W. W. Hansen Experimental Physics Laboratory
STANFORD UNIVERSITY
STANFORD, CALIFORNIA 94305-4085

Gravity Probe B Relativity Mission

BOARD-LEVEL TUNING PROCEDURE FOR THE GYROSCOPE SUSPENSION SYSTEM (GSS) MUX/OSCILLATOR/CHARGE CTRL (MUX) BOARD

PWA 8A01883 Rev C S/N: | |

GP-B Procedure
P0611 Rev A
September 08, 2000

Prepared by: William Bencze Date
PWA Responsible Engineer

Approved by: William Bencze Date
RE, Gyroscope Suspension System (GSS) Group

Approved by: Dorrene Ross Date
GP-B Quality Assurance

Table of Contents:

1.0 Revision History

Rev Level	Comments/notes	Date	Revised By
-	First release of this test procedure	1-May-00	B. Bencze
A	Modifications based on dry run on GSS gold system cards	7-Sep-00	B. Bencze

2.0 Scope:

This procedure details the board-level electrical functional tests on the GSS MUX/Oscillator/Charge Control (MUX) card. No mechanical or thermal stress testing shall be performed at this time.

This test plan has been written to be run with the GSS "Gold System" test fixture – an electrically and interface equivalent of the GSS flight units. In General, the Device Under Test (DUT) shall be inserted into the Gold System in place of the equivalent Gold System card, any additional electrical connections to the Gold System shall be made, and a set of software-based and possibly manual tests will be run on the board. Upon successful completion of this procedure, this board is considered electrically functional.

All data recorded during this test is recorded in this document; each test of a board will use its own copy of this procedure, and will be identified by serial number on the cover sheet.

3.0 Reference Documents

3.1. GSS Gold System Hardware and Software Configuration Standard, P0663

3.2. PWA Drawing, GSS MUX board, 8A01883

3.3. PWB Drawing, GSS MUX board, 8A01889

3.4. PWA schematic, PC610A gold system test card.

3.5. PWA schematic, PC620A gold system test card.

3.6. Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies, and Equipment, MIL-STD-1686

4.0 Test Facilities

HEPL Room 127, Stanford University

5.0 QA Provisions:

5.1. This procedure shall be conducted on a formal basis to its latest approved and released version. The QA Program Engineer (D. Ross) and the ONR representative (E. Ingraham) shall be notified 24 hours prior to he start of this procedure. QA may monitor the execution of all or part of this procedure should they elect to do so.

Date/time:_____	Date/time:_____
GP-B QA (D. Ross)	ONR (E. Ingraham)

5.2. Upon completion of this procedure, the GSS manager and the GP-B QA manager shall certify her/his concurrence that the procedure was performed and accomplished in accordance with the prescribed instructions by signing and dating his approval at the end of this procedure.

6.0 Test Personnel

This test procedure is to be conducted only by the following personnel:

6.1. William Bencze

6.2. Lo Van Ho

7.0 General Instructions

7.1. Redlines can be initiated by the test personnel listed in Section 6.0 and must be approved by QA.

7.2. Test operators shall read this procedure in its entirety and resolve any apparent ambiguities prior to beginning this test.

7.3. Any nonconformance or test anomaly should be reported by a Discrepancy Report. Refer to the Quality Plan, P0108, for guidance. Do not alter or break test configuration if a test failure occurs; notify quality assurance.

7.4. Only the following persons have the authority to exit/terminate this test or perform a retest: Test operators listed in Section 6.0 and GP-B QA.

7.5. In this document, “Perform Flight S/W system test commands:” means to prepare the test system software as described in P0670 Board-Level Test Software Operational Procedure, and then issue the listed commands according to the procedure described in P0670.

8.0 Hardware Safety Requirements:

8.1. This assembly is ESD sensitive; special care shall be exercised per the “Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies, and Equipment”, MIL-STD-1686

8.2. Ensure that power is removed from cable assemblies before connecting or disconnecting cable connectors.

8.3. Examine all mating connectors before attempting to mate them. Remove any foreign particles. Look for any damaged pins or sockets. Do not force the coupling action if excessive resistance is encountered. Ensure that key-ways are aligned when mating connectors.

9.0 Equipment Pretest Requirements:

9.1. The GSS Gold System in which this board is to be tested must have passed successfully the P0663 – Gold System Certification Procedure prior to the start of this test. Record the Gold System serial number and date of its certification, below

GSS Gold System	SN:	
	Date of Certification	
	Configuration (circle one)	Full Partial

10.0 Additional Test Equipment

The following support hardware, test equipment, or software will be used and the applicable information for the instruments shall be recorded below. Hand-written additions to this list may be made in the space provided.

Equipment Description	Make	Model	SN	Cal Due
1. Multimeter	Fluke			
2. Multimeter	Fluke			
3. Multimeter	Fluke			
4. Gain/Phase meter	HP			
5. BNC-to-Pomona mini-clip test cable, 3’	SU fab	NA	NA	NA
6. Signal Generator	SRS			
7. Oscilloscope	Tek			
8. 6 ea 100 kohm tuning pot.	SU	NA	NA	NA
9. 1 ea 200 kohm tuning pot.	SU	NA	NA	NA
10. PC620 gold system test card	SU	Rev A		NA
11. PC610 gold system test card	SU	Rev A		NA
12. Bolt-up FSU enclosure	LMMS	-		NA
13. Gold system Fwd backplane with banana-plug power port	SU PC400		002-GS	NA
14. Triple output power supply	HP			
15. BNC patch cables, as required	Various	NA	NA	NA
16. Meter test leads, as required	Various	NA	NA	NA

11.0 Device Under Test (DUT):

Record the serial number of the Device Under Test, or DUT.

PWA 8A01883 GSS MUX Card	SN:	
Test Operator:	Name:	
Start of test:	Date:	

12.0 Pre-test visual inspection.

Note: All handling of this PWA shall be performed using ESD control methods, as outlined in MIL-STD-1686. Unit shall be inspected at an ESD certified station. Wrist straps and/or heel grounding straps shall be used.

P/F	Test/Activity	Notes
	12.1. Remove PWA from storage container.	
	12.2. Verify that the PWA board revision is C. *(Component changes are required to the Rev B design before tuning can begin; see PWA traveller for rework instructions)*	
	12.3. Verify that no parts are missing, unless called out in the assembly drawing.	
	12.4. Verify that the following capacitors are installed in the proper orientation: C49, C50, C51	
	12.5. Verify the proper orientation of pin 1 of all DIP packages: (27 Places)	
	12.6. Verify thermal sensor U20 is bonded to the PWB.	
	12.7. Verify proper clocking of transistor cans to PWB silkscreen, JFET1, JFET2	
	12.8. Verify proper installation of diodes ZD1, ZD2.	
	12.9. Verify proper orientation of pin 1 of all SIL resistor packs (RPS1, RPS2)	

13.0 Pre-Insertion Static Electrical Tests:

Note: All handling of this PWA shall be performed using ESD control methods, as outlined in MIL-STD-1686. Unit shall be inspected at an ESD certified station. Wrist straps and/or heel grounding straps shall be used.

13.1. Power circuits isolation check

A. Set meter to "ohms", record indicated resistance between the indicated circuit points.
B. Note orientation of (+) and (-) leads on meter.
C. Use gold-tipped Pomona test probes for all measurements.
D. After leads are in contact with the PWA, wait 30 seconds for meter reading to stabilize before recording measurement.

P/F	Test/Activity	Pass Criteria	Measurement
	13.1.1. TP22 (+) to TP25 neg lead (-)	> 100 kohm	Value
	13.1.2. TP23 (+) to TP25 neg lead (-)	> 100 kohm	Value
	13.1.3. TP24 (+) to TP25 neg lead (-)	> 100 kohm	Value

14.0 In-System Testing – Flight Configuration

Note: Tests run in this section are run with the hardware in "flight" configuration: no external test equipment or cables. The tests here use only the onboard diagnostic facilities of the GSS hardware. These will be the equivalent of the on-orbit tests of this system.

15.0 This section not applicable

15.0 In-System Testing – Ground Test Configuration

Note: Tests run in this section require the addition of test cables and external test hardware. They are used to verify the board functioning of the board in fine detail, and are only used at the time of board-level test and acceptance. These may be considered "Engineering Confidence Tests".

15.1. Gold System Configuration

This board-level test does not require any of the services of the aft GSS unit or many of the services of the forward GSS unit. The gold system will be partially disassembled to facilitate this test.

P/F	Test/Activity	Notes
	15.1.1. Remove all gold system function cards from the forward GSS enclosure; return them to their protective ESD packaging.	
	15.1.2. Install Gold System backplane and PC610/620 test cards into a bolt-up frame GSS forward enclosure. Remove side panel to expose the component side of the DUT when installed.	
	15.1.3. Connect backplane pigtail to power supply.	
	15.1.4. Install DUT into its proper slot in the forward enclosure per P0663. *(note: no FSU covers are needed for this test)*	

15.2. Configure PC620:

P/F	Test/Activity	Notes
	15.2.1. Connect *BNC-to-pomona clip cable* to frequency generator.	
	15.2.2. Connect red (+) clip to PC620 TP84 *(FSU_CK34K1_A)*	
	15.2.3. Connect black (-) clip to PC620 AGND TP	

15.3. Gain/Phase meter setup

P/F	Test/Activity	Notes
	15.3.1. CH A: 2mV-20V setting	
	15.3.2. FREQ RANGE: 10 – 10 kHz	
	15.3.3. AMPLITUDE FNC: A	
	15.3.4. PHASE REF: A	
	15.3.5. CH B: 2mV-20V setting	

15.4. Function generator setup

P/F	Test/Activity	Notes
	15.4.1. Freq: 34.100 kHz	
	15.4.2. Amplitude: 1.0 Vpp	
	15.4.3. Waveform: SIN	

15.5. Power on:

P/F	Test/Activity	Notes
	15.5.1. Apply power to the FSU enclosure.	

15.6. Oscillator Tuning:

P/F	Test/Activity	Notes
	15.6.1. Disconnect frequency generator from PC620	
	15.6.2. Install a 200 kohm tuning on header H3.	
	15.6.3. Install a 100 kohm tuning on header H2.	
	15.6.4. Adjust pot on H3 so that TP7 reads –3.75 V ± 0.05 V	
	15.6.5. Adjust pot on H2 so that the frequency at TP1 is **34.1 kHz ± 100 Hz.** *(This is done via visual inspection of the signal generator and oscillator waveforms on scope screen)*	
	15.6.6. Reconnect frequency generator to PC620	
	15.6.7. Verify signal at TP1 is phase-locked to the input using the scope.	
	15.6.8. Verify that the signal at TP1 remains locked for frequencies ± 50 Hz from 34,100 Hz. Adjust the pot on H2 as required to make it so.	
	15.6.9. Remove the pot on H3; record its value; return to the circuit.	Value:
	15.6.10. Subtract 100 kohm from the value on the previous line and record it here for R74.	Value: (R28)
	15.6.11. Remove the pot on H2; record its value; return to the circuit.	Value: (R74)

15.7. Phase Shifter Tuning:

P/F	Test/Activity	Notes
	15.7.1. Install a 100 kohm tuning on header H8.	
	15.7.2. Install a 100 kohm tuning on header H4.	
	15.7.3. Install a 100 kohm tuning on header H7.	
	15.7.4. Install a 100 kohm tuning on header H10.	
	15.7.5. Install a 100 kohm tuning on header H11	
	15.7.6. Adjust pot on H4 so that X_OSC reads **354 ± 0.005 mV RMS.** *(1 V p-p)*	
	15.7.7. Adjust pot on H7 so that Y_OSC reads **354 ± 0.005 mV RMS.** *(1 V p-p)*	
	15.7.8. Using the gain/phase meter, adjust pot on H8 so phase difference between X_OSC (Ch A) and Y_OSC (Ch B) is **-120.0 ± 0.5 degrees.**	
	15.7.9. Readjust pot on H7 so that X_OSC reads **354 ± 0.005 mV RMS.** *(1 V p-p)*	
	15.7.10. Adjust pot on H10 so that Z_OSC reads **354 ± 0.005 mV RMS.** *(1 V p-p)*	
	15.7.11. Using the gain/phase meter, adjust pot on H8 so phase difference between X_OSC (Ch A) and Z_OSC (Ch B) is **+120.0 ± 0.5 degrees.**	
	15.7.12. Readjust pot on H10 so that Z_OSC reads **354 ± 0.005 mV RMS.** *(1 V p-p)*	
	15.7.13. Remove the pot on H4; record value:	Value: (R2+R6)
	15.7.14. Remove the pot on H7; record value:	Value: (R20+R24)
	15.7.15. Remove the pot on H8; record value:	Value: (R26+R30)
	15.7.16. Remove the pot on H10; record value:	Value: (R36+R42)
	15.7.17. Remove the pot on H11; record value:	Value: (R46+R47)

15.8. Record tuning values

P/F	Test/Activity	Notes
	15.8.1. Use the Single (Section 17.0) and Dual (Section 18.0) resistor selection tables to choose the appropriate fixed value resistors for the components below. *Note, the dual-resistor tables are for series wired resistor values only. (All Rx+Ry types)*	

Component	Flight PN	Description	Value transferred from earlier in the procedure
R2	RNC55H_____FS		(R2+R6)
R6	RNC55H_____FS		
R26	RNC55H_____FS		(R26+R30)
R30	RNC55H_____FS		
R20	RNC55H_____FS		(R20+R24)
R24	RNC55H_____FS		
R36	RNC55H_____FS		(R36+R42)
R42	RNC55H_____FS		
R28	RNC55H_____FS		(R28)
R74	RNC55H_____FS		(R74)
R41	open	no component installed	no component installed
R46	RNC55H_____FS		(R46+R47)
R47	RNC55H_____FS		

	15.8.2. Transfer these values to the select and test installation sheet in Appendix A.	

16.0 Completion of Procedure:

		P/F	Notes
16.1.	Remove all tuning pots from PWA.		
16.2.	Remove PWA from enclosure per P0663 and return to storage container.		
16.3.	Return the board to the assembly vendor for installation of the final values of the selected resistors.		

The results obtained in the performance of this test procedure are acceptable.

Test Engineer		Date	

This is to certify that the information obtained under this test procedure is as represented and the documentation is completed and correct.

GSS Representative		Date	
Quality Assurance		Date	

17.0 Single Resistor Value Selection Table

For single select and test resistors, find the row that brackets the value of interest between Min and Max; use the specified resistor given in the description and P/N columns. (all values are in ohms)

For values in this range		Choose this resistor:	
Min (ohms)	**Max (Ohms)**	**Description**	**P/N**
1000	1134	Resistor, 1.00K Ohms, ±1%	RN55H1001FS
1034	1109	Resistor, 1.07K Ohms, ±1%	RN55H1071FS
1109	1194	Resistor, 1.15K Ohms, ±1%	RN55H1151FS
1194	1284	Resistor, 1.24K Ohms, ±1%	RN55H1241FS
1284	1379	Resistor, 1.33K Ohms, ±1%	RN55H1331FS
1379	1484	Resistor, 1.43K Ohms, ±1%	RN55H1431FS
1484	1594	Resistor, 1.54K Ohms, ±1%	RN55H1541FS
1594	1714	Resistor, 1.65K Ohms, ±1%	RN55H1651FS
1714	1844	Resistor, 1.78K Ohms, ±1%	RN55H1781FS
1844	1979	Resistor, 1.91K Ohms, ±1%	RN55H1911FS
1979	2128	Resistor, 2.05K Ohms, ±1%	RN55H2051FS
2128	2289	Resistor, 2.21K Ohms, ±1%	RN55H2211FS
2289	2458	Resistor, 2.37K Ohms, ±1%	RN55H2371FS
2458	2643	Resistor, 2.55K Ohms, ±1%	RN55H2551FS
2643	2838	Resistor, 2.74K Ohms, ±1%	RN55H2741FS
2838	3048	Resistor, 2.94K Ohms, ±1%	RN55H2941FS
3048	3278	Resistor, 3.16K Ohms, ±1%	RN55H3161FS
3278	3523	Resistor, 3.40K Ohms, ±1%	RN55H3401FS
3523	3783	Resistor, 3.65K Ohms, ±1%	RN55H3651FS
3783	4067	Resistor, 3.92K Ohms, ±1%	RN55H3921FS
4067	4372	Resistor, 4.22K Ohms, ±1%	RN55H4221FS
4372	4697	Resistor, 4.53K Ohms, ±1%	RN55H4531FS
4697	4930	Resistor, 4.87K Ohms, ±1%	RN55H4871FS
4930	5109	Resistor, 4.99K Ohms, ±1%	RN55H4991FS
5109	5421	Resistor, 5.23K Ohms, ±1%	RN55H5231FS
5421	5826	Resistor, 5.62K Ohms, ±1%	RN55H5621FS
5826	6261	Resistor, 6.04K Ohms, ±1%	RN55H6041FS
6261	6731	Resistor, 6.49K Ohms, ±1%	RN55H6491FS
6731	7235	Resistor, 6.98K Ohms, ±1%	RN55H6981FS
7235	7775	Resistor, 7.50K Ohms, ±1%	RN55H7501FS
7775	8355	Resistor, 8.06K Ohms, ±1%	RN55H8061FS
8355	8979	Resistor, 8.66K Ohms, ±1%	RN55H8661FS
8979	9649	Resistor, 9.31K Ohms, ±1%	RN55H9311FS

Single Resistor Value Selection Table (continued)

For values in this range		Choose this resistor:	
Min (ohms)	**Max (Ohms)**	**Description**	**P/N**
9649	10368	Resistor, 10.0K Ohms, ±1%	RN55H1002FS
10368	11143	Resistor, 10.7K Ohms, ±1%	RN55H1072FS
11143	11972	Resistor, 11.5K Ohms, ±1%	RN55H1152FS
11972	12867	Resistor, 12.4K Ohms, ±1%	RN55H1242FS
12867	13826	Resistor, 13.3K Ohms, ±1%	RN55H1332FS
13826	14855	Resistor, 14.3K Ohms, ±1%	RN55H1432FS
14855	15965	Resistor, 15.4K Ohms, ±1%	RN55H1542FS
15965	17154	Resistor, 16.5K Ohms, ±1%	RN55H1652FS
17154	18433	Resistor, 17.8K Ohms, ±1%	RN55H1782FS
18433	19812	Resistor, 19.1K Ohms, ±1%	RN55H1912FS
19812	21291	Resistor, 20.5K Ohms, ±1%	RN55H2052FS
21291	22875	Resistor, 22.1K Ohms, ±1%	RN55H2212FS
22875	24579	Resistor, 23.7K Ohms, ±1%	RN55H2372FS
24579	26413	Resistor, 25.5K Ohms, ±1%	RN55H2552FS
26413	28387	Resistor, 27.4K Ohms, ±1%	RN55H2742FS
28387	30505	Resistor, 29.4K Ohms, ±1%	RN55H2942FS
30505	32779	Resistor, 31.6K Ohms, ±1%	RN55H3162FS
32779	35227	Resistor, 34.0K Ohms, ±1%	RN55H3402FS
35227	37856	Resistor, 36.5K Ohms, ±1%	RN55H3652FS
37856	40679	Resistor, 39.2K Ohms, ±1%	RN55H3922FS
40679	43717	Resistor, 42.2K Ohms, ±1%	RN55H4222FS
43717	46980	Resistor, 45.3K Ohms, ±1%	RN55H4532FS
46980	49296	Resistor, 48.7K Ohms, ±1%	RN55H4872FS
49296	51101	Resistor, 49.9K Ohms, ±1%	RN55H4992FS
51101	54245	Resistor, 52.3K Ohms, ±1%	RN55H5232FS
54245	58292	Resistor, 56.2K Ohms, ±1%	RN55H5622FS
58292	62644	Resistor, 60.4K Ohms, ±1%	RN55H6042FS
62644	67317	Resistor, 64.9K Ohms, ±1%	RN55H6492FS
67317	72338	Resistor, 69.8K Ohms, ±1%	RN55H6982FS
72338	77735	Resistor, 75.0K Ohms, ±1%	RN55H7502FS
77735	83536	Resistor, 80.6K Ohms, ±1%	RN55H8062FS
83536	89772	Resistor, 86.6K Ohms, ±1%	RN55H8662FS
89772	96468	Resistor, 93.1K Ohms, ±1%	RN55H9312FS
96468	100000	Resistor, 100K Ohms, ±1%	RN55H1003FS

18.0 Dual Resistor Selection table:

For series pair of resistors, find the row that brackets the value of interest between Rmin and Rmax; use the two specified resistors R1 and R2 for the pair (all values are in ohms)

Rmin	Rmax	**Value**	R1	+	R2
1,000	1,034	**1,000**	0	+	1000
1,034	1,109	**1,070**	0	+	1070
1,109	1,194	**1,150**	0	+	1150
1,194	1,284	**1,240**	0	+	1240
1,284	1,379	**1,330**	0	+	1330
1,379	1,484	**1,430**	0	+	1430
1,484	1,594	**1,540**	0	+	1540
1,594	1,714	**1,650**	0	+	1650
1,714	1,844	**1,780**	0	+	1780
1,844	1,954	**1,910**	0	+	1910
1,954	2,025	**2,000**	1000	+	1000
2,025	2,060	**2,050**	0	+	2050
2,060	2,105	**2,070**	1000	+	1070
2,105	2,145	**2,140**	1070	+	1070
2,145	2,180	**2,150**	1000	+	1150
2,180	2,215	**2,210**	0	+	2210
2,215	2,230	**2,220**	1070	+	1150
2,230	2,270	**2,240**	1000	+	1240
2,270	2,305	**2,300**	1150	+	1150
2,305	2,320	**2,310**	1070	+	1240
2,320	2,350	**2,330**	1000	+	1330
2,350	2,380	**2,370**	0	+	2370
2,380	2,395	**2,390**	1150	+	1240
2,395	2,415	**2,400**	1070	+	1330
2,415	2,455	**2,430**	1000	+	1430
2,455	2,490	**2,480**	1150	+	1330
2,490	2,520	**2,500**	1070	+	1430
2,520	2,545	**2,540**	1000	+	1540
2,545	2,560	**2,550**	0	+	2550
2,560	2,575	**2,570**	1240	+	1330
2,575	2,595	**2,580**	1150	+	1430
2,595	2,630	**2,610**	1070	+	1540
2,630	2,655	**2,650**	1000	+	1650
2,655	2,665	**2,660**	1330	+	1330
2,665	2,680	**2,670**	1240	+	1430
2,680	2,705	**2,690**	1150	+	1540
2,705	2,730	**2,720**	1070	+	1650
2,730	2,750	**2,740**	0	+	2740
2,750	2,770	**2,760**	1330	+	1430
2,770	2,790	**2,780**	1000	+	1780
2,790	2,825	**2,800**	1150	+	1650
2,825	2,855	**2,850**	1070	+	1780
2,855	2,865	**2,860**	1430	+	1430
2,865	2,880	**2,870**	1330	+	1540
2,880	2,900	**2,890**	1240	+	1650
2,900	2,920	**2,910**	1000	+	1910
2,920	2,935	**2,930**	1150	+	1780
2,935	2,955	**2,940**	0	+	2940
2,955	2,975	**2,970**	1430	+	1540
2,975	3,000	**2,980**	1070	+	1910
3,000	3,035	**3,020**	1240	+	1780
3,035	3,055	**3,050**	1000	+	2050
3,055	3,070	**3,060**	1150	+	1910
3,070	3,095	**3,080**	1430	+	1650
3,095	3,115	**3,110**	1330	+	1780
3,115	3,135	**3,120**	1070	+	2050
3,135	3,155	**3,150**	1240	+	1910
3,155	3,175	**3,160**	0	+	3160
3,175	3,195	**3,190**	1540	+	1650
3,195	3,205	**3,200**	1150	+	2050
3,205	3,225	**3,210**	1000	+	2210
3,225	3,260	**3,240**	1330	+	1910
3,260	3,285	**3,280**	1070	+	2210
3,285	3,295	**3,290**	1240	+	2050
3,295	3,310	**3,300**	1650	+	1650
3,310	3,330	**3,320**	1540	+	1780
3,330	3,350	**3,340**	1430	+	1910
3,350	3,365	**3,360**	1150	+	2210
3,365	3,375	**3,370**	1000	+	2370
3,375	3,390	**3,380**	1330	+	2050
3,390	3,415	**3,400**	0	+	3400
3,415	3,435	**3,430**	1650	+	1780
3,435	3,445	**3,440**	1070	+	2370
3,445	3,465	**3,450**	1240	+	2210
3,465	3,500	**3,480**	1430	+	2050
3,500	3,530	**3,520**	1150	+	2370
3,530	3,545	**3,540**	1330	+	2210
3,545	3,555	**3,550**	1000	+	2550
3,555	3,575	**3,560**	1650	+	1910
3,575	3,600	**3,590**	1540	+	2050
3,600	3,615	**3,610**	1240	+	2370
3,615	3,630	**3,620**	1070	+	2550
3,630	3,645	**3,640**	1430	+	2210
3,645	3,670	**3,650**	0	+	3650
3,670	3,695	**3,690**	1780	+	1910
3,695	3,720	**3,700**	1150	+	2550
3,720	3,745	**3,740**	1000	+	2740
3,745	3,770	**3,750**	1540	+	2210
3,770	3,795	**3,790**	1240	+	2550
3,795	3,805	**3,800**	1430	+	2370
3,805	3,815	**3,810**	1070	+	2740
3,815	3,825	**3,820**	1910	+	1910
3,825	3,845	**3,830**	1780	+	2050
3,845	3,870	**3,860**	1650	+	2210
3,870	3,885	**3,880**	1330	+	2550
3,885	3,900	**3,890**	1150	+	2740
3,900	3,915	**3,910**	1540	+	2370
3,915	3,930	**3,920**	0	+	3920
3,930	3,950	**3,940**	1000	+	2940
3,950	3,970	**3,960**	1910	+	2050
3,970	3,985	**3,980**	1240	+	2740
3,985	4,000	**3,990**	1780	+	2210
4,000	4,015	**4,010**	1070	+	2940
4,015	4,045	**4,020**	1650	+	2370
4,045	4,080	**4,070**	1330	+	2740
4,080	4,095	**4,090**	1150	+	2940
4,095	4,110	**4,100**	2050	+	2050
4,110	4,135	**4,120**	1910	+	2210
4,135	4,155	**4,150**	1780	+	2370
4,155	4,165	**4,160**	1000	+	3160
4,165	4,175	**4,170**	1430	+	2740
4,175	4,190	**4,180**	1240	+	2940
4,190	4,210	**4,200**	1650	+	2550
4,210	4,225	**4,220**	0	+	4220
4,225	4,245	**4,230**	1070	+	3160
4,245	4,265	**4,260**	2050	+	2210
4,265	4,275	**4,270**	1330	+	2940
4,275	4,295	**4,280**	1540	+	2740
4,295	4,320	**4,310**	1150	+	3160
4,320	4,350	**4,330**	1780	+	2550
4,350	4,380	**4,370**	1430	+	2940
4,380	4,395	**4,390**	1650	+	2740
4,395	4,410	**4,400**	1000	+	3400

4,410	4,440	**4,420**	2050	+	2370
4,440	4,465	**4,460**	1910	+	2550
4,465	4,475	**4,470**	1070	+	3400
4,475	4,485	**4,480**	1540	+	2940
4,485	4,505	**4,490**	1330	+	3160
4,505	4,525	**4,520**	1780	+	2740
4,525	4,540	**4,530**	0	+	4530
4,540	4,565	**4,550**	1150	+	3400
4,565	4,585	**4,580**	2210	+	2370
4,585	4,595	**4,590**	1430	+	3160
4,595	4,620	**4,600**	2050	+	2550
4,620	4,645	**4,640**	1240	+	3400
4,645	4,675	**4,650**	1000	+	3650
4,675	4,710	**4,700**	1540	+	3160
4,710	4,725	**4,720**	1070	+	3650
4,725	4,735	**4,730**	1330	+	3400
4,735	4,750	**4,740**	2370	+	2370
4,750	4,775	**4,760**	2210	+	2550
4,775	4,795	**4,790**	2050	+	2740
4,795	4,805	**4,800**	1150	+	3650
4,805	4,820	**4,810**	1650	+	3160
4,820	4,840	**4,830**	1430	+	3400
4,840	4,860	**4,850**	1910	+	2940
4,860	4,880	**4,870**	0	+	4870
4,880	4,905	**4,890**	1240	+	3650
4,905	4,930	**4,920**	1000	+	3920
4,930	4,945	**4,940**	1540	+	3400
4,945	4,965	**4,950**	2210	+	2740
4,965	4,985	**4,980**	1330	+	3650
4,985	5,020	**4,990**	1070	+	3920
5,020	5,060	**5,050**	1650	+	3400
5,060	5,075	**5,070**	1150	+	3920
5,075	5,090	**5,080**	1430	+	3650
5,090	5,105	**5,100**	2550	+	2550
5,105	5,130	**5,110**	2370	+	2740
5,130	5,155	**5,150**	2210	+	2940
5,155	5,170	**5,160**	1240	+	3920
5,170	5,185	**5,180**	1780	+	3400
5,185	5,200	**5,190**	1540	+	3650
5,200	5,215	**5,210**	2050	+	3160
5,215	5,225	**5,220**	1000	+	4220
5,225	5,240	**5,230**	0	+	5230
5,240	5,270	**5,250**	1330	+	3920
5,270	5,295	**5,290**	1070	+	4220
5,295	5,305	**5,300**	1650	+	3650
5,305	5,330	**5,310**	1910	+	3400
5,330	5,360	**5,350**	1430	+	3920
5,360	5,400	**5,370**	1150	+	4220
5,400	5,440	**5,430**	1780	+	3650
5,440	5,455	**5,450**	2050	+	3400
5,455	5,470	**5,460**	1240	+	4220
5,470	5,485	**5,480**	2740	+	2740
5,485	5,510	**5,490**	2550	+	2940
5,510	5,540	**5,530**	1000	+	4530
5,540	5,555	**5,550**	1330	+	4220
5,555	5,565	**5,560**	1910	+	3650
5,565	5,585	**5,570**	1650	+	3920
5,585	5,605	**5,600**	1070	+	4530
5,605	5,615	**5,610**	2210	+	3400
5,615	5,635	**5,620**	0	+	5620
5,635	5,665	**5,650**	1430	+	4220
5,665	5,690	**5,680**	1150	+	4530
5,690	5,705	**5,700**	1780	+	3920
5,705	5,735	**5,710**	2550	+	3160
5,735	5,765	**5,760**	1540	+	4220
5,765	5,800	**5,770**	1240	+	4530
5,800	5,845	**5,830**	1910	+	3920
5,845	5,865	**5,860**	1330	+	4530
5,865	5,875	**5,870**	1000	+	4870
5,875	5,890	**5,880**	2940	+	2940
5,890	5,920	**5,900**	2740	+	3160
5,920	5,945	**5,940**	1070	+	4870
5,945	5,955	**5,950**	2550	+	3400
5,955	5,965	**5,960**	1430	+	4530
5,965	5,985	**5,970**	2050	+	3920
5,985	6,010	**6,000**	1780	+	4220
6,010	6,030	**6,020**	1150	+	4870
6,030	6,055	**6,040**	0	+	6040
6,055	6,085	**6,070**	1540	+	4530
6,085	6,105	**6,100**	2940	+	3160
6,105	6,120	**6,110**	1240	+	4870
6,120	6,135	**6,130**	1910	+	4220
6,135	6,160	**6,140**	2740	+	3400
6,160	6,190	**6,180**	1650	+	4530
6,190	6,215	**6,200**	1330	+	4870
6,215	6,250	**6,230**	1000	+	5230
6,250	6,280	**6,270**	2050	+	4220
6,280	6,295	**6,290**	2370	+	3920
6,295	6,305	**6,300**	1070	+	5230
6,305	6,315	**6,310**	1780	+	4530
6,315	6,330	**6,320**	3160	+	3160
6,330	6,360	**6,340**	2940	+	3400
6,360	6,385	**6,380**	1150	+	5230
6,385	6,400	**6,390**	2740	+	3650
6,400	6,420	**6,410**	1540	+	4870
6,420	6,435	**6,430**	2210	+	4220
6,435	6,455	**6,440**	1910	+	4530
6,455	6,480	**6,470**	1240	+	5230
6,480	6,505	**6,490**	0	+	6490
6,505	6,540	**6,520**	1650	+	4870
6,540	6,570	**6,560**	1330	+	5230
6,570	6,585	**6,580**	2050	+	4530
6,585	6,605	**6,590**	2370	+	4220
6,605	6,635	**6,620**	1000	+	5620
6,635	6,655	**6,650**	1780	+	4870
6,655	6,675	**6,660**	1430	+	5230
6,675	6,715	**6,690**	1070	+	5620
6,715	6,755	**6,740**	2210	+	4530
6,755	6,775	**6,770**	1150	+	5620
6,775	6,790	**6,780**	1910	+	4870
6,790	6,805	**6,800**	3400	+	3400
6,805	6,835	**6,810**	3160	+	3650
6,835	6,870	**6,860**	1240	+	5620
6,870	6,890	**6,880**	1650	+	5230
6,890	6,910	**6,900**	2370	+	4530
6,910	6,935	**6,920**	2050	+	4870
6,935	6,955	**6,950**	1330	+	5620
6,955	6,970	**6,960**	2740	+	4220
6,970	6,995	**6,980**	0	+	6980
6,995	7,025	**7,010**	1780	+	5230
7,025	7,045	**7,040**	1000	+	6040
7,045	7,065	**7,050**	1430	+	5620
7,065	7,095	**7,080**	2210	+	4870
7,095	7,125	**7,110**	1070	+	6040
7,125	7,150	**7,140**	1910	+	5230
7,150	7,175	**7,160**	1540	+	5620
7,175	7,215	**7,190**	1150	+	6040
7,215	7,255	**7,240**	2370	+	4870
7,255	7,275	**7,270**	1650	+	5620
7,275	7,290	**7,280**	1240	+	6040
7,290	7,310	**7,300**	3650	+	3650
7,310	7,345	**7,320**	3400	+	3920
7,345	7,375	**7,370**	1330	+	6040
7,375	7,390	**7,380**	3160	+	4220
7,390	7,410	**7,400**	1780	+	5620
7,410	7,430	**7,420**	2550	+	4870
7,430	7,455	**7,440**	2210	+	5230
7,455	7,480	**7,470**	1430	+	6040
7,480	7,495	**7,490**	1000	+	6490
7,495	7,515	**7,500**	0	+	7500
7,515	7,545	**7,530**	1910	+	5620
7,545	7,565	**7,560**	1070	+	6490
7,565	7,575	**7,570**	3650	+	3920
7,575	7,590	**7,580**	1540	+	6040
7,590	7,605	**7,600**	2370	+	5230
7,605	7,615	**7,610**	2740	+	4870
7,615	7,630	**7,620**	3400	+	4220

7,630	7,655	**7,640**	1150	+	6490
7,655	7,680	**7,670**	2050	+	5620
7,680	7,710	**7,690**	1650	+	6040
7,710	7,755	**7,730**	1240	+	6490
7,755	7,795	**7,780**	2550	+	5230
7,795	7,815	**7,810**	2940	+	4870
7,815	7,825	**7,820**	1330	+	6490
7,825	7,835	**7,830**	2210	+	5620
7,835	7,855	**7,840**	3920	+	3920
7,855	7,895	**7,870**	3650	+	4220
7,895	7,925	**7,920**	1430	+	6490
7,925	7,940	**7,930**	3400	+	4530
7,940	7,960	**7,950**	1910	+	6040
7,960	7,975	**7,970**	2740	+	5230
7,975	7,985	**7,980**	1000	+	6980
7,985	8,010	**7,990**	2370	+	5620
8,010	8,040	**8,030**	1540	+	6490
8,040	8,055	**8,050**	1070	+	6980
8,055	8,075	**8,060**	0	+	8060
8,075	8,110	**8,090**	2050	+	6040
8,110	8,135	**8,130**	1150	+	6980
8,135	8,155	**8,140**	1650	+	6490
8,155	8,175	**8,170**	2550	+	5620
8,175	8,200	**8,180**	3650	+	4530
8,200	8,235	**8,220**	1240	+	6980
8,235	8,260	**8,250**	2210	+	6040
8,260	8,290	**8,270**	1780	+	6490
8,290	8,335	**8,310**	1330	+	6980
8,335	8,375	**8,360**	2740	+	5620
8,375	8,395	**8,390**	3160	+	5230
8,395	8,405	**8,400**	1910	+	6490
8,405	8,425	**8,410**	1430	+	6980
8,425	8,445	**8,440**	4220	+	4220
8,445	8,475	**8,450**	3920	+	4530
8,475	8,510	**8,500**	1000	+	7500
8,510	8,530	**8,520**	1540	+	6980
8,530	8,550	**8,540**	2050	+	6490
8,550	8,565	**8,560**	2940	+	5620
8,565	8,580	**8,570**	1070	+	7500
8,580	8,610	**8,590**	2550	+	6040
8,610	8,640	**8,630**	1650	+	6980
8,640	8,655	**8,650**	1150	+	7500
8,655	8,680	**8,660**	0	+	8660
8,680	8,720	**8,700**	2210	+	6490
8,720	8,745	**8,740**	1240	+	7500
8,745	8,755	**8,750**	4220	+	4530
8,755	8,770	**8,760**	1780	+	6980
8,770	8,785	**8,780**	2740	+	6040
8,785	8,810	**8,790**	3920	+	4870
8,810	8,845	**8,830**	1330	+	7500
8,845	8,870	**8,860**	2370	+	6490
8,870	8,885	**8,880**	3650	+	5230
8,885	8,910	**8,890**	1910	+	6980
8,910	8,955	**8,930**	1430	+	7500
8,955	9,000	**8,980**	2940	+	6040
9,000	9,025	**9,020**	3400	+	5620
9,025	9,035	**9,030**	2050	+	6980
9,035	9,050	**9,040**	1540	+	7500
9,050	9,075	**9,060**	1000	+	8060
9,075	9,110	**9,090**	4220	+	4870
9,110	9,140	**9,130**	1070	+	8060
9,140	9,170	**9,150**	1650	+	7500
9,170	9,195	**9,190**	2210	+	6980
9,195	9,205	**9,200**	3160	+	6040
9,205	9,220	**9,210**	1150	+	8060
9,220	9,250	**9,230**	2740	+	6490
9,250	9,275	**9,270**	3650	+	5620
9,275	9,290	**9,280**	1780	+	7500
9,290	9,305	**9,300**	1240	+	8060
9,305	9,330	**9,310**	0	+	9310
9,330	9,370	**9,350**	2370	+	6980
9,370	9,395	**9,390**	1330	+	8060
9,395	9,405	**9,400**	4530	+	4870
9,405	9,420	**9,410**	1910	+	7500
9,420	9,435	**9,430**	2940	+	6490
9,435	9,445	**9,440**	3400	+	6040
9,445	9,470	**9,450**	4220	+	5230
9,470	9,510	**9,490**	1430	+	8060
9,510	9,535	**9,530**	2550	+	6980
9,535	9,545	**9,540**	3920	+	5620
9,545	9,575	**9,550**	2050	+	7500
9,575	9,625	**9,600**	1540	+	8060
9,625	9,655	**9,650**	3160	+	6490
9,655	9,675	**9,660**	1000	+	8660
9,675	9,700	**9,690**	3650	+	6040
9,700	9,715	**9,710**	1650	+	8060
9,715	9,725	**9,720**	2740	+	6980
9,725	9,735	**9,730**	1070	+	8660
9,735	9,750	**9,740**	4870	+	4870
9,750	9,785	**9,760**	4530	+	5230
9,785	9,825	**9,810**	1150	+	8660
9,825	9,855	**9,840**	1780	+	8060
9,855	9,880	**9,870**	2370	+	7500
9,880	9,895	**9,890**	3400	+	6490
9,895	9,910	**9,900**	1240	+	8660
9,910	9,940	**9,920**	2940	+	6980
9,940	9,965	**9,960**	3920	+	6040
9,965	9,980	**9,970**	1910	+	8060
9,980	9,995	**9,990**	1330	+	8660
9,995	10,025	**10,000**	0	+	10000
10,025	10,070	**10,050**	2550	+	7500
10,070	10,095	**10,090**	1430	+	8660
10,095	10,105	**10,100**	4870	+	5230
10,105	10,125	**10,110**	2050	+	8060
10,125	10,145	**10,140**	3160	+	6980
10,145	10,175	**10,150**	4530	+	5620
10,175	10,220	**10,200**	1540	+	8660
10,220	10,250	**10,240**	2740	+	7500
10,250	10,265	**10,260**	4220	+	6040
10,265	10,290	**10,270**	2210	+	8060
10,290	10,345	**10,310**	1000	+	9310
10,345	10,395	**10,380**	1070	+	9310
10,395	10,420	**10,410**	3920	+	6490
10,420	10,435	**10,430**	2370	+	8060
10,435	10,450	**10,440**	1780	+	8660
10,450	10,475	**10,460**	1150	+	9310
10,475	10,520	**10,490**	4870	+	5620
10,520	10,560	**10,550**	1240	+	9310
10,560	10,590	**10,570**	1910	+	8660
10,590	10,620	**10,610**	2550	+	8060
10,620	10,635	**10,630**	3650	+	6980
10,635	10,650	**10,640**	1330	+	9310
10,650	10,680	**10,660**	3160	+	7500
10,680	10,705	**10,700**	0	+	10700
10,705	10,725	**10,710**	2050	+	8660
10,725	10,770	**10,740**	1430	+	9310
10,770	10,825	**10,800**	2740	+	8060
10,825	10,860	**10,850**	1540	+	9310
10,860	10,885	**10,870**	2210	+	8660
10,885	10,905	**10,900**	3400	+	7500
10,905	10,935	**10,910**	4870	+	6040
10,935	10,980	**10,960**	1650	+	9310
10,980	11,010	**11,000**	1000	+	10000
11,010	11,025	**11,020**	4530	+	6490
11,025	11,050	**11,030**	2370	+	8660
11,050	11,080	**11,070**	1070	+	10000
11,080	11,120	**11,090**	1780	+	9310
11,120	11,175	**11,150**	1150	+	10000
11,175	11,205	**11,200**	4220	+	6980
11,205	11,215	**11,210**	2550	+	8660
11,215	11,230	**11,220**	1910	+	9310
11,230	11,255	**11,240**	1240	+	10000
11,255	11,300	**11,270**	5230	+	6040
11,300	11,345	**11,330**	1330	+	10000
11,345	11,380	**11,360**	2050	+	9310
11,380	11,410	**11,400**	2740	+	8660
11,410	11,425	**11,420**	3920	+	7500

11,425	11,445	**11,430**	1430	+	10000
11,445	11,480	**11,460**	3400	+	8060
11,480	11,505	**11,500**	0	+	11500
11,505	11,515	**11,510**	4530	+	6980
11,515	11,530	**11,520**	2210	+	9310
11,530	11,570	**11,540**	1540	+	10000
11,570	11,625	**11,600**	2940	+	8660
11,625	11,655	**11,650**	1650	+	10000
11,655	11,670	**11,660**	5620	+	6040
11,670	11,690	**11,680**	2370	+	9310
11,690	11,705	**11,700**	1000	+	10700
11,705	11,715	**11,710**	3650	+	8060
11,715	11,745	**11,720**	4220	+	7500
11,745	11,775	**11,770**	1070	+	10700
11,775	11,800	**11,780**	1780	+	10000
11,800	11,835	**11,820**	3160	+	8660
11,835	11,855	**11,850**	1150	+	10700
11,855	11,885	**11,860**	2550	+	9310
11,885	11,925	**11,910**	1910	+	10000
11,925	11,960	**11,940**	1240	+	10700
11,960	12,005	**11,980**	3920	+	8060
12,005	12,040	**12,030**	1330	+	10700
12,040	12,055	**12,050**	2050	+	10000
12,055	12,070	**12,060**	3400	+	8660
12,070	12,095	**12,080**	6040	+	6040
12,095	12,120	**12,110**	5620	+	6490
12,120	12,170	**12,130**	1430	+	10700
12,170	12,225	**12,210**	2210	+	10000
12,225	12,245	**12,240**	1540	+	10700
12,245	12,265	**12,250**	2940	+	9310
12,265	12,295	**12,280**	4220	+	8060
12,295	12,330	**12,310**	3650	+	8660
12,330	12,360	**12,350**	1650	+	10700
12,360	12,385	**12,370**	2370	+	10000
12,385	12,435	**12,400**	0	+	12400
12,435	12,475	**12,470**	3160	+	9310
12,475	12,490	**12,480**	1780	+	10700
12,490	12,515	**12,500**	1000	+	11500
12,515	12,540	**12,530**	6040	+	6490
12,540	12,560	**12,550**	2550	+	10000
12,560	12,575	**12,570**	1070	+	11500
12,575	12,585	**12,580**	3920	+	8660
12,585	12,595	**12,590**	4530	+	8060
12,595	12,605	**12,600**	5620	+	6980
12,605	12,630	**12,610**	1910	+	10700
12,630	12,680	**12,650**	1150	+	11500
12,680	12,720	**12,710**	3400	+	9310
12,720	12,735	**12,730**	5230	+	7500
12,735	12,745	**12,740**	1240	+	11500
12,745	12,790	**12,750**	2050	+	10700
12,790	12,855	**12,830**	1330	+	11500
12,855	12,895	**12,880**	4220	+	8660
12,895	12,920	**12,910**	2210	+	10700
12,920	12,935	**12,930**	1430	+	11500
12,935	12,950	**12,940**	2940	+	10000
12,950	12,970	**12,960**	3650	+	9310
12,970	13,000	**12,980**	6490	+	6490
13,000	13,030	**13,020**	6040	+	6980
13,030	13,055	**13,040**	1540	+	11500
13,055	13,095	**13,070**	2370	+	10700
13,095	13,135	**13,120**	5620	+	7500
13,135	13,155	**13,150**	1650	+	11500
13,155	13,175	**13,160**	3160	+	10000
13,175	13,210	**13,190**	4530	+	8660
13,210	13,240	**13,230**	3920	+	9310
13,240	13,265	**13,250**	2550	+	10700
13,265	13,285	**13,280**	1780	+	11500
13,285	13,295	**13,290**	5230	+	8060
13,295	13,350	**13,300**	0	+	13300
13,350	13,405	**13,400**	1000	+	12400
13,405	13,425	**13,410**	1910	+	11500
13,425	13,455	**13,440**	2740	+	10700
13,455	13,500	**13,470**	1070	+	12400
13,500	13,535	**13,530**	4220	+	9310
13,535	13,545	**13,540**	6040	+	7500
13,545	13,595	**13,550**	1150	+	12400
13,595	13,645	**13,640**	1240	+	12400
13,645	13,665	**13,650**	3650	+	10000
13,665	13,695	**13,680**	5620	+	8060
13,695	13,720	**13,710**	2210	+	11500
13,720	13,780	**13,730**	1330	+	12400
13,780	13,835	**13,830**	1430	+	12400
13,835	13,850	**13,840**	4530	+	9310
13,850	13,865	**13,860**	3160	+	10700
13,865	13,880	**13,870**	2370	+	11500
13,880	13,905	**13,890**	5230	+	8660
13,905	13,930	**13,920**	3920	+	10000
13,930	13,950	**13,940**	1540	+	12400
13,950	13,975	**13,960**	6980	+	6980
13,975	14,020	**13,990**	6490	+	7500
14,020	14,075	**14,050**	1650	+	12400
14,075	14,140	**14,100**	3400	+	10700
14,140	14,200	**14,180**	1780	+	12400
14,200	14,230	**14,220**	4220	+	10000
14,230	14,260	**14,240**	2740	+	11500
14,260	14,290	**14,280**	5620	+	8660
14,290	14,305	**14,300**	0	+	14300
14,305	14,330	**14,310**	1910	+	12400
14,330	14,360	**14,350**	3650	+	10700
14,360	14,405	**14,370**	1070	+	13300
14,405	14,445	**14,440**	2940	+	11500
14,445	14,465	**14,450**	1150	+	13300
14,465	14,505	**14,480**	6980	+	7500
14,505	14,535	**14,530**	4530	+	10000
14,535	14,545	**14,540**	1240	+	13300
14,545	14,580	**14,550**	6490	+	8060
14,580	14,615	**14,610**	2210	+	12400
14,615	14,625	**14,620**	3920	+	10700
14,625	14,645	**14,630**	1330	+	13300
14,645	14,680	**14,660**	3160	+	11500
14,680	14,715	**14,700**	6040	+	8660
14,715	14,750	**14,730**	1430	+	13300
14,750	14,805	**14,770**	2370	+	12400
14,805	14,855	**14,840**	1540	+	13300
14,855	14,885	**14,870**	4870	+	10000
14,885	14,910	**14,900**	3400	+	11500
14,910	14,925	**14,920**	4220	+	10700
14,925	14,940	**14,930**	5620	+	9310
14,940	14,975	**14,950**	1650	+	13300
14,975	15,020	**15,000**	7500	+	7500
15,020	15,060	**15,040**	6980	+	8060
15,060	15,110	**15,080**	1780	+	13300
15,110	15,145	**15,140**	2740	+	12400
15,145	15,180	**15,150**	3650	+	11500
15,180	15,220	**15,210**	1910	+	13300
15,220	15,265	**15,230**	4530	+	10700
15,265	15,320	**15,300**	1000	+	14300
15,320	15,345	**15,340**	2940	+	12400
15,345	15,360	**15,350**	2050	+	13300
15,360	15,385	**15,370**	1070	+	14300
15,385	15,410	**15,400**	0	+	15400
15,410	15,435	**15,420**	3920	+	11500
15,435	15,480	**15,450**	1150	+	14300
15,480	15,525	**15,510**	2210	+	13300
15,525	15,550	**15,540**	1240	+	14300
15,550	15,565	**15,560**	3160	+	12400
15,565	15,595	**15,570**	4870	+	10700
15,595	15,625	**15,620**	5620	+	10000
15,625	15,635	**15,630**	1330	+	14300
15,635	15,655	**15,640**	6980	+	8660
15,655	15,695	**15,670**	2370	+	13300
15,695	15,725	**15,720**	4220	+	11500
15,725	15,765	**15,730**	1430	+	14300
15,765	15,820	**15,800**	3400	+	12400
15,820	15,845	**15,840**	1540	+	14300
15,845	15,890	**15,850**	2550	+	13300
15,890	15,940	**15,930**	5230	+	10700

15,940	15,990	**15,950**	1650	+	14300
15,990	16,035	**16,030**	4530	+	11500
16,035	16,045	**16,040**	2740	+	13300
16,045	16,065	**16,050**	3650	+	12400
16,065	16,100	**16,080**	1780	+	14300
16,100	16,140	**16,120**	8060	+	8060
16,140	16,185	**16,160**	7500	+	8660
16,185	16,225	**16,210**	1910	+	14300
16,225	16,265	**16,240**	2940	+	13300
16,265	16,305	**16,290**	6980	+	9310
16,305	16,335	**16,320**	3920	+	12400
16,335	16,360	**16,350**	2050	+	14300
16,360	16,385	**16,370**	4870	+	11500
16,385	16,430	**16,400**	1000	+	15400
16,430	16,465	**16,460**	3160	+	13300
16,465	16,480	**16,470**	1070	+	15400
16,480	16,495	**16,490**	6490	+	10000
16,495	16,505	**16,500**	0	+	16500
16,505	16,530	**16,510**	2210	+	14300
16,530	16,585	**16,550**	1150	+	15400
16,585	16,630	**16,620**	4220	+	12400
16,630	16,655	**16,640**	1240	+	15400
16,655	16,685	**16,670**	2370	+	14300
16,685	16,710	**16,700**	3400	+	13300
16,710	16,725	**16,720**	8060	+	8660
16,725	16,735	**16,730**	1330	+	15400
16,735	16,775	**16,740**	6040	+	10700
16,775	16,820	**16,810**	7500	+	9310
16,820	16,840	**16,830**	1430	+	15400
16,840	16,890	**16,850**	2550	+	14300
16,890	16,935	**16,930**	4530	+	12400
16,935	16,945	**16,940**	1540	+	15400
16,945	16,965	**16,950**	3650	+	13300
16,965	17,010	**16,980**	6980	+	10000
17,010	17,045	**17,040**	2740	+	14300
17,045	17,085	**17,050**	1650	+	15400
17,085	17,150	**17,120**	5620	+	11500
17,150	17,185	**17,180**	1780	+	15400
17,185	17,205	**17,190**	6490	+	10700
17,205	17,230	**17,220**	3920	+	13300
17,230	17,255	**17,240**	2940	+	14300
17,255	17,290	**17,270**	4870	+	12400
17,290	17,315	**17,310**	1910	+	15400
17,315	17,345	**17,320**	8660	+	8660
17,345	17,410	**17,370**	8060	+	9310
17,410	17,455	**17,450**	2050	+	15400
17,455	17,480	**17,460**	3160	+	14300
17,480	17,510	**17,500**	1000	+	16500
17,510	17,530	**17,520**	4220	+	13300

17,530	17,555	**17,540**	6040	+	11500
17,555	17,590	**17,570**	1070	+	16500
17,590	17,620	**17,610**	2210	+	15400
17,620	17,640	**17,630**	5230	+	12400
17,640	17,665	**17,650**	1150	+	16500
17,665	17,690	**17,680**	6980	+	10700
17,690	17,720	**17,700**	3400	+	14300
17,720	17,755	**17,740**	1240	+	16500
17,755	17,785	**17,770**	2370	+	15400
17,785	17,815	**17,800**	0	+	17800
17,815	17,880	**17,830**	1330	+	16500
17,880	17,940	**17,930**	1430	+	16500
17,940	17,960	**17,950**	2550	+	15400
17,960	17,980	**17,970**	8660	+	9310
17,980	18,005	**17,990**	6490	+	11500
18,005	18,030	**18,020**	5620	+	12400
18,030	18,050	**18,040**	1540	+	16500
18,050	18,100	**18,060**	8060	+	10000
18,100	18,145	**18,140**	2740	+	15400
18,145	18,160	**18,150**	1650	+	16500
18,160	18,185	**18,170**	4870	+	13300
18,185	18,210	**18,200**	7500	+	10700
18,210	18,250	**18,220**	3920	+	14300
18,250	18,310	**18,280**	1780	+	16500
18,310	18,375	**18,340**	2940	+	15400
18,375	18,425	**18,410**	1910	+	16500
18,425	18,460	**18,440**	6040	+	12400
18,460	18,500	**18,480**	6980	+	11500
18,500	18,525	**18,520**	4220	+	14300
18,525	18,540	**18,530**	5230	+	13300
18,540	18,555	**18,550**	2050	+	16500
18,555	18,590	**18,560**	3160	+	15400
18,590	18,640	**18,620**	9310	+	9310
18,640	18,685	**18,660**	8660	+	10000
18,685	18,735	**18,710**	2210	+	16500
18,735	18,780	**18,760**	8060	+	10700
18,780	18,815	**18,800**	1000	+	17800
18,815	18,850	**18,830**	4530	+	14300
18,850	18,880	**18,870**	1070	+	17800
18,880	18,905	**18,890**	6490	+	12400
18,905	18,935	**18,920**	5620	+	13300
18,935	18,975	**18,950**	1150	+	17800
18,975	19,020	**19,000**	7500	+	11500
19,020	19,045	**19,040**	1240	+	17800
19,045	19,075	**19,050**	2550	+	16500
19,075	19,115	**19,100**	0	+	19100
19,115	19,150	**19,130**	1330	+	17800
19,150	19,200	**19,170**	4870	+	14300
19,200	19,235	**19,230**	1430	+	17800

19,235	19,275	**19,240**	2740	+	16500
19,275	19,315	**19,310**	9310	+	10000
19,315	19,330	**19,320**	3920	+	15400
19,330	19,350	**19,340**	1540	+	17800
19,350	19,370	**19,360**	8660	+	10700
19,370	19,410	**19,380**	6980	+	12400
19,410	19,445	**19,440**	2940	+	16500
19,445	19,490	**19,450**	1650	+	17800
19,490	19,545	**19,530**	5230	+	14300
19,545	19,570	**19,560**	8060	+	11500
19,570	19,600	**19,580**	1780	+	17800
19,600	19,640	**19,620**	4220	+	15400
19,640	19,685	**19,660**	3160	+	16500
19,685	19,750	**19,710**	1910	+	17800
19,750	19,820	**19,790**	6490	+	13300
19,820	19,875	**19,850**	2050	+	17800
19,875	19,910	**19,900**	3400	+	16500
19,910	19,925	**19,920**	5620	+	14300
19,925	19,965	**19,930**	4530	+	15400
19,965	20,005	**20,000**	10000	+	10000
20,005	20,055	**20,010**	2210	+	17800
20,055	20,125	**20,100**	1000	+	19100
20,125	20,155	**20,150**	3650	+	16500
20,155	20,165	**20,160**	8660	+	11500
20,165	20,210	**20,170**	1070	+	19100
20,210	20,260	**20,250**	1150	+	19100
20,260	20,275	**20,270**	4870	+	15400
20,275	20,310	**20,280**	6980	+	13300
20,310	20,345	**20,340**	1240	+	19100
20,345	20,385	**20,350**	2550	+	17800
20,385	20,425	**20,420**	3920	+	16500
20,425	20,445	**20,430**	1330	+	19100
20,445	20,480	**20,460**	8060	+	12400
20,480	20,515	**20,500**	0	+	20500
20,515	20,535	**20,530**	1430	+	19100
20,535	20,585	**20,540**	2740	+	17800
20,585	20,635	**20,630**	5230	+	15400
20,635	20,670	**20,640**	1540	+	19100
20,670	20,710	**20,700**	10000	+	10700
20,710	20,730	**20,720**	4220	+	16500
20,730	20,745	**20,740**	2940	+	17800
20,745	20,770	**20,750**	1650	+	19100
20,770	20,795	**20,790**	6490	+	14300
20,795	20,805	**20,800**	7500	+	13300
20,805	20,845	**20,810**	9310	+	11500
20,845	20,920	**20,880**	1780	+	19100
20,920	20,985	**20,960**	3160	+	17800
20,985	21,015	**21,010**	1910	+	19100
21,015	21,025	**21,020**	5620	+	15400

21,025	21,045	**21,030**	4530	+	16500
21,045	21,105	**21,060**	8660	+	12400
21,105	21,175	**21,150**	2050	+	19100
21,175	21,240	**21,200**	3400	+	17800
21,240	21,295	**21,280**	6980	+	14300
21,295	21,335	**21,310**	2210	+	19100
21,335	21,365	**21,360**	8060	+	13300
21,365	21,385	**21,370**	4870	+	16500
21,385	21,420	**21,400**	10700	+	10700
21,420	21,445	**21,440**	6040	+	15400
21,445	21,460	**21,450**	3650	+	17800
21,460	21,485	**21,470**	2370	+	19100
21,485	21,535	**21,500**	1000	+	20500
21,535	21,610	**21,570**	1070	+	20500
21,610	21,680	**21,650**	1150	+	20500
21,680	21,715	**21,710**	9310	+	12400
21,715	21,725	**21,720**	3920	+	17800
21,725	21,735	**21,730**	5230	+	16500
21,735	21,770	**21,740**	1240	+	20500
21,770	21,815	**21,800**	7500	+	14300
21,815	21,835	**21,830**	1330	+	20500
21,835	21,865	**21,840**	2740	+	19100
21,865	21,910	**21,890**	6490	+	15400
21,910	21,945	**21,930**	1430	+	20500
21,945	21,990	**21,960**	8660	+	13300
21,990	22,030	**22,020**	4220	+	17800
22,030	22,070	**22,040**	1540	+	20500
22,070	22,110	**22,100**	0	+	22100
22,110	22,135	**22,120**	5620	+	16500
22,135	22,175	**22,150**	1650	+	20500
22,175	22,230	**22,200**	10700	+	11500
22,230	22,270	**22,260**	3160	+	19100
22,270	22,305	**22,280**	1780	+	20500
22,305	22,345	**22,330**	4530	+	17800
22,345	22,370	**22,360**	8060	+	14300
22,370	22,390	**22,380**	6980	+	15400
22,390	22,405	**22,400**	10000	+	12400
22,405	22,455	**22,410**	1910	+	20500
22,455	22,520	**22,500**	3400	+	19100
22,520	22,545	**22,540**	6040	+	16500
22,545	22,580	**22,550**	2050	+	20500
22,580	22,640	**22,610**	9310	+	13300
22,640	22,690	**22,670**	4870	+	17800
22,690	22,730	**22,710**	2210	+	20500
22,730	22,810	**22,750**	3650	+	19100
22,810	22,885	**22,870**	2370	+	20500
22,885	22,930	**22,900**	7500	+	15400
22,930	22,975	**22,960**	8660	+	14300
22,975	22,995	**22,990**	6490	+	16500

22,995	23,010	**23,000**	11500	+	11500
23,010	23,025	**23,020**	3920	+	19100
23,025	23,040	**23,030**	5230	+	17800
23,040	23,075	**23,050**	2550	+	20500
23,075	23,135	**23,100**	1000	+	22100
23,135	23,205	**23,170**	1070	+	22100
23,205	23,245	**23,240**	2740	+	20500
23,245	23,275	**23,250**	1150	+	22100
23,275	23,310	**23,300**	10000	+	13300
23,310	23,330	**23,320**	4220	+	19100
23,330	23,380	**23,340**	1240	+	22100
23,380	23,425	**23,420**	5620	+	17800
23,425	23,435	**23,430**	1330	+	22100
23,435	23,450	**23,440**	2940	+	20500
23,450	23,470	**23,460**	8060	+	15400
23,470	23,505	**23,480**	6980	+	16500
23,505	23,570	**23,530**	1430	+	22100
23,570	23,620	**23,610**	9310	+	14300
23,620	23,635	**23,630**	4530	+	19100
23,635	23,650	**23,640**	1540	+	22100
23,650	23,680	**23,660**	3160	+	20500
23,680	23,725	**23,700**	0	+	23700
23,725	23,795	**23,750**	1650	+	22100
23,795	23,860	**23,840**	6040	+	17800
23,860	23,890	**23,880**	1780	+	22100
23,890	23,935	**23,900**	3400	+	20500
23,935	23,985	**23,970**	4870	+	19100
23,985	24,005	**24,000**	7500	+	16500
24,005	24,035	**24,010**	1910	+	22100
24,035	24,105	**24,060**	8660	+	15400
24,105	24,220	**24,150**	2050	+	22100
24,220	24,295	**24,290**	6490	+	17800
24,295	24,305	**24,300**	10000	+	14300
24,305	24,320	**24,310**	2210	+	22100
24,320	24,375	**24,330**	5230	+	19100
24,375	24,445	**24,420**	3920	+	20500
24,445	24,515	**24,470**	2370	+	22100
24,515	24,605	**24,560**	8060	+	16500
24,605	24,675	**24,650**	2550	+	22100
24,675	24,705	**24,700**	1000	+	23700
24,705	24,715	**24,710**	9310	+	15400
24,715	24,745	**24,720**	4220	+	20500
24,745	24,775	**24,770**	1070	+	23700
24,775	24,790	**24,780**	6980	+	17800
24,790	24,820	**24,800**	11500	+	13300
24,820	24,845	**24,840**	2740	+	22100
24,845	24,895	**24,850**	1150	+	23700
24,895	24,970	**24,940**	1240	+	23700
24,970	25,015	**25,000**	10700	+	14300

25,015	25,035	**25,030**	1330	+	23700
25,035	25,085	**25,040**	2940	+	22100
25,085	25,135	**25,130**	1430	+	23700
25,135	25,150	**25,140**	6040	+	19100
25,150	25,200	**25,160**	8660	+	16500
25,200	25,250	**25,240**	1540	+	23700
25,250	25,280	**25,260**	3160	+	22100
25,280	25,325	**25,300**	7500	+	17800
25,325	25,360	**25,350**	1650	+	23700
25,360	25,385	**25,370**	4870	+	20500
25,385	25,440	**25,400**	10000	+	15400
25,440	25,490	**25,480**	1780	+	23700
25,490	25,545	**25,500**	0	+	25500
25,545	25,600	**25,590**	6490	+	19100
25,600	25,655	**25,610**	1910	+	23700
25,655	25,715	**25,700**	12400	+	13300
25,715	25,740	**25,730**	5230	+	20500
25,740	25,775	**25,750**	2050	+	23700
25,775	25,805	**25,800**	11500	+	14300
25,805	25,835	**25,810**	9310	+	16500
25,835	25,885	**25,860**	8060	+	17800
25,885	25,965	**25,910**	2210	+	23700
25,965	26,045	**26,020**	3920	+	22100
26,045	26,075	**26,070**	2370	+	23700
26,075	26,090	**26,080**	6980	+	19100
26,090	26,110	**26,100**	10700	+	15400
26,110	26,185	**26,120**	5620	+	20500
26,185	26,285	**26,250**	2550	+	23700
26,285	26,380	**26,320**	4220	+	22100
26,380	26,450	**26,440**	2740	+	23700
26,450	26,480	**26,460**	8660	+	17800
26,480	26,520	**26,500**	1000	+	25500
26,520	26,555	**26,540**	6040	+	20500
26,555	26,585	**26,570**	1070	+	25500
26,585	26,615	**26,600**	7500	+	19100
26,615	26,635	**26,630**	4530	+	22100
26,635	26,645	**26,640**	2940	+	23700
26,645	26,675	**26,650**	1150	+	25500
26,675	26,720	**26,700**	12400	+	14300
26,720	26,785	**26,740**	1240	+	25500
26,785	26,845	**26,830**	1330	+	25500
26,845	26,880	**26,860**	3160	+	23700
26,880	26,915	**26,900**	11500	+	15400
26,915	26,950	**26,930**	1430	+	25500
26,950	26,980	**26,970**	4870	+	22100
26,980	27,015	**26,990**	6490	+	20500
27,015	27,070	**27,040**	1540	+	25500
27,070	27,105	**27,100**	3400	+	23700
27,105	27,130	**27,110**	9310	+	17800

27,130	27,155	**27,150**	1650	+	25500
27,155	27,180	**27,160**	8060	+	19100
27,180	27,240	**27,200**	10700	+	16500
27,240	27,305	**27,280**	1780	+	25500
27,305	27,340	**27,330**	5230	+	22100
27,340	27,375	**27,350**	3650	+	23700
27,375	27,405	**27,400**	0	+	27400
27,405	27,445	**27,410**	1910	+	25500
27,445	27,515	**27,480**	6980	+	20500
27,515	27,575	**27,550**	2050	+	25500
27,575	27,610	**27,600**	13300	+	14300
27,610	27,665	**27,620**	3920	+	23700
27,665	27,715	**27,710**	2210	+	25500
27,715	27,740	**27,720**	5620	+	22100
27,740	27,780	**27,760**	8660	+	19100
27,780	27,835	**27,800**	10000	+	17800
27,835	27,895	**27,870**	2370	+	25500
27,895	27,960	**27,920**	4220	+	23700
27,960	28,025	**28,000**	7500	+	20500
28,025	28,095	**28,050**	2550	+	25500
28,095	28,185	**28,140**	6040	+	22100
28,185	28,235	**28,230**	4530	+	23700
28,235	28,320	**28,240**	2740	+	25500
28,320	28,405	**28,400**	1000	+	27400
28,405	28,425	**28,410**	9310	+	19100
28,425	28,455	**28,440**	2940	+	25500
28,455	28,485	**28,470**	1070	+	27400
28,485	28,525	**28,500**	10700	+	17800
28,525	28,555	**28,550**	1150	+	27400
28,555	28,565	**28,560**	8060	+	20500
28,565	28,580	**28,570**	4870	+	23700
28,580	28,595	**28,590**	6490	+	22100
28,595	28,620	**28,600**	14300	+	14300
28,620	28,650	**28,640**	1240	+	27400
28,650	28,680	**28,660**	3160	+	25500
28,680	28,715	**28,700**	13300	+	15400
28,715	28,780	**28,730**	1330	+	27400
28,780	28,865	**28,830**	1430	+	27400
28,865	28,915	**28,900**	3400	+	25500
28,915	28,935	**28,930**	5230	+	23700
28,935	28,995	**28,940**	1540	+	27400
28,995	29,065	**29,050**	1650	+	27400
29,065	29,090	**29,080**	6980	+	22100
29,090	29,125	**29,100**	10000	+	19100
29,125	29,155	**29,150**	3650	+	25500
29,155	29,170	**29,160**	8660	+	20500
29,170	29,240	**29,180**	1780	+	27400
29,240	29,305	**29,300**	11500	+	17800
29,305	29,315	**29,310**	1910	+	27400
29,315	29,360	**29,320**	5620	+	23700
29,360	29,410	**29,400**	0	+	29400
29,410	29,435	**29,420**	3920	+	25500
29,435	29,525	**29,450**	2050	+	27400
29,525	29,605	**29,600**	7500	+	22100
29,605	29,655	**29,610**	2210	+	27400
29,655	29,710	**29,700**	14300	+	15400
29,710	29,730	**29,720**	4220	+	25500
29,730	29,755	**29,740**	6040	+	23700
29,755	29,785	**29,770**	2370	+	27400
29,785	29,805	**29,800**	10700	+	19100
29,805	29,880	**29,810**	9310	+	20500
29,880	29,990	**29,950**	2550	+	27400
29,990	30,085	**30,030**	4530	+	25500
30,085	30,150	**30,140**	2740	+	27400
30,150	30,175	**30,160**	8060	+	22100
30,175	30,195	**30,190**	6490	+	23700
30,195	30,270	**30,200**	12400	+	17800
30,270	30,355	**30,340**	2940	+	27400
30,355	30,385	**30,370**	4870	+	25500
30,385	30,435	**30,400**	1000	+	29400
30,435	30,485	**30,470**	1070	+	29400
30,485	30,525	**30,500**	10000	+	20500
30,525	30,555	**30,550**	1150	+	29400
30,555	30,580	**30,560**	3160	+	27400
30,580	30,620	**30,600**	11500	+	19100
30,620	30,660	**30,640**	1240	+	29400
30,660	30,705	**30,680**	6980	+	23700
30,705	30,745	**30,730**	1330	+	29400
30,745	30,780	**30,760**	8660	+	22100
30,780	30,815	**30,800**	3400	+	27400
30,815	30,885	**30,830**	1430	+	29400
30,885	30,995	**30,940**	1540	+	29400
30,995	31,075	**31,050**	1650	+	29400
31,075	31,110	**31,100**	13300	+	17800
31,110	31,150	**31,120**	5620	+	25500
31,150	31,190	**31,180**	1780	+	29400
31,190	31,255	**31,200**	7500	+	23700
31,255	31,315	**31,310**	1910	+	29400
31,315	31,365	**31,320**	3920	+	27400
31,365	31,430	**31,410**	9310	+	22100
31,430	31,475	**31,450**	2050	+	29400
31,475	31,520	**31,500**	12400	+	19100
31,520	31,570	**31,540**	6040	+	25500
31,570	31,605	**31,600**	0	+	31600
31,605	31,615	**31,610**	2210	+	29400
31,615	31,690	**31,620**	4220	+	27400
31,690	31,765	**31,760**	8060	+	23700
31,765	31,835	**31,770**	2370	+	29400
31,835	31,915	**31,900**	15400	+	16500
31,915	31,940	**31,930**	4530	+	27400
31,940	31,970	**31,950**	2550	+	29400
31,970	31,995	**31,990**	6490	+	25500
31,995	32,050	**32,000**	11500	+	20500
32,050	32,120	**32,100**	10000	+	22100
32,120	32,205	**32,140**	2740	+	29400
32,205	32,305	**32,270**	4870	+	27400
32,305	32,350	**32,340**	2940	+	29400
32,350	32,380	**32,360**	8660	+	23700
32,380	32,440	**32,400**	13300	+	19100
32,440	32,520	**32,480**	6980	+	25500
32,520	32,580	**32,560**	3160	+	29400
32,580	32,615	**32,600**	1000	+	31600
32,615	32,650	**32,630**	5230	+	27400
32,650	32,710	**32,670**	1070	+	31600
32,710	32,775	**32,750**	1150	+	31600
32,775	32,820	**32,800**	3400	+	29400
32,820	32,870	**32,840**	1240	+	31600
32,870	32,915	**32,900**	12400	+	20500
32,915	32,965	**32,930**	1330	+	31600
32,965	33,005	**33,000**	7500	+	25500
33,005	33,015	**33,010**	9310	+	23700
33,015	33,025	**33,020**	5620	+	27400
33,025	33,040	**33,030**	1430	+	31600
33,040	33,095	**33,050**	3650	+	29400
33,095	33,170	**33,140**	1540	+	31600
33,170	33,225	**33,200**	15400	+	17800
33,225	33,285	**33,250**	1650	+	31600
33,285	33,350	**33,320**	3920	+	29400
33,350	33,390	**33,380**	1780	+	31600
33,390	33,420	**33,400**	14300	+	19100
33,420	33,475	**33,440**	6040	+	27400
33,475	33,535	**33,510**	1910	+	31600
33,535	33,580	**33,560**	8060	+	25500
33,580	33,610	**33,600**	11500	+	22100
33,610	33,635	**33,620**	4220	+	29400
33,635	33,675	**33,650**	2050	+	31600
33,675	33,750	**33,700**	10000	+	23700
33,750	33,805	**33,800**	13300	+	20500
33,805	33,850	**33,810**	2210	+	31600
33,850	33,910	**33,890**	6490	+	27400
33,910	33,950	**33,930**	4530	+	29400
33,950	33,985	**33,970**	2370	+	31600
33,985	34,075	**34,000**	0	+	34000
34,075	34,155	**34,150**	2550	+	31600
34,155	34,215	**34,160**	8660	+	25500
34,215	34,285	**34,270**	4870	+	29400
34,285	34,320	**34,300**	16500	+	17800

34,320	34,360	**34,340**	2740	+	31600
34,360	34,390	**34,380**	6980	+	27400
34,390	34,450	**34,400**	10700	+	23700
34,450	34,520	**34,500**	12400	+	22100
34,520	34,585	**34,540**	2940	+	31600
34,585	34,695	**34,630**	5230	+	29400
34,695	34,780	**34,760**	3160	+	31600
34,780	34,805	**34,800**	14300	+	20500
34,805	34,855	**34,810**	9310	+	25500
34,855	34,950	**34,900**	7500	+	27400
34,950	35,010	**35,000**	1000	+	34000
35,010	35,045	**35,020**	5620	+	29400
35,045	35,110	**35,070**	1070	+	34000
35,110	35,175	**35,150**	1150	+	34000
35,175	35,220	**35,200**	11500	+	23700
35,220	35,245	**35,240**	1240	+	34000
35,245	35,290	**35,250**	3650	+	31600
35,290	35,365	**35,330**	1330	+	34000
35,365	35,415	**35,400**	13300	+	22100
35,415	35,435	**35,430**	1430	+	34000
35,435	35,450	**35,440**	6040	+	29400
35,450	35,480	**35,460**	8060	+	27400
35,480	35,510	**35,500**	10000	+	25500
35,510	35,530	**35,520**	3920	+	31600
35,530	35,570	**35,540**	1540	+	34000
35,570	35,625	**35,600**	16500	+	19100
35,625	35,715	**35,650**	1650	+	34000
35,715	35,800	**35,780**	1780	+	34000
35,800	35,855	**35,820**	4220	+	31600
35,855	35,895	**35,890**	6490	+	29400
35,895	35,905	**35,900**	15400	+	20500
35,905	35,980	**35,910**	1910	+	34000
35,980	36,055	**36,050**	2050	+	34000
36,055	36,080	**36,060**	8660	+	27400
36,080	36,115	**36,100**	12400	+	23700
36,115	36,165	**36,130**	4530	+	31600
36,165	36,205	**36,200**	10700	+	25500
36,205	36,290	**36,210**	2210	+	34000
36,290	36,375	**36,370**	2370	+	34000
36,375	36,390	**36,380**	6980	+	29400
36,390	36,435	**36,400**	14300	+	22100
36,435	36,485	**36,470**	4870	+	31600
36,485	36,525	**36,500**	0	+	36500
36,525	36,630	**36,550**	2550	+	34000
36,630	36,725	**36,710**	9310	+	27400
36,725	36,785	**36,740**	2740	+	34000
36,785	36,865	**36,830**	5230	+	31600
36,865	36,920	**36,900**	7500	+	29400
36,920	36,970	**36,940**	2940	+	34000

36,970	37,080	**37,000**	11500	+	25500
37,080	37,190	**37,160**	3160	+	34000
37,190	37,310	**37,220**	5620	+	31600
37,310	37,430	**37,400**	3400	+	34000
37,430	37,480	**37,460**	8060	+	29400
37,480	37,535	**37,500**	1000	+	36500
37,535	37,605	**37,570**	1070	+	36500
37,605	37,645	**37,640**	6040	+	31600
37,645	37,695	**37,650**	1150	+	36500
37,695	37,785	**37,740**	1240	+	36500
37,785	37,865	**37,830**	1330	+	36500
37,865	37,910	**37,900**	12400	+	25500
37,910	37,925	**37,920**	3920	+	34000
37,925	37,965	**37,930**	1430	+	36500
37,965	38,020	**38,000**	14300	+	23700
38,020	38,050	**38,040**	1540	+	36500
38,050	38,075	**38,060**	8660	+	29400
38,075	38,095	**38,090**	6490	+	31600
38,095	38,125	**38,100**	10700	+	27400
38,125	38,175	**38,150**	1650	+	36500
38,175	38,210	**38,200**	19100	+	19100
38,210	38,250	**38,220**	4220	+	34000
38,250	38,290	**38,280**	1780	+	36500
38,290	38,355	**38,300**	17800	+	20500
38,355	38,470	**38,410**	1910	+	36500
38,470	38,540	**38,530**	4530	+	34000
38,540	38,565	**38,550**	2050	+	36500
38,565	38,590	**38,580**	6980	+	31600
38,590	38,655	**38,600**	16500	+	22100
38,655	38,755	**38,710**	2210	+	36500
38,755	38,835	**38,800**	13300	+	25500
38,835	38,885	**38,870**	2370	+	36500
38,885	38,975	**38,900**	11500	+	27400
38,975	39,075	**39,050**	2550	+	36500
39,075	39,150	**39,100**	7500	+	31600
39,150	39,215	**39,200**	0	+	39200
39,215	39,235	**39,230**	5230	+	34000
39,235	39,320	**39,240**	2740	+	36500
39,320	39,420	**39,400**	10000	+	29400
39,420	39,520	**39,440**	2940	+	36500
39,520	39,610	**39,600**	19100	+	20500
39,610	39,640	**39,620**	5620	+	34000
39,640	39,730	**39,660**	3160	+	36500
39,730	39,850	**39,800**	12400	+	27400
39,850	39,970	**39,900**	3400	+	36500
39,970	40,070	**40,040**	6040	+	34000
40,070	40,125	**40,100**	10700	+	29400
40,125	40,175	**40,150**	3650	+	36500
40,175	40,230	**40,200**	1000	+	39200

40,230	40,265	**40,260**	8660	+	31600
40,265	40,310	**40,270**	1070	+	39200
40,310	40,385	**40,350**	1150	+	39200
40,385	40,430	**40,420**	3920	+	36500
40,430	40,465	**40,440**	1240	+	39200
40,465	40,510	**40,490**	6490	+	34000
40,510	40,580	**40,530**	1330	+	39200
40,580	40,665	**40,630**	1430	+	39200
40,665	40,710	**40,700**	13300	+	27400
40,710	40,730	**40,720**	4220	+	36500
40,730	40,795	**40,740**	1540	+	39200
40,795	40,875	**40,850**	1650	+	39200
40,875	40,905	**40,900**	11500	+	29400
40,905	40,945	**40,910**	9310	+	31600
40,945	40,990	**40,980**	1780	+	39200
40,990	41,015	**41,000**	20500	+	20500
41,015	41,070	**41,030**	4530	+	36500
41,070	41,155	**41,110**	1910	+	39200
41,155	41,225	**41,200**	19100	+	22100
41,225	41,310	**41,250**	2050	+	39200
41,310	41,390	**41,370**	4870	+	36500
41,390	41,455	**41,410**	2210	+	39200
41,455	41,535	**41,500**	7500	+	34000
41,535	41,585	**41,570**	2370	+	39200
41,585	41,650	**41,600**	10000	+	31600
41,650	41,715	**41,700**	14300	+	27400
41,715	41,740	**41,730**	5230	+	36500
41,740	41,775	**41,750**	2550	+	39200
41,775	41,870	**41,800**	12400	+	29400
41,870	41,970	**41,940**	2740	+	39200
41,970	42,030	**42,000**	16500	+	25500
42,030	42,090	**42,060**	8060	+	34000
42,090	42,130	**42,120**	5620	+	36500
42,130	42,170	**42,140**	2940	+	39200
42,170	42,250	**42,200**	0	+	42200
42,250	42,330	**42,300**	10700	+	31600
42,330	42,450	**42,360**	3160	+	39200
42,450	42,570	**42,540**	6040	+	36500
42,570	42,630	**42,600**	3400	+	39200
42,630	42,680	**42,660**	8660	+	34000
42,680	42,750	**42,700**	13300	+	29400
42,750	42,825	**42,800**	15400	+	27400
42,825	42,920	**42,850**	3650	+	39200
42,920	43,045	**42,990**	6490	+	36500
43,045	43,110	**43,100**	11500	+	31600
43,110	43,160	**43,120**	3920	+	39200
43,160	43,235	**43,200**	1000	+	42200
43,235	43,285	**43,270**	1070	+	42200
43,285	43,305	**43,300**	17800	+	25500

43,305	43,330	**43,310**	9310	+	34000
43,330	43,385	**43,350**	1150	+	42200
43,385	43,430	**43,420**	4220	+	39200
43,430	43,460	**43,440**	1240	+	42200
43,460	43,505	**43,480**	6980	+	36500
43,505	43,580	**43,530**	1330	+	42200
43,580	43,665	**43,630**	1430	+	42200
43,665	43,715	**43,700**	14300	+	29400
43,715	43,735	**43,730**	4530	+	39200
43,735	43,795	**43,740**	1540	+	42200
43,795	43,875	**43,850**	1650	+	42200
43,875	43,940	**43,900**	16500	+	27400
43,940	43,990	**43,980**	1780	+	42200
43,990	44,035	**44,000**	7500	+	36500
44,035	44,090	**44,070**	4870	+	39200
44,090	44,155	**44,110**	1910	+	42200
44,155	44,225	**44,200**	20500	+	23700
44,225	44,330	**44,250**	2050	+	42200
44,330	44,420	**44,410**	2210	+	42200
44,420	44,495	**44,430**	5230	+	39200
44,495	44,565	**44,560**	8060	+	36500
44,565	44,585	**44,570**	2370	+	42200
44,585	44,650	**44,600**	19100	+	25500
44,650	44,725	**44,700**	10700	+	34000
44,725	44,775	**44,750**	2550	+	42200
44,775	44,810	**44,800**	15400	+	29400
44,810	44,860	**44,820**	5620	+	39200
44,860	44,920	**44,900**	13300	+	31600
44,920	45,040	**44,940**	2740	+	42200
45,040	45,150	**45,140**	2940	+	42200
45,150	45,180	**45,160**	8660	+	36500
45,180	45,220	**45,200**	17800	+	27400
45,220	45,270	**45,240**	6040	+	39200
45,270	45,330	**45,300**	0	+	45300
45,330	45,430	**45,360**	3160	+	42200
45,430	45,550	**45,500**	11500	+	34000
45,550	45,645	**45,600**	3400	+	42200
45,645	45,745	**45,690**	6490	+	39200
45,745	45,805	**45,800**	22100	+	23700
45,805	45,830	**45,810**	9310	+	36500
45,830	45,875	**45,850**	3650	+	42200
45,875	45,950	**45,900**	14300	+	31600
45,950	46,060	**46,000**	20500	+	25500
46,060	46,150	**46,120**	3920	+	42200
46,150	46,240	**46,180**	6980	+	39200
46,240	46,335	**46,300**	1000	+	45300
46,335	46,385	**46,370**	1070	+	45300
46,385	46,410	**46,400**	12400	+	34000
46,410	46,435	**46,420**	4220	+	42200
46,435	46,475	**46,450**	1150	+	45300
46,475	46,520	**46,500**	10000	+	36500
46,520	46,585	**46,540**	1240	+	45300
46,585	46,665	**46,630**	1330	+	45300
46,665	46,715	**46,700**	7500	+	39200
46,715	46,785	**46,730**	1430	+	45300
46,785	46,895	**46,840**	1540	+	45300
46,895	46,975	**46,950**	1650	+	45300
46,975	47,035	**47,000**	15400	+	31600
47,035	47,075	**47,070**	4870	+	42200
47,075	47,140	**47,080**	1780	+	45300
47,140	47,205	**47,200**	10700	+	36500
47,205	47,235	**47,210**	1910	+	45300
47,235	47,280	**47,260**	8060	+	39200
47,280	47,325	**47,300**	13300	+	34000
47,325	47,375	**47,350**	2050	+	45300
47,375	47,415	**47,400**	23700	+	23700
47,415	47,470	**47,430**	5230	+	42200
47,470	47,555	**47,510**	2210	+	45300
47,555	47,635	**47,600**	22100	+	25500
47,635	47,745	**47,670**	2370	+	45300
47,745	47,835	**47,820**	5620	+	42200
47,835	47,855	**47,850**	2550	+	45300
47,855	47,880	**47,860**	8660	+	39200
47,880	47,950	**47,900**	20500	+	27400
47,950	48,020	**48,000**	11500	+	36500
48,020	48,070	**48,040**	2740	+	45300
48,070	48,170	**48,100**	16500	+	31600
48,170	48,270	**48,240**	2940	+	45300
48,270	48,380	**48,300**	14300	+	34000
48,380	48,480	**48,460**	3160	+	45300
48,480	48,505	**48,500**	19100	+	29400
48,505	48,600	**48,510**	9310	+	39200
48,600	48,695	**48,690**	6490	+	42200
48,695	48,800	**48,700**	0	+	48700
48,800	48,925	**48,900**	12400	+	36500
48,925	49,065	**48,950**	3650	+	45300
49,065	49,190	**49,180**	6980	+	42200
49,190	49,210	**49,200**	10000	+	39200
49,210	49,310	**49,220**	3920	+	45300
49,310	49,450	**49,400**	15400	+	34000
49,450	49,510	**49,500**	22100	+	27400
49,510	49,610	**49,520**	4220	+	45300
49,610	49,735	**49,700**	1000	+	48700
49,735	49,785	**49,770**	1070	+	48700
49,785	49,815	**49,800**	13300	+	36500
49,815	49,840	**49,830**	4530	+	45300
49,840	49,875	**49,850**	1150	+	48700
49,875	49,920	**49,900**	10700	+	39200
49,920	49,985	**49,940**	1240	+	48700
49,985	50,080	**50,030**	1330	+	48700
50,080	50,150	**50,130**	1430	+	48700
50,150	50,205	**50,170**	4870	+	45300
50,205	50,250	**50,240**	1540	+	48700
50,250	50,305	**50,260**	8060	+	42200
50,305	50,415	**50,350**	1650	+	48700
50,415	50,490	**50,480**	1780	+	48700
50,490	50,515	**50,500**	16500	+	34000
50,515	50,570	**50,530**	5230	+	45300
50,570	50,655	**50,610**	1910	+	48700
50,655	50,725	**50,700**	11500	+	39200
50,725	50,775	**50,750**	2050	+	48700
50,775	50,830	**50,800**	14300	+	36500
50,830	50,885	**50,860**	8660	+	42200
50,885	50,915	**50,910**	2210	+	48700
50,915	50,960	**50,920**	5620	+	45300
50,960	51,035	**51,000**	25500	+	25500
51,035	51,085	**51,070**	2370	+	48700
51,085	51,175	**51,100**	23700	+	27400
51,175	51,295	**51,250**	2550	+	48700
51,295	51,390	**51,340**	6040	+	45300
51,390	51,470	**51,440**	2740	+	48700
51,470	51,505	**51,500**	22100	+	29400
51,505	51,555	**51,510**	9310	+	42200
51,555	51,620	**51,600**	12400	+	39200
51,620	51,715	**51,640**	2940	+	48700
51,715	51,795	**51,790**	6490	+	45300
51,795	51,830	**51,800**	17800	+	34000
51,830	51,880	**51,860**	3160	+	48700
51,880	52,000	**51,900**	15400	+	36500
52,000	52,150	**52,100**	3400	+	48700
52,150	52,240	**52,200**	10000	+	42200
52,240	52,290	**52,280**	6980	+	45300
52,290	52,325	**52,300**	0	+	52300
52,325	52,425	**52,350**	3650	+	48700
52,425	52,560	**52,500**	13300	+	39200
52,560	52,710	**52,620**	3920	+	48700
52,710	52,850	**52,800**	7500	+	45300
52,850	52,910	**52,900**	10700	+	42200
52,910	52,960	**52,920**	4220	+	48700
52,960	53,050	**53,000**	16500	+	36500
53,050	53,165	**53,100**	19100	+	34000
53,165	53,265	**53,230**	4530	+	48700
53,265	53,330	**53,300**	1000	+	52300
53,330	53,365	**53,360**	8060	+	45300
53,365	53,410	**53,370**	1070	+	52300
53,410	53,475	**53,450**	1150	+	52300
53,475	53,520	**53,500**	14300	+	39200

53,520	53,555	**53,540**	1240	+	52300
53,555	53,600	**53,570**	4870	+	48700
53,600	53,665	**53,630**	1330	+	52300
53,665	53,715	**53,700**	11500	+	42200
53,715	53,785	**53,730**	1430	+	52300
53,785	53,885	**53,840**	1540	+	52300
53,885	53,940	**53,930**	5230	+	48700
53,940	53,955	**53,950**	1650	+	52300
53,955	54,020	**53,960**	8660	+	45300
54,020	54,145	**54,080**	1780	+	52300
54,145	54,255	**54,210**	1910	+	52300
54,255	54,310	**54,300**	17800	+	36500
54,310	54,335	**54,320**	5620	+	48700
54,335	54,425	**54,350**	2050	+	52300
54,425	54,505	**54,500**	20500	+	34000
54,505	54,555	**54,510**	2210	+	52300
54,555	54,605	**54,600**	12400	+	42200
54,605	54,640	**54,610**	9310	+	45300
54,640	54,705	**54,670**	2370	+	52300
54,705	54,770	**54,740**	6040	+	48700
54,770	54,825	**54,800**	27400	+	27400
54,825	54,875	**54,850**	2550	+	52300
54,875	54,970	**54,900**	25500	+	29400
54,970	55,115	**55,040**	2740	+	52300
55,115	55,215	**55,190**	6490	+	48700
55,215	55,270	**55,240**	2940	+	52300
55,270	55,380	**55,300**	10000	+	45300
55,380	55,480	**55,460**	3160	+	52300
55,480	55,550	**55,500**	13300	+	42200
55,550	55,640	**55,600**	19100	+	36500
55,640	55,690	**55,680**	6980	+	48700
55,690	55,825	**55,700**	3400	+	52300
55,825	55,975	**55,950**	3650	+	52300
55,975	56,050	**56,000**	10700	+	45300
56,050	56,150	**56,100**	22100	+	34000
56,150	56,210	**56,200**	0	+	56200
56,210	56,360	**56,220**	3920	+	52300
56,360	56,510	**56,500**	14300	+	42200
56,510	56,640	**56,520**	4220	+	52300
56,640	56,780	**56,760**	8060	+	48700
56,780	56,815	**56,800**	11500	+	45300
56,815	56,915	**56,830**	4530	+	52300
56,915	57,050	**57,000**	17800	+	39200
57,050	57,135	**57,100**	25500	+	31600
57,135	57,185	**57,170**	4870	+	52300
57,185	57,235	**57,200**	1000	+	56200
57,235	57,310	**57,270**	1070	+	56200
57,310	57,355	**57,350**	1150	+	56200
57,355	57,400	**57,360**	8660	+	48700

57,400	57,485	**57,440**	1240	+	56200
57,485	57,565	**57,530**	1330	+	56200
57,565	57,615	**57,600**	15400	+	42200
57,615	57,665	**57,630**	1430	+	56200
57,665	57,720	**57,700**	12400	+	45300
57,720	57,795	**57,740**	1540	+	56200
57,795	57,885	**57,850**	1650	+	56200
57,885	57,950	**57,920**	5620	+	52300
57,950	57,995	**57,980**	1780	+	56200
57,995	58,060	**58,010**	9310	+	48700
58,060	58,180	**58,110**	1910	+	56200
58,180	58,275	**58,250**	2050	+	56200
58,275	58,320	**58,300**	19100	+	39200
58,320	58,375	**58,340**	6040	+	52300
58,375	58,490	**58,410**	2210	+	56200
58,490	58,585	**58,570**	2370	+	56200
58,585	58,650	**58,600**	13300	+	45300
58,650	58,725	**58,700**	10000	+	48700
58,725	58,770	**58,750**	2550	+	56200
58,770	58,795	**58,790**	6490	+	52300
58,795	58,870	**58,800**	29400	+	29400
58,870	58,970	**58,940**	2740	+	56200
58,970	59,070	**59,000**	27400	+	31600
59,070	59,210	**59,140**	2940	+	56200
59,210	59,320	**59,280**	6980	+	52300
59,320	59,380	**59,360**	3160	+	56200
59,380	59,450	**59,400**	10700	+	48700
59,450	59,550	**59,500**	25500	+	34000
59,550	59,650	**59,600**	3400	+	56200
59,650	59,750	**59,700**	20500	+	39200
59,750	59,825	**59,800**	7500	+	52300
59,825	59,925	**59,850**	3650	+	56200
59,925	60,060	**60,000**	17800	+	42200
60,060	60,160	**60,120**	3920	+	56200
60,160	60,280	**60,200**	11500	+	48700
60,280	60,380	**60,360**	8060	+	52300
60,380	60,410	**60,400**	0	+	60400
60,410	60,560	**60,420**	4220	+	56200
60,560	60,715	**60,700**	15400	+	45300
60,715	60,845	**60,730**	4530	+	56200
60,845	60,980	**60,960**	8660	+	52300
60,980	61,035	**61,000**	29400	+	31600
61,035	61,085	**61,070**	4870	+	56200
61,085	61,200	**61,100**	12400	+	48700
61,200	61,350	**61,300**	19100	+	42200
61,350	61,415	**61,400**	1000	+	60400
61,415	61,450	**61,430**	5230	+	56200
61,450	61,510	**61,470**	1070	+	60400
61,510	61,580	**61,550**	1150	+	60400

61,580	61,625	**61,610**	9310	+	52300
61,625	61,685	**61,640**	1240	+	60400
61,685	61,765	**61,730**	1330	+	60400
61,765	61,810	**61,800**	16500	+	45300
61,810	61,825	**61,820**	5620	+	56200
61,825	61,885	**61,830**	1430	+	60400
61,885	61,970	**61,940**	1540	+	60400
61,970	62,025	**62,000**	13300	+	48700
62,025	62,115	**62,050**	1650	+	60400
62,115	62,210	**62,180**	1780	+	60400
62,210	62,270	**62,240**	6040	+	56200
62,270	62,305	**62,300**	10000	+	52300
62,305	62,380	**62,310**	1910	+	60400
62,380	62,530	**62,450**	2050	+	60400
62,530	62,650	**62,610**	2210	+	60400
62,650	62,695	**62,690**	6490	+	56200
62,695	62,735	**62,700**	20500	+	42200
62,735	62,835	**62,770**	2370	+	60400
62,835	62,925	**62,900**	23700	+	39200
62,925	62,975	**62,950**	2550	+	60400
62,975	63,050	**63,000**	10700	+	52300
63,050	63,120	**63,100**	17800	+	45300
63,120	63,160	**63,140**	2740	+	60400
63,160	63,190	**63,180**	6980	+	56200
63,190	63,270	**63,200**	31600	+	31600
63,270	63,370	**63,340**	2940	+	60400
63,370	63,480	**63,400**	29400	+	34000
63,480	63,630	**63,560**	3160	+	60400
63,630	63,750	**63,700**	7500	+	56200
63,750	63,850	**63,800**	3400	+	60400
63,850	63,975	**63,900**	27400	+	36500
63,975	64,075	**64,050**	3650	+	60400
64,075	64,180	**64,100**	15400	+	48700
64,180	64,280	**64,260**	8060	+	56200
64,280	64,310	**64,300**	22100	+	42200
64,310	64,360	**64,320**	3920	+	60400
64,360	64,510	**64,400**	19100	+	45300
64,510	64,660	**64,620**	4220	+	60400
64,660	64,780	**64,700**	12400	+	52300
64,780	64,880	**64,860**	8660	+	56200
64,880	64,915	**64,900**	0	+	64900
64,915	65,065	**64,930**	4530	+	60400
65,065	65,235	**65,200**	16500	+	48700
65,235	65,390	**65,270**	4870	+	60400
65,390	65,555	**65,510**	9310	+	56200
65,555	65,615	**65,600**	13300	+	52300
65,615	65,715	**65,630**	5230	+	60400
65,715	65,850	**65,800**	20500	+	45300
65,850	65,935	**65,900**	1000	+	64900

65,935	65,995	**65,970**	1070	+	64900
65,995	66,035	**66,020**	5620	+	60400
66,035	66,095	**66,050**	1150	+	64900
66,095	66,170	**66,140**	1240	+	64900
66,170	66,215	**66,200**	10000	+	56200
66,215	66,280	**66,230**	1330	+	64900
66,280	66,385	**66,330**	1430	+	64900
66,385	66,470	**66,440**	1540	+	64900
66,470	66,525	**66,500**	17800	+	48700
66,525	66,575	**66,550**	1650	+	64900
66,575	66,640	**66,600**	14300	+	52300
66,640	66,745	**66,680**	1780	+	64900
66,745	66,850	**66,810**	1910	+	64900
66,850	66,895	**66,890**	6490	+	60400
66,895	66,925	**66,900**	10700	+	56200
66,925	67,030	**66,950**	2050	+	64900
67,030	67,190	**67,110**	2210	+	64900
67,190	67,325	**67,270**	2370	+	64900
67,325	67,390	**67,380**	6980	+	60400
67,390	67,425	**67,400**	22100	+	45300
67,425	67,545	**67,450**	2550	+	64900
67,545	67,670	**67,640**	2740	+	64900
67,670	67,750	**67,700**	11500	+	56200
67,750	67,820	**67,800**	19100	+	48700
67,820	67,870	**67,840**	2940	+	64900
67,870	67,950	**67,900**	7500	+	60400
67,950	68,030	**68,000**	34000	+	34000
68,030	68,080	**68,060**	3160	+	64900
68,080	68,200	**68,100**	31600	+	36500
68,200	68,380	**68,300**	3400	+	64900
68,380	68,505	**68,460**	8060	+	60400
68,505	68,575	**68,550**	3650	+	64900
68,575	68,700	**68,600**	12400	+	56200
68,700	68,810	**68,800**	16500	+	52300
68,810	68,910	**68,820**	3920	+	64900
68,910	69,030	**69,000**	23700	+	45300
69,030	69,090	**69,060**	8660	+	60400
69,090	69,160	**69,120**	4220	+	64900
69,160	69,315	**69,200**	20500	+	48700
69,315	69,465	**69,430**	4530	+	64900
69,465	69,550	**69,500**	13300	+	56200
69,550	69,655	**69,600**	27400	+	42200
69,655	69,740	**69,710**	9310	+	60400
69,740	69,785	**69,770**	4870	+	64900
69,785	69,950	**69,800**	0	+	69800
69,950	70,115	**70,100**	17800	+	52300
70,115	70,265	**70,130**	5230	+	64900
70,265	70,450	**70,400**	10000	+	60400
70,450	70,510	**70,500**	14300	+	56200
70,510	70,660	**70,520**	5620	+	64900
70,660	70,835	**70,800**	1000	+	69800
70,835	70,905	**70,870**	1070	+	69800
70,905	70,945	**70,940**	6040	+	64900
70,945	70,995	**70,950**	1150	+	69800
70,995	71,070	**71,040**	1240	+	69800
71,070	71,115	**71,100**	10700	+	60400
71,115	71,180	**71,130**	1330	+	69800
71,180	71,285	**71,230**	1430	+	69800
71,285	71,365	**71,340**	1540	+	69800
71,365	71,395	**71,390**	6490	+	64900
71,395	71,425	**71,400**	19100	+	52300
71,425	71,515	**71,450**	1650	+	69800
71,515	71,590	**71,580**	1780	+	69800
71,590	71,655	**71,600**	15400	+	56200
71,655	71,780	**71,710**	1910	+	69800
71,780	71,865	**71,850**	2050	+	69800
71,865	71,890	**71,880**	6980	+	64900
71,890	71,955	**71,900**	11500	+	60400
71,955	72,090	**72,010**	2210	+	69800
72,090	72,260	**72,170**	2370	+	69800
72,260	72,375	**72,350**	2550	+	69800
72,375	72,470	**72,400**	7500	+	64900
72,470	72,620	**72,540**	2740	+	69800
72,620	72,720	**72,700**	16500	+	56200
72,720	72,770	**72,740**	2940	+	69800
72,770	72,880	**72,800**	12400	+	60400
72,880	72,980	**72,960**	3160	+	69800
72,980	73,100	**73,000**	36500	+	36500
73,100	73,325	**73,200**	3400	+	69800
73,325	73,505	**73,450**	3650	+	69800
73,505	73,630	**73,560**	8660	+	64900
73,630	73,710	**73,700**	13300	+	60400
73,710	73,760	**73,720**	3920	+	69800
73,760	73,900	**73,800**	31600	+	42200
73,900	74,010	**74,000**	17800	+	56200
74,010	74,110	**74,020**	4220	+	69800
74,110	74,205	**74,200**	25500	+	48700
74,205	74,270	**74,210**	9310	+	64900
74,270	74,365	**74,330**	4530	+	69800
74,365	74,535	**74,400**	22100	+	52300
74,535	74,685	**74,670**	4870	+	69800
74,685	74,800	**74,700**	14300	+	60400
74,800	74,950	**74,900**	10000	+	64900
74,950	75,015	**75,000**	0	+	75000
75,015	75,165	**75,030**	5230	+	69800
75,165	75,360	**75,300**	19100	+	56200
75,360	75,510	**75,420**	5620	+	69800
75,510	75,650	**75,600**	10700	+	64900
75,650	75,750	**75,700**	36500	+	39200
75,750	75,820	**75,800**	15400	+	60400
75,820	75,920	**75,840**	6040	+	69800
75,920	76,035	**76,000**	1000	+	75000
76,035	76,085	**76,070**	1070	+	75000
76,085	76,125	**76,100**	27400	+	48700
76,125	76,175	**76,150**	1150	+	75000
76,175	76,220	**76,200**	34000	+	42200
76,220	76,265	**76,240**	1240	+	75000
76,265	76,310	**76,290**	6490	+	69800
76,310	76,365	**76,330**	1330	+	75000
76,365	76,415	**76,400**	11500	+	64900
76,415	76,485	**76,430**	1430	+	75000
76,485	76,595	**76,540**	1540	+	75000
76,595	76,675	**76,650**	1650	+	75000
76,675	76,740	**76,700**	20500	+	56200
76,740	76,840	**76,780**	1780	+	75000
76,840	76,905	**76,900**	16500	+	60400
76,905	76,980	**76,910**	1910	+	75000
76,980	77,130	**77,050**	2050	+	75000
77,130	77,255	**77,210**	2210	+	75000
77,255	77,335	**77,300**	7500	+	69800
77,335	77,460	**77,370**	2370	+	75000
77,460	77,645	**77,550**	2550	+	75000
77,645	77,770	**77,740**	2740	+	75000
77,770	77,830	**77,800**	25500	+	52300
77,830	77,900	**77,860**	8060	+	69800
77,900	78,020	**77,940**	2940	+	75000
78,020	78,130	**78,100**	29400	+	48700
78,130	78,180	**78,160**	3160	+	75000
78,180	78,250	**78,200**	13300	+	64900
78,250	78,350	**78,300**	22100	+	56200
78,350	78,430	**78,400**	3400	+	75000
78,430	78,555	**78,460**	8660	+	69800
78,555	78,675	**78,650**	3650	+	75000
78,675	78,810	**78,700**	36500	+	42200
78,810	79,015	**78,920**	3920	+	75000
79,015	79,155	**79,110**	9310	+	69800
79,155	79,210	**79,200**	14300	+	64900
79,210	79,260	**79,220**	4220	+	75000
79,260	79,400	**79,300**	34000	+	45300
79,400	79,515	**79,500**	19100	+	60400
79,515	79,615	**79,530**	4530	+	75000
79,615	79,750	**79,700**	27400	+	52300
79,750	79,835	**79,800**	10000	+	69800
79,835	79,885	**79,870**	4870	+	75000
79,885	80,065	**79,900**	23700	+	56200
80,065	80,265	**80,230**	5230	+	75000
80,265	80,400	**80,300**	15400	+	64900

80,400	80,550	**80,500**	10700	+	69800
80,550	80,610	**80,600**	0	+	80600
80,610	80,760	**80,620**	5620	+	75000
80,760	80,970	**80,900**	20500	+	60400
80,970	81,170	**81,040**	6040	+	75000
81,170	81,350	**81,300**	11500	+	69800
81,350	81,445	**81,400**	16500	+	64900
81,445	81,545	**81,490**	6490	+	75000
81,545	81,635	**81,600**	1000	+	80600
81,635	81,685	**81,670**	1070	+	80600
81,685	81,725	**81,700**	25500	+	56200
81,725	81,775	**81,750**	1150	+	80600
81,775	81,820	**81,800**	36500	+	45300
81,820	81,885	**81,840**	1240	+	80600
81,885	81,955	**81,930**	1330	+	80600
81,955	82,005	**81,980**	6980	+	75000
82,005	82,085	**82,030**	1430	+	80600
82,085	82,170	**82,140**	1540	+	80600
82,170	82,225	**82,200**	12400	+	69800
82,225	82,315	**82,250**	1650	+	80600
82,315	82,440	**82,380**	1780	+	80600
82,440	82,505	**82,500**	7500	+	75000
82,505	82,580	**82,510**	1910	+	80600
82,580	82,675	**82,650**	2050	+	80600
82,675	82,755	**82,700**	17800	+	64900
82,755	82,890	**82,810**	2210	+	80600
82,890	83,015	**82,970**	2370	+	80600
83,015	83,080	**83,060**	8060	+	75000
83,080	83,125	**83,100**	13300	+	69800
83,125	83,245	**83,150**	2550	+	80600
83,245	83,440	**83,340**	2740	+	80600
83,440	83,570	**83,540**	2940	+	80600
83,570	83,630	**83,600**	27400	+	56200
83,630	83,710	**83,660**	8660	+	75000
83,710	83,830	**83,760**	3160	+	80600
83,830	83,950	**83,900**	31600	+	52300
83,950	84,050	**84,000**	3400	+	80600
84,050	84,175	**84,100**	14300	+	69800
84,175	84,280	**84,250**	3650	+	80600
84,280	84,355	**84,310**	9310	+	75000
84,355	84,450	**84,400**	42200	+	42200
84,450	84,510	**84,500**	39200	+	45300
84,510	84,670	**84,520**	3920	+	80600
84,670	84,910	**84,820**	4220	+	80600
84,910	85,065	**85,000**	10000	+	75000
85,065	85,165	**85,130**	4530	+	80600
85,165	85,300	**85,200**	15400	+	69800
85,300	85,435	**85,400**	20500	+	64900
85,435	85,535	**85,470**	4870	+	80600
85,535	85,650	**85,600**	29400	+	56200
85,650	85,765	**85,700**	10700	+	75000
85,765	85,865	**85,830**	5230	+	80600
85,865	86,060	**85,900**	25500	+	60400
86,060	86,260	**86,220**	5620	+	80600
86,260	86,400	**86,300**	16500	+	69800
86,400	86,550	**86,500**	11500	+	75000
86,550	86,620	**86,600**	0	+	86600
86,620	86,820	**86,640**	6040	+	80600
86,820	87,045	**87,000**	22100	+	64900
87,045	87,245	**87,090**	6490	+	80600
87,245	87,450	**87,400**	12400	+	75000
87,450	87,540	**87,500**	42200	+	45300
87,540	87,590	**87,580**	6980	+	80600
87,590	87,635	**87,600**	1000	+	86600
87,635	87,710	**87,670**	1070	+	86600
87,710	87,775	**87,750**	1150	+	86600
87,775	87,820	**87,800**	27400	+	60400
87,820	87,870	**87,840**	1240	+	86600
87,870	87,915	**87,900**	39200	+	48700
87,915	87,980	**87,930**	1330	+	86600
87,980	88,065	**88,030**	1430	+	86600
88,065	88,120	**88,100**	7500	+	80600
88,120	88,195	**88,140**	1540	+	86600
88,195	88,275	**88,250**	1650	+	86600
88,275	88,340	**88,300**	13300	+	75000
88,340	88,445	**88,380**	1780	+	86600
88,445	88,555	**88,510**	1910	+	86600
88,555	88,625	**88,600**	23700	+	64900
88,625	88,655	**88,650**	2050	+	86600
88,655	88,730	**88,660**	8060	+	80600
88,730	88,805	**88,800**	36500	+	52300
88,805	88,855	**88,810**	2210	+	86600
88,855	88,935	**88,900**	19100	+	69800
88,935	89,060	**88,970**	2370	+	86600
89,060	89,205	**89,150**	2550	+	86600
89,205	89,280	**89,260**	8660	+	80600
89,280	89,320	**89,300**	14300	+	75000
89,320	89,440	**89,340**	2740	+	86600
89,440	89,650	**89,540**	2940	+	86600
89,650	89,780	**89,760**	3160	+	86600
89,780	89,855	**89,800**	29400	+	60400
89,855	89,955	**89,910**	9310	+	80600
89,955	90,100	**90,000**	3400	+	86600
90,100	90,225	**90,200**	34000	+	56200
90,225	90,275	**90,250**	3650	+	86600
90,275	90,350	**90,300**	20500	+	69800
90,350	90,460	**90,400**	15400	+	75000
90,460	90,560	**90,520**	3920	+	86600
90,560	90,710	**90,600**	10000	+	80600
90,710	90,860	**90,820**	4220	+	86600
90,860	91,015	**90,900**	42200	+	48700
91,015	91,215	**91,130**	4530	+	86600
91,215	91,385	**91,300**	10700	+	80600
91,385	91,485	**91,470**	4870	+	86600
91,485	91,665	**91,500**	16500	+	75000
91,665	91,865	**91,830**	5230	+	86600
91,865	91,950	**91,900**	22100	+	69800
91,950	92,050	**92,000**	31600	+	60400
92,050	92,160	**92,100**	11500	+	80600
92,160	92,260	**92,220**	5620	+	86600
92,260	92,470	**92,300**	27400	+	64900
92,470	92,670	**92,640**	6040	+	86600
92,670	92,750	**92,700**	36500	+	56200
92,750	92,900	**92,800**	17800	+	75000
92,900	93,045	**93,000**	12400	+	80600
93,045	93,095	**93,090**	6490	+	86600
93,095	93,300	**93,100**	0	+	93100
93,300	93,540	**93,500**	23700	+	69800
93,540	93,740	**93,580**	6980	+	86600
93,740	93,950	**93,900**	13300	+	80600
93,950	94,050	**94,000**	45300	+	48700
94,050	94,135	**94,100**	1000	+	93100
94,135	94,210	**94,170**	1070	+	93100
94,210	94,275	**94,250**	1150	+	93100
94,275	94,320	**94,300**	29400	+	64900
94,320	94,370	**94,340**	1240	+	93100
94,370	94,415	**94,400**	34000	+	60400
94,415	94,465	**94,430**	1330	+	93100
94,465	94,515	**94,500**	42200	+	52300
94,515	94,585	**94,530**	1430	+	93100
94,585	94,650	**94,640**	1540	+	93100
94,650	94,705	**94,660**	8060	+	86600
94,705	94,815	**94,750**	1650	+	93100
94,815	94,890	**94,880**	1780	+	93100
94,890	94,955	**94,900**	14300	+	80600
94,955	95,080	**95,010**	1910	+	93100
95,080	95,205	**95,150**	2050	+	93100
95,205	95,280	**95,260**	8660	+	86600
95,280	95,305	**95,300**	25500	+	69800
95,305	95,355	**95,310**	2210	+	93100
95,355	95,435	**95,400**	39200	+	56200
95,435	95,485	**95,470**	2370	+	93100
95,485	95,575	**95,500**	20500	+	75000
95,575	95,745	**95,650**	2550	+	93100
95,745	95,875	**95,840**	2740	+	93100
95,875	95,955	**95,910**	9310	+	86600
95,955	96,020	**96,000**	15400	+	80600

96,020	96,150	**96,040**	2940	+	93100
96,150	96,380	**96,260**	3160	+	93100
96,380	96,550	**96,500**	3400	+	93100
96,550	96,675	**96,600**	10000	+	86600
96,675	96,825	**96,750**	3650	+	93100
96,825	96,960	**96,900**	36500	+	60400
96,960	97,060	**97,020**	3920	+	93100
97,060	97,150	**97,100**	16500	+	80600
97,150	97,250	**97,200**	27400	+	69800
97,250	97,310	**97,300**	10700	+	86600
97,310	97,360	**97,320**	4220	+	93100
97,360	97,500	**97,400**	48700	+	48700
97,500	97,615	**97,600**	45300	+	52300
97,615	97,800	**97,630**	4530	+	93100
97,800	98,035	**97,970**	4870	+	93100
98,035	98,215	**98,100**	11500	+	86600
98,215	98,365	**98,330**	5230	+	93100
98,365	98,550	**98,400**	17800	+	80600
98,550	98,710	**98,700**	23700	+	75000
98,710	98,810	**98,720**	5620	+	93100
98,810	98,950	**98,900**	34000	+	64900
98,950	99,070	**99,000**	12400	+	86600
99,070	99,170	**99,140**	6040	+	93100
99,170	99,395	**99,200**	29400	+	69800
99,395	99,595	**99,590**	6490	+	93100
99,595	99,650	**99,600**	39200	+	60400
99,650	99,800	**99,700**	19100	+	80600
99,800	99,950	**99,900**	13300	+	86600
99,950	100,040	**100,000**	0	+	100000
100,040	100,290	**100,080**	6980	+	93100
100,290	100,550	**100,500**	25500	+	75000
100,550	100,750	**100,600**	7500	+	93100
100,750	100,950	**100,900**	14300	+	86600
100,950	101,035	**101,000**	1000	+	100000
101,035	101,085	**101,070**	1070	+	100000
101,085	101,125	**101,100**	20500	+	80600
101,125	101,155	**101,150**	1150	+	100000
101,155	101,200	**101,160**	8060	+	93100
101,200	101,285	**101,240**	1240	+	100000
101,285	101,365	**101,330**	1330	+	100000
101,365	101,415	**101,400**	31600	+	69800
101,415	101,465	**101,430**	1430	+	100000
101,465	101,520	**101,500**	45300	+	56200
101,520	101,595	**101,540**	1540	+	100000
101,595	101,705	**101,650**	1650	+	100000
101,705	101,770	**101,760**	8660	+	93100
101,770	101,845	**101,780**	1780	+	100000
101,845	101,955	**101,910**	1910	+	100000
101,955	102,025	**102,000**	15400	+	86600
102,025	102,130	**102,050**	2050	+	100000
102,130	102,290	**102,210**	2210	+	100000
102,290	102,385	**102,370**	2370	+	100000
102,385	102,405	**102,400**	27400	+	75000
102,405	102,480	**102,410**	9310	+	93100
102,480	102,575	**102,550**	2550	+	100000
102,575	102,650	**102,600**	42200	+	60400
102,650	102,720	**102,700**	22100	+	80600
102,720	102,840	**102,740**	2740	+	100000
102,840	103,020	**102,940**	2940	+	100000
103,020	103,130	**103,100**	10000	+	93100
103,130	103,280	**103,160**	3160	+	100000
103,280	103,525	**103,400**	3400	+	100000
103,525	103,725	**103,650**	3650	+	100000
103,725	103,860	**103,800**	10700	+	93100
103,860	104,010	**103,920**	3920	+	100000
104,010	104,160	**104,100**	39200	+	64900
104,160	104,260	**104,220**	4220	+	100000
104,260	104,350	**104,300**	23700	+	80600
104,350	104,465	**104,400**	17800	+	86600
104,465	104,565	**104,530**	4530	+	100000
104,565	104,735	**104,600**	11500	+	93100
104,735	104,885	**104,870**	4870	+	100000
104,885	105,065	**104,900**	48700	+	56200
105,065	105,365	**105,230**	5230	+	100000
105,365	105,560	**105,500**	12400	+	93100
105,560	105,660	**105,620**	5620	+	100000
105,660	105,870	**105,700**	19100	+	86600
105,870	106,070	**106,040**	6040	+	100000
106,070	106,200	**106,100**	25500	+	80600
106,200	106,350	**106,300**	36500	+	69800
106,350	106,445	**106,400**	13300	+	93100
106,445	106,545	**106,490**	6490	+	100000
106,545	106,790	**106,600**	31600	+	75000
106,790	107,040	**106,980**	6980	+	100000
107,040	107,250	**107,100**	20500	+	86600
107,250	107,450	**107,400**	14300	+	93100
107,450	107,750	**107,500**	7500	+	100000
107,750	108,030	**108,000**	27400	+	80600
108,030	108,280	**108,060**	8060	+	100000
108,280	108,580	**108,500**	15400	+	93100
108,580	108,680	**108,660**	8660	+	100000
108,680	108,850	**108,700**	22100	+	86600
108,850	109,050	**109,000**	34000	+	75000
109,050	109,205	**109,100**	48700	+	60400
109,205	109,455	**109,310**	9310	+	100000
109,455	109,800	**109,600**	16500	+	93100
109,800	110,100	**110,000**	10000	+	100000
110,100	110,250	**110,200**	45300	+	64900
110,250	110,500	**110,300**	23700	+	86600
110,500	110,800	**110,700**	10700	+	100000
110,800	111,200	**110,900**	17800	+	93100
111,200	111,750	**111,500**	11500	+	100000
111,750	112,050	**112,000**	42200	+	69800
112,050	112,150	**112,100**	25500	+	86600
112,150	112,300	**112,200**	19100	+	93100
112,300	112,550	**112,400**	12400	+	100000
112,550	113,000	**112,700**	52300	+	60400
113,000	113,450	**113,300**	13300	+	100000
113,450	113,800	**113,600**	20500	+	93100
113,800	114,100	**114,000**	27400	+	86600
114,100	114,250	**114,200**	39200	+	75000
114,250	114,450	**114,300**	14300	+	100000
114,450	114,850	**114,600**	34000	+	80600
114,850	115,150	**115,100**	45300	+	69800
115,150	115,300	**115,200**	22100	+	93100
115,300	115,700	**115,400**	15400	+	100000
115,700	116,250	**116,000**	29400	+	86600
116,250	116,550	**116,500**	16500	+	100000
116,550	116,700	**116,600**	56200	+	60400
116,700	116,950	**116,800**	23700	+	93100
116,950	117,150	**117,100**	36500	+	80600
117,150	117,500	**117,200**	42200	+	75000
117,500	118,000	**117,800**	17800	+	100000
118,000	118,350	**118,200**	31600	+	86600
118,350	118,550	**118,500**	48700	+	69800
118,550	118,850	**118,600**	25500	+	93100
118,850	119,449	**119,100**	19100	+	100000
119,449	120,050	**119,800**	39200	+	80600
120,050	120,400	**120,300**	45300	+	75000
120,400	120,550	**120,500**	20500	+	100000
120,550	120,700	**120,600**	34000	+	86600
120,700	120,950	**120,800**	60400	+	60400
120,950	121,599	**121,100**	56200	+	64900
121,599	122,300	**122,100**	22100	+	100000
122,300	122,650	**122,500**	29400	+	93100
122,650	122,950	**122,800**	42200	+	80600
122,950	123,400	**123,100**	36500	+	86600
123,400	124,199	**123,700**	23700	+	100000
124,199	125,000	**124,700**	31600	+	93100
125,000	125,400	**125,300**	60400	+	64900
125,400	125,650	**125,500**	25500	+	100000
125,650	125,850	**125,800**	39200	+	86600
125,850	125,950	**125,900**	45300	+	80600
125,950	126,549	**126,000**	56200	+	69800
126,549	127,200	**127,100**	34000	+	93100
127,200	127,350	**127,300**	52300	+	75000
127,350	128,098	**127,400**	27400	+	100000

128,098	129,050	**128,800**	42200	+	86600
129,050	129,350	**129,300**	48700	+	80600
129,350	129,500	**129,400**	29400	+	100000
129,500	129,700	**129,600**	36500	+	93100
129,700	130,000	**129,800**	64900	+	64900
130,000	130,699	**130,200**	60400	+	69800
130,699	131,400	**131,200**	56200	+	75000
131,400	131,750	**131,600**	31600	+	100000
131,750	132,100	**131,900**	45300	+	86600
132,100	132,600	**132,300**	39200	+	93100
132,600	133,449	**132,900**	52300	+	80600
133,449	134,350	**134,000**	34000	+	100000
134,350	135,000	**134,700**	64900	+	69800
135,000	135,350	**135,300**	42200	+	93100
135,350	135,949	**135,400**	60400	+	75000
135,949	136,650	**136,500**	36500	+	100000
136,650	137,598	**136,800**	56200	+	80600
137,598	138,650	**138,400**	45300	+	93100
138,650	139,050	**138,900**	52300	+	86600
139,050	139,400	**139,200**	39200	+	100000
139,400	139,750	**139,600**	69800	+	69800
139,750	140,449	**139,900**	64900	+	75000
140,449	141,399	**141,000**	60400	+	80600
141,399	142,000	**141,800**	48700	+	93100
142,000	142,500	**142,200**	42200	+	100000
142,500	143,797	**142,800**	56200	+	86600
143,797	145,050	**144,800**	69800	+	75000
145,050	145,350	**145,300**	45300	+	100000
145,350	145,450	**145,400**	52300	+	93100
145,450	146,248	**145,500**	64900	+	80600
146,248	147,848	**147,000**	60400	+	86600
147,848	149,000	**148,700**	48700	+	100000
149,000	149,650	**149,300**	56200	+	93100
149,650	150,200	**150,000**	75000	+	75000
150,200	150,949	**150,400**	69800	+	80600
150,949	151,899	**151,500**	64900	+	86600
151,899	152,899	**152,300**	52300	+	100000
152,899	154,546	**153,500**	60400	+	93100
154,546	155,900	**155,600**	75000	+	80600
155,900	156,300	**156,200**	56200	+	100000
156,300	157,198	**156,400**	69800	+	86600
157,198	159,195	**158,000**	64900	+	93100
159,195	160,800	**160,400**	60400	+	100000
160,800	161,400	**161,200**	80600	+	80600
161,400	162,249	**161,600**	75000	+	86600
162,249	163,897	**162,900**	69800	+	93100
163,897	166,046	**164,900**	64900	+	100000
166,046	167,649	**167,200**	80600	+	86600
167,649	168,948	**168,100**	75000	+	93100
168,948	171,492	**169,800**	69800	+	100000
171,492	173,450	**173,200**	86600	+	86600
173,450	174,349	**173,700**	80600	+	93100
174,349	177,334	**175,000**	75000	+	100000
177,334	180,149	**179,700**	86600	+	93100
180,149	183,379	**180,600**	80600	+	100000
183,379	186,400	**186,200**	93100	+	93100
186,400	189,822	**186,600**	86600	+	100000
189,822	196,520	**193,100**	93100	+	100000
196,520	200,000	**200,000**	100000	+	100000

W. W. Hansen Experimental Physics Laboratory
STANFORD UNIVERSITY
STANFORD, CALIFORNIA 94305 - 4085

Gravity Probe B Relativity Mission

P0611A APPENDIX A
SELECT AND TEST COMPONENT INSTALLATION INSTRUCTION SHEET: GSS MUX PWA

PWA 8A01883 Rev C S/N: ____

From the findings of procedure P0611 **"**BOARD-LEVEL TUNING PROCEDURE FOR THE GYROSCOPE SUSPENSION SYSTEM (GSS) MUX/OSCILLATOR/CHARGE CTRL (MUX) BOARD", install the following select-and-test components as indicated below:

★NOTE: See 8A01883 Rev C note 27 for installation of R26, R30, R46, R47.

Component	Flight PN	Description	Mfgr	LDC
R2	RNC55H_____FS			
R6	RNC55H_____FS			
R26 ★	RNC55H_____FS			
R30 ★	RNC55H_____FS			
R20	RNC55H_____FS			
R24	RNC55H_____FS			
R36	RNC55H_____FS			
R42	RNC55H_____FS			
R28	RNC55H_____FS			
R74	RNC55H_____FS			

(continued)

R41	open	no component installed		

R46 ★	RNC55H_____FS			
R47 ★	RNC55H_____FS			

Approved:

GSS Representative		Date	
Quality Assurance		Date	