28.93-	1.04	523.70 34.17
191.5	74791.89- 436.70- 12.90-	2.68	11618.76- 39.16- 32.22-	2.93	480075.01 272.76 35.77-	.40	516.37 49.84
192.0	75010.58- 447.45- 24.76-	4.57	11636.66- 69.58- 36.32-	5.05	480207.10 254.11 33.06-	.71	519.25 55.00
192.5	75239.34- 461.46- 1.43	9.28	11688.35- 75.48- 23.55	10.23	480329.12 239.69 24.76-	1.43	525.45 34.20
193.0	75472.04- 446.01- 25.10	3.40	11712.14- 46.03- 18.32	3.71	480446.79 229.34 25.47-	.53	503.63 40.18
193.5	75685.36- 436.36- 7.45	3.35	11734.39- 57.16- 18.85-	3.65	480558.47 214.21 31.24-	.52	489.46 37.24
194.0	75908.41- 438.56- 16.00	2.56	11769.31- 64.89- 7.64	2.83	480661.01 198.10 31.31-	.40	485.58 35.98
194.5	76123.92- 420.36- 14.81	9.22	11799.28- 49.51- 25.84	10.13	480756.58 182.90 31.83-	1.42	461.10 43.60
195.0	76328.78- 423.74- 16.58-	6.18	11818.82- 39.04- 6.77	6.82	480843.92 166.27 34.55-	.97	456.87 38.92
195.5	76547.67- 436.95- 12.62-	2.49	11838.33- 42.73- 8.48-	2.73	480922.85 148.35 33.71-	.39	463.42 36.98
196.0	76765.73- 436.37- .17-	.55	11861.56- 47.53- 10.80-	.61	480992.27 132.56 29.85-	.08	458.53 31.74
196.5	76984.04- 437.12- 1.11	1.58	11885.86- 53.54- 7.41-	1.71	481055.41 118.49 28.37-	.25	456.05 29.34
197.0	77202.86- 435.26- 1.15-	4.80	11915.10- 54.94- 21.42	5.35	481110.77 104.18 27.20-	.76	450.92 34.64
197.5	77419.31- 438.28- 28.88-	5.09	11940.81- 32.11- 21.86	5.67	481159.60 91.29 30.41-	.80	448.83 47.29
198.0	77641.14- 464.14- 22.03-	8.89	11947.22- 33.08- 28.07-	9.70	481202.06 73.77 35.44-	1.39	471.13 50.29

SM 2.10

198.5	77883.45- 460.31- 37.14	4.18	11973.89- 60.19- 42.50-	4.53	481233.38 55.85 32.10-	.66	467.58 64.93
199.0	78101.45- 427.00- 33.25	3.67	12007.41- 75.58- 6.36-	4.02	481257.92 41.67 28.78-	.58	435.63 44.43
199.5	78310.45- 427.05- 15.95-	3.73	12049.47- 66.55- 49.09	4.13	481275.05 27.07 27.70-	.60	433.06 58.58
200.0	78528.51- 442.96- 19.73-	3.98	12073.97- 26.48- 32.98	4.35	481284.99 13.97 26.36-	.64	443.97 46.60
200.5	78753.42- 446.79- 22.74	3.18	12075.96- 33.57- 22.46-	3.49	481289.03 .70 24.99-	.52	448.05 40.57
201.0	78975.30- 420.21-	3.25	12107.54- 48.95-	3.60	481285.70 11.01-	.53	423.20
201.5	79173.63-	2.47	12124.92-	2.69	481278.01	.40	

APPENDIX B

ROCKET POSITIONS ABOVE THE MICROPHONE ARRAY
AT THE TIMES OF GRENADE EXPLOSIONS

Position data without standard deviations
on SM 1.04 are three-channel data.

SM 1.01

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
41.7440	25334.09	6.45	7102.63	7.04	82610.22	1.10
3.4600	2454.68-		1111.68		10489.18	
45.2040	22879.41	2.02	8214.31	2.12	93099.40	.36
3.4590	2427.26-		1103.61		9992.00	
48.6630	20452.15	2.52	9317.93	2.83	103091.41	.41
3.5250	2454.37-		1116.79		9720.47	
52.1880	17997.77	.53	10434.72	.49	112811.88	.10
3.4619	2412.42-		1089.58		9117.38	
55.6500	15585.35	2.60	11524.31	2.90	121929.27	.43
3.4300	2368.77-		1076.92		8626.63	
59.0800	13216.58	.36	12601.23	.30	130555.90	.07
3.4800	2398.81-		1093.62		8348.96	
62.5600	10817.77	.75	13694.85	.81	138904.86	.13
6.9670	4793.35-		2188.38		15521.89	
69.5270	6024.42	3.91	15883.24	4.24	154426.76	.72
3.4180	2349.56-		1080.30		7037.61	
72.9450	3674.85	2.79	16963.54	3.06	161464.37	.54
3.5170	2406.91-		1105.40		6847.50	
76.4620	1267.94	3.91	18068.94	4.25	168311.87	.77
3.4930	2391.66-		1100.51		6403.05	
79.9550	1123.72-	3.49	19169.45	3.87	174714.93	.70
3.4160	2335.75-		1079.27		5880.66	
83.3710	3459.47-	2.57	20248.73	2.83	180595.59	.54
3.5020	2386.06-		1099.13		5636.76	
86.8730	5845.53-	3.90	21347.86	4.27	186232.36	.80
3.5000	2385.55-		1108.34		5237.80	
90.3730	8231.09-	2.86	22456.21	3.05	191470.16	.64
3.4639	2352.69-		1084.87		4793.74	
93.8369	10583.78-	1.71	23541.09	1.94	196263.90	.37
3.5130	2375.68-		1102.54		4467.69	
97.3500	12959.47-	4.64	24643.63	4.96	200731.60	1.09

SM 1.02

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
39.0358	34669.07	9.25	5901.60	10.13	85943.25	1.35
2.9939	1088.04-		746.92		11357.45	
42.0298	33581.03	10.30	6648.53	11.16	97300.71	1.31
3.1233	1125.03-		770.64		11425.18	
45.1530	32455.99	11.70	7419.18	12.66	108725.89	1.35
3.2634	1157.32-		807.77		11526.38	
48.4166	31298.67	11.99	8226.95	12.96	120252.28	1.25
3.3176	1179.37-		815.66		11318.96	
51.7343	30119.29	13.18	9042.62	14.39	131571.24	1.26
3.5117	1243.50-		869.69		11563.40	
55.2460	28875.79	14.36	9912.31	15.58	143134.64	1.30
3.5891	1265.29-		885.35		11389.62	
58.8351	27610.49	14.95	10797.66	16.21	154524.27	1.31
3.6055	1275.80-		896.61		11011.52	
62.4406	26334.69	16.25	11694.27	17.57	165535.79	1.38
3.8215	1344.13-		957.11		11218.71	
66.2622	24990.56	17.61	12651.39	19.06	176754.51	1.48
4.0323	1411.87-		1002.46		11301.60	
70.2945	23578.69	19.74	13653.85	21.46	188056.11	1.64
4.2282	1496.52-		1068.06		11298.06	
74.5227	22082.17	23.50	14721.91	25.48	199354.19	1.98
4.5029	1582.71-		1122.09		11402.08	
79.0255	20499.46	24.56	15844.01	26.71	210756.26	2.11
4.7047	1657.40-		1192.22		11217.44	
83.7303	18842.05	26.25	17036.24	28.59	221973.70	2.30
10.6082	3709.20-		2676.41		22698.92	
94.3385	15132.85	30.62	19712.65	33.28	244672.63	2.87
6.0382	2138.80-		1543.60		11314.82	
100.3766	12994.04	32.48	21256.25	35.32	255987.45	3.19
6.8806	2436.64-		1767.58		11481.57	
107.2573	10557.40	36.69	23023.84	39.96	267469.03	3.79
7.7813	2726.56-		1990.08		11181.96	
115.0385	7830.84	38.92	25013.92	42.47	278650.99	4.24
9.5869	3293.70-		2383.95		11154.83	
124.6256	4537.14	36.54	27397.87	39.74	289805.82	4.27

SI 1.03

TIME sec.	X (+N) ft.	SIG X ft.	Y (+N) ft.	SIG Y ft.	Z ft.	SIG Z ft.
38.3680	29800.23	3.83	4803.31-	4.18	85097.21	.86
3.0092	2304.14-		800.57-		10994.24	
41.3773	27496.03	3.88	5603.88-	4.28	96091.46	.83
3.0562	2318.07-		788.09-		10752.42	
44.4335	25178.01	2.65	6391.98-	2.84	106843.89	.55
3.3037	2490.84-		843.15-		11204.63	
47.7372	22687.17	3.17	7235.13-	3.56	118048.52	.66
3.2643	2455.30-		824.33-		10675.37	
51.0017	20231.86	1.44	8059.46-	1.62	128723.89	.31
3.4649	2599.24-		863.13-		10920.46	
54.4666	17632.62	.95	8922.59-	1.06	139644.35	.20
3.5788	2675.62-		892.36-		10854.25	
58.0455	14957.00	1.41	9814.95-	1.60	150498.61	.30
3.5990	2677.86-		884.89-		10487.58	
61.6446	12279.13	.95	10699.85-	.98	160986.19	.17
7.7959	5808.69-		1894.15-		21265.85	
65.4405	6470.44	2.15	12594.01-	2.38	182252.05	.49
4.2802	3182.35-		1034.08-		10840.14	
73.7207	3288.09	2.96	13628.10-	3.29	193092.19	.67
4.4113	3282.42-		1064.23-		10555.12	
78.1320	5.67	3.59	14692.33-	3.94	203647.32	.83
4.5936	3412.50-		1091.42-		10331.54	
82.7256	3406.83-	4.14	15783.76-	4.55	213978.87	.99
5.1010	3777.76-		1199.82-		10682.19	
87.8266	7184.59-	4.80	16983.58-	5.21	224661.06	1.12
5.4747	4057.01-		1279.07-		10541.97	
93.3013	11241.61-	6.32	18262.65-	6.97	235203.04	1.56
5.9994	4448.58-		1403.35-		10448.62	
99.3006	15690.19-	6.72	19666.01-	7.36	245651.66	1.73
6.6608	4934.45-		1530.01-		10265.86	
105.9615	20624.64-	2.70	21196.02-	3.01	255917.53	.72
7.8217	5757.76-		1755.51-		10267.76	
113.7832	26382.41-	4.10	22951.54-	4.46	266185.29	1.13
9.4713	6996.24-		2140.82-		9833.04	
123.2545	33378.65-	6.78	25092.36-	7.47	276018.34	2.01

SM 1.04

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
41.6866	18695.97	7.04	7812.20-	7.83	90806.97	2.14
3.1003	2755.60-		996.00-		8840.00	
44.7869	15940.36	7.62	8808.20-	8.42	99646.97	2.31
3.2374	2858.35-		1024.26-		8821.38	
48.0243	13082.01	7.03	9832.47-	7.71	108468.36	2.12
3.3458	2931.41-		1049.17-		8708.19	
51.3701	10150.60	6.31	10881.64-	6.99	117176.55	1.91
3.4496	3015.58-		1075.69-		8560.01	
54.8197	7123.07		11968.85-		125731.14	
7.2185	6264.20-		2223.04-		16604.05	
62.0382	858.87		14191.89-		142335.19	
3.8247	3305.28-		1164.17-		8095.31	
65.8629	2446.41-		15356.06-		150430.50	
3.9958	3454.44-		1207.45-		7944.24	
69.8587	5900.85-		16563.51-		158374.74	
4.2009	3618.81-		1269.18-		7793.36	
74.0596	9519.66-		17832.69-		166168.10	
4.4568	3838.68-		1334.28-		7642.00	
78.5164	13358.34-		19166.97-		173810.10	
4.6105	3956.98-		1368.05-		7239.70	
83.1269	17315.32-		20535.02-		181049.80	
5.105	4384.78-		1511.98-		7206.18	
88.2319	21700.10-		22047.00-		188255.98	
5.6495	4790.59-		1622.97-		7019.88	
93.8814	26490.69-		23669.97-		195275.86	
6.0774	5187.12-		1773.87-		6394.01	
99.9588	31678.84-	.65	25444.78-	.78	201669.30	.22
6.8863	5855.77-		1978.50-		5816.12	
106.8450	37534.61-	.87	27423.29-	.91	207485.42	.34
8.0228	6808.84-		2281.53-		4878.96	
114.8679	44343.45-	1.81	29704.82-	2.02	212364.38	.82
10.0145	8455.47-		2811.16-		3248.44	
124.8824	52798.93-	2.30	32515.99-	2.55	215612.83	1.16

SM 1.05

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
38.7668	36388.56	9.29	15.45	9.96	86673.79	1.70
3.0062	729.03-		127.21-		11318.17	
41.7730	35659.53	8.67	111.75-	9.47	97991.97	1.39
3.1128	746.16-		128.47-		11304.79	
44.8858	34913.37	8.42	240.23-	9.16	109296.76	1.22
3.3255	795.47-		136.69-		11664.63	
48.2113	34117.89	9.22	376.92-	10.02	120961.39	1.22
3.2823	782.43-		127.18-		11122.11	
51.4937	33335.45	9.46	504.11-	10.23	132083.51	1.16
3.5396	839.96-		130.95-		11576.48	
55.0334	32495.49	9.55	635.06-	10.31	143659.99	1.09
3.6166	863.70-		139.13-		11394.87	
58.6500	31631.78	10.57	774.20-	11.59	155054.87	1.11
3.6509	871.93-		132.38-		11066.54	
62.3009	30759.84	12.45	906.58-	13.53	166121.42	1.25
3.8705	913.82-		130.74-		11258.36	
66.1715	29846.02	9.95	1037.33-	10.86	177379.78	.96
4.0127	958.13-		131.57-		11160.43	
70.1841	28887.89	11.72	1168.90-	12.78	188540.22	1.08
4.3115	1008.93-		150.20-		11413.64	
74.4957	27878.96	14.14	1319.10-	15.37	199953.86	1.25
4.4682	1057.76-		149.07-		11196.84	
78.9640	26821.19	13.28	1468.18-	14.33	211150.71	1.15
4.7766	1140.69-		141.19-		11267.19	
83.7406	25680.50	12.78	1609.37-	13.88	222417.90	1.09
10.7952	2568.84-		301.40-		22772.54	
94.5359	23111.66	13.67	1910.78	14.79	245190.45	1.14
5.9485	1421.77-		173.44-		10961.41	
100.4845	21689.88	14.07	2084.22-	15.42	256151.86	1.18
6.7493	1581.47-		169.99-		11082.25	
107.2339	20108.41	12.52	2254.21-	13.58	267234.12	1.05
7.9527	1886.45-		190.89-		11199.96	
115.1867	18221.95	13.52	2445.10-	14.71	278434.09	1.16
9.6438	2280.12-		215.75-		10912.07	
124.8305	15941.82	11.07	2660.85-	11.95	289346.16	.97

SM 2.06

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
41.9503	27335.51	7.33	8626.26-	8.15	90711.90	1.93
3.7840	3399.67-		2214.45-		17822.07	
45.7343	23935.84	8.69	10840.71-	9.47	108544.98	2.16
3.7096	3350.71-		2177.87-		17159.14	
49.4440	20585.13	10.23	13018.58-	11.21	125704.13	2.49
3.8120	3432.58-		2216.34-		17134.19	
53.2560	17152.54	11.55	15234.92-	12.62	142838.32	2.75
3.9330	3560.17-		2304.64-		17164.78	
57.1890	13592.36	13.15	17539.56-	14.46	160003.10	3.17
4.0441	3648.37-		2346.75-		17128.51	
61.2330	9943.99	15.77	19886.31-	17.27	177131.61	3.84
4.2283	3796.93-		2429.88-		17350.19	
65.4614	6147.06	14.68	22316.20-	16.14	194481.80	3.59
4.3389	3902.67-		2486.78-		17206.17	
69.8002	2244.38	14.79	24802.99-	16.27	211687.97	3.69
4.5163	4073.20-		2598.47-		17263.58	
74.3165	1828.82-	13.99	27401.46-	15.35	228951.56	3.48
4.7778	4331.24-		2715.99-		17556.55	
79.0945	6160.06-	12.08	30117.45-	13.19	246508.12	3.05
4.9718	4464.60-		2831.26-		17501.44	
84.0663	10624.67-	10.16	32948.71-	11.06	264009.56	2.61
5.1158	4591.91-		2890.13-		17193.92	
89.1821	15216.59-	5.14	35838.85-	5.61	281203.49	1.33
5.5038	4976.16-		3072.48-		17579.55	
94.6859	20192.76-	4.21	38911.34-	4.60	298783.05	1.11
5.8662	5242.97-		3275.59-		17685.25	
100.5521	25435.73-	3.54	42186.93-	4.00	316468.31	.98
6.2233	5594.55-		3618.74-		17527.10	
106.7755	31030.28-	.13	45805.67-	.22	333995.41	.03
14.3739	12954.08-		7951.43-		35882.52	
121.1494	43984.36-	.20	53757.11-	.17	369877.94	.04
8.4494	7578.49-		4663.65-		18019.70	
129.5989	51562.85-	2.79	58420.76-	2.99	387897.65	.84
9.9446	8941.39-		5458.83-		18361.10	
139.5436	60504.24-	1.76	63879.60-	1.88	406258.76	.50

SM 1.07

TIME	X (+N)	SIG X	Y (+W)	SIG Y	Z	SIG Z
42.3572	27998.50	5.13	2155.54-	5.63	75024.84	1.20
3.2342	2339.99-	.19	374.32-	.28	10906.82	.14
45.5914	25658.51	5.28	2529.86-	5.77	85931.67	1.17
3.2294	2355.80-	.90	373.71-	1.04	10695.88	.19
48.8208	23302.70	6.17	2903.57-	6.76	96627.55	1.29
3.4404	2495.85-	.54	390.91-	.56	10946.53	.17
52.2612	20806.84	5.63	3294.48-	6.24	107574.09	1.17
3.4191	2472.24-	1.22	387.45-	1.26	10459.86	.23
55.6803	18334.60	6.83	3681.93-	7.46	118033.95	1.38
3.6200	2613.71-	.25	407.34-	.28	10643.33	.11
59.3002	15720.89	6.68	4089.28-	7.33	128677.29	1.37
11.7335	8449.49-	.17	1294.74-	.28	31564.15	.24
71.0338	7271.39	6.75	5384.02-	7.54	160241.45	1.43
8.9346	6428.49-	.87	957.05-	.85	21077.56	.28
79.9684	842.89	7.62	6341.08-	8.38	181319.01	1.68
4.5510	3284.66-	2.85	501.17-	3.17	9749.83	.61
84.5194	2441.76-	4.77	6842.25-	5.22	191068.84	1.07
5.2410	3754.46-	2.55	550.50-	2.80	10416.74	.62
89.7604	6196.22-	7.32	7392.75-	8.01	201485.59	1.69
5.5873	4006.90-	.75	579.25-	.83	10140.88	.25
95.3477	10203.13-	8.06	7972.01-	8.83	211626.47	1.94
6.0931	4363.13-	2.27	625.40-	2.40	9923.55	.50
101.4408	14566.26-	5.78	8597.41-	6.43	221550.03	1.45
6.7047	4789.01-	.45	681.97-	.45	9556.23	.15
108.1455	19355.27-	6.18	9279.38-	6.79	231106.27	1.59
8.0045	5674.96-	2.28	765.06-	2.60	9548.97	.72
116.1500	25030.24-	8.46	10044.45-	9.38	240655.24	2.31
4.9441	3522.58-	1.72	490.79-	1.80	4876.64	.57
121.0941	28552.82-	10.17	10535.24-	11.15	245531.89	2.88
4.7054	3335.84-	3.50	481.94-	3.81	3922.07	.95
125.7995	31888.67-	6.67	11017.18-	7.34	249453.97	1.93
6.9529	4978.44-	.70	723.82-	.87	4494.00	.09
132.7526	36867.12-	5.98	11741.01-	6.48	253947.98	1.83
53.1330	37662.42-	1.94	5375.43-	2.23	15788.72-	2.05
185.8855	74529.55-	7.92	17116.44-	8.72	238159.25	3.89

SM 1.08

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
39.2831	32912.42	1.11	5779.60-	1.21	89366.57	.22
3.1063	1436.02-		938.96-		12001.43	
42.3893	31476.39	2.63	6718.57-	2.88	101368.00	.52
3.2287	1484.16-		973.72-		12076.11	
45.6181	29992.23	3.97	7692.30-	4.41	113444.12	.75
3.3396	1536.51-		999.43-		12099.68	
48.9577	28455.71	4.15	8691.73-	4.53	125543.80	.76
3.3311	1529.34-		992.95-		11689.50	
52.2888	26926.37	4.77	9684.68-	5.23	137233.31	.84
3.5003	1598.14-		1041.26-		11888.14	
55.7891	25328.23	4.89	10725.94-	5.28	149121.46	.85
3.5949	1653.12-		1051.07-		11790.11	
59.3840	23675.10	5.09	11777.01-	5.57	160911.57	.87
3.5922	1634.75-		1059.36-		11362.93	
62.9762	22040.35	5.96	12836.38-	6.43	172274.50	1.00
3.7996	1747.98-		1117.08-		11562.00	
66.7758	20292.36	6.46	13953.46-	7.08	183836.51	1.12
4.0476	1849.47-		1180.21-		11805.66	
70.8234	18442.89	4.94	15133.67-	5.39	195642.17	.84
4.2243	1948.01-		1233.32-		11755.83	
75.0477	16494.89	3.17	16366.99-	3.38	207398.01	.53
4.4675	2028.51-		1299.69-		11815.10	
79.5152	14466.37	5.02	17666.68-	5.48	219213.11	.86
4.6339	2122.61-		1336.55-		11578.82	
84.1491	12343.75	6.14	19003.24-	6.68	230791.94	1.08
5.0643	2320.41-		1455.67-		11871.86	
89.2134	10023.34	3.34	20458.91-	3.68	242663.80	.60
5.5720	2538.21-		1611.75-		12122.10	
94.7854	7485.13	2.94	22070.66-	3.25	254785.91	.54
5.9917	2774.20-		1672.53-		11932.95	
100.7771	4710.93	1.65	23743.20-	1.82	266718.86	.32
6.7034	3073.58-		1891.84-		12005.76	
107.4805	1637.35	5.40	25635.04-	5.98	278724.62	1.07
7.9013	3577.57-		2314.23-		12327.82	
115.3817	1940.22-	6.45	27949.28-	7.00	291052.45	1.27
9.5313	4311.88-		2572.86-		12275.30	
124.9132	6252.10-	9.73	30522.14-	10.64	303327.75	2.06

SM 1.09

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
38.6854	25624.01	5.87	191.68-	6.40	90979.85	1.11
3.0960	2614.88-		175.33-		11771.53	
41.7814	23009.12	5.10	367.02-	5.68	102751.38	.94
3.1903	2697.76-		176.73-		11723.43	
44.9717	20311.36	5.11	543.76-	5.60	114474.81	.91
3.2065	2711.97-		164.42-		11408.13	
48.1783	17599.38	6.20	708.18-	6.76	125882.95	1.12
3.4251	2884.08-		160.74-		11797.46	
51.6035	14715.30	5.11	868.92-	5.58	137680.41	.93
7.0573	5946.65-		330.79-		23085.15	
58.6608	8768.64	8.11	1199.71-	8.92	160765.57	1.53
3.5656	2990.63-		154.62-		11049.44	
62.2264	5778.00	5.12	1354.34-	5.64	171815.02	.97
4.0214	3371.48-		179.18-		11970.05	
66.2478	2406.52	9.63	1533.52-	10.55	183785.07	1.88
3.9847	3342.61-		163.57-		11348.35	
70.2325	936.09-	10.48	1697.10-	11.50	195133.42	2.11
4.2993	3608.95-		173.27-		11672.25	
74.5319	4545.04-	10.32	1870.37-	11.34	206805.68	2.12
4.5988	3844.12-		180.06-		11833.87	
79.1306	8389.17-	6.02	2050.44-	6.57	218639.62	1.26
4.5872	3847.72-		161.41-		11130.41	
83.7179	12236.89-	14.20	2211.86-	15.66	229770.04	3.08
5.1601	4322.11-		189.10-		11716.72	
88.8781	16559.00-	11.47	2400.96-	12.51	241486.76	2.57
5.5251	4605.55-		185.97-		11612.74	
94.4032	21164.55-	13.99	2586.94-	15.26	253099.51	3.22
6.0036	5002.12-		190.69-		11523.43	
100.4068	26166.67-	16.31	2777.63-	17.81	264622.94	3.88
6.6270	5531.57-		197.91-		11389.24	
107.0338	31698.25-	14.14	2975.55-	15.56	276012.19	3.53
7.9694	6644.02-		250.11-		11854.68	
115.0031	38342.27-	18.17	3225.66-	19.91	287866.87	4.74
9.4990	7863.96-		293.96-		11528.78	
124.5022	46206.23-	22.35	3519.62-	24.49	299395.65	6.19

SM 2.10

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z ft.	SIG Z ft.
43.9582	34015.36	3.45	266.77-	3.81	101920.22	.50
2.4191	1090.57-		224.72-		11782.86	
46.3774	32924.89	3.03	491.50-	3.31	113703.08	.40
2.5298	1128.92-		227.11-		12107.70	
48.9072	31795.96	1.46	718.61-	1.59	125810.78	.18
5.1527	2295.94-		464.48-		23999.07	
54.0599	29500.02	1.01	1183.10-	1.07	149809.86	.10
2.6722	1191.89-		234.02-		12104.54	
56.7322	28308.13	1.00	1417.12-	1.05	161914.41	.10
2.7583	1230.84-		254.92-		12250.16	
59.4905	27077.29	3.98	1672.04-	4.26	174164.58	.40
2.8472	1266.65-		246.73-		12386.25	
62.3377	25810.63	1.47	1918.78-	1.56	186550.83	.14
2.9500	1316.41-		248.46-		12559.31	
65.2878	24494.21	1.13	2167.25-	1.34	199110.15	.10
2.9540	1309.48-		235.15-		12296.49	
68.2419	23184.73	3.29	2402.41-	3.60	211406.64	.31
2.9659	1319.99-		249.74-		12064.07	
71.2078	21864.74	1.90	2652.15-	2.12	223470.72	.18
3.0336	1360.70-		248.55-		12047.49	
74.2415	20504.03	.96	2900.71-	1.02	235518.21	.08
3.1378	1391.27-		246.79-		12153.53	
77.3793	19112.76	2.35	3147.51-	2.44	247671.74	.21
3.2692	1457.37-		261.94-		12323.53	
80.6485	17655.39	1.33	3409.45-	1.40	259995.28	.12
3.4086	1523.24-		216.29-		12490.16	
84.0571	16132.15	.37	3625.74-	.30	272485.44	.02
7.0727	3134.80-		567.04-		24726.92	
91.1299	12997.34	4.62	4192.78-	5.10	297212.36	.44
3.6147	1622.16-		210.63-		12033.87	
94.7446	11375.18	6.42	4403.41-	7.05	309246.23	.63

APPENDIX C

A COMPARISON OF BALLISTIC CAMERA DATA ABOVE THE LAUNCHER WITH DOVAP DATA
CALCULATED FIRST WITH THE VACUUM VELOCITY OF LIGHT
AND THEN WITH THE AVERAGE VELOCITY

The rows of data correspond to the above order. The vacuum velocity used was 299792.9 km/sec; the average velocity used was 299748 km/sec. The standard deviations of the ballistic camera data were furnished by BRL.

SM 1.01

TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z (MSL) ft.	SIG Z ft.
41.7440	17276.87- 17213.53- 17205.89-	8.56 6.45	5711.93 5650.17 5645.43	9.24 7.04	82726.21 82750.69 82740.16	1.48 1.11
45.2040	19757.18- 19691.45- 19682.41-	4.99 2.13	6830.69 6760.55 6755.62	5.48 2.46	93231.44 93236.19 93224.40	.84 .36
48.6630	22211.24- 22140.32- 22129.52-	5.46 2.52	7939.62 7865.07 7858.75	5.98 2.83	103211.74 103224.49 103211.60	.93 .42
52.1880	24691.55- 24615.66- 24603.68-	4.10 .53	9061.66 8981.77 8974.58	4.47 .49	112926.28 112941.21 112927.16	.70 .10
55.6500	27119.37- 27048.49- 27034.67-	6.35 2.60	10160.74 10071.85 10063.27	7.04 2.90	122040.44 122054.68 122039.71	1.09 .44
59.0800	29514.38- 29436.12- 29421.02-	4.67 .37	11240.13 11148.78 11139.41	5.17 .39	130672.31 130677.54 130661.61	.81 .08
62.5600	31945.47- 31853.09- 31836.85-	3.63 .75	12332.65 12243.24 12232.09	3.90 .81	139012.19 139022.58 139005.79	.65 .14
69.5270	36787.98- 36681.77- 36661.85-	.76 3.91	14524.25 14431.52 14418.86	.88 4.24	154543.65 154536.28 154518.09	.15 .75
72.9450	39146.90- 39046.78- 39025.77-	2.19 2.78	15597.08 15511.97 15498.40	2.36 3.06	161571.20 161569.89 161551.01	.43 .54
76.4620	41581.28- 41469.09- 41446.67-	1.22 3.91	16715.85 16617.62 16603.06	1.43 4.25	168421.58 168413.20 168393.71	.26 .78
79.9550	43979.57- 43875.21- 43851.41-	1.91 3.49	17808.36 17718.52 17702.85	2.06 3.87	174815.92 174811.99 174791.99	.44 .71
83.3710	46331.93- 46224.38- 46199.18-	2.94 2.57	18897.60 18798.26 18781.54	3.13 2.78	180668.93 180688.36 180667.98	.64 .54
86.8730	48730.22- 48623.43- 48596.76-	2.00 3.89	20006.52 19897.20 19879.93	2.26 4.27	186289.00 186320.76 186299.99	.45 .81
90.3730	51141.63- 51020.52- 50993.04-	3.10 2.86	21108.88 21006.24 20987.64	3.36 3.05	191525.21 191554.19 191533.03	.70 .64
93.8370	53497.27- 53384.70- 53355.55-	4.63 1.71	22198.12 22090.92 22071.92	5.04 1.94	196288.98 196343.43 196322.07	1.08 .37
97.3500	55895.56- 55770.52- 55740.40-	1.53 4.64	23307.04 23193.80 23173.88	1.69 4.96	200777.16 200806.61 200785.08	.38 1.10

SM 1.02

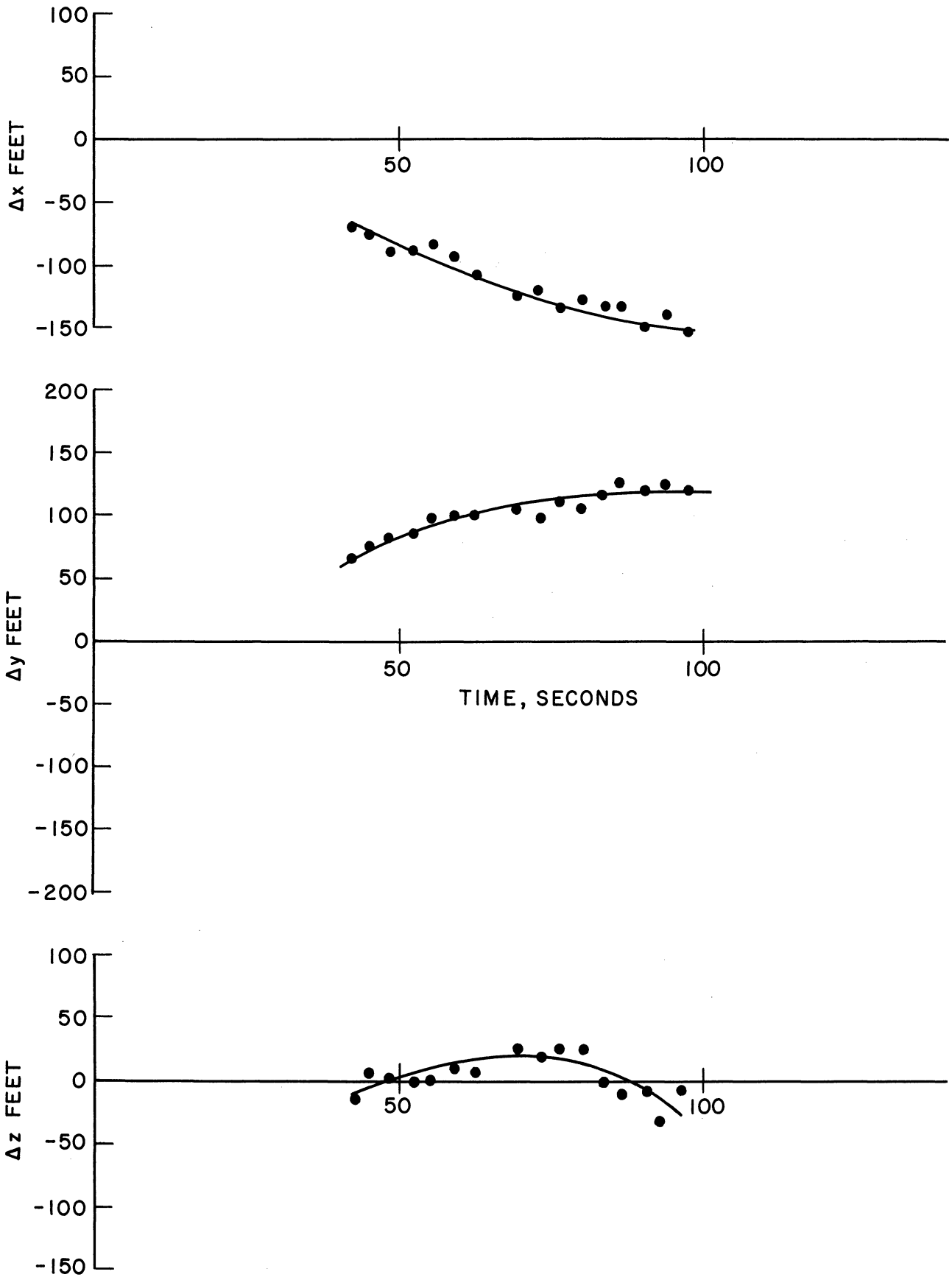
TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z (MSL) ft.	SIG Z ft.
39.0358	7880.56-	4.60	4407.14	6.56	86098.91	15.76
	7883.47-	11.42	4449.95	12.34	86103.74	1.69
	7877.76-	9.22	4445.52	9.96	86091.94	1.35
42.0298	8989.81-		5137.46		97441.41	
	8995.33-	12.97	5196.57	13.95	97460.59	1.69
	8988.77-	10.34	5191.42	11.18	97447.24	1.31
45.1530	10135.81-		5898.28		108867.56	
	10145.44-	14.80	5967.50	16.02	108885.04	1.69
	10137.21-	11.77	5961.17	12.75	108870.16	1.33
48.4166	11323.47-		6696.84		120376.73	
	11326.85-	15.76	6775.40	17.06	120410.70	1.63
	11317.53-	12.20	6767.89	13.24	120394.28	1.26
51.7343	12521.63-		7507.53		131682.48	
	12530.74-	17.16	7591.73	18.63	131728.78	1.65
	12519.92-	13.33	7582.80	14.47	131710.87	1.27
55.2460	13778.51-	2.63	8361.20	3.61	143254.96	13.12
	13799.79-	18.49	8461.07	20.11	143291.21	1.68
	13787.22-	14.41	8451.31	15.66	143271.78	1.30
58.8351	15065.91-		9248.67		154631.58	
	15089.95-	19.58	9346.83	21.35	154679.79	1.70
	15075.94-	15.03	9335.71	16.30	154658.86	1.30
62.4406	16362.17-		10132.20		165584.97	
	16389.07-	21.01	10244.06	22.71	165690.21	1.81
	16373.78-	16.34	10231.43	17.77	165667.91	1.39
66.2622	17734.87-		11083.31		176838.89	
	17757.85-	22.82	11201.76	24.83	176907.68	1.93
	17740.73-	17.80	11187.72	19.32	176883.95	1.50
70.2945	19171.22-		12062.64		188166.62	
	19193.96-	25.27	12204.52	27.51	188207.94	2.15
	19175.63-	19.88	12189.26	21.63	188182.73	1.67
74.5227	20683.69-		13109.88		199364.76	
	20715.42-	29.53	13272.91	32.17	199504.43	2.52
	20695.23-	23.59	13256.32	25.66	199477.82	2.01
79.0255	22293.26-	3.94	14223.72	4.91	210817.82	28.20
	22322.98-	30.60	14395.80	33.28	210904.75	2.66
	22300.98-	24.55	14377.54	26.72	210876.78	2.12
83.7303	23971.41-		15399.25		222077.31	
	24004.74-	32.48	15588.50	35.35	222120.28	2.89
	23981.16-	26.20	15568.78	28.48	222090.93	2.33
94.3385	27732.88-		18068.53		244642.88	
	27763.48-	37.67	18266.21	40.96	244814.54	3.58
	27736.70-	30.61	18243.25	33.30	244782.48	2.90

SM 1.03

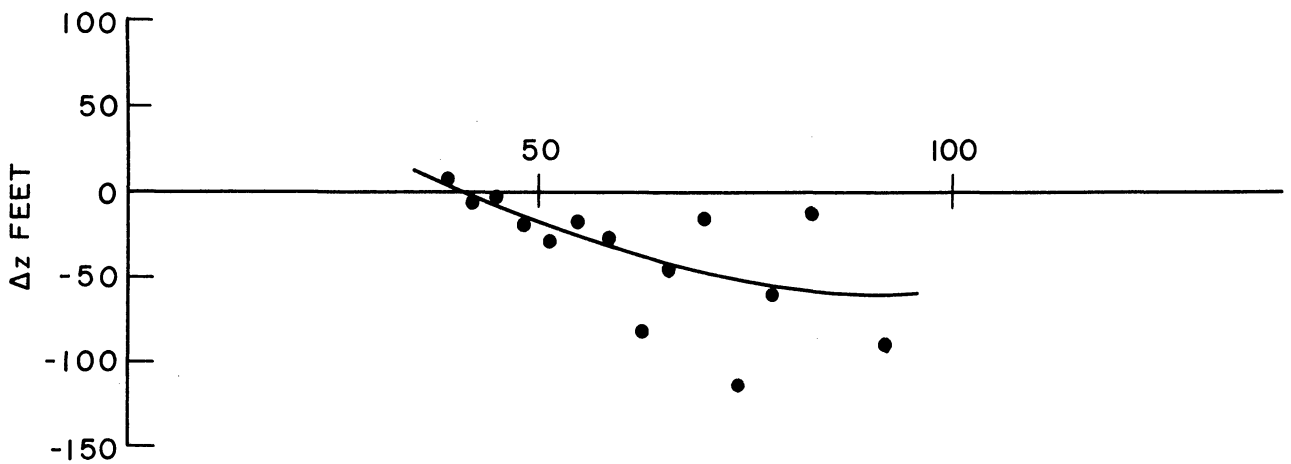
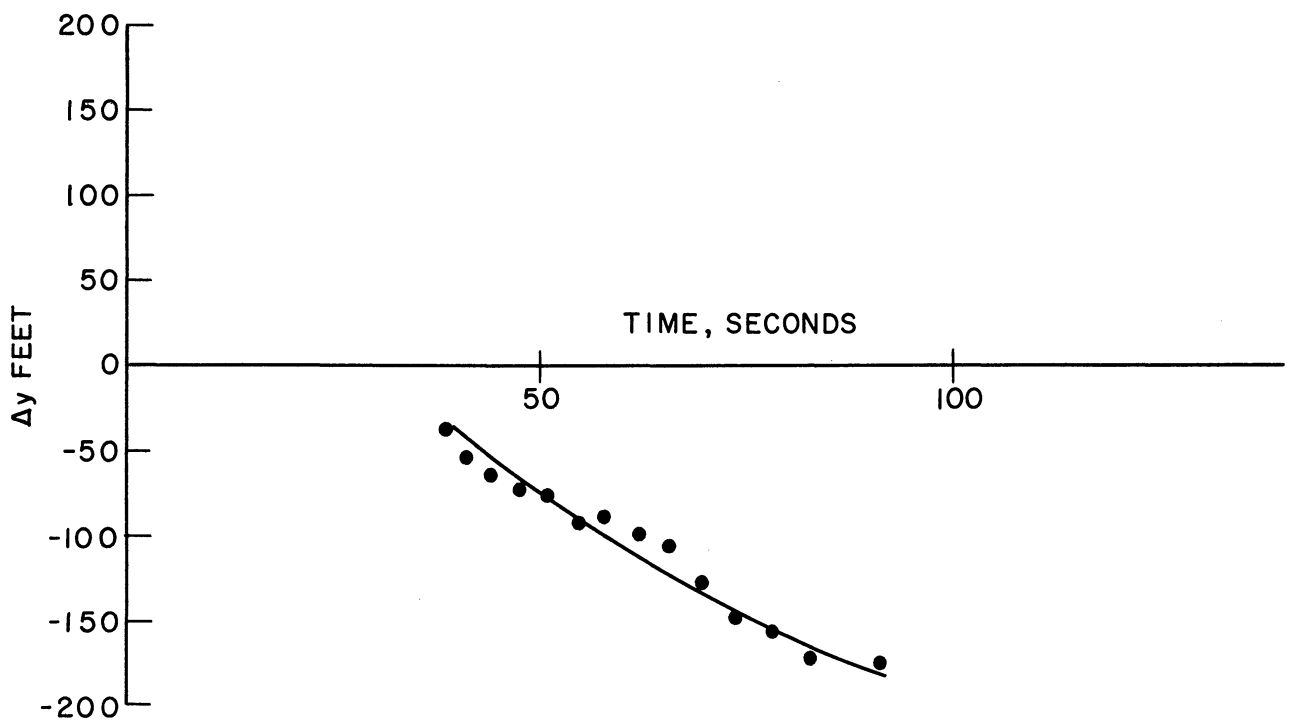
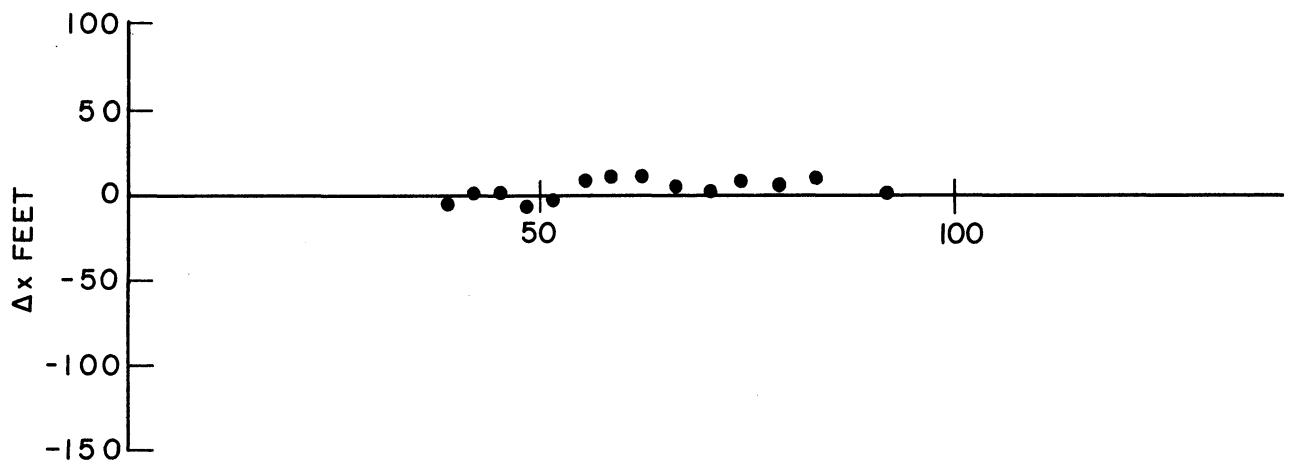
TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z (MSL) ft.	SIG Z ft.
38.3680	12706.34- 12750.67- 12743.51-	3.28 1.71 3.60	6302.15- 6258.06- 6260.07-	6.56 1.89 3.95	85273.12 85247.04 85235.32	9.84 .38 .82
41.3773	15031.47- 15078.51- 15069.99-	1.06 3.62	7103.66- 7059.83- 7061.90-	1.18 3.95	96263.91 96237.94 96224.80	.24 .78
44.4335	17370.04- 17419.68- 17409.57-	.34 2.54	7902.21- 7847.70- 7850.39-	.44 2.78	107013.23 106987.09 106972.53	.07 .53
47.7372	19880.87- 19934.71- 19923.18-	.42 2.99	8751.95- 8691.66- 8695.18-	.48 3.26	118208.09 118188.04 118171.98	.08 .61
51.0017	22352.65- 22413.18- 22399.92-	2.26 1.31	9582.65- 9516.05- 9520.14-	2.52 1.44	128880.97 128859.77 128842.33	.46 .26
54.4666	24967.14- 25036.63- 25021.21-	3.19 .79	10457.32- 10379.45- 10384.38-	3.52 .89	139815.00 139776.23 139757.44	.64 .16
58.0455	27657.10- 27735.52- 27718.51-	3.01 1.23	11351.35 11272.04- 11278.14-	3.25 1.38	150662.09 150626.44 150606.19	.62 .25
61.6446	30362.47- 30436.61- 30417.55-	3.83 .91	12238.82- 12157.19- 12163.86-	4.27 1.00	161156.17 161109.77 161088.27	.83 .18
69.4405	36209.90- 36291.61- 36268.99-	3.39 1.89	14150.89- 14052.19- 14060.30-	3.79 2.06	182401.53 182366.43 182342.27	.74 .40
73.7207	39413.31- 39497.88- 39473.15-	2.95 2.76	15191.89- 15086.72- 15095.56-	3.25 3.07	193244.69 193201.30 193175.86	.66 .62
78.1320	42721.37- 42803.40- 42776.67-	2.44 3.44	16254.23- 16150.99- 16160.61-	2.67 3.77	203824.06 203751.00 203724.30	.54 .78
82.7256	46142.30- 46239.00- 46209.94-	2.27 3.82	17343.46- 17242.65- 17253.31-	2.49 4.20	214085.19 214076.68 214048.84	.51 .89
87.8266	49962.17- 50040.48- 50009.15-	1.64 4.68	18576.40- 18442.83- 18454.34-	1.78 5.13	224845.02 224752.32 224723.28	.37 1.11
93.3013	54032.04- 54121.01- 54087.39-	.53 6.29	19854.94- 19722.47- 19734.43-	.48 6.89	235321.70 235287.07 235256.95	.08
99.3006	58502.18- 58593.31- 58557.10-	.62 6.54	21265.04- 21126.16- 21138.89-	.71 7.16	245792.81 245727.56 245696.42	.16 1.67
105.9615	63437.86- 63551.06- 62512.47-	4.91 2.56	22805.40- 22657.16- 22670.73-	5.32 2.84	256054.27 255984.17 255952.08	1.30 .69
113.7832	69246.25- 69332.06- 69290.58-	19.70 3.83 4.03	24606.24- 24413.29- 24427.30-	21.30 4.31 4.43	266334.11 266241.01 266208.14	85.40 1.09 1.13
123.2545	76264.62- 76351.79- 76306.63-	1.41 6.69	26750.60- 26555.56- 26569.73-	1.63 7.35	276127.06 276060.05 276026.79	.42 1.98

SM 1.05

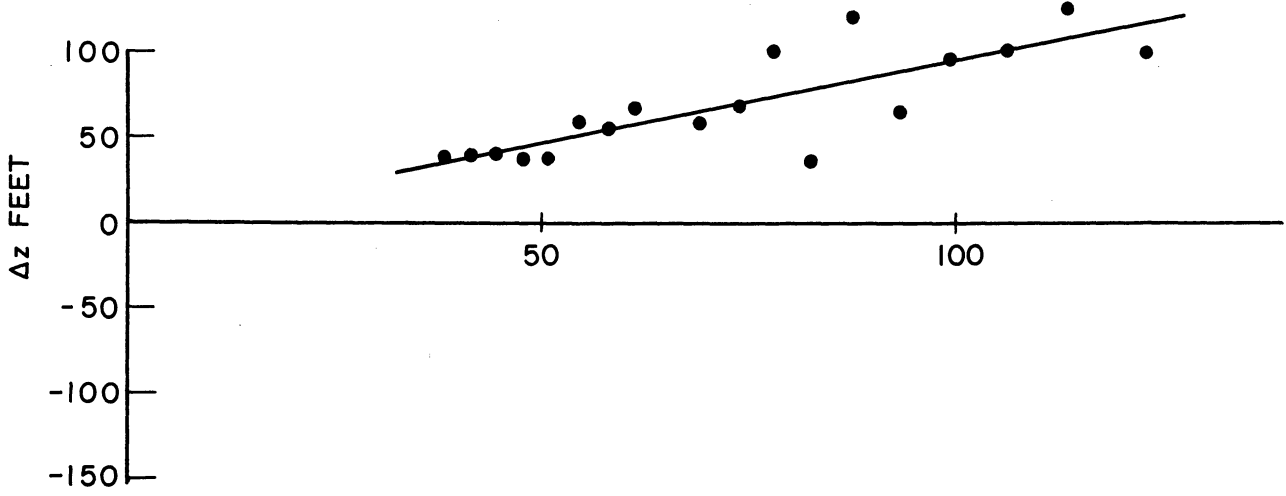
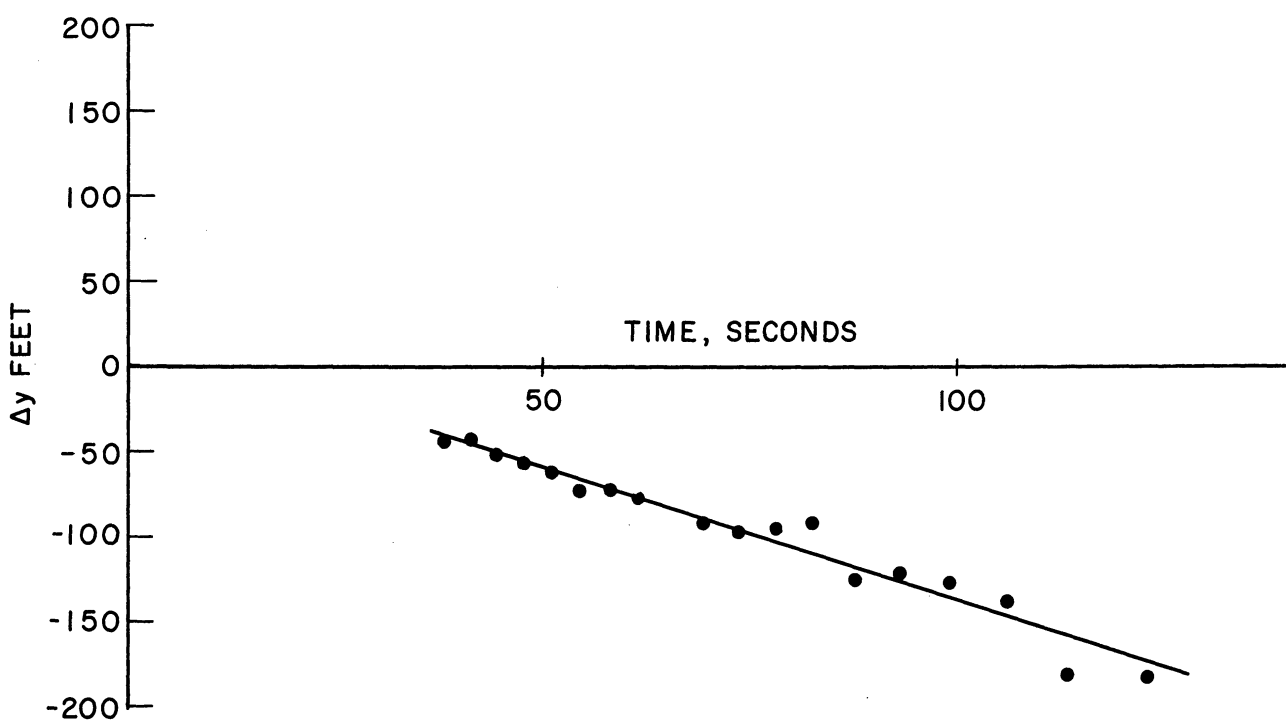
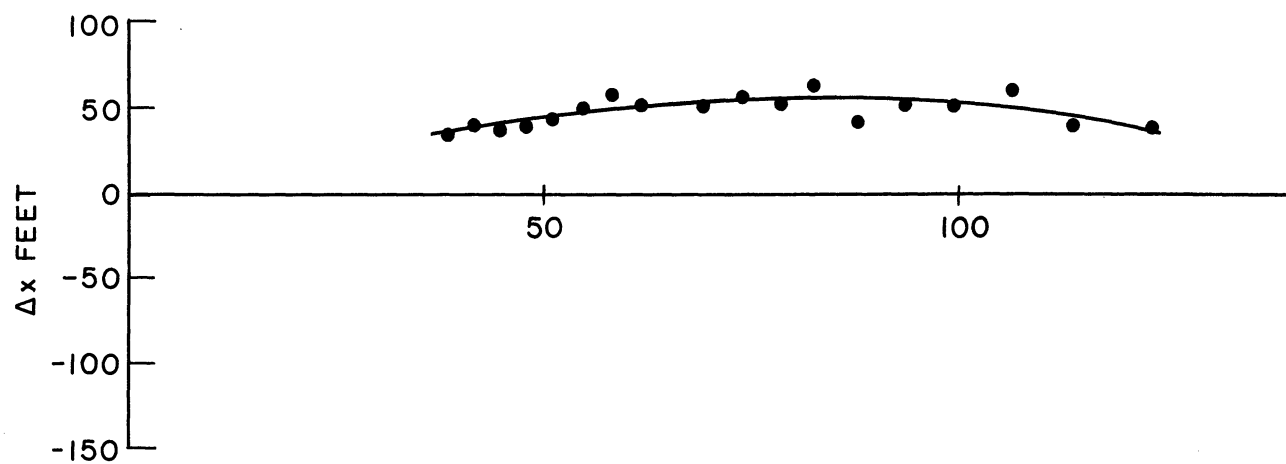
TIME sec.	X (+N) ft.	SIG X ft.	Y (+W) ft.	SIG Y ft.	Z (MSL) ft.	SIG Z ft.
38.7668	6149.27- 6164.81- 6159.18-	9.84 11.70 9.42	1472.44- 1438.01- 1440.96-	16.41 12.67 10.21	86879.75 86837.79 86825.56	62.40 2.10 1.70
41.7730	6902.87- 6917.44- 6910.87-	11.20 8.67	1607.94- 1564.75- 1568.59-	12.17 9.41	98196.65 98156.11 98142.25	1.81 1.38
44.8858	7689.29- 7687.39- 7679.76-	11.74 8.64	1732.28- 1693.67- 1698.21-	12.80 9.39	109486.00 109461.01 109445.49	1.69 1.24
48.2113	8491.78- 8508.22- 8499.04-	12.72 9.33	1872.70- 1829.87- 1835.53-	13.88 10.13	121167.41 121125.67 121108.49	1.65 1.22
51.4937	9295.91- 9314.33- 9304.26-	13.23 9.56	1992.12- 1957.02- 1963.83-	14.31 10.38	132268.43 132247.76 132229.01	1.61 1.16
55.0334	10161.07- 10179.01- 10167.37-	13.64 9.78	2135.17- 2087.78- 2095.75-	14.73 10.64	143836.98 143824.20 143803.78	1.54 1.10
58.6500	11044.27- 11066.95- 11053.96-	14.92 10.65	2282.15- 2226.81- 2235.50-	16.28 11.57	155278.56 155218.92 155196.88	1.58 1.12
62.3009	11932.72- 11963.18- 11948.57-	17.16 12.43	2385.49- 2359.31- 2368.82-	18.75 13.50	166304.46 166285.21 166261.61	1.71 1.24
66.1715	12875.96- 12901.02- 12885.07-	14.99 10.10	2539.69- 2489.77- 2500.47-	16.30 10.98	177591.17 177543.30 177518.09	1.42 .97
70.1841	13854.63- 13882.91- 13865.60-	17.02 11.83	2678.47- 2621.24- 2633.07-	18.49 12.88	188800.80 188703.36 188676.57	1.56 1.09
74.4957	14901.54- 14915.98- 14897.37-	19.80 14.31	2826.11- 2771.09- 2784.00-	21.55 15.58	200168.23 200116.59 200088.16	1.77 1.28
78.9640	15971.42- 15998.27- 15978.13-	19.32 13.35	2934.38- 2920.15- 2934.11-	20.97 14.52	211310.27 211312.80 211282.84	1.67 1.16
83.7406	17135.79- 17163.38- 17141.61-	18.95 12.87	3095.14- 3060.80- 3076.04-	20.64 14.02	222611.43 222579.23 222547.68	1.62 1.10
94.5359	19753.24- 19781.58- 19756.62-	20.47 13.79	3428.80- 3362.32- 3379.50-	22.26 15.01	245388.61 245349.64 245314.95	1.71 1.16
100.4845	21209.93- 21227.01- 21200.20-	21.19 14.01	3650.26- 3535.58- 3553.50-	23.14 15.24	256539.51 256309.66 256273.48	1.78 1.18
107.2339	22812.29- 22832.63- 22804.37-	52.50 20.14 12.60	3795.92- 3705.33- 3724.84-	26.25 21.96 13.70	267472.56 267390.18 267352.47	142.00 1.71 1.07
115.1867	24735.19- 24743.39- 24713.40-	21.23 13.51	3981.95- 3896.45- 3916.74-	23.16 14.70	278631.99 278587.78 278548.60	1.83 1.17
124.8305	27054.41- 27047.42- 27015.52-	19.33 11.30	4187.33- 4112.03- 4133.47-	21.06 12.29	289534.52 289496.60 289456.02	1.72 1.02



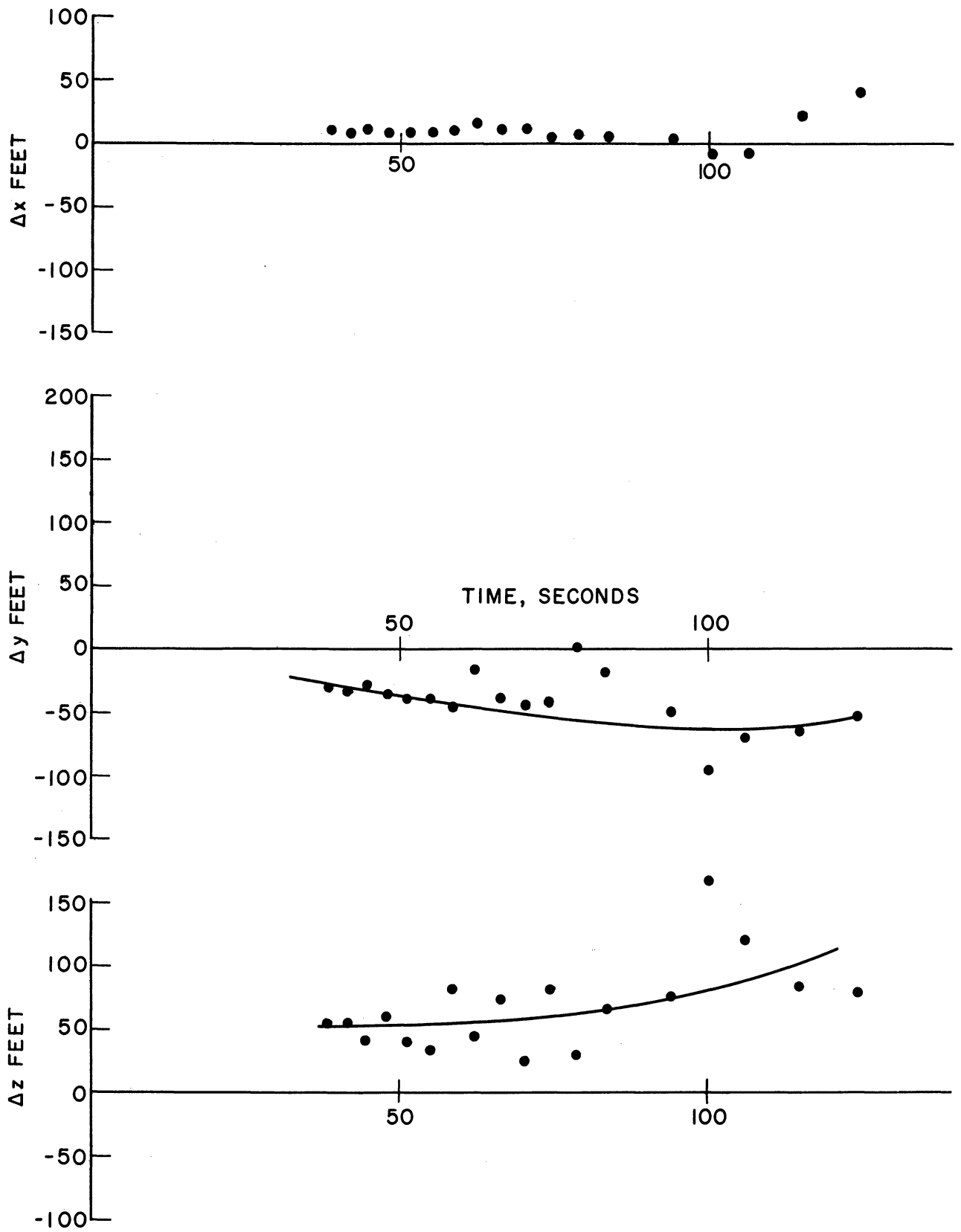
Ballistic Camera Minus DOVAP Co-ordinates vs. Time (SM 1.01)



Ballistic Camera Minus DOVAP Co-ordinates vs. Time (SM 1.02)



Ballistic Camera Minus DOVAP Co-ordinates vs. Time (SM 1.03)



Ballistic Camera Minus DOVAP Co-ordinates vs. Time (SM 1.05)

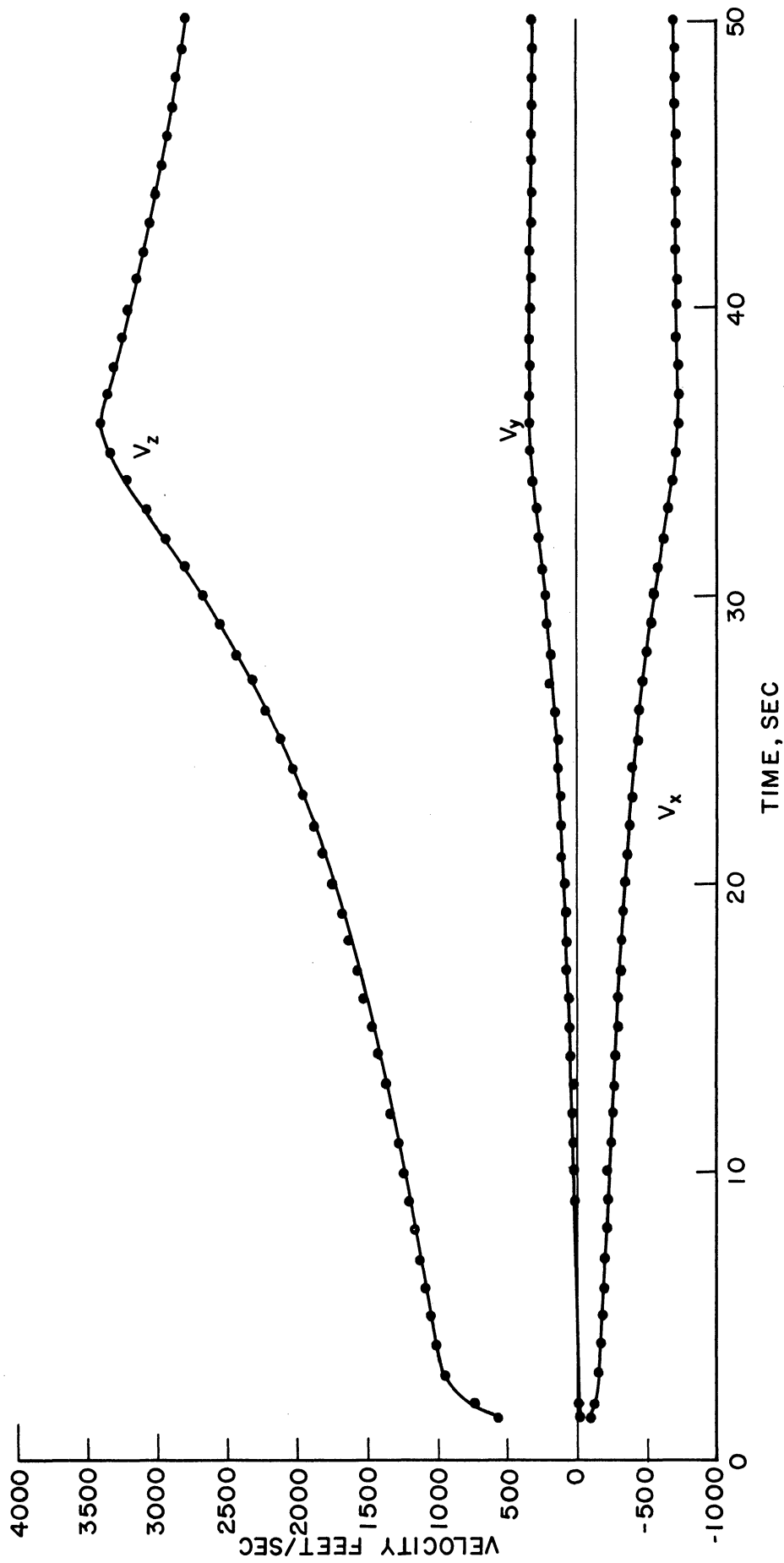
APPENDIX D

PLOTS OF VELOCITY COMPONENTS THROUGH THE FIRST 50 SECONDS OF FLIGHT AND
PLOTS OF VERTICAL (A_z) AND VECTOR ACCELERATIONS $|\vec{A}|$
THROUGH BURNOUT ARE SHOWN FOR EACH ROCKET

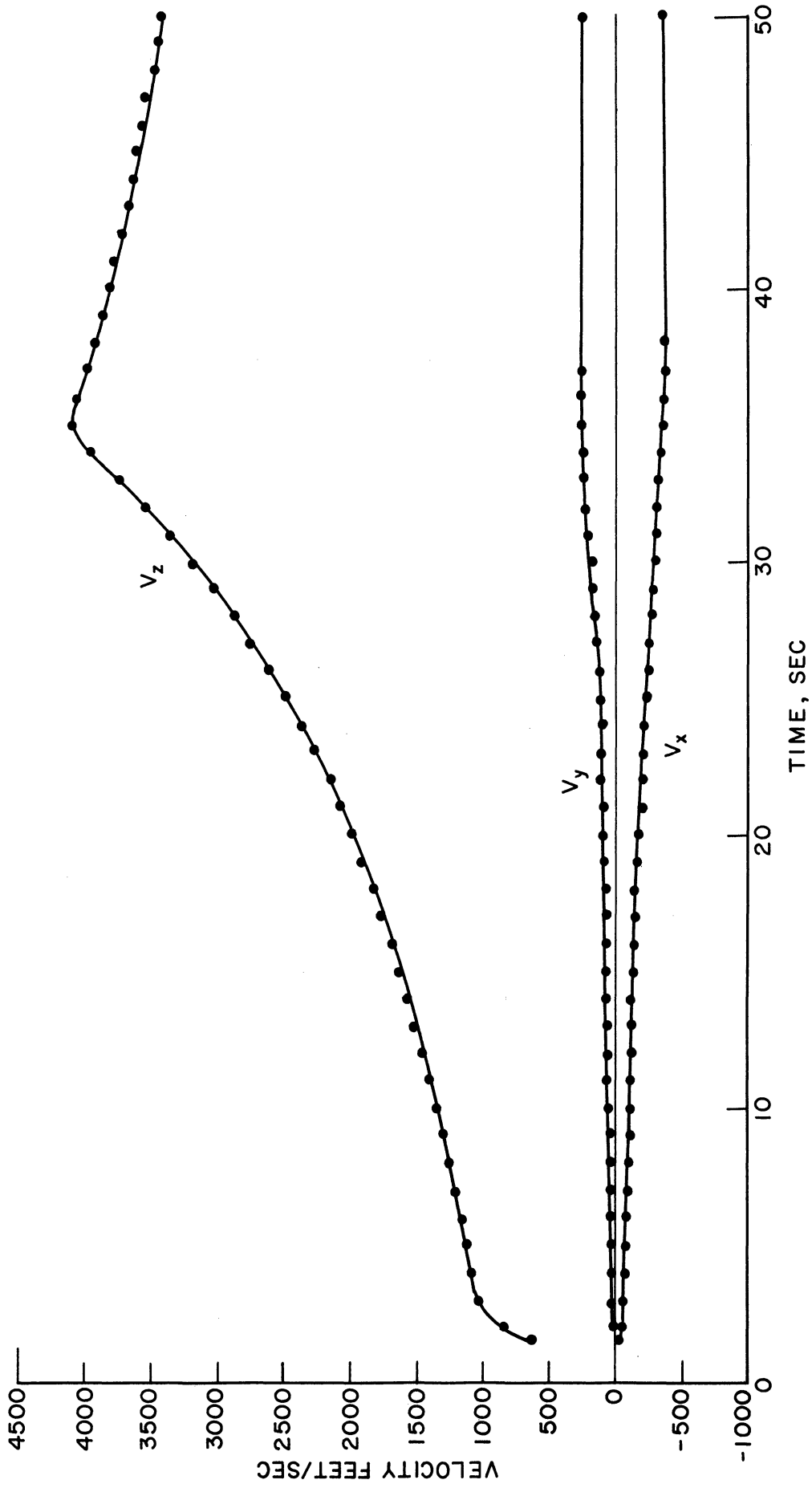
Burnout velocity components and peak
altitudes are listed for each rocket.

BURNOUT VELOCITY AND PEAK ALTITUDE

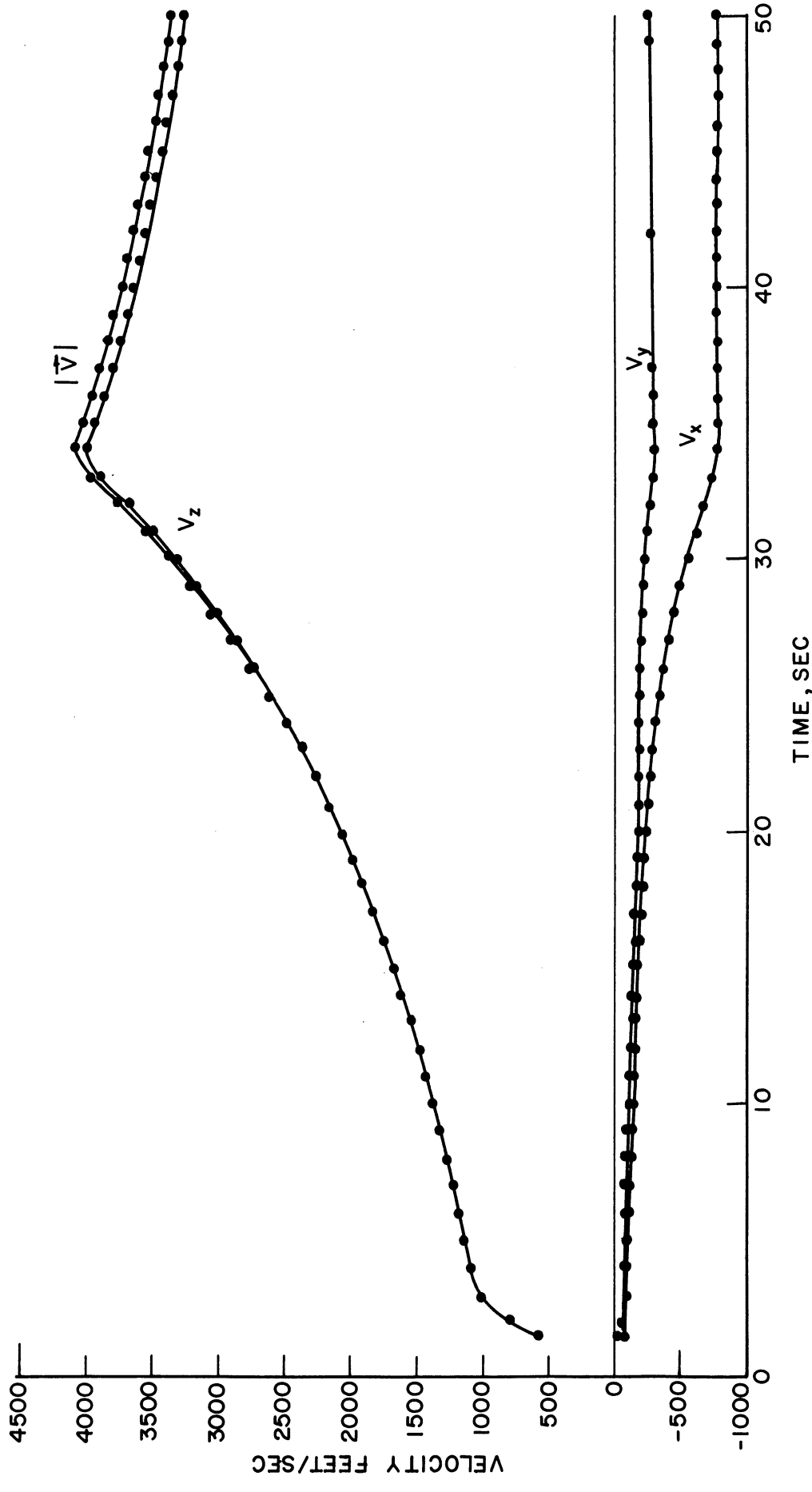
ROCKET	TIME (sec)	Vx (ft/sec)	Vy (ft/sec)	Vz (ft/sec)	V (ft/sec)	PEAK ALTITUDE (ft)
SM 1.01	36.0	742.88-	334.71	3390.31	3486.85	224195.74
SM 1.02	35.0	365.07-	252.83	4082.43	4106.51	306446.23
SM 1.03	34.0	785.20-	285.21-	3993.56	4080.00	288864.25
SM 1.04	32.0	970.35-	354.64-	3475.24	3625.55	216000.22
SM 1.05	35.0	258.27-	49.85-	4044.29	4052.83	304664.74
SM 2.06	44.0	915.25-	589.86-	4741.81	4865.22	453880.32
SM 1.07	44.5	740.82-	115.77-	3416.31	3497.63	258874.15
SM 1.08	35.0	475.55-	309.36-	4130.34	4169.12	321180.46
SM 1.09	33.0	873.36-	59.32-	4170.89	4261.76	317735.58
SM 2.10	43.0	455.06-	95.57-	4928.76	4950.65	481472.13



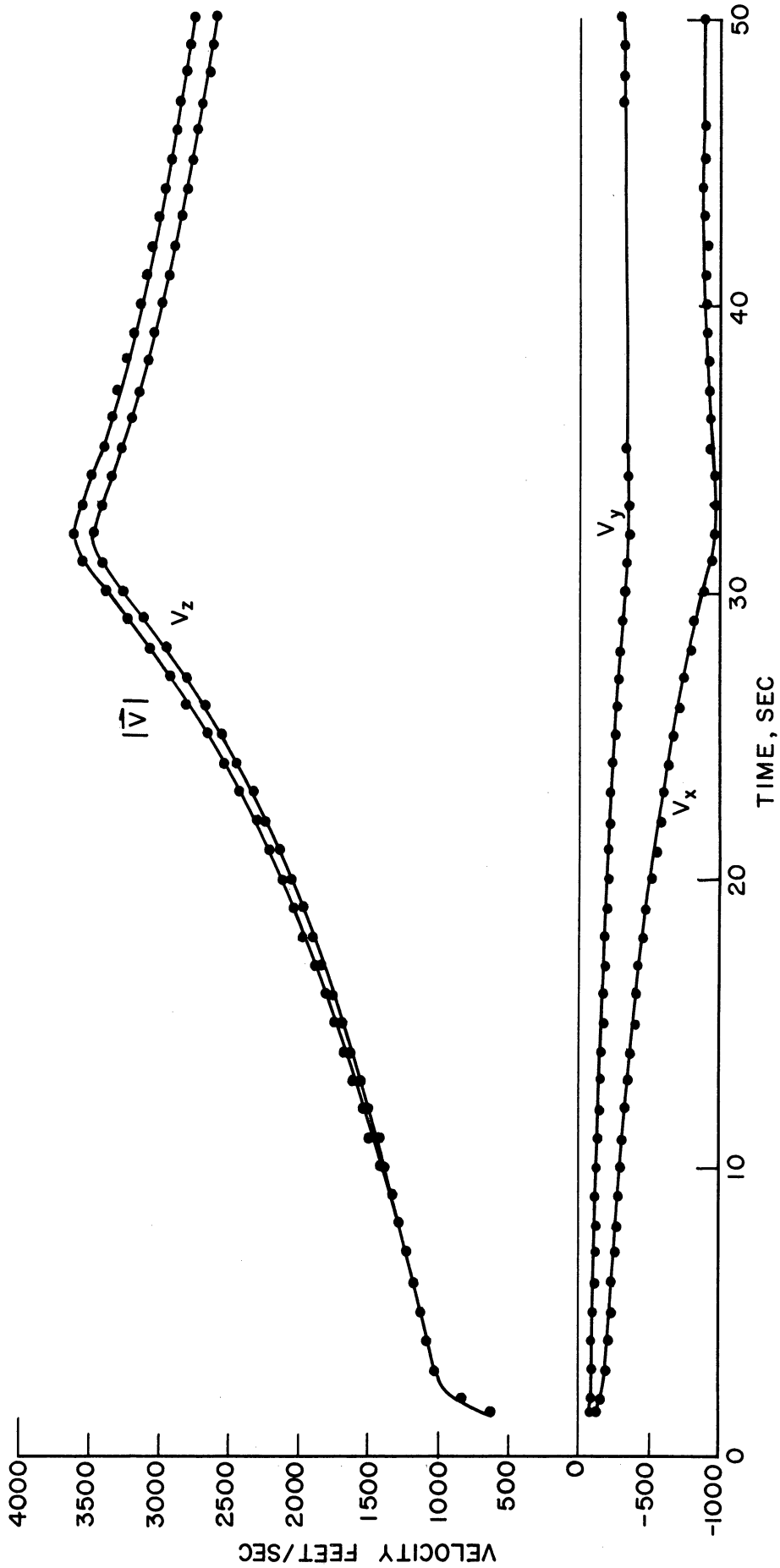
Velocity vs. Time (SM 1.01)



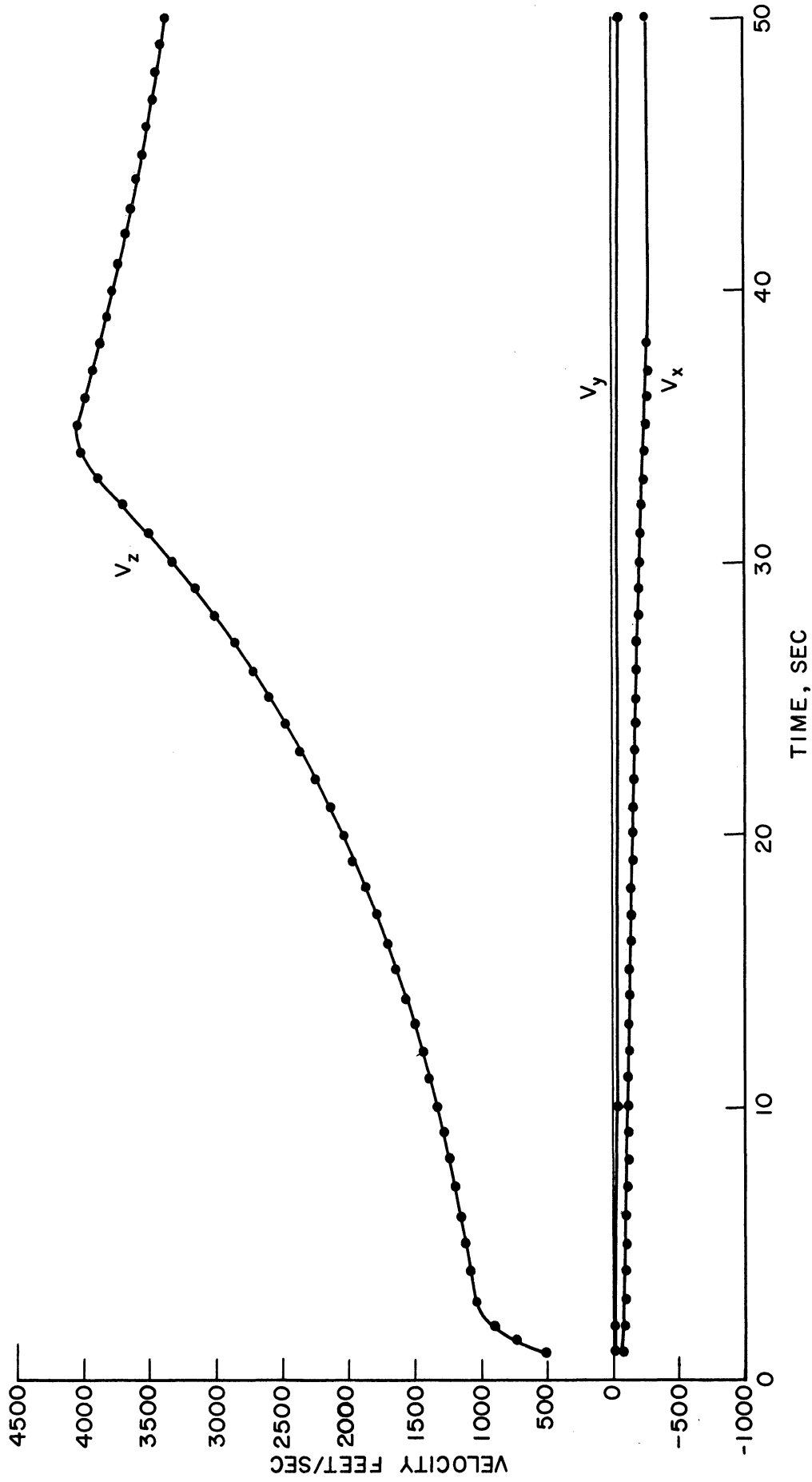
Velocity vs. Time (SM 1.02)



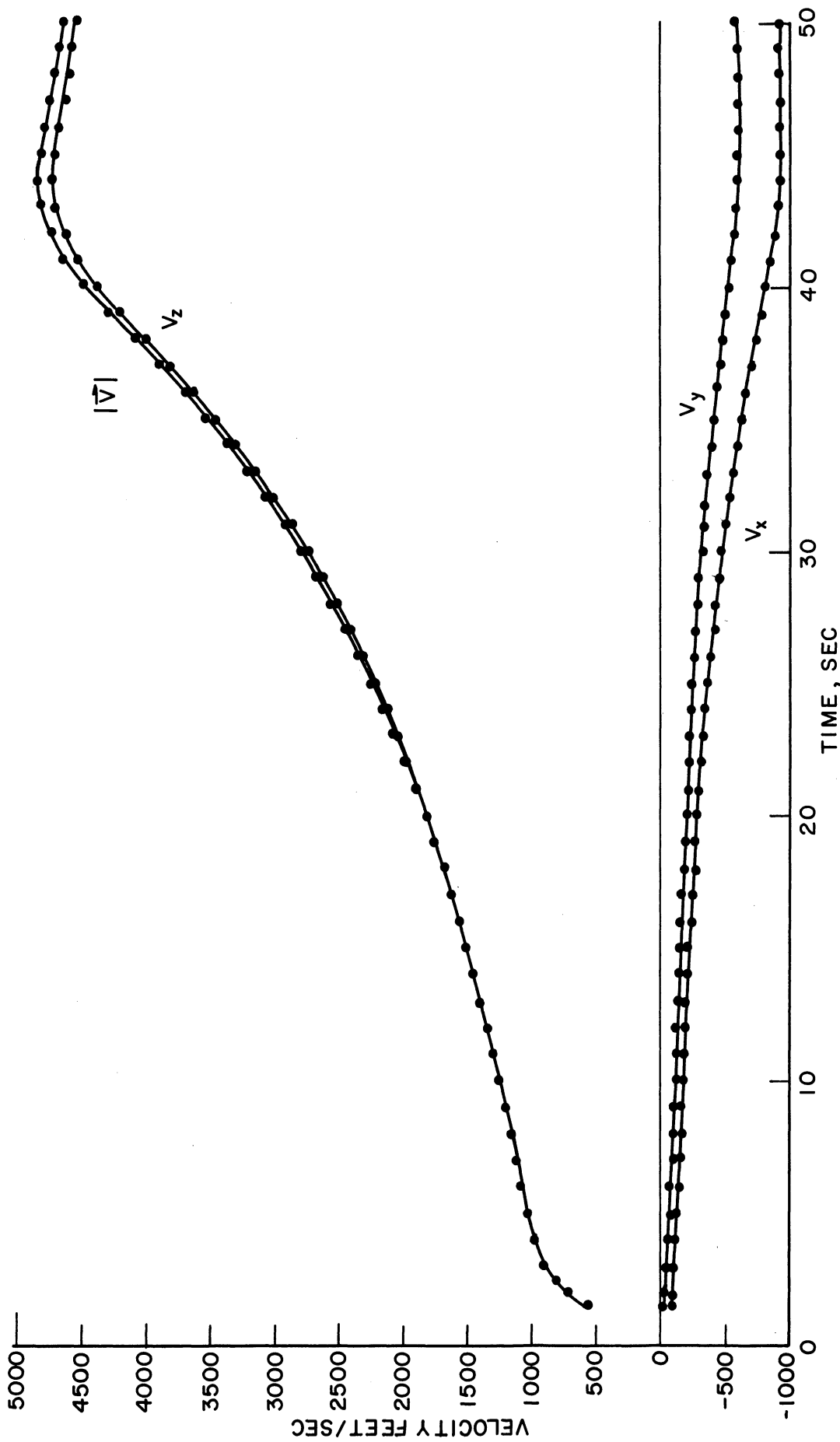
Velocity vs. Time (SM 1.03)



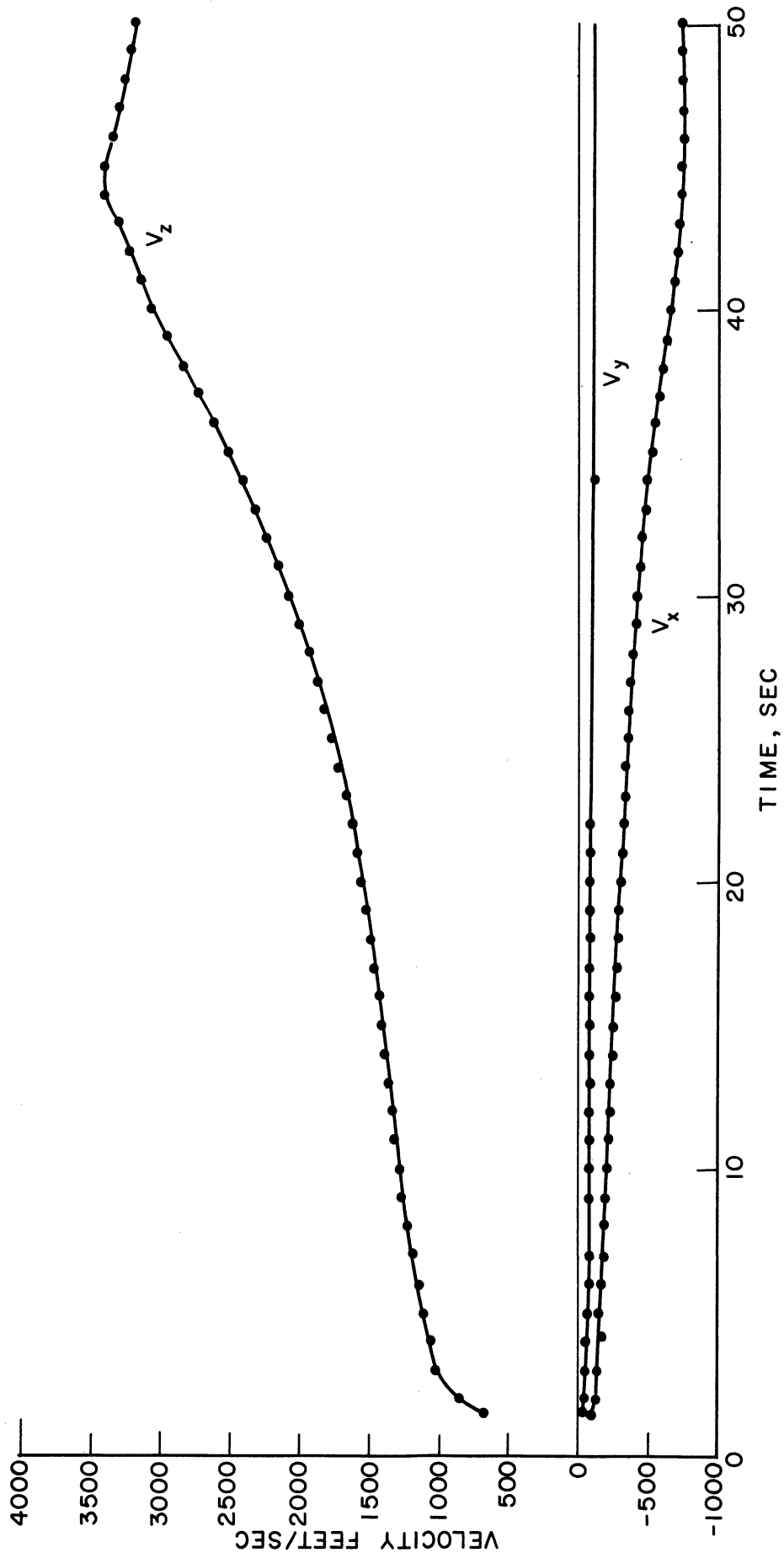
Velocity vs. Time (SM 1.04)



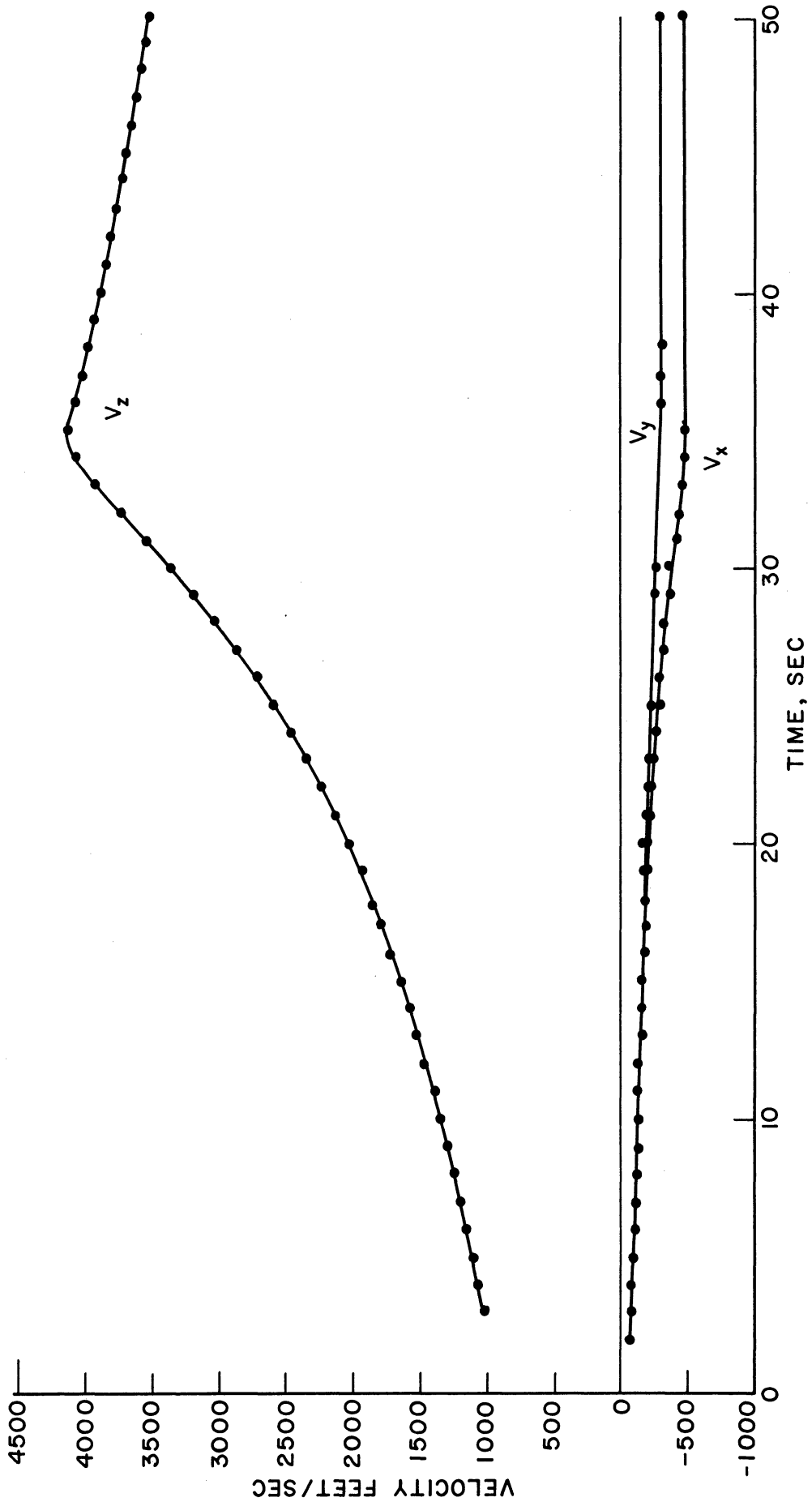
Velocity vs. Time (SM 1.05)



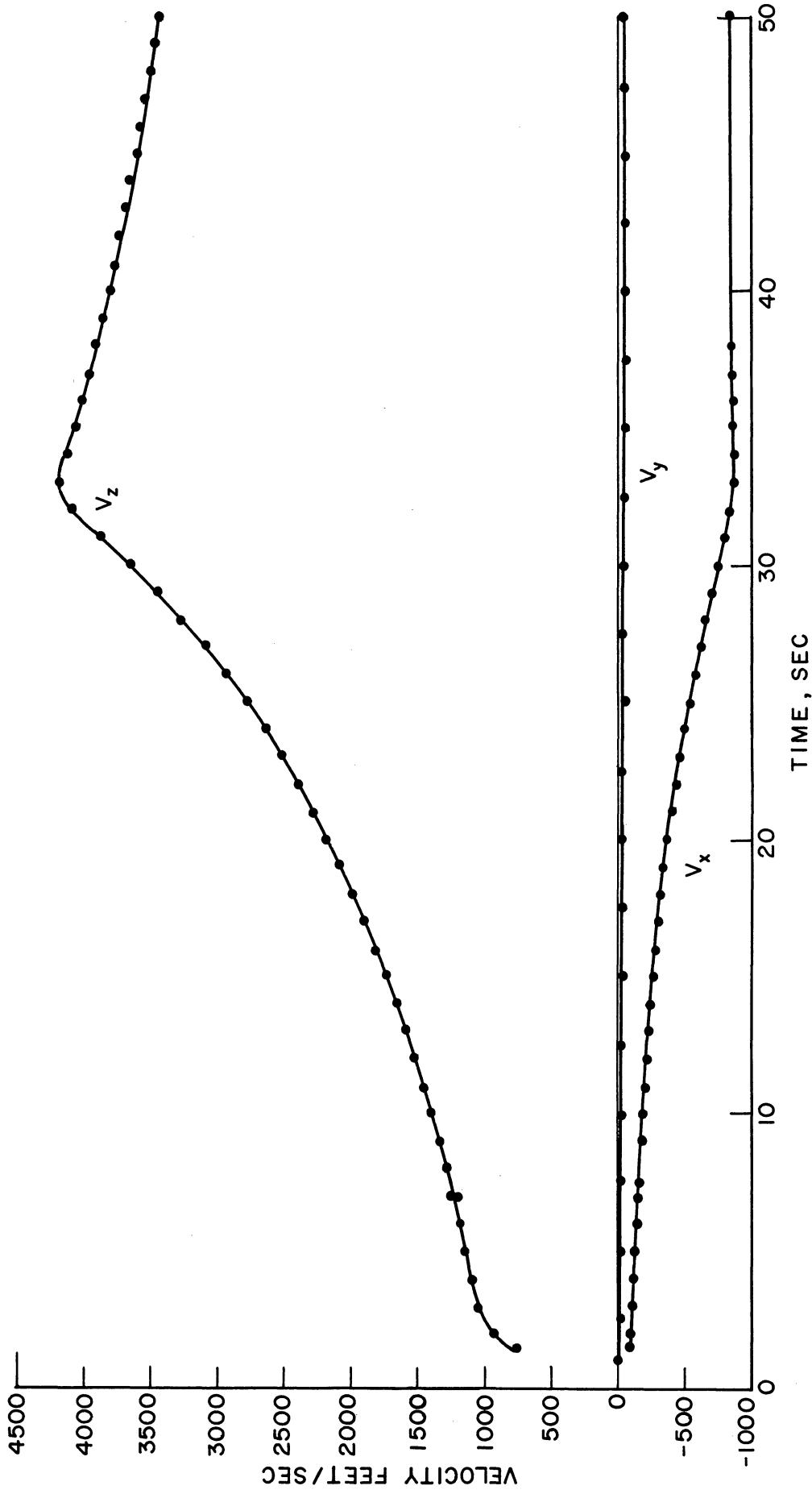
Velocity vs. Time (SM 2.06)



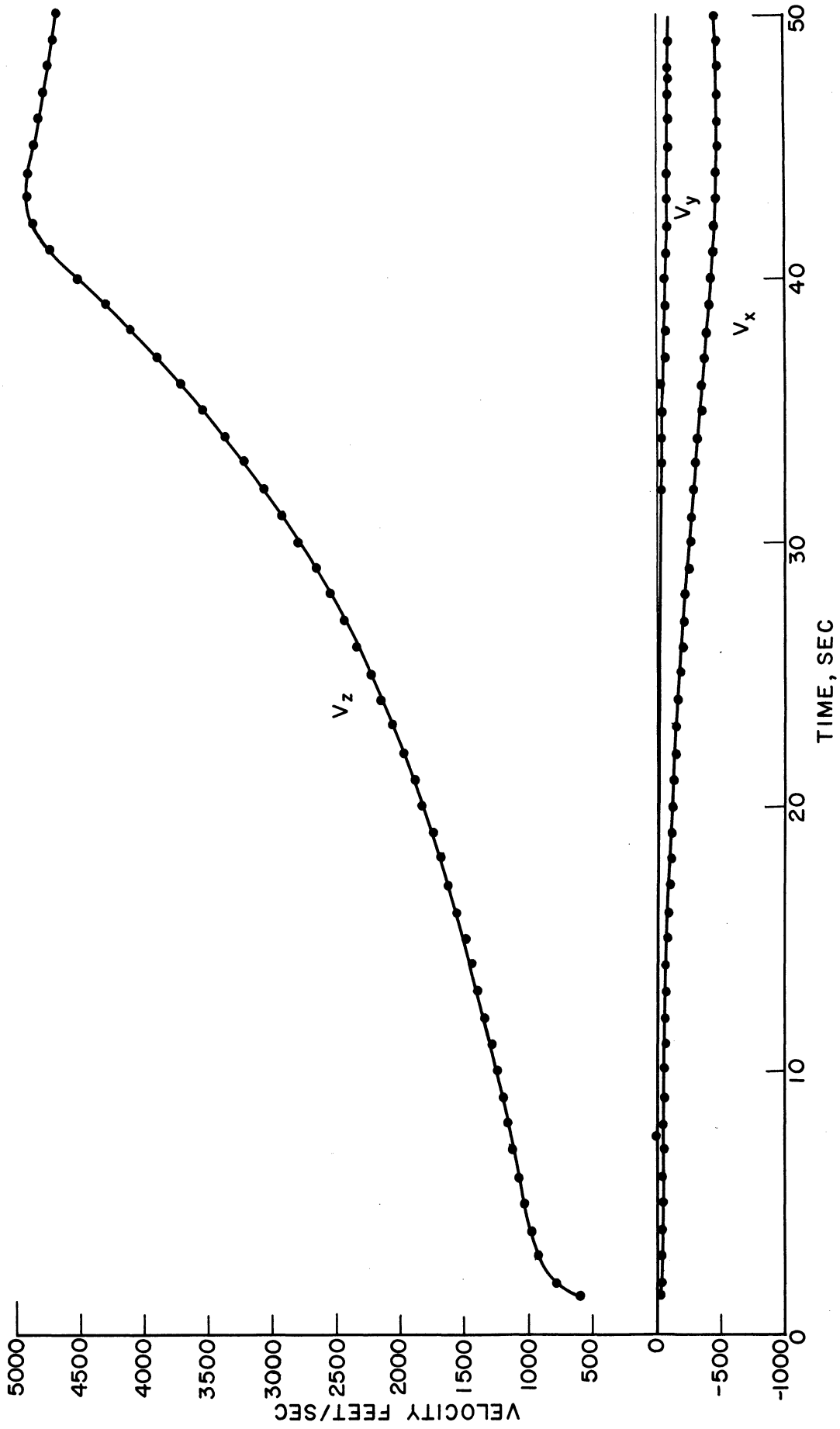
Velocity vs. Time (SM 1.07)



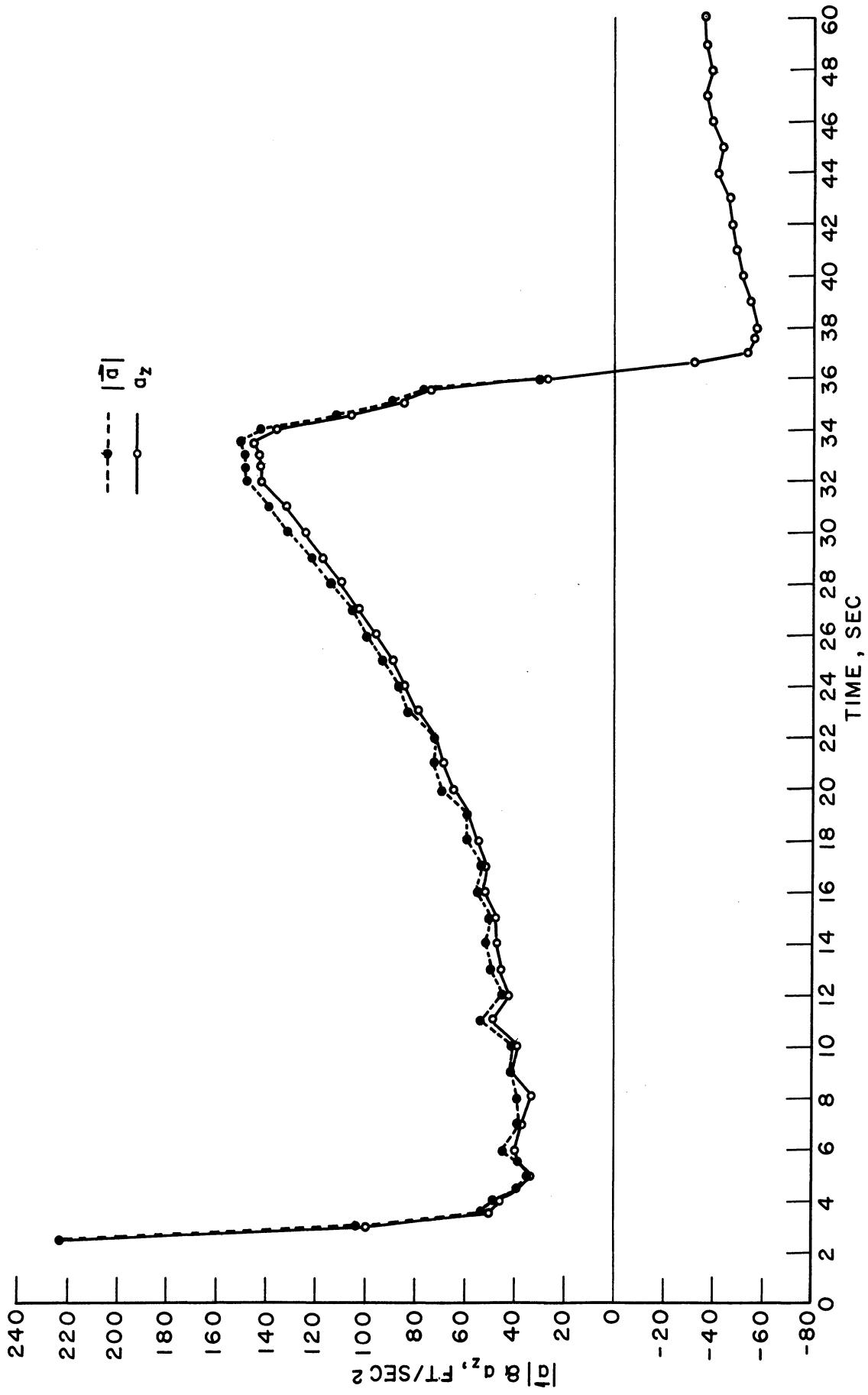
Velocity vs. Time (SM 1.08)



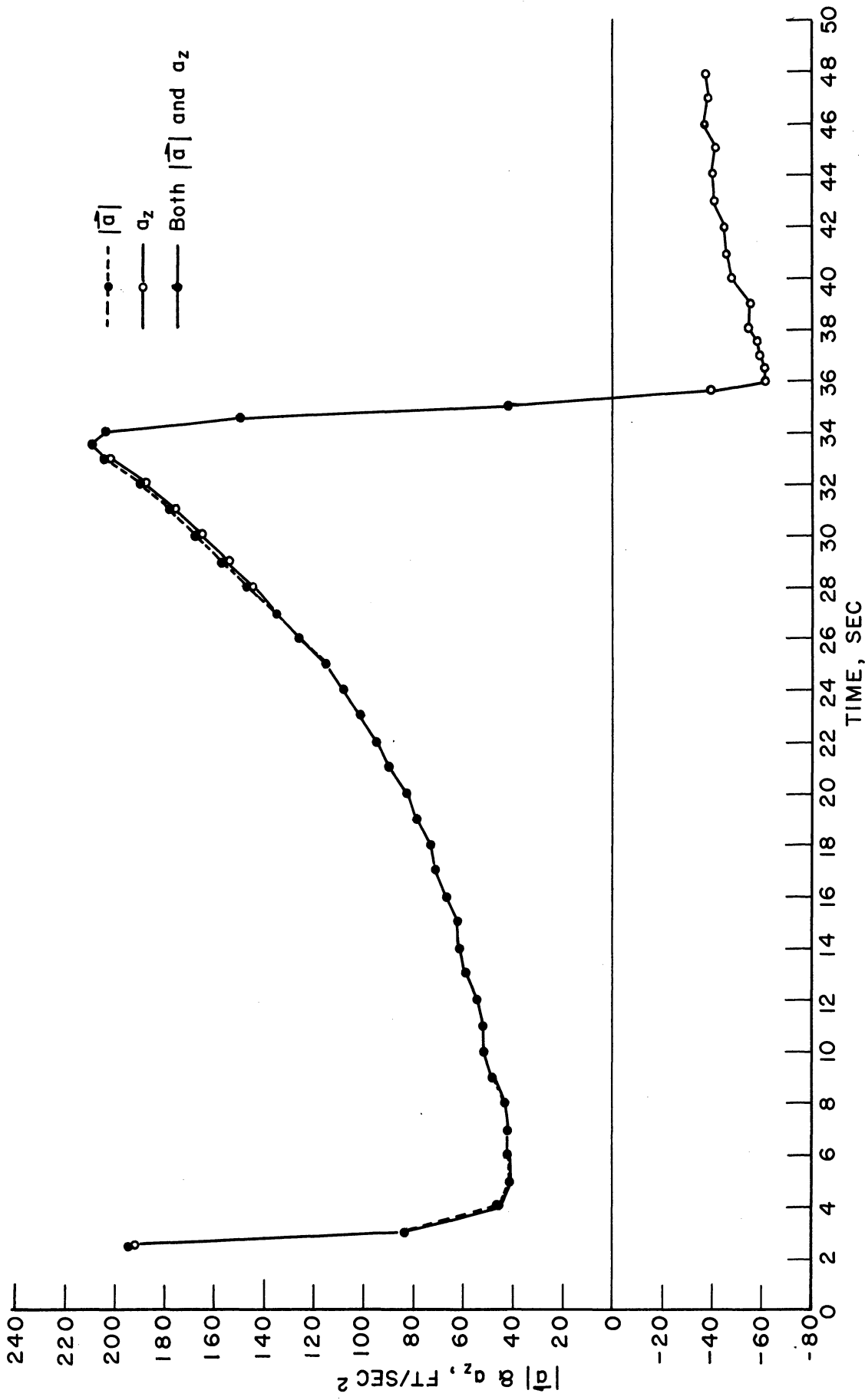
Velocity vs. Time (SM 1.09)



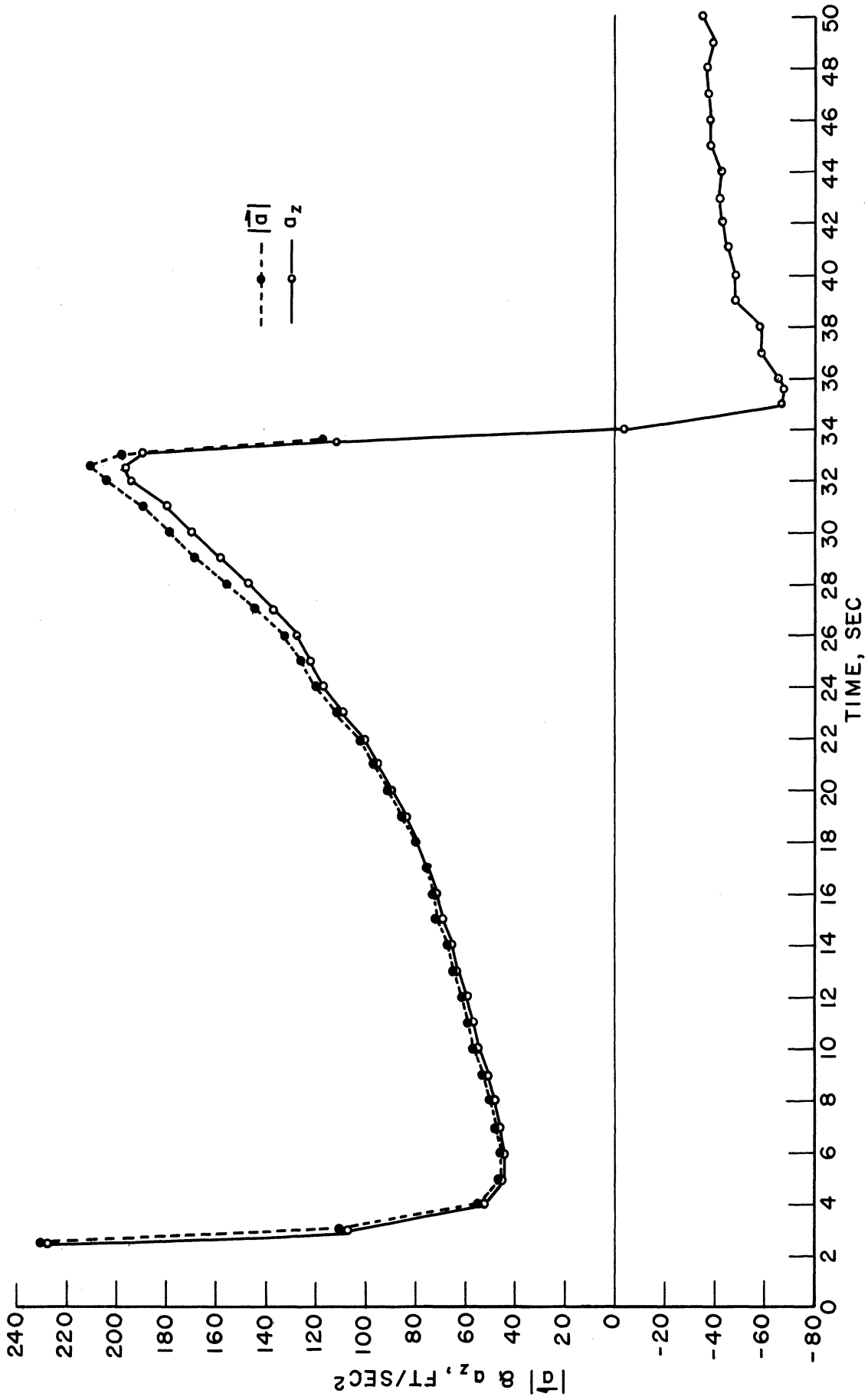
Velocity vs. Time (SM 2.10)



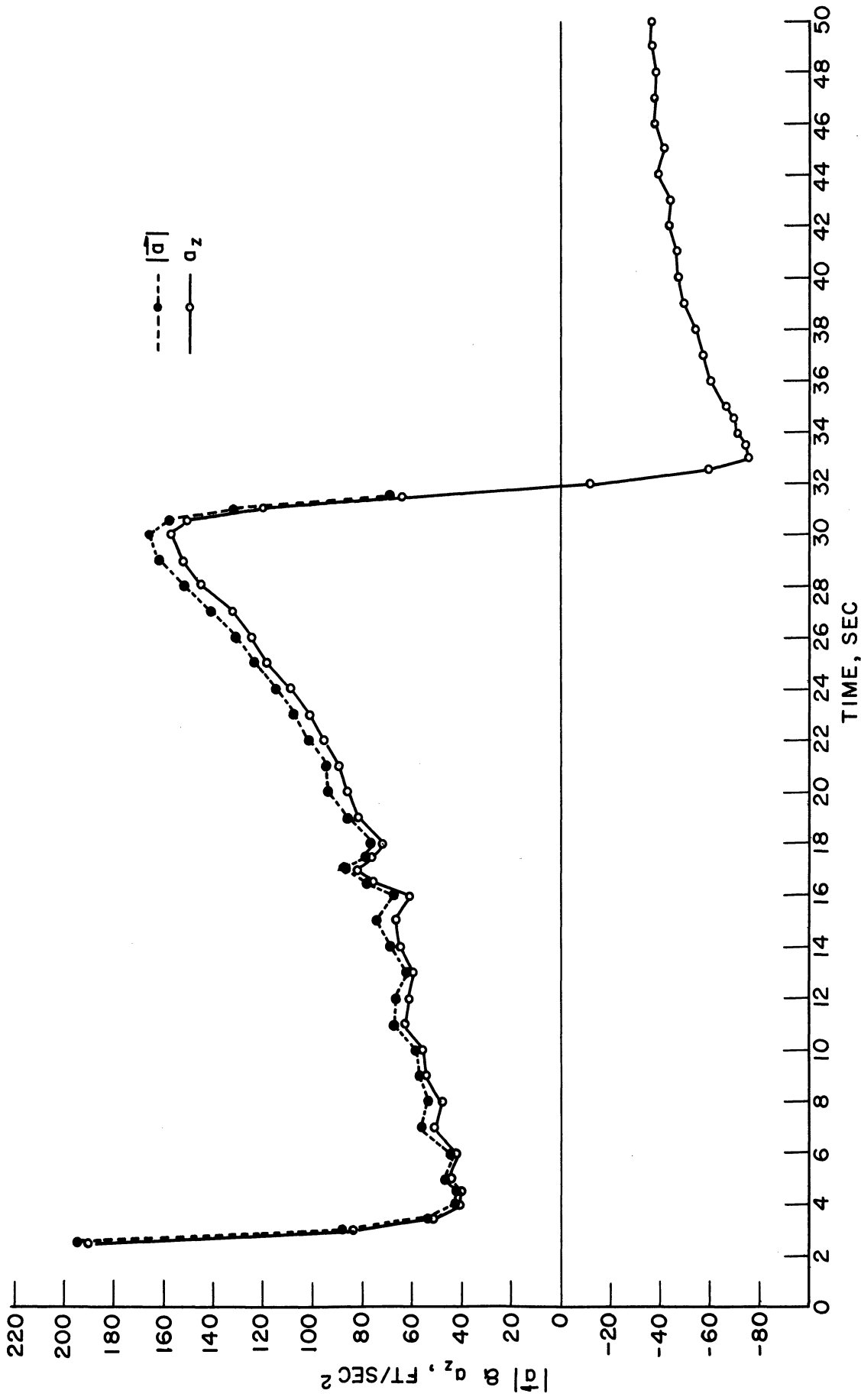
Acceleration vs. Time (SM 1.01)



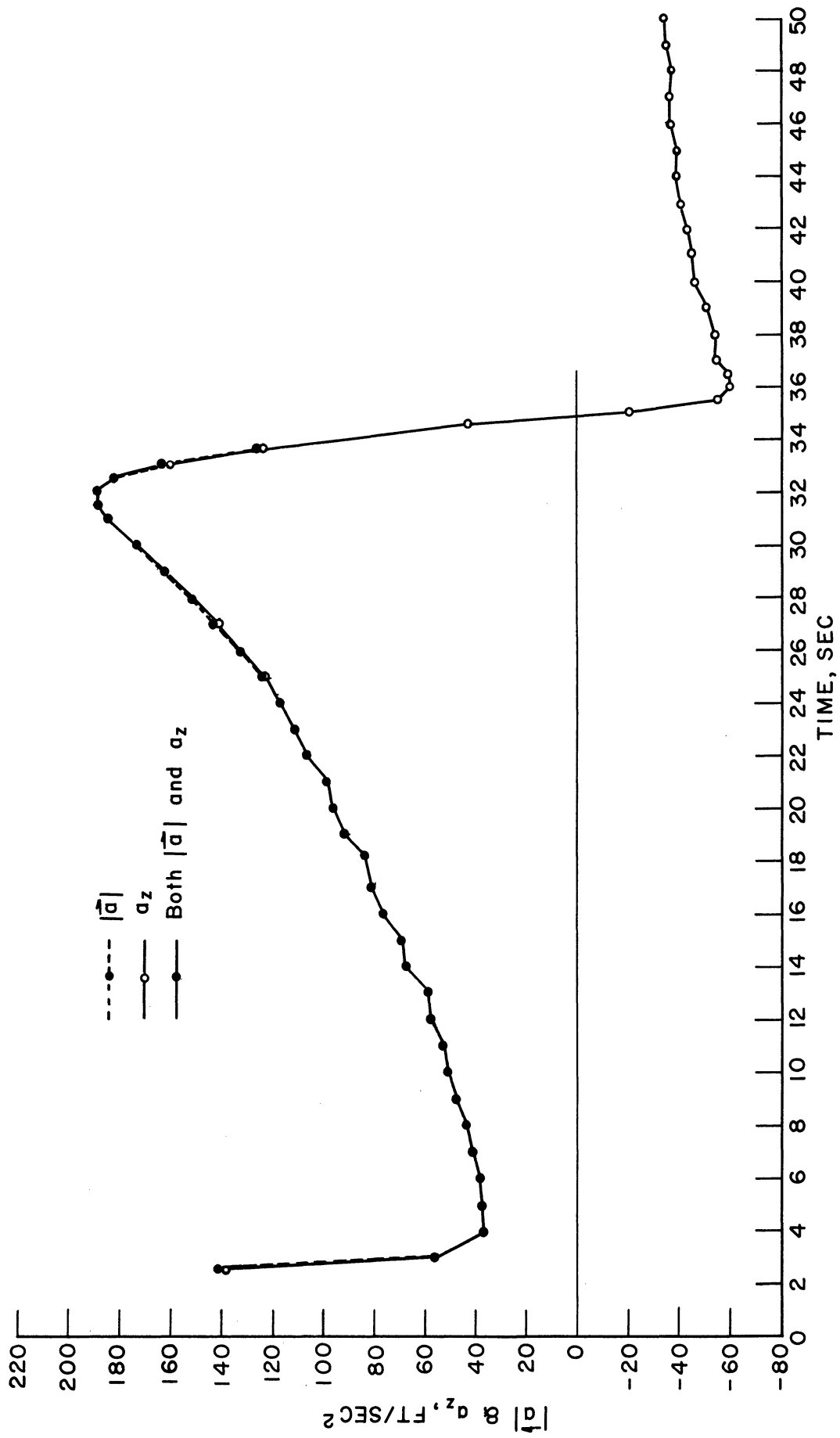
Acceleration vs. Time (SM 1.02)



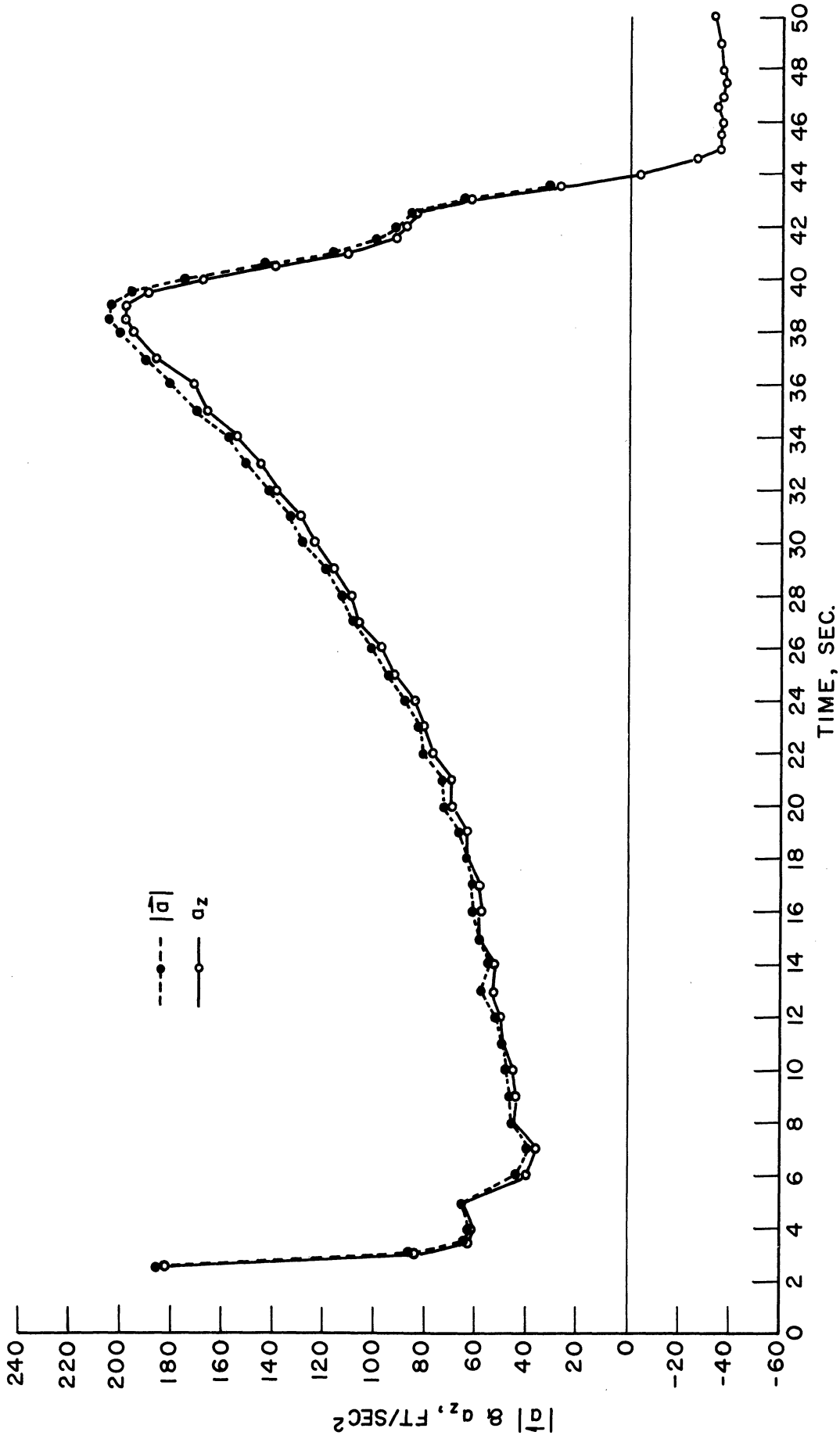
Acceleration vs. Time (SM 1.03)



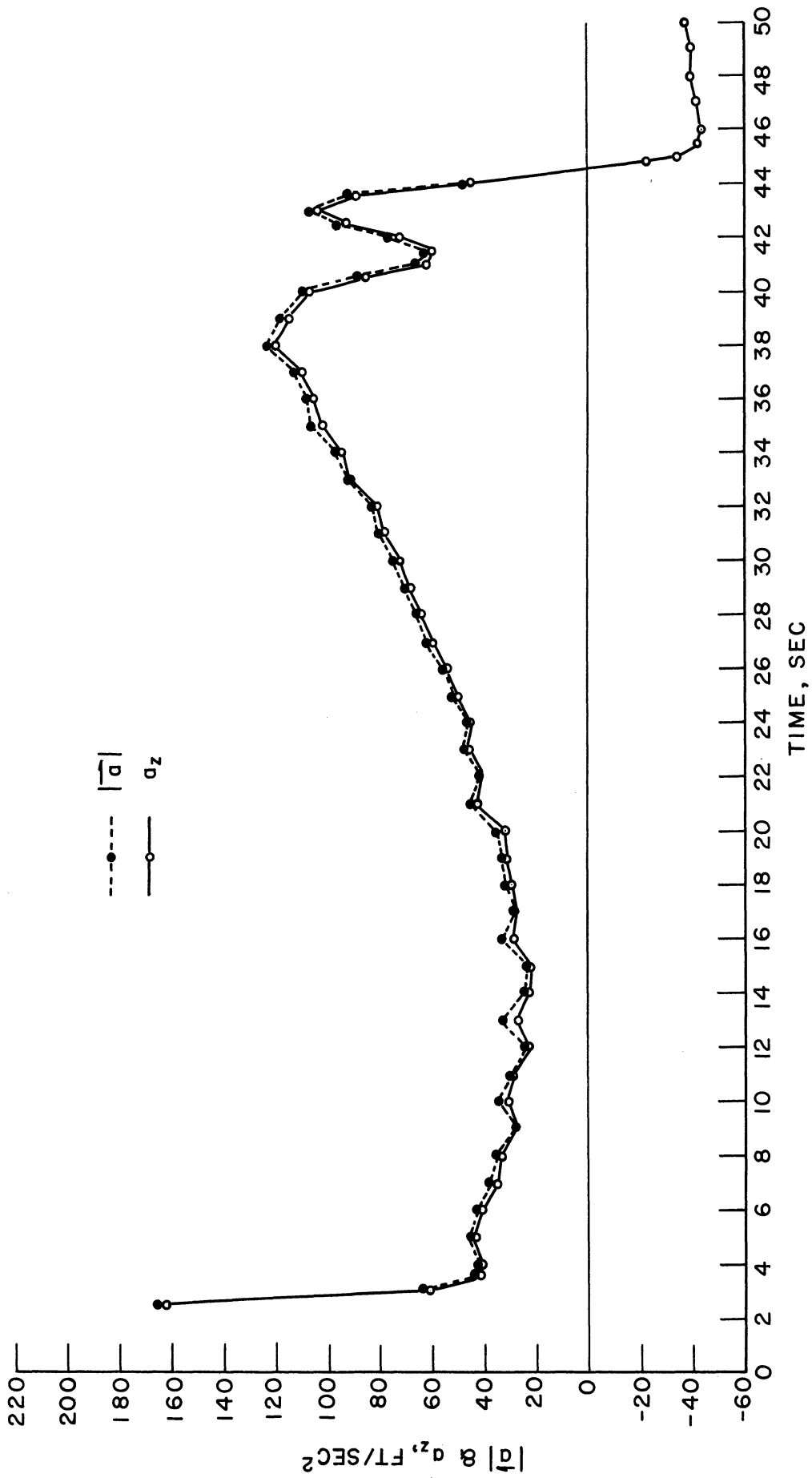
Acceleration vs. Time (SM 1.04)



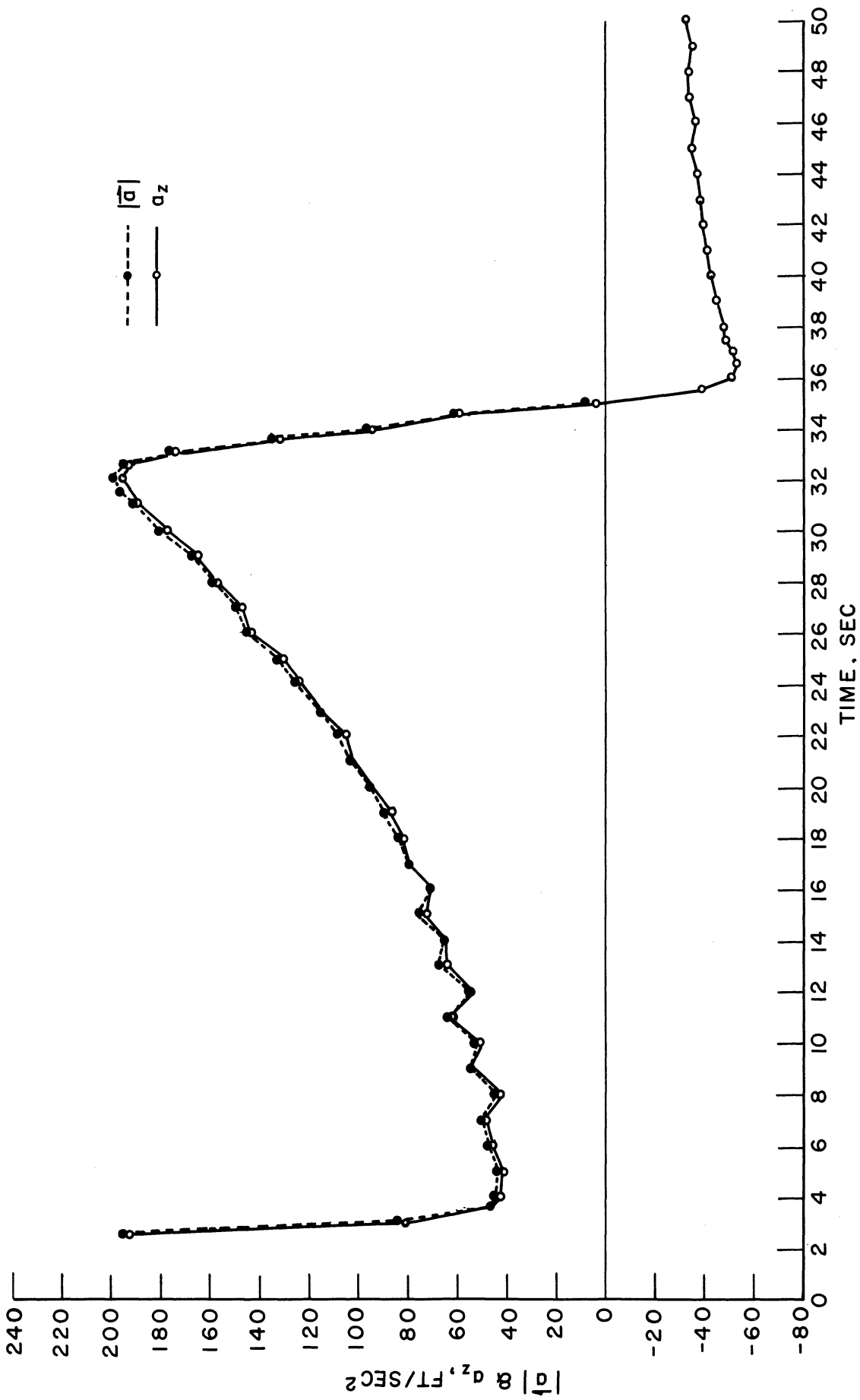
Acceleration vs. Time (SM 1.05)



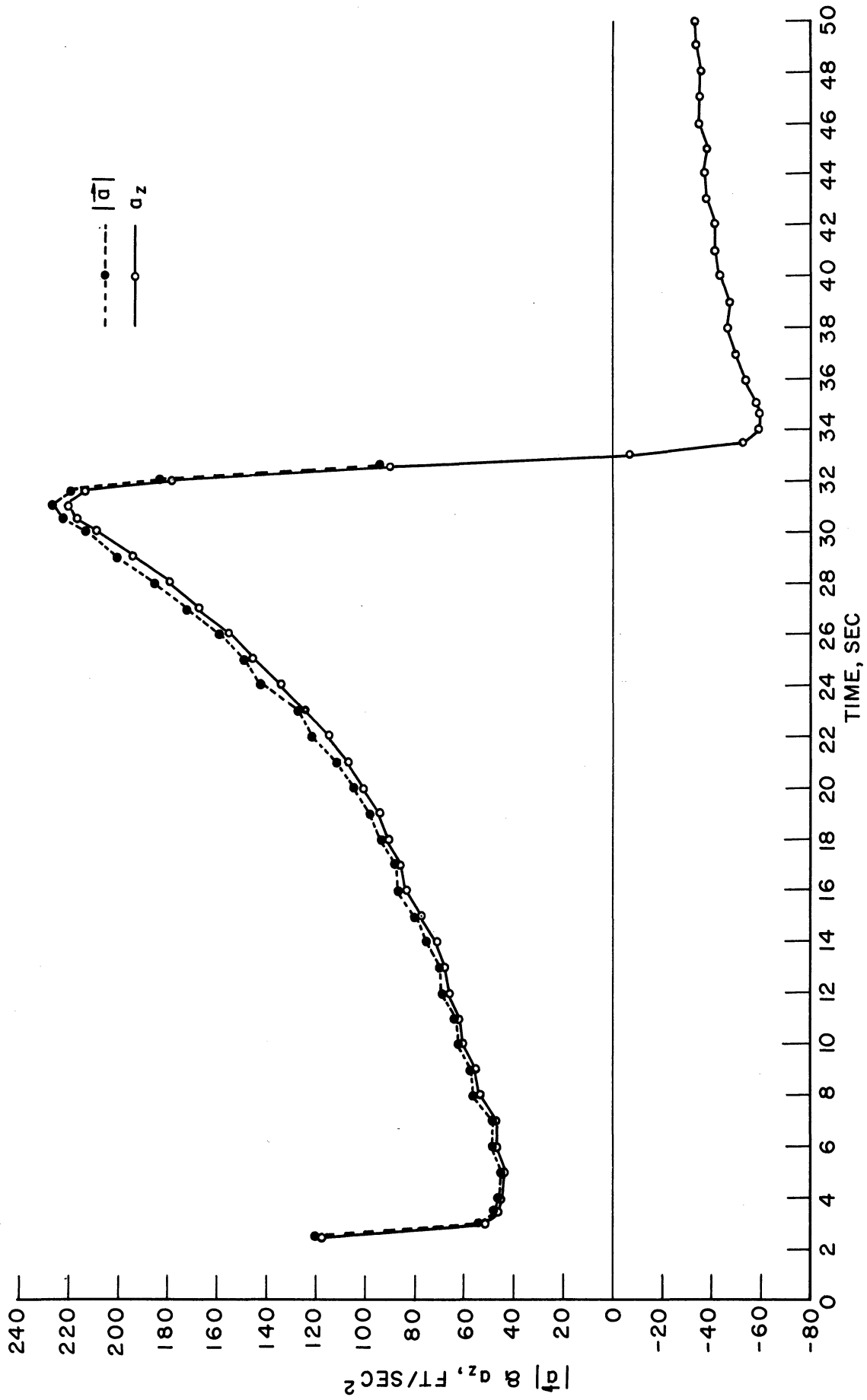
Acceleration vs. Time (SM 2.06)



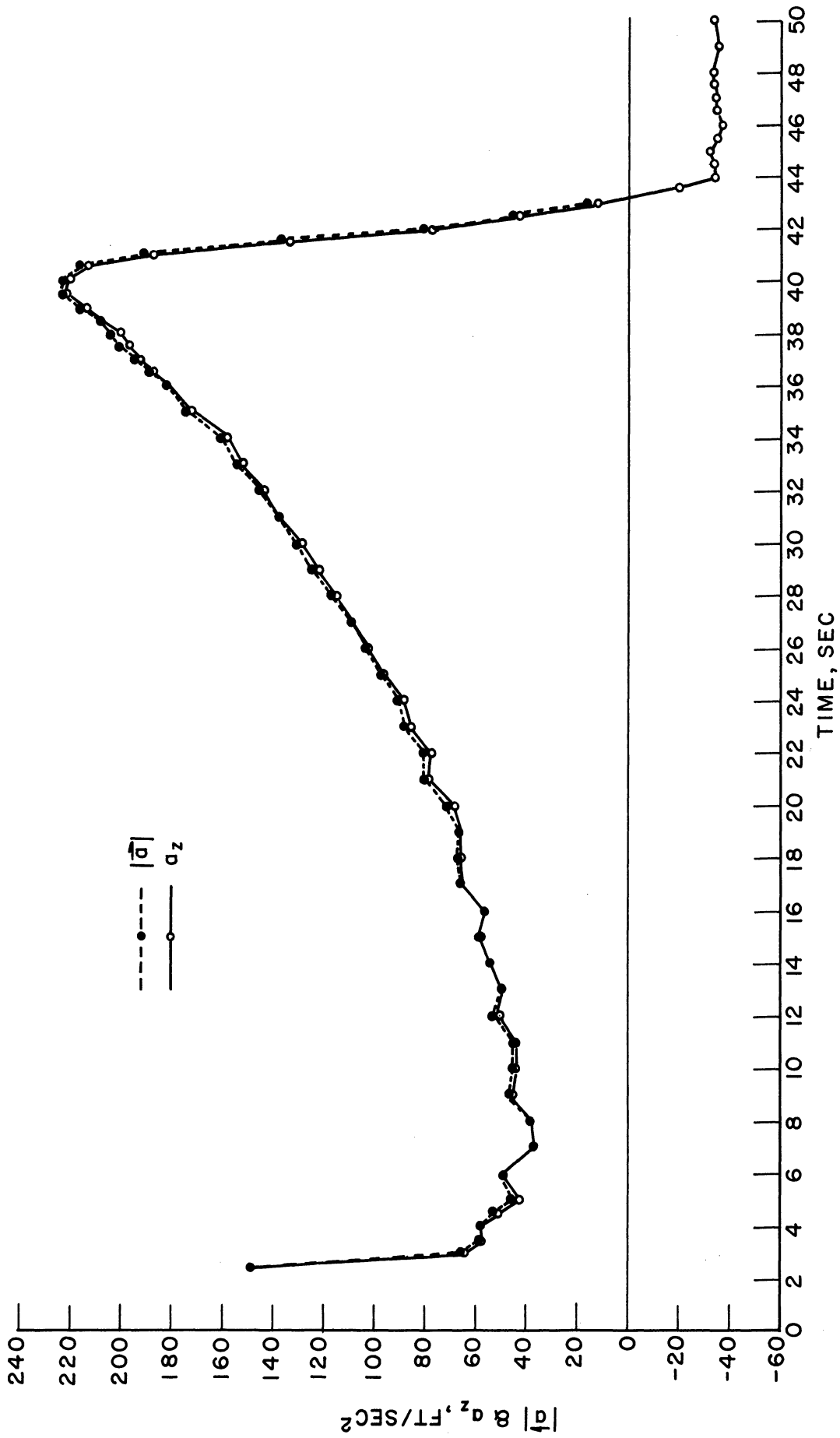
Acceleration vs. Time (SM 1.07)



Acceleration vs. Time (SM 1.08)



Acceleration vs. Time (SM 1.09)



Acceleration vs. Time (SM 2.10)

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