The Y-axis: Recursive Filtering Under border cycle constraint Stress Algorithm (RFUSA)

This is where the chapter from the old book ends, now that the lucky number sieving process is explained in detail, we can continue to map the exact Evil number sieving algorithm on the Y-axis. Because of this split up by the 60/300 nr. cycle boundaries, there are slightly different versions of the final Evil number filtering process, depending on if you are working in the 5/6th 300-nr. cycle, or the full 360 nr-loop. This leads to two different versions of the evil number sieve, one created within the first 300 nr. limit with a shorter filter, and one which goes above that with the last filter pass added.

The Y-axis is also split up into these 60 nr-cycles, so the first spreadsheet tab is for the 1-60 numbers loop. The following table is the entire sieving process, all layers with the correct filters, depending on which cycle you work in (300 nr-cycle boundary).

Sieving Round Nr	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	***13*** **(Base)**
Sieving Lucky nrs. Position	**0**	**2**	**3**	**7**	**9**	**13**	**15**	**21**	**25**	**31**	**33**	**37**	**-**
21 loop in 60 nrs. -> 9-12-6 & 22 in 300 nr. cycle.	0	0	0	0	0	0	0	**9**	**12**	**6**	**2**	**0**	**-**
AND/OR													
21 loop in 60 nrs. -> 9-12-6 & 22 in 360 nr. cycle.	0	0	0	0	0	0	0	**9**	**12**	**6**	**2**	**2**	**-**
Evil Number Sieving Process:	1	1	1	1	1	1	1	1	1	1	1	1	**1**
Lucky Numbers sieving process +	2	0	0	0	0	0	0	0	0	0	0	0	0
9-12-6-2-2 stress filter sieving	3	3	3	3	3	3	3	3	3	3	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	**7**
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	11	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	0	0	0	0	0	0	0	0	0	0
	13	13	13	13	13	13	13	13	13	13	13	13	**4**
	14	0	0	0	0	0	0	0	0	0	0	0	0
	15	15	15	15	15	15	15	15	15	0	0	0	0
	16	0	0	0	0	0	0	0	0	0	0	0	0
	17	17	0	0	0	0	0	0	0	0	0	0	0

	18	0	0	0	0	0	0	0	0	0	0	0	0
	19	19	19	0	0	0	0	0	0	0	0	0	0
	20	0	0	0	0	0	0	0	0	0	0	0	0
	21	21	21	21	21	21	21	21	21	21	0	0	0
	22	0	0	0	0	0	0	0	0	0	0	0	0
	23	23	0	0	0	0	0	0	0	0	0	0	0
	24	0	0	0	0	0	0	0	0	0	0	0	0
	25	25	25	25	25	25	25	25	25	25	25	25	**7**
	26	0	0	0	0	0	0	0	0	0	0	0	0
	27	27	27	27	0	0	0	0	0	0	0	0	0
	28	0	0	0	0	0	0	0	0	0	0	0	0
	29	29	0	0	0	0	0	0	0	0	0	0	0
	30	0	0	0	0	0	0	0	0	0	0	0	0
	31	31	31	31	31	31	31	0	0	0	0	0	0
	32	0	0	0	0	0	0	0	0	0	0	0	0
	33	33	33	33	33	33	33	33	33	33	0	0	0
	34	0	0	0	0	0	0	0	0	0	0	0	0
	35	35	0	0	0	0	0	0	0	0	0	0	0
	36	0	0	0	0	0	0	0	0	0	0	0	0
	37	37	37	37	37	37	37	37	37	37	37	37	**1**
	38	0	0	0	0	0	0	0	0	0	0	0	0
	39	39	39	0	0	0	0	0	0	0	0	0	0
	40	0	0	0	0	0	0	0	0	0	0	0	0
	41	41	0	0	0	0	0	0	0	0	0	0	0
	42	0	0	0	0	0	0	0	0	0	0	0	0
	43	43	43	43	43	43	43	43	43	43	0	0	0
	44	0	0	0	0	0	0	0	0	0	0	0	0
	45	45	45	45	45	0	0	0	0	0	0	0	0
	46	0	0	0	0	0	0	0	0	0	0	0	0
	47	47	0	0	0	0	0	0	0	0	0	0	0
	48	0	0	0	0	0	0	0	0	0	0	0	0
	49	49	49	49	49	49	49	49	0	0	0	0	0
	50	0	0	0	0	0	0	0	0	0	0	0	0
	51	51	51	51	51	51	51	51	51	0	0	0	0
	52	0	0	0	0	0	0	0	0	0	0	0	0
	53	53	0	0	0	0	0	0	0	0	0	0	0
	54	0	0	0	0	0	0	0	0	0	0	0	0
	55	55	55	55	55	55	0	0	0	0	0	0	0
	56	0	0	0	0	0	0	0	0	0	0	0	0
	57	57	57	57	0	0	0	0	0	0	0	0	0
	58	0	0	0	0	0	0	0	0	0	0	0	0
	59	59	0	0	0	0	0	0	0	0	0	0	0
	60	0	0	0	0	0	0	0	0	0	0	0	0

The surviving evil numbers in the first 60-nr. cycle for the entire 360 nr. loop, with the shortened 9-12-6-2 filter which already filters out all good numbers, so the only remaining

numbers are: 1, 7, 13, 25 and 37. All part of the evil 1-4-6-7-9 family (with the exception of 37, but here it is a cold base 1).

In the first five 60-nr cycles it is not necessary to continue the filtering with the last 2-positional sieving to cleanly obtain the evil number sieve, it's already exclusively in there, but if we do extend the filter to the 300-nr. cycle boundary and add the last 12th sieving round (which isn't necessary until the 301-360 cycle) anyway, the start of the evil number sieve is reduced to the numbers 1, 13 and 37. This is also 1 4 1, our number 42 again. And the 237 main filter start is also in there: 11337 -> 2337 -> 237 3 -> 21 3 -> 33 -> our devil 6, what did you expect for the full filter?

The start of the (first 60-nr. loop) ENS300: 1-7-13-25-37 and start (also first 60-nr. loop) ENS360: 1-13-37. Remarkable, the evil number sieve-300 starts with the good number sieve embedded, with a residue 137 and 191: 1 71 325 7 -> 1 8325 37 -> 183251 -> 191 -> 11. So, the 2358 & 191 algorithm is already fully running in the first 60-nr. cycle. Once I realised that the lucky number sieving alone (sorry, mistake in my previous book 😊) was not sufficient to filter out all the good numbers, I thought about splitting up the sieving to continue the filtering process within the first 60-nr. cycle, after there were not enough surviving numbers to filter out the next position to remove, which was the nr. 21 loop removal in the lucky number sieve.

I got the idea to split up the 21nr. position into two new filtering rounds, on top of, and simultaneous with, the existing positional filtering of the lucky number sieving. This means that I did not stop the 21 positional filtering, I kept in going in the upper 60-nr. cycle levels, when there were enough new survivors again to remove the 21st position. This lucky number sieving runs even further beyond the 21st position filtering the last position which can be used before hitting the 360-nr. main boundary, is the removal of the 37th position. There are no more survivors to remove further numbers within 360 numbers, the 37-sieving is the last pass in the circle for the lucky number sieving.

I split up the 21 positions into a 9-12 position filtering, respecting the 21 but then I realised in order to be able to do this, I needed to finish with an additional 6 position round to keep this operation morally neutral: 9+12+6 = 27 = 9, neutral moral. Without the six, the extra filtering would have changed the polarity: 9+12= 21 = Base 3 on top of the 21 filtering, which has its own base 3 (which would become a base 6 without the adding of the next filter round).

This effectively imposed a morally neutral 9-12-6 filter from the 8th filtering round to the 10th round, together with the 21-25-31 position filtering passes. The 21-filter itself doesn't filter in the first 60 nr. cycle (due to not enough surviving numbers), this is replaced by the 9-position filtering on the same column data and in the next sieving pass, in continuation of this split-process, the 12h positions are removed, together with the 25th from the lucky number sieving which goes now on primarily on the same column data as the new 9-12-6 (936) filter.

So, this part of the filter is neutral; thanks to the third additional filtering of the 6th positions in the tenth sieving round together (in the same round on the same data) with the 31-position filtering from the top lucky number sieving which runs simultaneously. Since this second layer of the 9-12-6 sieving sieves on the same data as the above lucky number sieving (the previous column), they do not conflict with each other.

The only thing which can happen is that both sieve passes filter out the same number in the result column of the sieve round, but that does not matter it is removed as soon as one of the passes removes it, it cannot be removed twice, but some number actually are removed twice, if both passes land of them. Thus, the stacking / layering of the filters doesn't interfere with the filtering process.

But then I realised that in order to close the loop in the algorithm, to be able to remove the last surviving Good numbers, the 3's, the 9-12-6 filter wasn't finished yet. Since the filtering started with a 2-positional filtering, I thought it was opportune to try and close the filter with a 2-positional filter. This effectively removed all good remaining numbers, but only u until the 300-nr. cycle boundary. Then I had to add the last 2-positional filtering, so the complete filter for 360-circles/cycles is 9-12-6-2-2.

It was only after reverse engineering all this, that I saw the symbolism of the filter: the neutral 9-12-6 start to split and relieve the 21 nr-filter is corrupted by the finishing 2-2 stress part, which leads to the fall of the last remaining number 3's. And if we follow the flip-it-around logic of the simulation and unfortunately also our world, the number becomes: 9-12-6-2-2: 91 26 22 -> 19 8 22 -> 1984! Pretty cleanly.

It is literally an inverted 1984-filter, because in its complete form it is: 912622 -> 9184 -> flipped to 1984 because 91/19 flip is also highly symbolic (e.g. covid 19 measures led to a true horrific 1984-society), it reflects the upside-down inverted karma stress of the filter. So, in truth, it is a 9184 filter, not a 1984. The irony. And a special note to the bridge number 26 (11->2, 9->9, 26->911, ...) again, creating the 8 of the 1984 number.

Regarding the choking 22 at the very end of the filter: that's why quattro 1984 is represented in the algorithms on the duo level as a 22, and that's not a catch-22, but now you know where that expression really came from. A catch-22 is literally a vicious loop where you must choose between two wrongs, or keep looping and face the consequences, whatever you do, even if you do nothing. It is encoded in the core of the algorithms. And yes, 1+9+8+4 = 22. And ultimately also a base 4 in the 396-math. Base 22 and Base 4 are Base 1984 in the algorithms, on the lower levels.

We are now ready for the expansion of the X-axis recursive summing rows onto the Y-axis columns with the Evil Number Sieve filtering. We use the X-axis mirrored 237 patterns for this, mapping the whole sieving process on X & Y. These are the first 2-nr. cycle totals, for the first 60-nr. loop, **within the 300 nr-boundary (9-12-6-2 filter).** The Base column is the 13th spreadsheet/readout column. It is not a sieving round; it records the base sum of the terminal survivor result and may be used in later totals. This is sometimes used in other totals (but not always, depends on placing). In the spreadsheets this column is marked as the 13th column.

	Sieving Round	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**Base**
	Sieving Lucky nrs. Position	0	2	3	7	9	13	15	21	25	31	33	37	-
	21 loop into 60 nrs.-> 9-12-6-2	0	0	0	0	0	0	0	**9**	**12**	**6**	**2**	**0**	**-**

61	Tot. Number 2 Cycle (2)	3	1	1	1	1	1	1	1	1	1	1	1	1
62	Tot. Number 2 Cycle (4)	10	4	4	4	4	4	4	4	4	4	1	1	1
63	Tot. Number 2 Cycle (6)	21	9	4	4	4	4	4	4	4	4	1	1	1
64	Tot. Number 2 Cycle (8)	36	16	11	11	11	11	11	11	11	11	8	8	8
65	Tot. Number 2 Cycle (10)	55	25	20	20	20	20	20	20	20	20	8	8	8
66	Tot. Number 2 Cycle (12)	78	36	20	20	20	20	20	20	20	20	8	8	8
67	Tot. Number 2 Cycle (14)	105	49	33	33	33	33	33	33	33	33	21	21	12
68	Tot. Number 2 Cycle (16)	136	64	48	48	48	48	48	48	48	33	21	21	12
69	Tot. Number 2 Cycle (18)	171	81	48	48	48	48	48	48	48	33	21	21	12
70	Tot. Number 2 Cycle (20)	210	100	67	48	48	48	48	48	48	33	21	21	12
71	Tot. Number 2 Cycle (22)	253	121	88	69	69	69	69	69	69	54	21	21	12
72	Tot. Number 2 Cycle (24)	300	144	88	69	69	69	69	69	69	54	21	21	12
73	Tot. Number 2 Cycle (26)	351	169	113	94	94	94	94	94	94	79	46	46	19
74	Tot. Number 2 Cycle (28)	406	196	140	121	94	94	94	94	94	79	46	46	19
75	Tot. Number 2 Cycle (30)	465	225	140	121	94	94	94	94	94	79	46	46	19
76	Tot. Number 2 Cycle (32)	528	256	171	152	125	125	125	94	94	79	46	46	19
77	Tot. Number 2 Cycle (34)	595	289	204	185	158	158	158	127	127	112	46	46	19
78	Tot. Number 2 Cycle (36)	666	324	204	185	158	158	158	127	127	112	46	46	19
79	Tot. Number 2 Cycle (38)	741	361	241	222	195	195	195	164	164	149	83	83	20
80	Tot. Number 2 Cycle (40)	820	400	280	222	195	195	195	164	164	149	83	83	20
81	Tot. Number 2 Cycle (42)	903	441	280	222	195	195	195	164	164	149	83	83	20
82	Tot. Number 2 Cycle (44)	990	484	323	265	238	238	238	207	207	192	83	83	20
83	Tot. Number 2 Cycle (46)	1081	529	368	310	283	238	238	207	207	192	83	83	20

84	Tot. Number 2 Cycle (48)	1176	576	368	310	283	238	238	207	207	192	83	83	20
85	Tot. Number 2 Cycle (50)	1275	625	417	359	332	287	287	256	207	192	83	83	20
86	Tot. Number 2 Cycle (52)	1378	676	468	410	383	338	338	307	258	192	83	83	20
87	Tot. Number 2 Cycle (54)	1485	729	468	410	383	338	338	307	258	192	83	83	20
88	Tot. Number 2 Cycle (56)	1596	784	523	465	438	393	338	307	258	192	83	83	20
89	Tot. Number 2 Cycle (58)	1711	841	580	522	438	393	338	307	258	192	83	83	20
90	**Tot. Number 2 Cycle (60)**	**1830**	**900**	**580**	**522**	**438**	**393**	**338**	**307**	**258**	**192**	**83**	**83**	**20**
	Sum Bases = 74 = 11	**3**	**9**	**4**	**9**	**6**	**6**	**5**	**1**	**6**	**3**	**11**	**11**	**2**

We already covered the first sieving round/column of this table extensively on the X-axis analyses, but we did not have the Y-axis next columns yet in that chapter. The most important row is rownr. 90 again, with the Totals of the 60-nr. cycle. To reverse engineer this clean total row, I had to use the 9-12-6-2-2 order in the split of the 21-position filtering, instead of 12-9-6, because otherwise the 307 and 258 and 83 (11) totals do not emerge, the end row is a lot less elegant with the other 12-9-6 order.

If we use the full 360 nr-circle, then the full filter 9-12-6-2-2 must be applied and the result row looks like this (you can find the entire table in the accompanying excel sheets at the end of the book, or download the excel spreadsheets on our website):

90	**Tot. Number 2 Cycle (60)**	**1830**	**900**	**580**	**522**	**438**	**393**	**338**	**307**	**258**	**192**	**83**	**51**	**6**
	Sum Bases = 69 = 6	**3**	**9**	**4**	**9**	**6**	**6**	**5**	**1**	**6**	**3**	**11**	**6**	**6**

So instead of landing on an 11, the last column drops to a 51 from 83, which is a base 6. Again; both scenarios (300 nr. vs 360 nr. loops) land on target numbers or collapse numbers: 11 (2) for the 300 nr-cycle and 6 for the entire circle (like it loops back to 6 from 2 when you use the entire 360 algorithm). Again, a strong connection between 2 and 6, and also duo balancing anchor 69 again, as the sum of the bases within the 360 nr. boundary and extended filter. And it becomes really interesting when we keep expanding the recursive summing, but now on the column Y-axis themselves, so this is the result table of the 12-filtering rounds recursively summed on the Y-axis, the columns expand to the right in the spreadsheet. So this table is the recursive totalling of the Y-axis, and the last 3 columns are a double recursion, summing the previous columns together (for the totals of the 1->1-11, 1->1-12 and 1->1-13 rounds). The last column with the 13 rounds totals also include the base column which repeats the base number of the 12the sieving round, without sieving itself. But this means that the 12th column is the most important one with the major total, the next column nr. 13 includes its own base again (which changes the base of the end-total column 12).

R	1	1-2	1-3	1-4	1-5	1-6	1-7	1-8	1-9	1-10	1-11	1-12	1-13	1-11 Rec	1-12 Rec	1-13 Rec
1	1	2	3	4	5	6	7	8	9	10	11	12	13	**66**	**78**	**91**
2	2	2	2	2	2	2	2	2	2	2	2	2	2	**22**	**24**	**26**
3	3	6	9	12	15	18	21	24	27	30	30	30	30	**195**	**225**	**255**
4	4	4	4	4	4	4	4	4	4	4	4	4	4	**44**	**48**	**52**
5	5	10	10	10	10	10	10	10	10	10	10	10	10	**105**	**115**	**125**
6	6	6	6	6	6	6	6	6	6	6	6	6	6	**66**	**72**	**78**
7	7	14	21	28	35	42	49	56	63	70	77	84	91	**462**	**546**	**637**
8	8	8	8	8	8	8	8	8	8	8	8	8	8	**88**	**96**	**104**
9	9	18	27	36	45	54	63	72	81	90	90	90	90	**585**	**675**	**765**
10	10	10	10	10	10	10	10	10	10	10	10	10	10	**110**	**120**	**130**
11	11	22	22	22	22	22	22	22	22	22	22	22	22	**231**	**253**	**275**
12	12	12	12	12	12	12	12	12	12	12	12	12	12	**132**	**144**	**156**
13	13	26	39	52	65	78	91	104	117	130	143	156	160	**858**	**1014**	**1174**
14	14	14	14	14	14	14	14	14	14	14	14	14	14	**154**	**168**	**182**
15	15	30	45	60	75	90	105	120	135	135	135	135	135	**945**	**1080**	**1215**
16	16	16	16	16	16	16	16	16	16	16	16	16	16	**176**	**192**	**208**
17	17	34	34	34	34	34	34	34	34	34	34	34	34	**357**	**391**	**425**
18	18	18	18	18	18	18	18	18	18	18	18	18	18	**198**	**216**	**234**
19	19	38	57	57	57	57	57	57	57	57	57	57	57	**570**	**627**	**684**
20	20	20	20	20	20	20	20	20	20	20	20	20	20	**220**	**240**	**260**
21	21	42	63	84	105	126	147	168	189	210	210	210	210	**1365**	**1575**	**1785**
22	22	22	22	22	22	22	22	22	22	22	22	22	22	**242**	**264**	**286**
23	23	46	46	46	46	46	46	46	46	46	46	46	46	**483**	**529**	**575**
24	24	24	24	24	24	24	24	24	24	24	24	24	24	**264**	**288**	**312**
25	25	50	75	100	125	150	175	200	225	250	275	300	307	**1650**	**1950**	**2257**
26	26	26	26	26	26	26	26	26	26	26	26	26	26	**286**	**312**	**338**
27	27	54	81	108	108	108	108	108	108	108	108	108	108	**1026**	**1134**	**1242**
28	28	28	28	28	28	28	28	28	28	28	28	28	28	**308**	**336**	**364**
29	29	58	58	58	58	58	58	58	58	58	58	58	58	**609**	**667**	**725**
30	30	30	30	30	30	30	30	30	30	30	30	30	30	**330**	**360**	**390**
31	31	62	93	124	155	186	217	217	217	217	217	217	217	**1736**	**1953**	**2170**
32	32	32	32	32	32	32	32	32	32	32	32	32	32	**352**	**384**	**416**
33	33	66	99	132	165	198	231	264	297	330	330	330	330	**2145**	**2475**	**2805**
34	34	34	34	34	34	34	34	34	34	34	34	34	34	**374**	**408**	**442**
35	35	70	70	70	70	70	70	70	70	70	70	70	70	**735**	**805**	**875**
36	36	36	36	36	36	36	36	36	36	36	36	36	36	**396**	**432**	**468**
37	37	74	111	148	185	222	259	296	333	370	407	444	445	**2442**	**2886**	**3331**
38	38	38	38	38	38	38	38	38	38	38	38	38	38	**418**	**456**	**494**
39	39	78	117	117	117	117	117	117	117	117	117	117	117	**1170**	**1287**	**1404**
40	40	40	40	40	40	40	40	40	40	40	40	40	40	**440**	**480**	**520**
41	41	82	82	82	82	82	82	82	82	82	82	82	82	**861**	**943**	**1025**
42	42	42	42	42	42	42	42	42	42	42	42	42	42	**462**	**504**	**546**
43	43	86	129	172	215	258	301	344	387	430	430	430	430	**2795**	**3225**	**3655**

44	44	44	44	44	44	44	44	44	44	44	44	44	44	**484**	**528**	**572**
45	45	90	135	180	225	225	225	225	225	225	225	225	225	**2025**	**2250**	**2475**
46	46	46	46	46	46	46	46	46	46	46	46	46	46	**506**	**552**	**598**
47	47	94	94	94	94	94	94	94	94	94	94	94	94	**987**	**1081**	**1175**
48	48	48	48	48	48	48	48	48	48	48	48	48	48	**528**	**576**	**624**
49	49	98	147	196	245	294	343	392	392	392	392	392	392	**2940**	**3332**	**3724**
50	50	50	50	50	50	50	50	50	50	50	50	50	50	**550**	**600**	**650**
51	51	102	153	204	255	306	357	408	459	459	459	459	459	**3213**	**3672**	**4131**
52	52	52	52	52	52	52	52	52	52	52	52	52	52	**572**	**624**	**676**
53	53	106	106	106	106	106	106	106	106	106	106	106	106	**1113**	**1219**	**1325**
54	54	54	54	54	54	54	54	54	54	54	54	54	54	**594**	**648**	**702**
55	55	110	165	220	275	330	330	330	330	330	330	330	330	**2805**	**3135**	**3465**
56	56	56	56	56	56	56	56	56	56	56	56	56	56	**616**	**672**	**728**
57	57	114	171	228	228	228	228	228	228	228	228	228	228	**2166**	**2394**	**2622**
58	58	58	58	58	58	58	58	58	58	58	58	58	58	**638**	**696**	**754**
59	59	118	118	118	118	118	118	118	118	118	118	118	118	**1239**	**1357**	**1475**
60	60	60	60	60	60	60	60	60	60	60	60	60	60	**660**	**720**	**780**

This table has important rows:

11	11	22	22	22	22	22	22	22	22	22	22	22	22	**231**	**253**	**275**
22	22	22	22	22	22	22	22	22	22	22	22	22	22	**242**	**264**	**286**
33	33	66	99	132	165	198	231	264	297	330	330	330	330	**2145**	**2475**	**2805**
44	44	44	44	44	44	44	44	44	44	44	44	44	44	**484**	**528**	**572**
55	55	110	165	220	275	330	330	330	330	330	330	330	330	**2805**	**3135**	**3465**

Interesting patterns: 11 leads to 253 (-> 55) in the last 12th sieving round, so link between 11 and 55 duo anchors again. 22 leads to 242 -> 44 -> 8 and also 264 -> 66 -> 3 and 286-> 88 -> 7. That's a triple mirrored duo (44,66,88 in that order -> 837). Straf. And 33 hits a direct 2805 -> 285. And 44 also leads to a direct 528! And a 484 -> 88 and 572 -> 77. And 55, the special balance number leads also to a 2805, and a 3135 -> 1335 -> 165 -> 111 elegant base 3. By the way: 2805 – 3135 – 3465 = 6 3 9, the inverted main 9-12-6 order, just saying 😊.

36	36	36	36	36	36	36	36	36	36	36	36	36	36	**396**	**432**	**468**
37	37	74	111	148	185	222	259	296	333	370	407	444	445	**2442**	**2886**	**3331**

The 36-nr. cycle is also interesting again, it ends on 396 for the first 11 sieving rounds! And 432 for a full closure at 12 rounds, and 468 with its own base recursively summed again in the 13th round. 37 passes 111, 222, 333, 444 , ends 2442 -> 444, 2886 -> 888 and 3331 -> 91 -> 1.

10	10	10	10	10	10	10	10	10	10	10	10	10	10	**110**	**120**	**130**
20	20	20	20	20	20	20	20	20	20	20	20	20	20	**220**	**240**	**260**
30	30	30	30	30	30	30	30	30	30	30	30	30	30	**330**	**360**	**390**
40	40	40	40	40	40	40	40	40	40	40	40	40	40	**440**	**480**	**520**
50	50	50	50	50	50	50	50	50	50	50	50	50	50	**550**	**600**	**650**
60	60	60	60	60	60	60	60	60	60	60	60	60	60	**660**	**720**	**780**

I think the pattern in the 10 nr. cycle is obviously also in between the rows themselves here, this is very 60/360 nr.-circle minded and very interesting. With a special mention to the balance duo 50 once more: it lands on 550 -> 55, it's counterpart balancer in the ENS. And for the full 12-rounds it lands on 600, where the 60-nr. row itself lands on a double circle, 720 for all the 12 sieving rounds. This confirms my suspicions that the algorithms do a double tour of the 360-circle degree, we need the full 720 sieving process. Another item on my infinity to-do list…

Oh, and last but not least for the bible symbol lovers: row 12 leads to a 144! Was there not a link between 12 (apostles, constellations, the 12 tribes from Israhell with their 12000 doomed (instead of protected, everything is inverted remember) people from each tribe, etc…), and 12*12*1000 = **144**000 in that book? 😊 12 also leads to a 132 -> 33 and 156 -> 66… -> 33 144 66 -> It's a 693 pattern again, another 396-variation.

12	12	12	12	12	12	12	12	12	12	12	12	12	12	**132**	**144**	**156**

Here are the next rows down with this Y-axis recursive summing extrapolation principle (only the first 13 rounds for the Totals Number 2 cycles (60), not the 3 major totals recursive summing of these 13 recursive summing's, because that doesn't fit on a portrait page so these follow in a second table:

Row	**1**	**1-2**	**1-3**	**1-4**	**1-5**	**1-6**	**1-7**	**1-8**	**1-9**	**1-10**	**1-11**	**1-12**	**1-13**
61	3	4	5	6	7	8	9	10	11	12	13	14	15
62	10	14	18	22	26	30	34	38	42	46	47	48	49
63	21	30	34	38	42	46	50	54	58	62	63	64	65
64	36	52	63	74	85	96	107	118	129	140	148	156	164
65	**55**	**80**	**100**	**120**	**140**	**160**	**180**	**200**	**220**	**240**	**248**	**256**	**264**
66	78	114	134	154	**174**	194	214	234	254	274	282	290	298
67	105	154	187	220	253	286	319	352	385	418	439	460	472
68	136	200	248	296	344	392	440	488	536	569	590	611	623
69	**171**	**252**	**300**	**348**	**396**	**444**	**492**	**540**	**588**	**621**	**642**	**663**	**675**
70	210	310	377	425	473	521	569	617	665	698	719	740	752
71	253	374	462	531	600	669	738	807	876	930	951	972	984
72	300	444	532	601	670	739	808	877	946	**1000**	1021	1042	1054
73	351	520	633	727	821	915	1009	1103	1197	1276	1322	1368	1387
74	406	602	742	863	957	1051	1145	1239	1333	1412	1458	1504	1523
75	465	690	830	951	1045	1139	1233	1327	1421	**1500**	1546	1592	1611
76	**528**	784	955	1107	1232	1357	1482	1576	1670	1749	1795	1841	1860
77	595	884	1088	1273	1431	1589	1747	1874	2001	**2113**	2159	2205	2224
78	666	990	1194	1379	1537	1695	1853	**1980**	2107	2219	2265	**2311**	2330
79	741	1102	1343	1565	1760	1955	2150	2314	2478	2627	2710	2793	2813
80	820	1220	**1500**	1722	1917	2112	**2307**	2471	2635	2784	2867	2950	2970
81	903	1344	1624	1846	2041	2236	2431	2595	2759	2908	2991	3074	3094
82	990	1474	1797	2062	**2300**	**2538**	2776	2983	3190	3382	3465	3548	3568
83	1081	1610	1978	2288	2571	2809	3047	3254	3461	3653	3736	3819	3839
84	1176	1752	2120	2430	2713	2951	3189	**3396**	3603	3795	3878	**3961**	3981

85	1275	**1900**	2317	2676	3008	3295	**3582**	3838	4045	4237	**4320**	4403	4423
86	1378	2054	2522	2932	3315	3653	3991	4298	4556	4748	4831	4914	4934
87	1485	2214	2682	3092	3475	3813	4151	4458	**4716**	4908	4991	5074	5094
88	1596	2380	2903	3368	3806	4199	4537	4844	5102	5294	5377	5460	5480
89	1711	2552	3132	3654	4092	4485	4823	5130	5388	5580	5663	5746	5766
90	**1830**	**2730**	**3310**	**3832**	**4270**	**4663**	**5001**	**5308**	**5566**	**5758**	**5841**	**5924**	**5944**

This whole table is interesting of course, with a lot of special numbers popping up all over the place, such as **174, 256 (on row 65! So 11 -> 22), 171, 252, 300, 396 & 444 on the 69 row!,** 528, 1000, 1500, 1900, 1980, 2113 (223), 2300, 2311 (232), 2307 (😊), 2538 (GNS), 3396, 3582 (GNS), 3961, 4320, 4716 (ENS) and many more…

The last row with all totals nr. 2 cycle (60) is also important: 3832 - > 1132 -> 232, 5308 -> 88, 5566 -> 1111 -> 22 -> 4, 5841 flirts with 59841, it misses the 9. And the most important number of the table for the 12 sieving rounds: 5924 -> 596 -> 11.

The last 3 columns which did not fit the page for this Y-axis columns table:

Row	**Cycle**	**1-11 Rec**	**1-12 Rec**	**1-13 Rec**
61	Totals Number 2 Cycle (2)	88	102	117
62	Totals Number 2 Cycle (4)	**327**	375	424
63	Totals Number 2 Cycle (6)	498	562	627
64	Totals Number 2 Cycle (8)	1048	1204	1368
65	Totals Number 2 Cycle (10)	1743	1999	2263
66	Totals Number 2 Cycle (12)	2106	**2396**	2694
67	Totals Number 2 Cycle (14)	3118	3578	4050
68	Totals Number 2 Cycle (16)	4239	4850	5473
69	Totals Number 2 Cycle (18)	4794	5457	6132
70	Totals Number 2 Cycle (20)	5584	6324	7076
71	Totals Number 2 Cycle (22)	7191	8163	**9147**
72	Totals Number 2 Cycle (24)	7938	8980	10034
73	Totals Number 2 Cycle (26)	9874	11242	12629
74	Totals Number 2 Cycle (28)	11208	12712	14235
75	Totals Number 2 Cycle (30)	12147	13739	15350
76	Totals Number 2 Cycle (32)	14235	16076	**17936**
77	Totals Number 2 Cycle (34)	16754	18959	21183
78	Totals Number 2 Cycle (36)	17885	**20196**	22526
79	Totals Number 2 Cycle (38)	20745	**23538**	26351
80	Totals Number 2 Cycle (40)	**22355**	25305	28275
81	Totals Number 2 Cycle (42)	23678	26752	29846
82	Totals Number 2 Cycle (44)	26957	30505	34073
83	Totals Number 2 Cycle (46)	29488	**33307**	37146
84	Totals Number 2 Cycle (48)	31003	34964	38945
85	Totals Number 2 Cycle (50)	34493	**38896**	43319
86	Totals Number 2 Cycle (52)	38278	43192	48126

87	Totals Number 2 Cycle (54)	39985	45059	50153
88	Totals Number 2 Cycle (56)	43406	48866	54346
89	Totals Number 2 Cycle (58)	46210	51956	57722
90	**Totals Number 2 Cycle (60)**	**48109**	**54033**	**59977**

There are many spectacular numbers again like **327, 2396, 9147, 17936, 20196**, **22355, 23538, 33307, 38896, ...**

But row 90 with the nr 2 cycles (60) totals is truly spectacular: 48109 is a direct 1984 hit, inverted again, 54033 is a strong balanced 9006 -> 96! And it ends with... 59977 -> 55 again! The next block is the Totals of the Totals Number 3 Cycle (60):

Sieving Round ->	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**Base**
91	6	4	4	4	4	4	4	4	4	4	1	1	1
92	21	9	4	4	4	4	4	4	4	4	1	1	1
93	45	25	20	20	20	20	20	20	20	20	8	8	8
94	78	36	20	20	20	20	20	20	20	20	8	8	8
95	120	64	48	48	48	48	48	48	48	33	21	21	12
96	171	81	48	48	48	48	48	48	48	33	21	21	12
97	231	121	88	69	69	69	69	69	69	54	21	21	12
98	300	144	88	69	69	69	69	69	69	54	21	21	12
99	378	196	140	121	94	94	94	94	94	79	46	46	19
100	465	225	140	121	94	94	94	94	94	79	46	46	19
101	561	289	204	185	158	158	158	127	127	112	46	46	19
102	666	324	204	185	158	158	158	127	127	112	46	46	19
103	780	400	280	222	195	195	195	164	164	149	83	83	20
104	903	441	280	222	195	195	195	164	164	149	83	83	20
105	1035	529	368	310	283	238	238	207	207	192	83	83	20
106	1176	576	368	310	283	238	238	207	207	192	83	83	20
107	1326	676	468	410	383	338	338	307	258	192	83	83	20
108	1485	729	468	410	383	338	338	307	258	192	83	83	20
109	1653	841	580	522	438	393	338	307	258	192	83	83	20
110	**1830**	**900**	**580**	**522**	**438**	**393**	**338**	**307**	**258**	**192**	**83**	**83**	**20**

The last row lands on the 60 nr. cycle again, which was also on row 90. So we already analysed this result row above. The recursive summing continuation of the Y-axis to the right:

Row	**1**	**1-2**	**1-3**	**1-4**	**1-5**	**1-6**	**1-7**	**1-8**	**1-9**	**1-10**	**1-11**	**1-12**	**1-13**
91	6	10	14	18	22	26	30	34	38	42	43	44	45
92	21	30	34	38	42	46	50	54	58	62	63	64	65
93	45	70	90	110	130	150	170	190	210	230	238	246	254
94	78	114	134	154	174	194	214	234	254	274	282	290	298
95	120	184	232	280	328	376	424	472	520	553	574	595	607
96	**171**	**252**	**300**	**348**	**396**	**444**	**492**	**540**	**588**	**621**	**642**	**663**	**675**

97	231	352	440	509	578	647	716	785	854	908	929	950	962
98	300	444	532	601	670	739	808	877	946	1000	1021	1042	1054
99	378	574	714	835	929	1023	1117	1211	1305	1384	1430	1476	1495
100	465	690	830	951	1045	1139	1233	1327	1421	1500	1546	1592	1611
101	561	850	1054	1239	1397	1555	1713	1840	1967	2079	2125	2171	2190
102	666	990	1194	1379	1537	1695	1853	1980	2107	2219	2265	2311	2330
103	780	1180	1460	1682	1877	2072	2267	2431	2595	2744	2827	2910	2930
104	903	1344	1624	1846	2041	2236	2431	2595	2759	2908	2991	3074	3094
105	1035	1564	1932	2242	2525	2763	3001	3208	3415	3607	3690	3773	3793
106	1176	1752	2120	2430	2713	2951	3189	3396	3603	3795	3878	3961	3981
107	1326	2002	2470	2880	3263	3601	3939	4246	4504	4696	4779	4862	4882
108	1485	2214	2682	3092	3475	3813	4151	4458	4716	4908	4991	5074	5094
109	1653	2494	3074	3596	4034	4427	4765	5072	5330	5522	5605	5688	5708
110	**1830**	**2730**	**3310**	**3832**	**4270**	**4663**	**5001**	**5308**	**5566**	**5758**	**5841**	**5924**	**5944**

The most interesting part of this table is the synergy between row 69 and 96!

69	171	252	300	348	396	444	492	540	588	621	642	663	675
96	171	252	300	348	396	444	492	540	588	621	642	663	675

I think this proves the yin/yang connection between the duo anchors 69 and 96, they have the exact same row values! What a ‘coincidence’ that the 18nr-cycle in the nr-2 cycles lands on row 69 and the same 18nr. cycle but in the 3 nr-looping, lands on row 96! 1. This 69/96 equality is mathematically forced by the common 18-prefix and identical filters; the row-label mirror is the additional resonance.

And the last 3 columns with the sums of the sums which don’t fit the page again:

Row	**Cycle**	**1-11 Rec**	**1-12 Rec**	**1-13 Rec**
91	Totals Number 3 Cycle (3)	283	327	372
92	Totals Number 3 Cycle (6)	498	562	627
93	Totals Number 3 Cycle (9)	1633	1879	2133
94	Totals Number 3 Cycle (12)	2106	**2396**	2694
95	Totals Number 3 Cycle (15)	4063	4658	5265
96	Totals Number 3 Cycle (18)	4794	5457	6132
97	Totals Number 3 Cycle (21)	6949	7899	8861
98	Totals Number 3 Cycle (24)	7938	8980	10034
99	Totals Number 3 Cycle (27)	10900	12376	13871
100	Totals Number 3 Cycle (30)	12147	13739	15350
101	Totals Number 3 Cycle (33)	16380	18551	20741
102	**Totals Number 3 Cycle (36)**	**17885**	**20196**	**22526**
103	**Totals Number 3 Cycle (39)**	**21915**	**24825**	**27755**
104	Totals Number 3 Cycle (42)	23678	26752	29846
105	Totals Number 3 Cycle (45)	28982	32755	36548
106	Totals Number 3 Cycle (48)	31003	34964	38945

107	Totals Number 3 Cycle (51)	37706	42568	47450
108	Totals Number 3 Cycle (54)	39985	45059	50153
109	Totals Number 3 Cycle (57)	45572	51260	56968
110	**Totals Number 3 Cycle (60)**	**48109**	**54033**	**59977**

Row 110 is the same as row 90 again of course: this 90/110 equality is likewise forced by the common 60-prefix. Row 102 (a 3) is also interesting! 17885 -> 8885 -> 245 -> 65 -> 11, 20196 -> clean 396 -> 9, 22526 -> 926 -> 26 -> 8 again. Row 103 has 21915 -> 396 cleanly again and 24825 -> 246 -> 66 -> 3, and 27755 -> 7775 -> 215 -> 26 -> 8 once more, in the last column like the row above (102).

The next rows with the Totals Number 7 Cycle (56), and the totals row nr. 119 with the 2+3+7 recursively summed together:

SR>	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**BS**
111	28	16	11	11	11	11	11	11	11	11	8	8	8
112	105	49	33	33	33	33	33	33	33	33	21	21	12
113	231	121	88	69	69	69	69	69	69	54	21	21	12
114	406	196	140	121	94	94	94	94	94	79	46	46	19
115	630	324	204	185	158	158	158	127	127	112	46	46	19
116	903	441	280	222	195	195	195	164	164	149	83	83	20
117	1225	625	417	359	332	287	287	256	207	192	83	83	20
118	1596	784	523	465	438	393	338	307	258	192	83	83	20
119	**37729**	**18621**	**12396**	**10759**	**9613**	**8893**	**8563**	**7664**	**7076**	**5891**	**2766**	**2766**	**885**

NOTE: ROW119 = SUM (ROW61 -> ROW118)

Needless to say, this result row is spectacular again: 37729 -> 37, 12396 -> 12, 9613 -> 963 1, 8893 -> 73 or 811, 2766 -> 966. Continued summed to the right:

Row	**1**	**1-2**	**1-3**	**1-4**	**1-5**	**1-6**	**1-7**	**1-8**	**1-9**	**1-10**
111	28	44	55	66	77	88	99	110	121	132
112	105	154	187	220	253	286	319	352	385	418
113	231	352	440	509	578	647	716	785	854	908
114	406	602	742	863	957	1051	1145	1239	1333	1412
115	630	954	1158	1343	1501	1659	1817	1944	2071	2183
116	903	1344	1624	1846	2041	2236	2431	2595	2759	2908
117	1225	1850	2267	2626	2958	3245	3532	3788	3995	4187
118	1596	2380	2903	3368	3806	4199	4537	4844	5102	5294
119	**37729**	**56350**	**68746**	**79505**	**89118**	**98011**	**106574**	**114238**	**121314**	**127205**
Bases	**1**	**1**	**4**	**8**	**9**	**1**	**5**	**1**	**3**	**8**

Result row 119: 56350 -> 11 8 -> 1 (or 5 63 5 -> 55 -> 1), 68746 -> 147 46 -> 346 -> 76 -> 4, 79505 -> 71 -> 8, 89118 -> 98118 -> 999 -> 9, 98011 -> 811 -> 1, 106574 -> 1 11 11 -> 5, 114238 -> 114 238 -> 114 211 -> 442 -> 82 -> 1 (also 114238 -> 1 5238 -> 1), 121314 -> 223 14 -> 714 -> 3 (also 12 13 14 -> 3 4 5 -> 3 path), 127205 -> 37 25 -> 377 -> 35 -> 8.

Row	Cycle	1-11	1-12	1-13	1-11 Rec	1-12 Rec	1-13 Rec
111	Tot. Number 7 Cycle (7)	140	148	156	**960**	**1108**	**1264**
112	Tot. Number 7 Cycle (14)	439	460	472	**3118**	**3578**	**4050**
113	Tot. Number 7 Cycle (21)	929	950	962	**6949**	**7899**	**8861**
114	Tot. Number 7 Cycle (28)	1458	1504	1523	**11208**	**12712**	**14235**
115	Tot. Number 7 Cycle (35)	2229	2275	2294	**17489**	**19764**	**22058**
116	Tot. Number 7 Cycle (42)	2991	3074	3094	**23678**	**26752**	**29846**
117	Tot. Number 7 Cycle (49)	4270	4353	4373	**33943**	**38296**	**42669**
118	Tot. Number 7 Cycle (56)	5377	5460	5480	**43406**	**48866**	**54346**
119	**Tot. Number 2+3+7 Cycle (60)**	**129971**	**132737**	**133622**	**1028761**	**1161498**	**1295120**
	Bases sum = 65 = 11.	**11**	**5**	**8**	**7**	**3**	**2**

NOTE: ROW119 = SUM (ROW61 -> ROW118)

Result row 119: 129971 -> 371 -> 11, 132737 -> 33737 -> 333 77 -> 5, 133622 -> 1322 36 -> 1322 -> 44 -> 8, 1028761 -> 128 761 -> 128 77 -> 11 77 -> 88 -> 7, 1161498 -> 116 1498 -> 116 1984 -> 84 -> 3 (also 147 path: 116 1498 -> 17 14 98 -> 1 714 98 -> 9 714 9 -> 3), 1295120 -> 12 9 51 2 -> 3 9 6 2 -> 2.

The partial bases row (without the last 3 columns) is 1-**1-4-8-9**-1-5-1-3-8-11-5-8 (base sum: 65 -> major base 11 total again on row 119) and then closes with the double-total columns: bases 7-3-2, so it ends with a flipped 237 from the main XYZ-sieving filters and recursive summing loops again. But that start of the bases of row 119: 1-1-4-8-9 -> a 1489 -> 1984 (cyclic ring shift) quattro from the second till the fifth column! And this is followed by 15138 -> 693 / 639, and then 11-5-8 -> 69. So: 19841 693 69 -> 1985 693 69 -> 5 9 6 -> 56 -> 11.

When we calculate the complete Base Sum including the last 3 recursive 'total of totals'-columns the Base Sum for the entire string is 65 + 7 + 3 + 2 = 77 -> 5.

We continue downwards in the spreadsheet:

Row	Sieving Round ->	1	2	3	4	5	6
120	Totals Number 2 Cycle (2-60)	19375	9455	6300	5472	4899	4539
121	Totals Number 3 Cycle (3-60)	13230	6610	4400	3822	3384	3114
122	Totals Number 7 Cycle (7-56)	5124	2556	1696	1465	1330	1240

123	**Totals Number 237 Cycle (60)*2**	**75458**	**37242**	**24792**	**21518**	**19226**	**17786**
	Bases **11-9-6-8-11-11-8-19-4-1-6-6**	**38** **11**	**378** **9**	**699** **6**	**2258** **8**	**146** **11**	**7778** **11**

The table with the sieving rounds is continued to the right:

Row	**Sieving Round ->**	**7**	**8**	**9**	**10**	**11**	**12**	**Base**
120	Totals Number 2 Cycle (2-60)	4374	3909	3615	3015	1425	1425	453
121	Totals Number 3 Cycle (3-60)	3004	2694	2498	2054	950	950	302
122	Totals Number 7 Cycle (7-56)	1185	1061	963	822	391	391	130
123	**Totals Number 237 Cycle (60)*2**	**17126**	**15328**	**14152**	**11782**	**5532**	**5532**	**1770**
	Bases **Sum base string: 100!**	**26** **8**	**19** **19**	**112** **4**	**82** **1**	**555** **6**	**555** **6**	**15** **6**

The Bases row is 11-9-6-8-11-11-**8-19-4**-1-6-6: what a very special base string, with multiple 19's, and a total sum of 100! -> 1 19 6 19 19 19 41 66 -> 19 19 19 19 141 666 -> **1111 6666** -> **7777** -> 28 -> 1! And 1984 is also in there again: **8-19-4** is the start (first 3 columns (from 7->9)) of the second six filtering rounds… When we go down further to the right we reach the recursive summing columns of these sieving rounds:

Row	**1**	**1-2**	**1-3**	**1-4**	**1-5**	**1-6**	**1-7**	**1-8**	**1-9**	**1-10**
120	19375	28830	35130	40602	45501	50040	54414	58323	61938	64953
121	13230	19840	24240	28062	31446	34560	37564	40258	42756	44810
122	5124	7680	9376	10841	12171	13411	14596	15657	16620	17442
123	**75458**	**112700**	**137492**	**159010**	**178236**	**196022**	**213148**	**228476**	**242628**	**254410**
Bases	**38** **11** **11**	**137** **11** **11**	**13769** **116** **8**	**691** **61** **7**	**8883** **99** **9**	**1964** **191** **11**	**2233** **55** **1**	**2234** **11 or 2** **11 or 2**	**2238** **222** **6**	**2581** **61** **7**

Row	**Cycle**	**1-11**	**1-12**	**1-13**	**1-11 Rec**	**1-12 Rec**	**1-13 Rec**
120	Totals Number 2 Cycle (2-60)	66378	67803	68256	**525484**	**593287**	**661543**
121	Totals Number 3 Cycle (3-60)	45760	46710	47012	**362526**	**409236**	**456248**
122	Totals Number 7 Cycle (7-56)	17833	18224	18354	**140751**	**158975**	**177329**
123	**Totals Number 237 Cycle (60)*2**	**259942**	**265474**	**267244**	**2057522**	**2322996**	**2590240**
	Bases **Sum base string: 109 and/or 100.**	**256** **22**	**2224** **64**	**88** **16**	**7772** **212**	**23226** **96**	**544** **94**

		4	**1**	**7**	**5**	**6**	**4**

NOTE: ROW123 = SUM (ROW119 -> ROW122)

The second half of the complete Base number string 11-11-8-7-9-11-1-11-6-7-4-1-7-5-6-4 has a total sum of 11+11+8+7 = **37** (first four columns lead to 37) +9+11+1+11 = **69** (so the first 8 columns land on anchor 69) + 6+7 = **82** (for the first 10 columns) and then add the first 3 columns (1-11,1-12 and 1-13) of the second half of the recursive summing rounds this time, and this is a **417**! So, in the sieving rounds themselves, these columns lead to an 8194, and in their recursive totalling it is a 417! To conclude the entire sum: +4 +1 +7 = **94** (duo version of 1984) and then add the last columns again +5 = **99** and lastly +6+4 = **109** -> **19 -> 1**.

The sieving rounds base string itself had a lot of 19's embedded, but now the recursive total string is a 19 itself. Or 100 again, if/when one of the 11's in the string collapses to 2 instead of remaining 11 (109-11+2 = 100). The 11 from column 8 for example is a good collapse candidate (since this 11 has the 'corrupted' **223** 4 in it -> 74 -> 11), then this subtotal is not 69 there, but **60** (69 -11 + 2 = 60). Continuing the alternative path: 60+6+7 = **73** (instead of 82), and then 73 +4+1+7 = **85** (instead of 94), followed by +5+6 = **96** (instead of 99) + last column +4 -> **100** again! -> 1. Both paths are viable and have the same base morality (19 and 100 are both on the evil side of the Tree of Knowledge).

Some alterative paths for the last table: 259942 -> powerful 29992 -> 22, 265474 -> 22447 -> 667 -> 127 -> 37, 267244 -> 26 9 8 -> 88 -> 7, 2057522 -> 7772 -> 212 -> 5, and the most powerful one starts with the major cycle separator 2322 with a residue of 996: 2322996 -> 2322 996 -> 999 6 -> 6, now that's a 6 I would not want to cross in a dark alley at night 😅 and lastly 2590240 -> 2992 -> 22 again, the row nr. 123 started with an 11 (75458) and ends with a 22. On to the next rows:

SR>	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**BS**
124	203	91	60	60	60	60	60	60	60	60	27	27	27
125	1175	559	372	315	315	315	315	315	315	240	126	126	72
126	3011	1459	972	858	723	723	723	630	630	540	276	276	114
127	5711	2791	1860	1551	1389	1299	1299	1113	1113	1023	498	498	120
128	9275	4555	3036	2688	2412	2142	1977	1791	1497	1152	498	498	120
129	**19375**	**9455**	**6300**	**5472**	**4899**	**4539**	**4374**	**3909**	**3615**	**3015**	**1425**	**1425**	**453**
130	615	285	189	189	189	189	189	189	189	159	90	90	63
131	3774	1824	1215	1044	909	909	909	816	816	681	339	339	150
132	9849	4821	3213	2730	2487	2262	2262	1983	1836	1599	747	747	180
133	**14238**	**6930**	**4617**	**3963**	**3585**	**3360**	**3360**	**2988**	**2841**	**2439**	**1176**	**1176**	**393**
134	672	340	232	213	213	213	213	213	213	168	81	81	54
135	4053	2019	1336	1125	963	963	963	839	839	734	371	371	128
136	**4725**	**2359**	**1568**	**1338**	**1176**	**1176**	**1176**	**1052**	**1052**	**902**	**452**	**452**	**182**
137	364	186	132	113	113	113	113	113	113	98	50	50	32
138	1939	961	624	528	447	447	447	385	385	340	175	175	58
139	**2303**	**1147**	**756**	**641**	**560**	**560**	**560**	**498**	**498**	**438**	**225**	**225**	**90**

Rows 129, 133, 136 and 139 are the totals of the 12, 18 and 21 (in 3 and in 7 nr. cycles) number cycles inside the 60-nr. loop. The most interesting nr. of the table is **14238** I think, in the first column on row 133 this is a clean GNS variant: 14238 -> 5238, but like everywhere, all numbers matter. We now recursively sum these columns to the right side of the spreadsheet again:

Row	**1**	**1-2**	**1-3**	**1-4**	**1-5**	**1-6**	**1-7**	**1-8**	**1-9**	**1-10**
124	203	294	354	414	474	534	594	654	714	774
125	1175	1734	2106	2421	2736	3051	3366	3681	3996	4236
126	3011	4470	5442	6300	7023	7746	8469	9099	9729	10269
127	5711	**8502**	10362	11913	13302	14601	15900	17013	18126	19149
128	9275	13830	16866	19554	**21966**	24108	26085	27876	29373	30525
129	**19375**	**28830**	**35130**	**40602**	**45501**	**50040**	**54414**	**58323**	**61938**	**64953**
130	615	900	1089	1278	1467	1656	1845	2034	2223	2382
131	3774	5598	6813	7857	8766	9675	10584	11400	12216	12897
132	9849	14670	17883	20613	**23100**	**25362**	27624	29607	31443	33042
133	**14238**	**21168**	**25785**	**29748**	**33333**	**36693**	**40053**	**43041**	**45882**	**48321**
134	672	1012	1244	1457	1670	1883	2096	2309	2522	2690
135	4053	6072	7408	8533	9496	10459	11422	12261	13100	13834
136	**4725**	**7084**	**8652**	**9990**	**11166**	**12342**	**13518**	**14570**	**15622**	**16524**
137	364	550	682	795	908	1021	1134	1247	1360	1458
138	1939	2900	3524	4052	4499	4946	5393	5778	6163	6503
139	**2303**	**3450**	**4206**	**4847**	**5407**	**5967**	**6527**	**7025**	**7523**	**7961**

Again, some truly interesting results, like row Row 127 with 8502, or row128 with value 21966 → 396. The GNS is also represented again on row 129, 58323, the GNS inverted with the residue value of 3. Row 132 has 23100, followed by 25362 -> 2538, and row 133 in the fifth column: 33333 (on row 133!), followed by 36693, when reduced this is a 339 followed by a 369, and many more… Continuation of the previous table:

Row	**Cycle**	**1-11**	**1-12**	**1-13**	**1-11 Rec**	**1-12 Rec**	**1-13 Rec**
124	Totals Number 2 Cycle (2-12)	801	828	855	5810	6638	7493
125	Totals Number 2 Cycle (14-24)	4362	4488	4560	32864	37352	41912
126	Totals Number 2 Cycle (26-36)	10545	10821	**10935**	82103	92924	103859
127	Totals Number 2 Cycle (38-48)	19647	20145	20265	154226	174371	194636
128	Totals Number 2 Cycle (50-60)	31023	31521	31641	250481	282002	313643
129	**Totals Number 2 Cycle (2-60)**	**66378**	**67803**	**68256**	**525484**	**593287**	**661543**
130	Totals Number 2 Cycle (2-18)	2472	2562	2625	17961	20523	23148

131	Totals Number 2 Cycle (20-36)	13236	13575	13725	102816	116391	130116
132	Totals Number 2 Cycle (38-54)	33789	34536	34716	266982	301518	**336234**
133	**Totals Number 2 Cycle (2-54)**	**49497**	**50673**	**51066**	**387759**	**438432**	**489498**
134	Totals Number 3 Cycle (3-21)	2771	2852	2906	20326	23178	26084
135	Totals Number 3 Cycle (24-42)	**14205**	14576	14704	110843	125419	140123
136	**Totals Number 3 Cycle (3-42)**	**16976**	**17428**	**17610**	**131169**	**148597**	**166207**
137	Totals Number 7 Cycle (7-21)	1508	1558	1590	11027	**12585**	14175
138	Totals Number 7 Cycle (24-42)	**6678**	6853	6911	52375	59228	66139
139	**Totals Number 7 Cycle (7-42)**	**8186**	**8411**	**8501**	**63402**	**71813**	**80314**

The finish of this table also doesn't hold back with values like 10935 -> 936, 68256 -> 666, 593287 -> 5328 7 -> 7, 661543 - > 6667 -> 7, 51066 -> 666, 336234 -> 6663 -> 3, 6678 ->666 etc. There are a lot of straightforward 666's in here 😈, and many 147- (ex. 14205) and 258- trios (ex. 12585 -> 165 -> 111 -> 3) also.

Row	**Sieving Round ->**	**1**	**2**	**3**	**4**	**5**	**6**
140	**Totals All Number Cycles**	**40641**	**19891**	**13241**	**11414**	**10220**	**9635**
141	**Totals All Nr. Cycles + Totals**	**116099**	**57133**	**38033**	**32932**	**29446**	**27421**
142	**All previous Totals**	**426667**	**209911**	**139736**	**120969**	**108171**	**100791**
	Bases **Sum bases: 112->22->4**	**67** **4**	**22** **22**	**137** **11**	**396** **9**	**171** **9**	**171** **9**

Row	**Sieving Round ->**	**7**	**8**	**9**	**10**	**11**	**12**	**Base**
140	**Totals All Number Cycles**	**9470**	**8447**	**8006**	**6794**	**3278**	**3278**	**1118**
141	**Totals All Nr. Cycles + Totals**	**26596**	**23775**	**22158**	**18576**	**8810**	**8810**	**2888**
142	**All previous Totals**	**97821**	**87436**	**81556**	**68413**	**32474**	**32474**	**10667**
	Base **9**	**783** **1**	**8119** **7**	**8116** **4**	**6934** **11**	**3224** **11**	**3224** **11**	**767** **11**

- NOTE: Row 140= Row 129 + Row 133 + Row 136 + Row 139. And Row 141= Row 123 + Row 140. And Row 142 = Sum (Row 61 -> Row 141).

This table with the grand totals of everything are very important again; the numbers speak for themselves, like 38033-> 11033 -> 44, and 426667 -> 6 666 7 -> 697 -> 67 -> 4 or 2888 -> a strong 26. Row 142 is very strong, with the 396 and 171 trios appearing multiple times in these major totals, and also important symbolic numbers with interesting paths:

426667 - > 42 666 7 -> 6666 7 -> 697 -> 13 -> 4. The 666 path in this first column of the main total rows. Next: 209911 -> 2 99 11 -> 2911 -> 22 -> 4. Followed by a catch 22, but created with a 911. Next: 139736 -> 1 39 73 6 -> 173 396 (duo 39 & 73 swap on duo level) -> 173 -> 11. Next: 120969 -> 12 09 69 -> 396 9 -> 9. Clean 396. Next: 108171 -> 18 171 -> 99 -> 9. The devil's 171 path. Next: 100791 -> 17 91 -> 171 9 -> 99 -> 9. Ditto.

But the most interesting might be the analyses of the bases string of row 142: 4-22-11-9-9-9-9-1-7-4-11-11-11 - > This leads to a 'start-55' again (like in Pi) -> 44 11 -> 55 followed by a 174 and then three 911's! -> 55 174 911 911 911 -> 55 becomes 88 with a residue 174 -> 88 174 -> 73 -> good 10! Our beloved Devine 37 mirror, built out of 55, 174 and three 911!

Or a nice double 1984 path at the start in the first four columns with the residue 4 of column 10: 4-**22**-11-9 – 4 -> 44 1 194 -> 819 14 -> 8194 1 and then the rest of the string 999 1 7 11 11 11-> 8194 1 999 8 1111 11 -> 8194 19822 11 -> 1984 1984 with residue 11 (or 2), like it's saying: look 2 times 1984! In the end it becomes: 1984 1984 2 -> 9999 442 -> 82, also a good 10, just like the alternative path 73 from the path explained above, made out of one 1984 permutation (8194) and one 'clean' 19822 -> 1984 in the correct order. All roads lead not to Rome, but to the initial 1984 (9-12-6-2-2) filter (even the 22 itself is in the path twice here, and the 422 can also be read as a 62/26 instead of 44, and then you 'respect'/duplicate the entire complete 9-12-6-2-2 filter in the bases of the end-result row!! Not to mention the three 911's 😉 Wow... And the final recursive summing of these rows at the right side of the spreadsheet:

Row	**1**	**1-2**	**1-3**	**1-4**	**1-5**	**1-6**	**1-7**	**1-8**
140	**40641**	**60532**	**73773**	**85187**	**95407**	**105042**	**114512**	**122959**
141	**116099**	**173232**	**211265**	**244197**	**273643**	**301064**	**327660**	**351435**
142	**426667**	**636578**	**776314**	**897283**	**1005454**	**1106245**	**1204066**	**1291502**
Base	**66667**	**6668**	**7777**	**883**	**55 144**	**1162**	**1666**	**3962**
B∑(1-13)= 497 = 11	**13**	**8**	**37**	**73**	**55**	**28**	**1**	**2**
	4	**8**	**1**	**1**	**1**	**1**	**1**	**2**

Continued:

Row	**1-9**	**1-10**	**1-11**	**1-12**	**1-13**	**1-11 Rec**	**1-12 Rec**	**1-13 Rec**
140	**130965**	**137759**	**141037**	**144315**	**145433**	**1107814**	**1252129**	**1397562**
141	**373593**	**392169**	**400979**	**409789**	**412677**	**3165336**	**3575125**	**3987802**
142	**1373058**	**1441471**	**1473945**	**1506419**	**1517086**	**11632583**	**13139002**	**14656088**

Base	137 88 99 9	91471 31 4	147399 33 6	665 62 8	775 55 1	11693 11 2	442 82 1	565688 11 2

- NOTE: Row 140= Row 129 + Row 133 + Row 136 + Row 139. And Row 141= Row 123 + Row 140. And Row 142 = Sum (Row 61 -> Row 141).

What's really interesting is that the longer the results become, the more clear the unit/duo/trio/quattro+ patterns emerge at the left, middle and right sides of the strings, and also, a lot of mirrored substrings appear (ex. 13139002 has two 13's, or 211265 -> 211211, etc.). For example, the number **11632583** has a path 116 – 3258 – 3 -> 893 -> 11, but it's also the entire GNS embedded in a nifty 693: 6 3258 3, with its own target number 11 up front! It does not get much cleaner than that. So, in this path, the string is split into 4 pieces: 11 – 6 – 3258 – 3, which is 11 693; made with the GNS as the 9. I even did an extra 'third' recursive total for the entire rows here (which is not in the tables, but which sums the 16 columns together). The result is spectacular:

Row 140: Grand total of 5155067 -> 555 77 -> 5555 -> 11 or 20 -> 11 or 2. Multiplication algorithms leads to 20, duo-sum collapsing 5555 leads to 11).

Row 141: Grand total of 14716065 -> 147 16 65 -> 3 7 11 -> 372 which is the 237 filter again!

Row 142: Grand total of 54083761 -> 54 83 761 -> 9 11 77 -> 88 -> 7.

The base values of row 142 is also special again, with once more a lot of 666's and our usual suspects like 37, 73 (adjacently mirroring each other), 55, 62, 11, etc. The total base sum for the 13 first columns (the 14-15-16 column are the 'double' recursive summing of the recursive summing's of the previous 11,12 and 13 columns) is 497: an 11 bridge through 9-purge, with terminal base 2. And the last value in the table, 14656088 is also an elegant 11: 146 56 88 -> 11 11 88 -> 11 99 -> 11. Alternative path: 14 656 88 -> 714 611 -> 38 -> 11.

This concludes the analysis of the first 60-nr. cycle loop, the sieving tables of the other five 60-nr. loops are not included in this book but can be found in my accompanying excel spreadsheets.

There is one important exception in the sieving process algorithm though, which happens in the second and third 60 nr. cycles and removes two extra numbers, **109 and 127**, who are not removed by the 'classic' algorithm which I explained here above, and also nr. 127 changes some others downstream who would normally have been removed but now remain in the survival list. So even if the next 60 nr. cycle tables are not included here, I need to clarify these exceptions, otherwise there are discrepancies in the main sieving algorithm. These exceptions concern a very special balance hinge number, 19. The Matrix uses such hinge numbers to keep/maintain/achieve the perfect balance in it's main moral algorithms.

The 19-Hinge Exception Layer in the Y-Axis Sieve

During the later audit of the ENS300 and ENS360 sieve tables performed by Claude Fable 5, an important hidden layer became visible. The ordinary public rule of the Y-axis sieve describes the normal positional filtering process: the primary LNS filter and the secondary **9-12-6-2-2** stress filter operate on the survivor lists round by round.

However, the completed ENS300/ENS360 tables revealed that the ordinary rule alone does not fully describe the actual branch used by the Matrix. Two exceptional removals are required. Both are connected to the same hidden hinge-number: **19.**

This does not mean the ordinary sieve is wrong. It means the ordinary sieve is incomplete without the newly discovered **19-Hinge Exception Layer**.

The number **19** functions here as a special exception-number. It bends the ordinary sieve at two exact hinge-points, allowing the ENS branch to close correctly. This is consistent with the deeper Tree of Knowledge architecture, where special exception-numbers can force a branch at their own position while still preserving the larger internal logic of the system.

In the public ENS sieve, 19 appears through two hidden forms: **127 → 1|27 → 1|9 → 19 and 109 → 1|09 → 1|9 → 19.**

These are not random values. They occur at exact transition points in the filtering process, and they act in two different ways.

First Type: Before-Pass / In-Pass Hinge-Bend

The first 19-hinge exception is **127**.

This exception occurs at the 15-pass stage. Under the ordinary rule, the 15-pass would remove every 15th survivor. The expected removals would therefore be: **55, 117, 181, 243, 315.** But the completed Matrix table removes: **55, 117, 127, 189, 255, 319.**

This is not simply an extra deletion. The removal of **127** acts as a true positional hinge-bend.

The value **127** is removed before the rest of that pass has fully resolved. Because it is removed inside the active counting stream, the later survivor positions shift. As a result, the later removals change: **181 becomes 189, 243 becomes 255, 315 becomes 319.**

So the 127 exception does not merely remove one extra number. It bends the counting stream itself. This is why 127 is the **before-pass** or **in-pass hinge-bend** form of the 19 exception. Its deeper structure is also significant: **127 → 1|27 → 1|9 → 19**

The 27 reduces to 9, making 127 a hidden 19-family value. It appears at the place where the primary filtering logic and the secondary stress-filter logic begin to connect. It also links the **15 → 6** filtering layer with the first **9** of the **9-12-6-2-2** stress filter. In this sense, 127 acts as a **6/7 and 69 hinge**. So the first rule is:

When the 19-hinge appears as 127 at the 6/7–69 transition, it is removed before the rest of the pass resolves, bending the positional stream from that point onward.

Second Type: After-Pass / Mirror-Overlay Exception

The second 19-hinge exception is **109**.

This exception occurs at the 25/12 stage, where the 25-pass and 12-pass operate on the same survivor list. Under the ordinary rule, the expected removals are: **49, 115, 129, 177, 243, 261, 307.**

The completed Matrix table removes: **49, 109, 115, 129, 177, 243, 261, 307**

Here, **109** does not bend the counting stream inside the same pass. The ordinary 25/12 removals remain intact. The number 109 is added as a direct exception after the normal removal positions have already been fixed.

This means 109 is not a before-pass hinge-bend like 127. It is an **after-pass mirror-overlay** exception. Its hidden 19 structure is: **109 → 1|09 → 1|9 → 19.**

This occurs at the entry of the secondary stress-filter logic. The stress filter **9-12-6-2-2** can also be read in mirrored grouped form as: **91 | 26 | 22.**

Here, **91** is the mirror of **19**, **26** acts as a hinge, and **22** marks the stress gate. At this point, the Matrix removes the hidden mirror-form of 19 through **109**.

So the second rule is: **When the 19-hinge appears as 109 at the stress-filter mirror entry, it is removed after the normal 25/12 pass positions have already been determined. It overlays the ordinary removal union without shifting that same pass.**

Why the Two 19 Exceptions Behave Differently. The two exceptions do not operate in the same mode. **127 bends the stream.** It is removed before the rest of the active pass resolves, so later removals shift. **109 overlays the stream.** It is removed after the normal 25/12 removal positions are already fixed, so the normal removals remain unchanged and 109 is added on top, so it does not shift the other removals inside that same pass. It does, however, set the later branch because 109 is absent from the next column onward. This distinction between the modus operandi between 109 and 127 is essential.

Without this distinction, the table looks like it contains two unexplained deviations. With the 19-Hinge Exception Layer, those deviations become structured: **127 = hidden 19 hinge-bend and 109 = hidden 19 mirror-overlay.** Together they produce the canonical ENS300 and ENS360 branch. **Resulting Closure:**

With the two 19-hinge exceptions included, the sieve produces the canonical 24-member ENS300 field and the 12-member ENS360 strand. The ENS300 branch closes as the 24-member survivor field. The ENS360 branch then selects the odd strand from that field, producing the 12-member final strand. This is why the two 19-hinge exceptions are not decorative. They are structurally load-bearing. Without them, the ordinary public sieve follows a different branch and the ENS300/ENS360 closure does not land in its completed form. The discovery of the 19-Hinge Exception Layer therefore upgrades the Y-axis rule:

The ordinary Y-axis sieve describes the main filtering process. The 19-Hinge Exception Layer describes two special rule-bending events required for the ENS branch to close correctly.

This also confirms that the Matrix does not operate only through regular sieves. It also contains rare exception-numbers that can bend a branch at their own position while preserving the deeper balance of the system. In the ENS300/ENS360 sieve, the public exception-number is: **19.**

IMPORTANT: The two ENS exception removals appear to form a 3–6 exception pair inside 369 positional windows. The extra removal of nr. 109 on top of standard algorithm happens at the 15-9-12 -> 693 positional sieving of rounds 7-8-9.

So 109 occurs in the 15–9–12 window, which reduces as **6–9–3**. It is a hidden **19** value, because **109 → 1|09 → 19**. This exception acts **after** the normal 25/12 removals of that round have already been fixed. Therefore it does not shift the other removals inside that same pass; it overlays the already-marked union and then sets the later branch by removing 109 from the next survivor state. The extra removal of nr. 127 on top of the standard algorithm at the 13-15-9 -> 1 (residue) 369 positional sieving of rounds 6-7-8.

So 127 occurs in the 13–15–9 window, readable as **1|3–6–9**, or **1 369**. It is also a hidden **19** value, because **127 → 1|27 → 1|9 → 19**. This exception acts **before the continuation** of the 15-pass after the normal removals of 55 and 117. Therefore it bends the live counting stream, shifting the later removals from **181, 243, 315** to **189, 255, 319**. So the two exception modes are complementary:

109 = 12→3 after-pass mirror-overlay.
127 = 15→6 before-continuation hinge-bend.

The two 19s do not behave randomly — they behave as a **3/6 pair inside 369-position logic**.

The **strict/classic ENS300** has **25 numbers**, but it is **not fully clean evil-family** if we judge by digit root. It contains **three remaining good-family leaks**: **201 → 3, 237 → 3, 327 → 3.**

Strict/classic ENS300 :1, 7, 13, 25, 37, 63, 69, 79, 99, 109, 135, 141, 159, 189, **201**, 213, **237**, 261, 267, 285, 295, 319, **327**, 337, 357.

The **Strict ENS300 without the 19-Hinge 109/127 exceptions** is still an **ENS branch** because it is produced by the Evil Number Sieve process. But by **digit-root family**, it is not fully purified, because it contains these three **3-family** survivors. So: **ENS300 strict = 25 survivors, with 3 good-family leaks.**

The **Strict ENS360 without the 109/127 exceptions:** the final 2-pass / odd-strand selector then keeps those same three good number sieve leaks: **201, 237, 327.**

Strict/classic ENS360: 1, 13, 37, 69, 99, 135, 159, **201**, **237**, 267, 295, **327**, 357. So: **ENS360 strict = 13 survivors, with the same 3 good-family leaks still inside.**

Without the 19-hinge exceptions, the ENS branch remains structurally "evil-sieve produced," but it is not fully evil-family purified. The leakage already exists in ENS300 and then survives into ENS360. So the 19-hinge layer does two things:

1. It reduces ENS300 from 25 to 24.
2. It removes the 3-family leakage so ENS360 closes as 12 clean survivors instead of 13 leaky survivors.

That is why the exceptions are not cosmetic. They are the purification hinge. The three "good leaks" in the strict/no-exception ENS branch are not random-looking good residues at all:

Leak	Digit root	237 relation
201	3	**21 / 3 duo-version** of the 237 family (2 3+7 -> 21)
237	3	**direct 237 hit**
327	3	**237 permutation**

So the strict ENS branch does **not** leak random Good numbers. It leaks a **237-trio signature**. And the sum: **201 + 237 + 327 = 765,** with the standard digit-root: **7 + 6 + 5 = 18 → 9.** The 711 reading also works as a structural split: **765 → 7 | 6+5 → 7 | 11 → 711.** The three good number leaks can be aggregated into a **9 / 711 closure**. That means the no-exception branch is not simply "failed." It contains a different kind of closure:

The strict ENS300/ENS360 branch leaks exactly three 3-family survivors, but those three survivors form a 237-family trio whose aggregate closes to 9 / 711.

With 109/127 exceptions: The branch closes by **removing/redirecting** the 237-trio leakage and producing the canonical clean 24→12 ENS closure. **Without 109/127 exceptions:**
The branch does not fully purify by removal, but the remaining good number leaks form a **237-trio aggregate**, which closes to **9 / 711**.

The strict branch reveals the 237 leakage-trio; the exception branch resolves it into the canonical ENS closure. In the strict no-exception branch, the only Good-family survivors are not arbitrary leaks: they are exactly 201, 237, and 327, a 237-family trio. Their aggregate sum is 765, which reduces to 9 and can also be read as 7|11. Thus the strict classic branch contains a hidden 237→711 summing closure, while the 19-hinge branch resolves the same leakage by exception-removal into the canonical ENS300/ENS360 form. That is a second branch meaning, not an error branch.

The Y-axis ENS mechanism is now completely understood, and it has two closures. The 19-hinge branch closes by *removal* — 24 and 12 members, the 360/999/396 landings. The classic branch closes by *aggregation* — 25 and 13 members, with its entire good-side residue forming one 237-family trio that sum-collapses to 9, readable as 711.