37 échelles nonoctaviantes de l'Ephémérôde Barmadé

0
12.67606
25.35211
38.02817
50.70423
63.38028
76.05634
88.73239
101.40845
114.08451
126.76056
139.43662
152.11268
164.78873
177.46479
190.14085
202.81690
215.49296
228.16901
240.84507
253.52113
266.19718
278.87324
291.54930
304.22535
316.90141
329.57746
342.25352
354.92958
367.60563
380.28169
392.95775
405.63380
418.30986
430.98592
443.66197
456.33803
469.01408
481.69014
494.36620
507.04225
519.71831
532.39437
545.07042
557.74648
570.42254
583.09859
595.77465
608.45070
621.12676
633.80282
646.47887
659.15493
671.83099
684.50704
697.18310
709.85915
722.53521
735.21127
747.88732
760.56338
773.23944
785.91549
798.59155
811.26761
823.94366
836.61972
849.29577
861.97183
874.64789
887.32394
900

71

6teM/

0
13.15789
26.31579
39.47368
52.63158
65.78947
78.94737
92.10526
105.26316
118.42105
131.57895
144.73684
157.89474
171.05263
184.21053
197.36842
210.52632
223.68421
236.84211
250
263.15789
276.31579
289.47368
302.63158
315.78947
328.94737
342.10526
355.26316
368.42105
381.57895
394.73684
407.89474
421.05263
434.21053
447.36842
460.52632
473.68421
486.84211
500

38

4te/

0
13.72549
27.45098
41.17647
54.90196
68.62745
82.35294
96.07843
109.80392
123.52941
137.25490
150.98039
164.70588
178.43137
192.15686
205.88235
219.60784
233.33333
247.05882
260.78431
274.50980
288.23529
301.96078
315.68627
329.41176
343.13725
356.86275
384.31373
398.03922
411.76471
425.49020
439.21569
452.94118
466.66667
480.39216
494.11765
507.84314
521.56863
535.29412
549.01961
562.74510
576.47059
590.19608
603.92157
617.64706
631.37255
645.09804
658.82353
672.54902
686.27451
700

51

5te/

0
14.58333
29.16667
43.75
58.33333
72.91667
87.5
102.08333
116.66667
131.25
145.83333
160.41667
175
189.58333
204.16667
218.75
233.33333
247.91667
262.5
277.08333
291.66667
306.25
320.83333
335.41667
350
364.58333
379.16667
393.75
408.33333
422.91667
437.5
452.08333
466.66667
481.25
495.83333
510.41667
525
539.58333
554.16667
568.75
583.33333
597.91667
612.5
627.08333
641.66667
656.25
670.83333
685.41667
700

48

5te/

0
15.21739
30.43478
45.65217
60.86957
76.08696
91.30435
106.52174
121.73913
136.95652
152.17391
167.39130
182.60870
197.82609
213.04348
228.26087
243.47826
258.69565
273.91304
289.13043
304.34783
319.56522
334.78261
350
365.21739
380.43478
395.65217
411.86957
426.08696
441.30435
456.52174
471.73913
486.95652
502.17391
517.39130
532.60870
547.82609
563.04348
578.26087
593.47826
608.69565
623.91304
639.13043
654.34783
669.56522
684.78261
700

46

5te/

0
16.07143
32.14286
48.21429
64.28571
80.35714
96.42857
112.5
128.57143
144.64286
160.71429
176.78571
192.85714
208.92857
225
241.07143
257.14286
273.21429
289.28571
305.35714
321.42857
337.5
353.57143
369.64286
385.71429
401.78571
417.85714
433.92857
450
466.07143
482.14286
498.21429
514.28571
530.35714
546.42857
562.5
578.57143
594.64286
610.71429
626.78571
642.85714
658.92857
675
691.07143
707.14286
723.21429
739.28571
755.35714
771.42857
787.5
803.57143
819.64286
835.71429
851.78571
867.85714
883.92857
900

56

6teM/

0
17.07317
34.14634
51.21951
68.29268
85.36585
102.43902
119.51220
136.58537
153.65854
170.73171
187.80488
204.87805
221.95122
239.02439
256.09756
273.17073
290.24390
307.31707
324.39024
341.46341
358.53659
375.60976
392.68293
409.75610
426.82927
443.90244
460.97561
478.04878
495.12195
512.19512
529.26829
546.34146
563.41463
580.48780
597.56098
614.63415
631.70732
648.78049
665.85366
682.92683
700

41

5te/

0
18
36
54
72
90
108
126
144
162
180
198
216
234
252
270
288
306
324
342
360
378
396
414
432
450
468
486
504
522
540
558
576
594
612
630
648
666
684
702
720
738
756
774
792
810
828
846
864
882
900

50

6teM/

0
19.23077
38.46154
57.69231
76.92308
96.15385
115.38462
134.61538
153.84615
173.07692
192.30769
211.53846
230.76923
250
269.23077
288.46154
307.69231
326.92308
346.15385
365.38462
384.61538
403.84615
423.07692
442.30769
461.53846
480.76923
500

26

4te/

0
20.93023
41.86047
62.79070
83.72093
104.65116
125.58140
146.51163
167.44186
188.37209
209.30233
230.23256
251.16279
272.09302
293.02326
313.95349
334.88372
355.81395
376.74419
397.67442
418.60465
439.53488
460.46512
481.39535
502.32558
523.25581
544.18605
565.11628
586.04651
606.97674
627.90698
648.83721
669.76744
690.69767
711.62791
732.55814
753.48837
774.41860
795.34884
816.27907
837.20930
858.13953
879.06977
900

43

6teM/

0
22.5
45
67.5
90
112.5
135
157.5
180
202.5
225
247.5
270
292.5
315
337.5
360
382.5
405
427.5
450
472.5
495
517.5
540
562.5
585
607.5
630
652.5
675
697.5
720
742.5
765
787.5
810
832.5
855
877.5
900

40

6teM/

0
24.13793
48.27586
72.41379
96.55172
120.68966
144.82759
168.96552
193.10345
217.24138
241.37931
265.51724
289.65517
313.79310
337.93103
362.06897
386.20690
410.34483
434.48276
458.62069
482.75862
506.89655
531.03448
555.17241
579.31034
603.44828
627.58621
651.72414
675.86207
700

29

5te/

0
26.43157
52.86314
79.29470
105.72627
132.15784
158.58941
185.02097
211.45254
237.88411
264.31568
290.74724
317.17881
343.61038
370.04195
396.47351
422.90508
449.33665
475.76822
502.19978
528.63135
555.06292
581.49449
607.92605
634.35762
660.78919
687.22076
713.65233
740.08389
766.51546
792.94703
819.37860
845.81016
872.24173
898.67330
925.10487
951.53643
977.96800
1004.39957
1030.83114
1057.26270
1083.69427
1110.12584
1136.55741
1162.98897
1189.42054
1215.85211

66
H

0
27.77778
55.55556
83.33333
111.11111
138.88889
166.66667
194.44444
222.22222
250.00000
277.77778
305.55556
333.33333
361.11111
388.88889
416.66667
444.44444
472.22222
500

18

4te/

0
29.16667
58.33333
87.50000
116.66667
145.83333
175
204.16667
233.33333
262.50000
291.66667
320.83333
350
379.16667
408.33333
437.50000
466.66667
495.83333
525
554.16667
583.33333
612.50000
641.66667
670.83333
700

24

5te/

0
31.19425
62.38850
93.58275
124.77700
155.97125
187.16550
218.35975
249.55400
280.74825
311.94250
343.13675
374.33100
405.52525
436.71950
467.91375
499.10800
530.30225
561.49650
592.69075
623.88500
655.07926
686.27351
717.46776
748.66201
779.85626
811.05051
842.24476
873.43901
904.63326
935.82751
967.02176
998.21601
1029.41026
1060.60451
1091.79876
1122.99301
1154.18726
1185.38151
1216.57576

56
H

0
32.36046
64.72091
97.08137
129.44183
161.80229
194.16274
226.52320
258.88366
291.24411
323.60457
355.96503
388.32549
420.68594
453.04640
485.40686
517.76731
550.12777
582.48823
614.84869
647.20914
679.56960
711.93006
744.29051
776.65097
809.01143
841.37189
873.73234
906.09280
938.45326
970.81371
1003.17417
1035.53463
1067.89508
1100.25554
1132.61600
1164.97646
1197.33691
1229.69737

54
H

0
35
70
105
140
175
210
245
280
315
350
385
420
455
490
525
560
595
630
665
700

20

5te/

0
38.05063
76.10126
114.15190
152.20253
190.25316
228.30379
266.35442
304.40506
342.45569
380.50632
418.55695
456.60758
494.65822
532.70885
570.75948
608.81011
646.86074
684.91138
722.96201
761.01264
799.06327
837.11390
875.16454
913.21517
951.26580
989.31643
1027.36706
1065.41770
1103.46833
1141.51896
1179.56959
1217.62022

46
H

0
40.73680
81.47360
122.21039
162.94719
203.68399
244.42079
285.15759
325.89438
366.63118
407.36798
448.10478
488.84158
529.57837
570.31517
611.05197
651.78877
692.52557
733.26236
773.99916
814.73596
855.47276
896.20956
936.94635
977.68315
1018.41995
1059.15675
1099.89355
1140.63034
1181.36714
1222.10394

43
H

0
43.75
87.5
131.25
175
218.75
262.50
306.25
350
393.75
437.5
481.25
525
568.75
612.5
656.25
700

16

5te/

0
47.05882
94.11765
141.17647
188.23529
235.29412
282.35294
329.41176
376.47059
423.52941
470.58824
517.64706
564.70588
611.76471
658.82353
705.88235
752.94118
800

17

6temm/

0
53.27294
106.54589
159.81883
213.09177
266.36472
319.63766
372.91060
426.18354
479.45649
532.72943
586.00237
639.27532
692.54826
745.82120
799.09415
852.36709
905.64003
958.91297
1012.18592
1065.45886
1118.73180
1172.00475
1225.27769

33
H

1/4 de ton d'Al Farabi

0
58.69152
117.38304
176.07456
234.76608
293.45760
352.14911
410.84063
469.53215
528.22367
586.91519
645.60671
704.29823
762.98975
821.68127
880.37279
939.06430
997.75582
1056.44734
1115.13886
1173.83038
1232.52190

30
H

0
64.28571
128.57143
192.85714
257.14286
321.42857
385.71429
450.00000
514.28571
578.57143
642.85714
707.14286
771.42857
835.71429
900

14

6teM/

0
72.72727
145.45455
218.18182
290.90909
363.63636
436.36364
509.09091
581.81818
654.54545
727.27273
800

11

6temm/

0
83.33333
166.66667
250
333.33333
416.66667
500

6

4te/

0
93.33333
186.66667
280
373.33333
466.66667
560
653.33333
746.66667
840
933.33333
1026.66667
1120
1213.33333
1306.66667
1400

15

8ve+2deM/

0
111.11111
222.22222
333.33333
444.44444
555.55556
666.66667
777.77778
888.88889
1000

9

7em/

0
123.07692
246.15385
369.23077
492.30769
615.38462
738.46154
861.53846
984.61538
1107.69231
1230.76923
1353.84615
1476.92308
1600

13

8ve+3ceM/

0
138.46154
276.92308
415.38462
553.84615
692.30769
830.76923
969.23077
1107.69231
1246.15385
1384.61538
1523.07692
1661.53846
1800

13

8ve+4te+/

0
153.84615
307.69231
461.53846
615.38462
769.23077
923.07692
1076.92308
1230.76923
1384.61538
1538.46154
1692.30769
1846.15385
2000

13

8ve+6tem/

0
166.66667
333.33333
500

3

4te/

0
181.81818
363.63636
545.45455
727.27273
909.09091
1090.90909
1272.72727
1454.54545
1636.36364
1818.18182
2000

11

8ve+6tem/

0
203.91
407.82
611.73
815.64
1019.55
1223.46

9
H

0
218.18182
436.36364
654.54545
872.72727
1090.90909
1309.09091
1527.27273
1745.45455
1963.63636
2181.81818
2400

11

double octaviante 2x8ve/

0
231.17409
462.34819
693.52228
924.69638
1155.87047
1387.04456

8
H