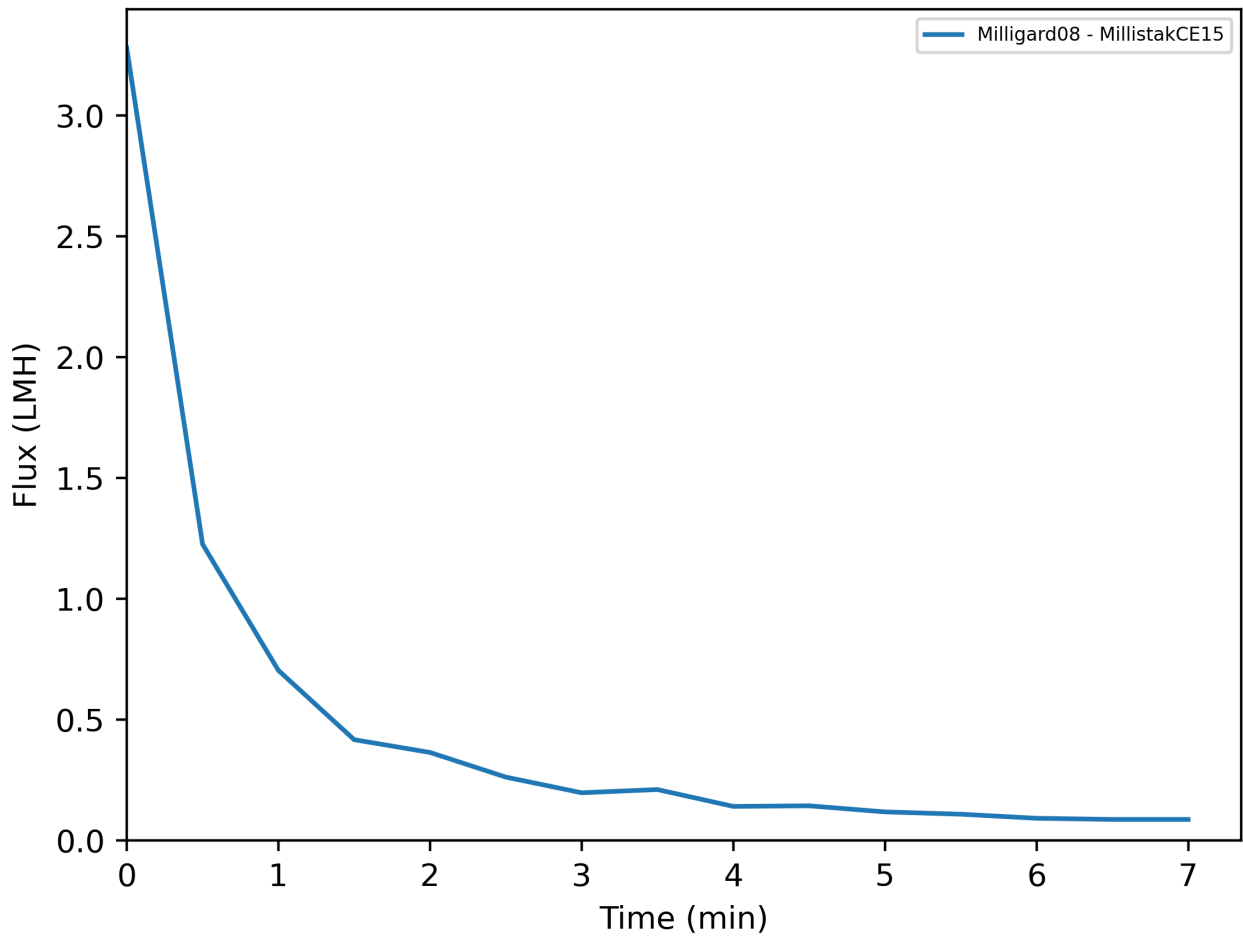


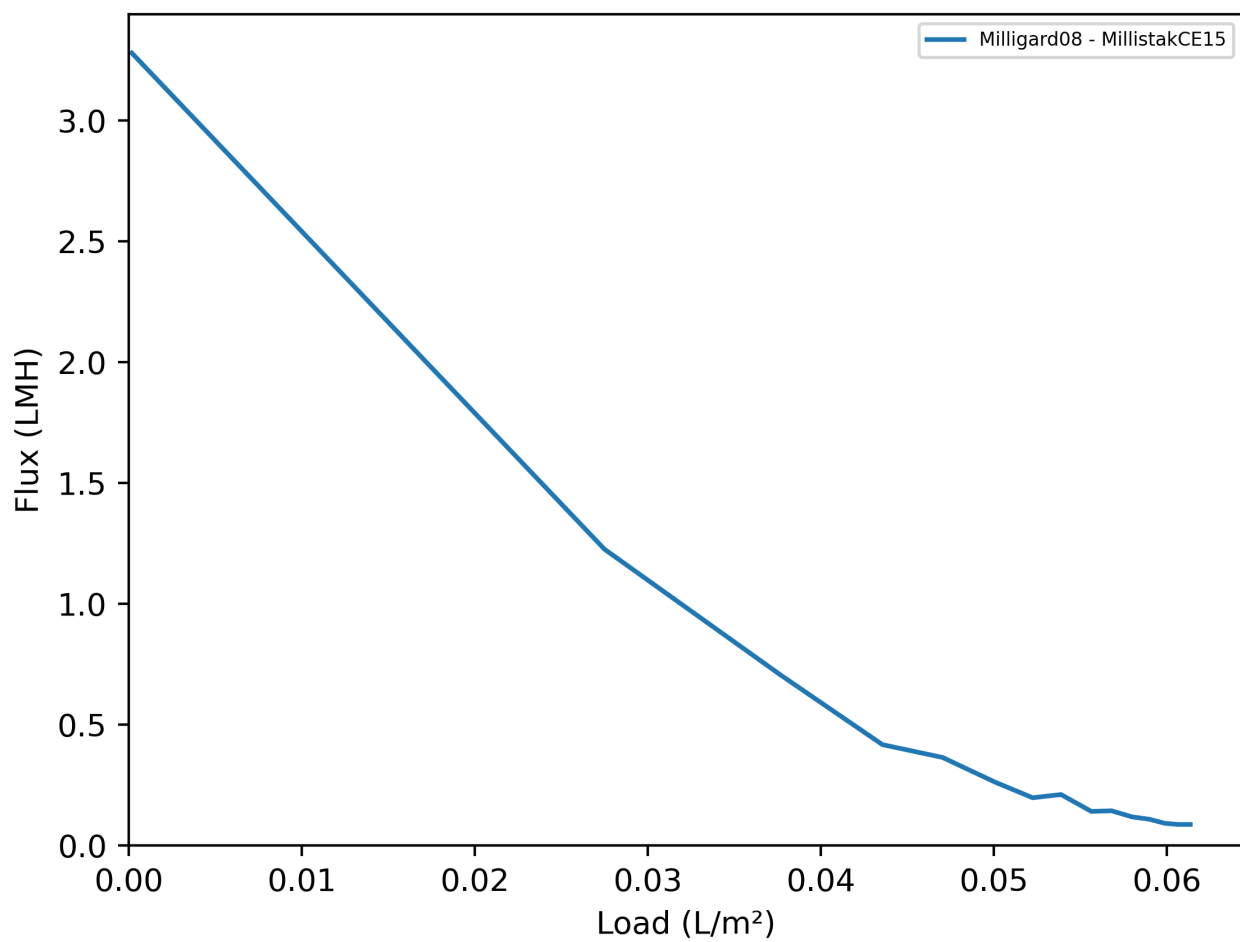
Smoothing Factor: 1

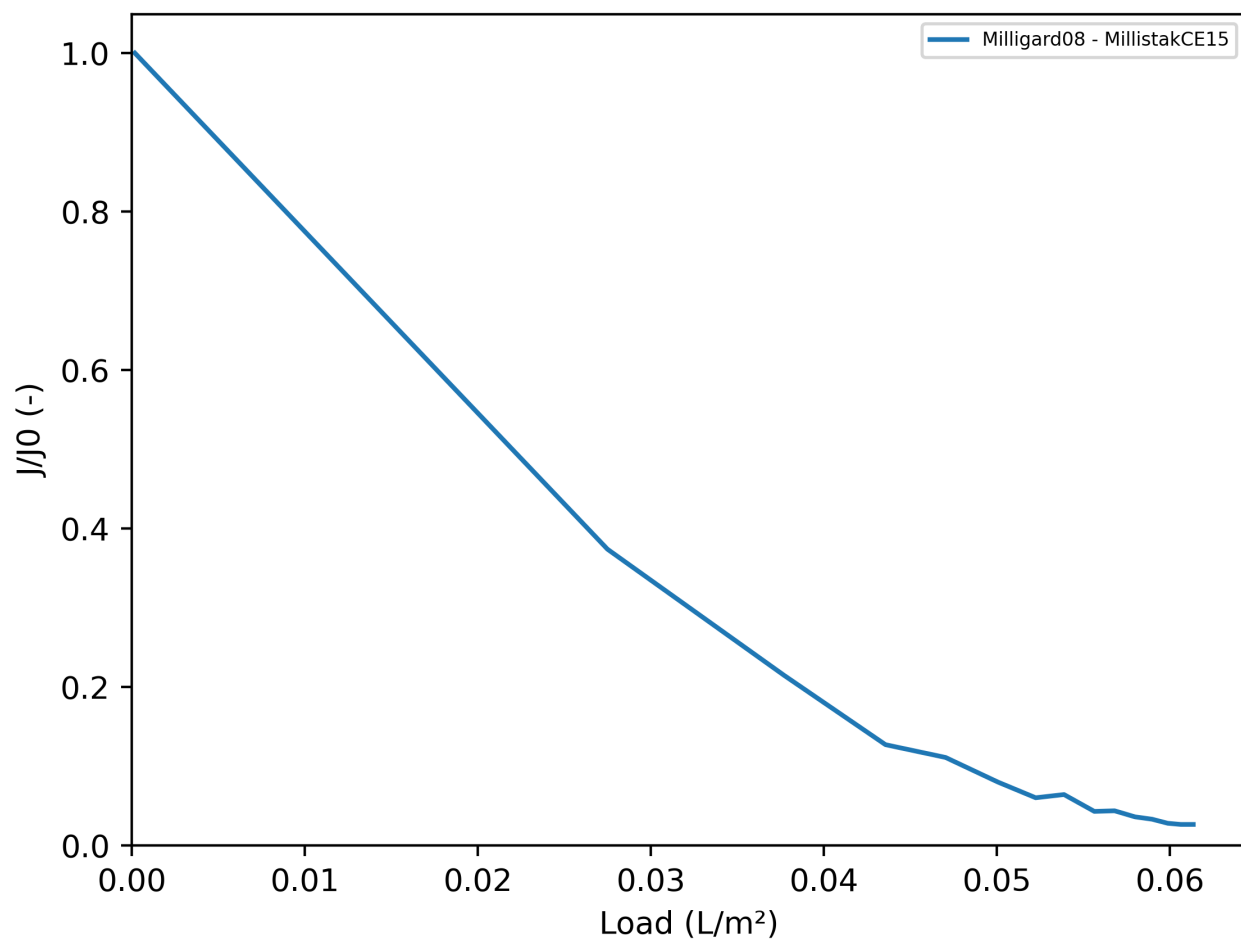
Membrane Area: 1

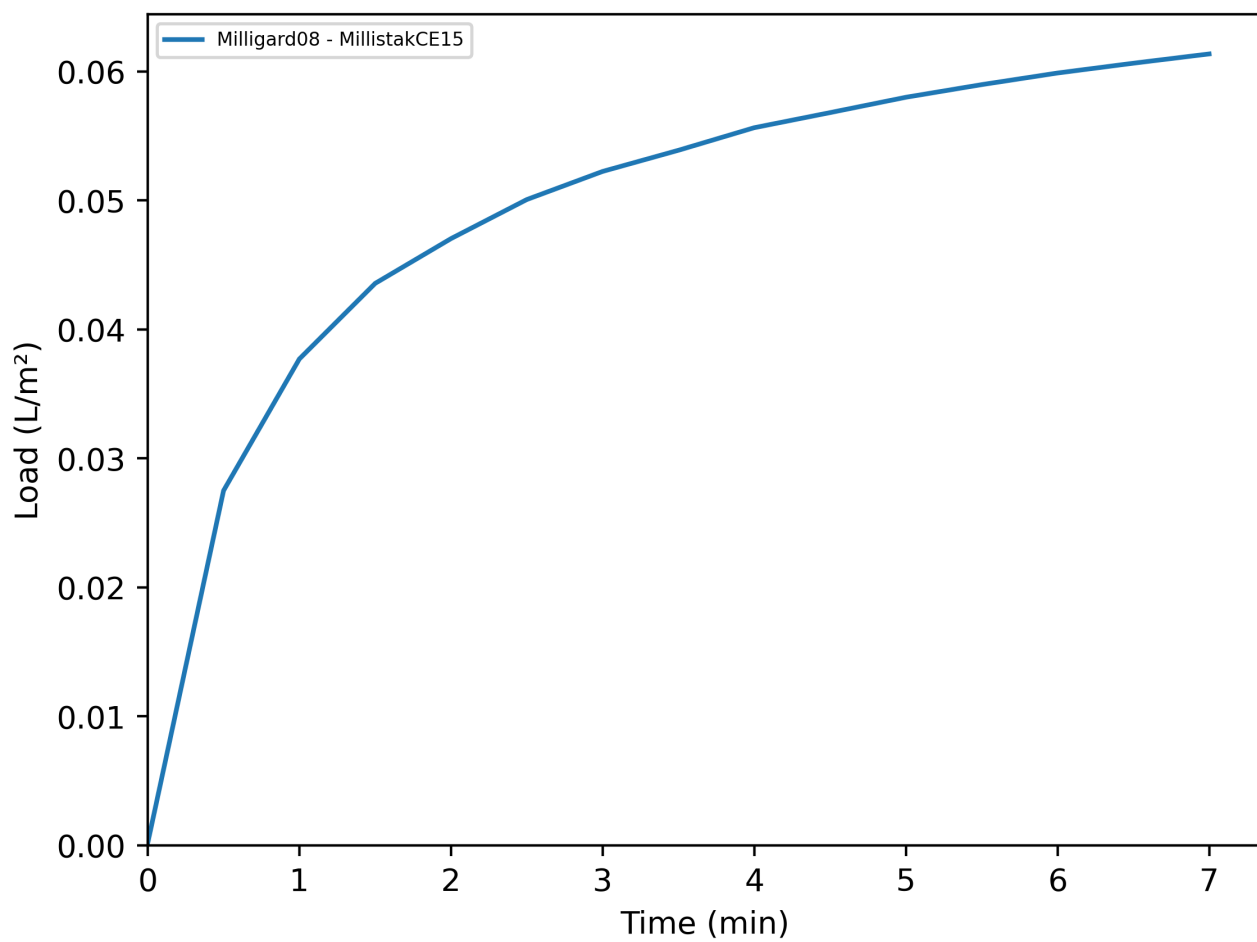
[1	time (min)	vol (mL)	pressure 1(psi)	pressure 2 (psi)	flux (LMH)	flux (LMM)	flux (LMS)	flux
J/J0 (-)	vol (L)	load (L/m²)						
2	0.0	0.18	0.0	0.0	3.2784	0.05464	0.000911	1.000000
0.00018	0.00018							
3	0.5	27.50	0.0	0.0	1.2252	0.02042	0.000340	0.373719
0.02750	0.02750							
4	1.0	37.71	0.0	0.0	0.7032	0.01172	0.000195	0.214495
0.03771	0.03771							
5	1.5	43.57	0.0	0.0	0.4164	0.00694	0.000116	0.127013
0.04357	0.04357							
6	2.0	47.04	0.0	0.0	0.3636	0.00606	0.000101	0.110908
0.04704	0.04704							
7	2.5	50.07	0.0	0.0	0.2616	0.00436	0.000073	0.079795
0.05007	0.05007							
8	3.0	52.25	0.0	0.0	0.1968	0.00328	0.000055	0.060029
0.05225	0.05225							
9	3.5	53.89	0.0	0.0	0.2100	0.00350	0.000058	0.064056
0.05389	0.05389							
10	4.0	55.64	0.0	0.0	0.1404	0.00234	0.000039	0.042826
0.05564	0.05564							
11	4.5	56.81	0.0	0.0	0.1428	0.00238	0.000040	0.043558
0.05681	0.05681							
12	5.0	58.00	0.0	0.0	0.1176	0.00196	0.000033	0.035871

0.05800	0.05800							
13	5.5	58.98	0.0	0.0	0.1080	0.00180	0.000030	0.032943
0.05898	0.05898							
14	6.0	59.88	0.0	0.0	0.0912	0.00152	0.000025	0.027818
0.05988	0.05988							
15	6.5	60.64	0.0	0.0	0.0864	0.00144	0.000024	0.026354
0.06064	0.06064							
16	7.0	61.36	0.0	0.0	0.0864	0.00144	0.000024	0.026354
0.06136	0.06136]							









## Model fits

vmax\_standard

2	0.000000
3	0.027283
4	0.054491
5	0.081625
6	0.108686
7	0.135673
8	0.162587
9	0.189429

10	0.216197
11	0.242894
12	0.269518
13	0.296071
14	0.322553
15	0.348963
16	0.375303

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.027283
4	0.054491
5	0.081625
6	0.108686
7	0.135673
8	0.162587
9	0.189429
10	0.216197
11	0.242894
12	0.269518
13	0.296071
14	0.322553
15	0.348963
16	0.375303

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.027283
4	0.054491
5	0.081625
6	0.108686
7	0.135673
8	0.162587
9	0.189429
10	0.216197
11	0.242894
12	0.269518
13	0.296071
14	0.322553
15	0.348963
16	0.375303

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.012883
4	0.025447
5	0.037705
6	0.049667
7	0.061345

8	0.072747
9	0.083885
10	0.094766
11	0.105400
12	0.115794
13	0.125958
14	0.135898
15	0.145622
16	0.155137

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.012883
4	0.025447
5	0.037705
6	0.049667
7	0.061345
8	0.072747
9	0.083885
10	0.094766
11	0.105400
12	0.115794
13	0.125958
14	0.135898
15	0.145622



16 0.155137

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.012883

4 0.025447

5 0.037705

6 0.049667

7 0.061345

8 0.072747

9 0.083885

10 0.094766

11 0.105400

12 0.115794

13 0.125958

14 0.135898

15 0.145622

16 0.155137

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.012102

4 0.022858

5 0.032480

6	0.041141
7	0.048975
8	0.056097
9	0.062600
10	0.068560
11	0.074043
12	0.079105
13	0.083791
14	0.088142
15	0.092193
16	0.095974

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.012102
4	0.022858
5	0.032480
6	0.041141
7	0.048975
8	0.056097
9	0.062600
10	0.068560
11	0.074043
12	0.079105
13	0.083791

14 0.088142

15 0.092193

16 0.095974

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.012102

4 0.022858

5 0.032480

6 0.041141

7 0.048975

8 0.056097

9 0.062600

10 0.068560

11 0.074043

12 0.079105

13 0.083791

14 0.088142

15 0.092193

16 0.095974

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.015971

4	0.026766
5	0.034549
6	0.040428
7	0.045024
8	0.048717
9	0.051748
10	0.054282
11	0.056430
12	0.058276
13	0.059878
14	0.061282
15	0.062522
16	0.063626

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.015971
4	0.026766
5	0.034549
6	0.040428
7	0.045024
8	0.048717
9	0.051748
10	0.054282
11	0.056430

12 0.058276

13 0.059878

14 0.061282

15 0.062522

16 0.063626

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.015971

4 0.026766

5 0.034549

6 0.040428

7 0.045024

8 0.048717

9 0.051748

10 0.054282

11 0.056430

12 0.058276

13 0.059878

14 0.061282

15 0.062522

16 0.063626

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.021660
4	0.032493
5	0.038993
6	0.043327
7	0.046422
8	0.048744
9	0.050550
10	0.051995
11	0.053177
12	0.054162
13	0.054996
14	0.055710
15	0.056329
16	0.056871

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.021660
4	0.032493
5	0.038993
6	0.043327
7	0.046422
8	0.048744
9	0.050550

10	0.051995
11	0.053177
12	0.054162
13	0.054996
14	0.055710
15	0.056329
16	0.056871

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.021660
4	0.032493
5	0.038993
6	0.043327
7	0.046422
8	0.048744
9	0.050550
10	0.051995
11	0.053177
12	0.054162
13	0.054996
14	0.055710
15	0.056329
16	0.056871

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025425
4	0.036887
5	0.043410
6	0.047620
7	0.050563
8	0.052735
9	0.054405
10	0.055728
11	0.056803
12	0.057693
13	0.058442
14	0.059081
15	0.059633
16	0.060115

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025425
4	0.036887
5	0.043410
6	0.047620
7	0.050563



8	0.052735
9	0.054405
10	0.055728
11	0.056803
12	0.057693
13	0.058442
14	0.059081
15	0.059633
16	0.060115

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025425
4	0.036887
5	0.043410
6	0.047620
7	0.050563
8	0.052735
9	0.054405
10	0.055728
11	0.056803
12	0.057693
13	0.058442
14	0.059081
15	0.059633

16 0.060115

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.025842

4 0.037330

5 0.043824

6 0.047999

7 0.050909

8 0.053053

9 0.054699

10 0.056002

11 0.057059

12 0.057934

13 0.058670

14 0.059298

15 0.059839

16 0.060312

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.025842

4 0.037330

5 0.043824

6	0.047999
7	0.050909
8	0.053053
9	0.054699
10	0.056002
11	0.057059
12	0.057934
13	0.058670
14	0.059298
15	0.059839
16	0.060312

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025842
4	0.037330
5	0.043824
6	0.047999
7	0.050909
8	0.053053
9	0.054699
10	0.056002
11	0.057059
12	0.057934
13	0.058670

14 0.059298

15 0.059839

16 0.060312

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.025860

4 0.037347

5 0.043838

6 0.048010

7 0.050918

8 0.053060

9 0.054704

10 0.056005

11 0.057061

12 0.057935

13 0.058670

14 0.059297

15 0.059838

16 0.060310

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.025860

4	0.037347
5	0.043838
6	0.048010
7	0.050918
8	0.053060
9	0.054704
10	0.056005
11	0.057061
12	0.057935
13	0.058670
14	0.059297
15	0.059838
16	0.060310

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025860
4	0.037347
5	0.043838
6	0.048010
7	0.050918
8	0.053060
9	0.054704
10	0.056005
11	0.057061

12 0.057935

13 0.058670

14 0.059297

15 0.059838

16 0.060310

Name: time (min), dtype: float64

vmax\_standard

2 0.000000

3 0.025860

4 0.037347

5 0.043838

6 0.048010

7 0.050918

8 0.053060

9 0.054704

10 0.056005

11 0.057061

12 0.057935

13 0.058670

14 0.059297

15 0.059838

16 0.060310

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025860
4	0.037347
5	0.043838
6	0.048010
7	0.050918
8	0.053060
9	0.054704
10	0.056005
11	0.057061
12	0.057935
13	0.058670
14	0.059297
15	0.059838
16	0.060310

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025860
4	0.037347
5	0.043838
6	0.048010
7	0.050918
8	0.053060
9	0.054704

10	0.056005
11	0.057061
12	0.057935
13	0.058670
14	0.059297
15	0.059838
16	0.060310

Name: time (min), dtype: float64

vmax\_standard

2	0.000000
3	0.025860
4	0.037347
5	0.043838
6	0.048010
7	0.050918
8	0.053060
9	0.054704
10	0.056005
11	0.057061
12	0.057935
13	0.058670
14	0.059297
15	0.059838
16	0.060310

Name: time (min), dtype: float64



vmax\_standard

[0. 0.06226844 0.06463803 0.06546849 0.06589177 0.06614838  
0.06632056 0.0664441 0.06653706 0.06660954 0.06666764 0.06671525  
0.06675497 0.06678862 0.0668175 0.06684254 0.06686447 0.06688383  
0.06690104 0.06691646 0.06693033 0.06694289 0.06695432 0.06696475  
0.06697432 0.06698312 0.06699125 0.06699878 0.06700577 0.06701228  
0.06701836 0.06702405 0.06702938 0.06703439 0.06703911 0.06704355  
0.06704775 0.06705173 0.06705549 0.06705907 0.06706246 0.06706569  
0.06706877 0.0670717 0.0670745 0.06707717 0.06707973 0.06708218  
0.06708453 0.06708679 0.06708895 0.06709103 0.06709303 0.06709495  
0.0670968 0.06709859 0.06710031 0.06710197 0.06710357 0.06710512  
0.06710662 0.06710807 0.06710947 0.06711083 0.06711214 0.06711342  
0.06711465 0.06711585 0.06711702 0.06711815 0.06711925 0.06712031  
0.06712135 0.06712236 0.06712334 0.0671243 0.06712523 0.06712614  
0.06712702 0.06712788 0.06712872 0.06712954 0.06713034 0.06713112  
0.06713188 0.06713262 0.06713335 0.06713406 0.06713475 0.06713543  
0.06713609 0.06713674 0.06713737 0.06713799 0.0671386 0.06713919  
0.06713978 0.06714035 0.0671409 0.06714145]

vmax\_standard

2 0.000000  
3 0.025860  
4 0.037347  
5 0.043838  
6 0.048010

7	0.050918
8	0.053060
9	0.054704
10	0.056005
11	0.057061
12	0.057935
13	0.058670
14	0.059297
15	0.059838
16	0.060310

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.027300
4	0.054559
5	0.081777
6	0.108956
7	0.136094
8	0.163192
9	0.190251
10	0.217270
11	0.244250
12	0.271191
13	0.298092
14	0.324955

15 0.351779

16 0.378565

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.027300

4 0.054559

5 0.081777

6 0.108956

7 0.136094

8 0.163192

9 0.190251

10 0.217270

11 0.244250

12 0.271191

13 0.298092

14 0.324955

15 0.351779

16 0.378565

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.027300

4 0.054559

5	0.081777
6	0.108956
7	0.136094
8	0.163192
9	0.190251
10	0.217270
11	0.244250
12	0.271191
13	0.298092
14	0.324955
15	0.351779
16	0.378565

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.012983
4	0.025815
5	0.038500
6	0.051042
7	0.063448
8	0.075721
9	0.087865
10	0.099884
11	0.111782
12	0.123564

13 0.135231

14 0.146787

15 0.158236

16 0.169580

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.012983

4 0.025815

5 0.038500

6 0.051042

7 0.063448

8 0.075721

9 0.087865

10 0.099884

11 0.111782

12 0.123564

13 0.135231

14 0.146787

15 0.158236

16 0.169580

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3	0.012983
4	0.025815
5	0.038500
6	0.051042
7	0.063448
8	0.075721
9	0.087865
10	0.099884
11	0.111782
12	0.123564
13	0.135231
14	0.146787
15	0.158236
16	0.169580

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.008561
4	0.016905
5	0.025046
6	0.033000
7	0.040777
8	0.048391
9	0.055850
10	0.063163

11	0.070340
12	0.077386
13	0.084310
14	0.091117
15	0.097813
16	0.104403

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.008561
4	0.016905
5	0.025046
6	0.033000
7	0.040777
8	0.048391
9	0.055850
10	0.063163
11	0.070340
12	0.077386
13	0.084310
14	0.091117
15	0.097813
16	0.104403

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.008561
4	0.016905
5	0.025046
6	0.033000
7	0.040777
8	0.048391
9	0.055850
10	0.063163
11	0.070340
12	0.077386
13	0.084310
14	0.091117
15	0.097813
16	0.104403

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.007777
4	0.015144
5	0.022159
6	0.028868
7	0.035309
8	0.041510



9	0.047497
10	0.053291
11	0.058909
12	0.064366
13	0.069676
14	0.074849
15	0.079896
16	0.084826

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.007777
4	0.015144
5	0.022159
6	0.028868
7	0.035309
8	0.041510
9	0.047497
10	0.053291
11	0.058909
12	0.064366
13	0.069676
14	0.074849
15	0.079896
16	0.084826

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.007777
4	0.015144
5	0.022159
6	0.028868
7	0.035309
8	0.041510
9	0.047497
10	0.053291
11	0.058909
12	0.064366
13	0.069676
14	0.074849
15	0.079896
16	0.084826

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.008972
4	0.016715
5	0.023627
6	0.029929

7	0.035759
8	0.041210
9	0.046347
10	0.051218
11	0.055862
12	0.060306
13	0.064576
14	0.068690
15	0.072664
16	0.076511

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.008972
4	0.016715
5	0.023627
6	0.029929
7	0.035759
8	0.041210
9	0.046347
10	0.051218
11	0.055862
12	0.060306
13	0.064576
14	0.068690

15 0.072664

16 0.076511

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.008972

4 0.016715

5 0.023627

6 0.029929

7 0.035759

8 0.041210

9 0.046347

10 0.051218

11 0.055862

12 0.060306

13 0.064576

14 0.068690

15 0.072664

16 0.076511

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.011740

4 0.019511

5	0.025762
6	0.031142
7	0.035936
8	0.040302
9	0.044338
10	0.048110
11	0.051662
12	0.055030
13	0.058239
14	0.061310
15	0.064259
16	0.067101

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.011740
4	0.019511
5	0.025762
6	0.031142
7	0.035936
8	0.040302
9	0.044338
10	0.048110
11	0.051662
12	0.055030

13	0.058239
14	0.061310
15	0.064259
16	0.067101

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.011740
4	0.019511
5	0.025762
6	0.031142
7	0.035936
8	0.040302
9	0.044338
10	0.048110
11	0.051662
12	0.055030
13	0.058239
14	0.061310
15	0.064259
16	0.067101

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
---	----------

3	0.014180
4	0.021197
5	0.026610
6	0.031184
7	0.035218
8	0.038868
9	0.042226
10	0.045353
11	0.048291
12	0.051070
13	0.053714
14	0.056240
15	0.058664
16	0.060996

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.014635
4	0.022294
5	0.028229
6	0.033251
7	0.037686
8	0.041701
9	0.045396
10	0.048838

11	0.052073
12	0.055134
13	0.058046
14	0.060829
15	0.063499
16	0.066068

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.014635
4	0.022294
5	0.028229
6	0.033251
7	0.037686
8	0.041701
9	0.045396
10	0.048838
11	0.052073
12	0.055134
13	0.058046
14	0.060829
15	0.063499
16	0.066068

Name: time (min), dtype: float64



cake\_filtration

2	0.000000
3	0.014635
4	0.022294
5	0.028229
6	0.033251
7	0.037686
8	0.041701
9	0.045396
10	0.048838
11	0.052073
12	0.055134
13	0.058046
14	0.060829
15	0.063499
16	0.066068

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.016281
4	0.023540
5	0.029115
6	0.033816
7	0.037958
8	0.041704

9	0.045149
10	0.048355
11	0.051367
12	0.054215
13	0.056925
14	0.059514
15	0.061997
16	0.064387

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.016281
4	0.023540
5	0.029115
6	0.033816
7	0.037958
8	0.041704
9	0.045149
10	0.048355
11	0.051367
12	0.054215
13	0.056925
14	0.059514
15	0.061997
16	0.064387

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.016281
4	0.023540
5	0.029115
6	0.033816
7	0.037958
8	0.041704
9	0.045149
10	0.048355
11	0.051367
12	0.054215
13	0.056925
14	0.059514
15	0.061997
16	0.064387

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.017176
4	0.024731
5	0.030531
6	0.035422

7	0.039732
8	0.043628
9	0.047211
10	0.050547
11	0.053680
12	0.056643
13	0.059461
14	0.062154
15	0.064737
16	0.067222

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.017176
4	0.024731
5	0.030531
6	0.035422
7	0.039732
8	0.043628
9	0.047211
10	0.050547
11	0.053680
12	0.056643
13	0.059461
14	0.062154

15 0.064737

16 0.067222

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.017176

4 0.024731

5 0.030531

6 0.035422

7 0.039732

8 0.043628

9 0.047211

10 0.050547

11 0.053680

12 0.056643

13 0.059461

14 0.062154

15 0.064737

16 0.067222

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018386

4 0.026275

5	0.032329
6	0.037434
7	0.041932
8	0.045998
9	0.049737
10	0.053218
11	0.056487
12	0.059579
13	0.062520
14	0.065329
15	0.068025
16	0.070618

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018386
4	0.026275
5	0.032329
6	0.037434
7	0.041932
8	0.045998
9	0.049737
10	0.053218
11	0.056487
12	0.059579

13	0.062520
14	0.065329
15	0.068025
16	0.070618

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018386
4	0.026275
5	0.032329
6	0.037434
7	0.041932
8	0.045998
9	0.049737
10	0.053218
11	0.056487
12	0.059579
13	0.062520
14	0.065329
15	0.068025
16	0.070618

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
---	----------

3	0.018652
4	0.026518
5	0.032553
6	0.037642
7	0.042125
8	0.046178
9	0.049905
10	0.053374
11	0.056633
12	0.059714
13	0.062646
14	0.065446
15	0.068133
16	0.070717

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018652
4	0.026518
5	0.032553
6	0.037642
7	0.042125
8	0.046178
9	0.049905
10	0.053374



11	0.056633
12	0.059714
13	0.062646
14	0.065446
15	0.068133
16	0.070717

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018652
4	0.026518
5	0.032553
6	0.037642
7	0.042125
8	0.046178
9	0.049905
10	0.053374
11	0.056633
12	0.059714
13	0.062646
14	0.065446
15	0.068133
16	0.070717

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018826
4	0.026719
5	0.032775
6	0.037881
7	0.042379
8	0.046446
9	0.050186
10	0.053667
11	0.056936
12	0.060028
13	0.062969
14	0.065779
15	0.068475
16	0.071068

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018826
4	0.026719
5	0.032775
6	0.037881
7	0.042379
8	0.046446

9	0.050186
10	0.053667
11	0.056936
12	0.060028
13	0.062969
14	0.065779
15	0.068475
16	0.071068

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018826
4	0.026719
5	0.032775
6	0.037881
7	0.042379
8	0.046446
9	0.050186
10	0.053667
11	0.056936
12	0.060028
13	0.062969
14	0.065779
15	0.068475
16	0.071068

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018878
4	0.026769
5	0.032824
6	0.037929
7	0.042426
8	0.046492
9	0.050231
10	0.053711
11	0.056980
12	0.060071
13	0.063012
14	0.065821
15	0.068516
16	0.071109

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018878
4	0.026769
5	0.032824
6	0.037929

7	0.042426
8	0.046492
9	0.050231
10	0.053711
11	0.056980
12	0.060071
13	0.063012
14	0.065821
15	0.068516
16	0.071109

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018878
4	0.026769
5	0.032824
6	0.037929
7	0.042426
8	0.046492
9	0.050231
10	0.053711
11	0.056980
12	0.060071
13	0.063012
14	0.065821

15 0.068516

16 0.071109

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018914

4 0.026796

5 0.032844

6 0.037943

7 0.042435

8 0.046496

9 0.050231

10 0.053707

11 0.056972

12 0.060060

13 0.062997

14 0.065804

15 0.068495

16 0.071085

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018914

4 0.026796

5	0.032844
6	0.037943
7	0.042435
8	0.046496
9	0.050231
10	0.053707
11	0.056972
12	0.060060
13	0.062997
14	0.065804
15	0.068495
16	0.071085

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018914
4	0.026796
5	0.032844
6	0.037943
7	0.042435
8	0.046496
9	0.050231
10	0.053707
11	0.056972
12	0.060060

13 0.062997

14 0.065804

15 0.068495

16 0.071085

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018941

4 0.026822

5 0.032870

6 0.037968

7 0.042460

8 0.046521

9 0.050255

10 0.053731

11 0.056995

12 0.060083

13 0.063020

14 0.065826

15 0.068517

16 0.071107

Name: time (min), dtype: float64

cake\_filtration

2 0.000000



3	0.018941
4	0.026822
5	0.032870
6	0.037968
7	0.042460
8	0.046521
9	0.050255
10	0.053731
11	0.056995
12	0.060083
13	0.063020
14	0.065826
15	0.068517
16	0.071107

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018941
4	0.026822
5	0.032870
6	0.037968
7	0.042460
8	0.046521
9	0.050255
10	0.053731

11	0.056995
12	0.060083
13	0.063020
14	0.065826
15	0.068517
16	0.071107

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018959
4	0.026836
5	0.032880
6	0.037975
7	0.042464
8	0.046523
9	0.050255
10	0.053729
11	0.056992
12	0.060077
13	0.063013
14	0.065817
15	0.068507
16	0.071095

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018959
4	0.026836
5	0.032880
6	0.037975
7	0.042464
8	0.046523
9	0.050255
10	0.053729
11	0.056992
12	0.060077
13	0.063013
14	0.065817
15	0.068507
16	0.071095

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018959
4	0.026836
5	0.032880
6	0.037975
7	0.042464
8	0.046523

9	0.050255
10	0.053729
11	0.056992
12	0.060077
13	0.063013
14	0.065817
15	0.068507
16	0.071095

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018972
4	0.026849
5	0.032893
6	0.037988
7	0.042477
8	0.046535
9	0.050267
10	0.053741
11	0.057003
12	0.060089
13	0.063024
14	0.065828
15	0.068518
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018972
4	0.026849
5	0.032893
6	0.037988
7	0.042477
8	0.046535
9	0.050267
10	0.053741
11	0.057003
12	0.060089
13	0.063024
14	0.065828
15	0.068518
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018972
4	0.026849
5	0.032893
6	0.037988

7	0.042477
8	0.046535
9	0.050267
10	0.053741
11	0.057003
12	0.060089
13	0.063024
14	0.065828
15	0.068518
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018981
4	0.026855
5	0.032898
6	0.037991
7	0.042479
8	0.046536
9	0.050267
10	0.053740
11	0.057001
12	0.060086
13	0.063020
14	0.065824

15 0.068513

16 0.071100

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018981

4 0.026855

5 0.032898

6 0.037991

7 0.042479

8 0.046536

9 0.050267

10 0.053740

11 0.057001

12 0.060086

13 0.063020

14 0.065824

15 0.068513

16 0.071100

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018981

4 0.026855

5	0.032897
6	0.037991
7	0.042479
8	0.046536
9	0.050267
10	0.053740
11	0.057001
12	0.060086
13	0.063020
14	0.065824
15	0.068513
16	0.071100

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018988
4	0.026862
5	0.032904
6	0.037998
7	0.042485
8	0.046542
9	0.050273
10	0.053746
11	0.057007
12	0.060092



13 0.063026

14 0.065830

15 0.068519

16 0.071106

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018988

4 0.026862

5 0.032904

6 0.037998

7 0.042485

8 0.046542

9 0.050273

10 0.053746

11 0.057007

12 0.060092

13 0.063026

14 0.065830

15 0.068519

16 0.071106

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3	0.018988
4	0.026862
5	0.032904
6	0.037998
7	0.042485
8	0.046542
9	0.050273
10	0.053746
11	0.057007
12	0.060092
13	0.063026
14	0.065830
15	0.068519
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018992
4	0.026865
5	0.032906
6	0.037999
7	0.042486
8	0.046543
9	0.050273
10	0.053745

11	0.057006
12	0.060091
13	0.063024
14	0.065827
15	0.068516
16	0.071103

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018992
4	0.026865
5	0.032906
6	0.037999
7	0.042486
8	0.046543
9	0.050273
10	0.053745
11	0.057006
12	0.060091
13	0.063024
14	0.065827
15	0.068516
16	0.071103

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018992
4	0.026865
5	0.032906
6	0.037999
7	0.042486
8	0.046543
9	0.050273
10	0.053745
11	0.057006
12	0.060091
13	0.063024
14	0.065827
15	0.068516
16	0.071103

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018996
4	0.026869
5	0.032910
6	0.038002
7	0.042489
8	0.046546

9	0.050276
10	0.053748
11	0.057009
12	0.060094
13	0.063027
14	0.065830
15	0.068519
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018996
4	0.026869
5	0.032910
6	0.038002
7	0.042489
8	0.046546
9	0.050276
10	0.053748
11	0.057009
12	0.060094
13	0.063027
14	0.065830
15	0.068519
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018996
4	0.026869
5	0.032910
6	0.038002
7	0.042489
8	0.046546
9	0.050276
10	0.053748
11	0.057009
12	0.060094
13	0.063027
14	0.065830
15	0.068519
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018998
4	0.026870
5	0.032911
6	0.038003

7	0.042490
8	0.046546
9	0.050276
10	0.053748
11	0.057009
12	0.060093
13	0.063026
14	0.065829
15	0.068517
16	0.071104

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.018998
4	0.026870
5	0.032911
6	0.038003
7	0.042490
8	0.046546
9	0.050276
10	0.053748
11	0.057009
12	0.060093
13	0.063026
14	0.065829

15 0.068517

16 0.071104

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.018998

4 0.026870

5 0.032911

6 0.038003

7 0.042490

8 0.046546

9 0.050276

10 0.053748

11 0.057009

12 0.060093

13 0.063026

14 0.065829

15 0.068517

16 0.071104

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.019000

4 0.026872



5	0.032913
6	0.038005
7	0.042491
8	0.046548
9	0.050278
10	0.053749
11	0.057010
12	0.060094
13	0.063028
14	0.065831
15	0.068519
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.019000
4	0.026872
5	0.032913
6	0.038005
7	0.042491
8	0.046548
9	0.050278
10	0.053749
11	0.057010
12	0.060094

13 0.063028

14 0.065831

15 0.068519

16 0.071106

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3 0.019000

4 0.026872

5 0.032913

6 0.038005

7 0.042491

8 0.046548

9 0.050278

10 0.053749

11 0.057010

12 0.060094

13 0.063028

14 0.065831

15 0.068519

16 0.071106

Name: time (min), dtype: float64

cake\_filtration

2 0.000000

3	0.019001
4	0.026873
5	0.032913
6	0.038005
7	0.042492
8	0.046548
9	0.050278
10	0.053749
11	0.057010
12	0.060094
13	0.063027
14	0.065830
15	0.068518
16	0.071105

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.019001
4	0.026873
5	0.032913
6	0.038005
7	0.042492
8	0.046548
9	0.050278
10	0.053749

11	0.057010
12	0.060094
13	0.063027
14	0.065830
15	0.068518
16	0.071105

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.019001
4	0.026873
5	0.032913
6	0.038005
7	0.042492
8	0.046548
9	0.050278
10	0.053749
11	0.057010
12	0.060094
13	0.063027
14	0.065830
15	0.068518
16	0.071105

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.019002
4	0.026874
5	0.032914
6	0.038006
7	0.042493
8	0.046549
9	0.050278
10	0.053750
11	0.057011
12	0.060095
13	0.063028
14	0.065831
15	0.068519
16	0.071105

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.019002
4	0.026874
5	0.032914
6	0.038006
7	0.042493
8	0.046549

9	0.050278
10	0.053750
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2	0.000000
3	0.019002
4	0.026874
5	0.032914
6	0.038007
7	0.042493
8	0.046549
9	0.050279
10	0.053750
11	0.057011
12	0.060095
13	0.063028
14	0.065831
15	0.068519
16	0.071106

Name: time (min), dtype: float64

cake\_filtration

2	0.000000
3	0.019002
4	0.026874
5	0.032914
6	0.038007

7	0.042493
8	0.046549
9	0.050279
10	0.053750
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cake\_filtration

2 0.000000

3 0.019004

4 0.026875

5 0.032915

6 0.038007

7 0.042494

8 0.046549

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16 0.071105

Name: time (min), dtype: float64

cake\_filtration

[0. 0.08541535 0.12079555 0.14794373 0.17083071 0.19099454

0.20922403 0.22598778 0.2415911 0.25624606 0.27010706 0.28329068

0.29588746 0.30796944 0.31959499 0.33081224 0.34166141 0.35217652

0.36238665 0.37231689 0.38198907 0.39142232 0.40063352 0.40963764  
0.41844806 0.42707677 0.43553455 0.44383119 0.45197556 0.45997575  
0.46783916 0.47557256 0.4831822 0.49067385 0.49805281 0.50532404  
0.51249212 0.51956131 0.5265356 0.53341871 0.54021413 0.54692512  
0.55355476 0.56010593 0.56658136 0.57298361 0.57931511 0.58557816  
0.59177493 0.59790747 0.60397775 0.60998763 0.61593887 0.62183316  
0.62767209 0.63345721 0.63918997 0.64487177 0.65050395 0.65608778  
0.66162448 0.66711523 0.67256116 0.67796335 0.68332282 0.68864059  
0.69391761 0.6991548 0.70435305 0.70951321 0.71463612 0.71972256  
0.7247733 0.7297891 0.73477065 0.73971866 0.74463379 0.74951668  
0.75436797 0.75918826 0.76397814 0.76873818 0.77346892 0.7781709  
0.78284464 0.78749065 0.7921094 0.79670138 0.80126704 0.80580683  
0.81032119 0.81481054 0.81927529 0.82371584 0.82813257 0.83252588  
0.83689613 0.84124367 0.84556886 0.84987203]

cake\_filtration

2 0.000000  
3 0.019004  
4 0.026875  
5 0.032915  
6 0.038007  
7 0.042494  
8 0.046549  
9 0.050279  
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12 0.060095

13 0.063028

14 0.065831

15 0.068519

16 0.071105

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.011706

4 0.023104

5 0.034211

6 0.045041

7 0.055608

8 0.065923

9 0.075999

10 0.085847

11 0.095476

12 0.104897

13 0.114117

14 0.123146

15 0.131991

16 0.140659

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.011706
4	0.023104
5	0.034211
6	0.045041
7	0.055608
8	0.065923
9	0.075999
10	0.085847
11	0.095476
12	0.104897
13	0.114117
14	0.123146
15	0.131991
16	0.140659

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.011706
4	0.023104
5	0.034211
6	0.045041
7	0.055608
8	0.065923
9	0.075999

10	0.085847
11	0.095476
12	0.104897
13	0.114117
14	0.123146
15	0.131991
16	0.140659

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.013516
4	0.024673
5	0.034175
6	0.042448
7	0.049776
8	0.056352
9	0.062316
10	0.067772
11	0.072800
12	0.077463
13	0.081809
14	0.085880
15	0.089708
16	0.093320

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.013516
4	0.024673
5	0.034175
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Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.018031
4	0.028242
5	0.035398
6	0.040912
7	0.045398
8	0.049181
9	0.052451
10	0.055330
11	0.057903
12	0.060228
13	0.062349
14	0.064299
15	0.066103

16 0.067781

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.018031

4 0.028242

5 0.035398

6 0.040912

7 0.045398

8 0.049181

9 0.052451

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11 0.057903

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13 0.062349

14 0.064299

15 0.066103

16 0.067781

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.018031

4 0.028242

5 0.035398

6	0.040912
7	0.045398
8	0.049181
9	0.052451
10	0.055330
11	0.057903
12	0.060228
13	0.062349
14	0.064299
15	0.066103
16	0.067781

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.022637
4	0.031111
5	0.036435
6	0.040326
7	0.043394
8	0.045928
9	0.048085
10	0.049964
11	0.051628
12	0.053122
13	0.054477

14 0.055716

15 0.056858

16 0.057917

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.021820

4 0.031065

5 0.037018

6 0.041418

7 0.044909

8 0.047804

9 0.050277

10 0.052435

11 0.054349

12 0.056070

13 0.057632

14 0.059062

15 0.060381

16 0.061606

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.021820



4	0.031065
5	0.037018
6	0.041418
7	0.044909
8	0.047804
9	0.050277
10	0.052435
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Name: time (min), dtype: float64

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2	0.000000
3	0.021820
4	0.031065
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7	0.044909
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9	0.050277
10	0.052435
11	0.054349

12 0.056070

13 0.057632

14 0.059062

15 0.060381

16 0.061606

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.025147

4 0.034074

5 0.039632

6 0.043680

7 0.046864

8 0.049489

9 0.051723

10 0.053667

11 0.055388

12 0.056931

13 0.058331

14 0.059611

15 0.060790

16 0.061884

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.025147
4	0.034074
5	0.039632
6	0.043680
7	0.046864
8	0.049489
9	0.051723
10	0.053667
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11	0.055388
12	0.056931
13	0.058331
14	0.059611
15	0.060790
16	0.061884

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.027945
4	0.036205
5	0.041225
6	0.044842
7	0.047672
8	0.049996
9	0.051968
10	0.053682
11	0.055196
12	0.056553
13	0.057782
14	0.058905
15	0.059939
16	0.060898

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.027945
4	0.036205
5	0.041225
6	0.044842
7	0.047672
8	0.049996
9	0.051968
10	0.053682
11	0.055196
12	0.056553
13	0.057782
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16	0.060898

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.027945
4	0.036205
5	0.041225
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8	0.049996
9	0.051968
10	0.053682
11	0.055196
12	0.056553
13	0.057782
14	0.058905
15	0.059939
16	0.060898

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.029290
4	0.037595
5	0.042621
6	0.046235
7	0.049060
8	0.051379
9	0.053346
10	0.055054
11	0.056563
12	0.057915
13	0.059139
14	0.060258
15	0.061289

16 0.062243

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.029290

4 0.037595

5 0.042621

6 0.046235

7 0.049060

8 0.051379

9 0.053346

10 0.055054

11 0.056563

12 0.057915

13 0.059139

14 0.060258

15 0.061289

16 0.062243

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.029290

4 0.037595

5 0.042621

6	0.046235
7	0.049060
8	0.051379
9	0.053346
10	0.055054
11	0.056563
12	0.057915
13	0.059139
14	0.060258
15	0.061289
16	0.062243

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.029367
4	0.037683
5	0.042715
6	0.046334
7	0.049162
8	0.051484
9	0.053453
10	0.055163
11	0.056674
12	0.058027
13	0.059253



14 0.060373

15 0.061405

16 0.062360

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.029367

4 0.037683

5 0.042715

6 0.046334

7 0.049162

8 0.051484

9 0.053453

10 0.055163

11 0.056674

12 0.058027

13 0.059253

14 0.060373

15 0.061405

16 0.062360

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

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5	0.042715
6	0.046334
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8	0.051484
9	0.053453
10	0.055163
11	0.056674
12	0.058027
13	0.059253
14	0.060373
15	0.061405
16	0.062360

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.029367
4	0.037683
5	0.042715
6	0.046334
7	0.049162
8	0.051484
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12 0.058027

13 0.059253

14 0.060373

15 0.061405

16 0.062360

Name: time (min), dtype: float64

intermediate\_filtration

2 0.000000

3 0.029367

4 0.037683

5 0.042715

6 0.046334

7 0.049162

8 0.051484

9 0.053453

10 0.055163

11 0.056674

12 0.058027

13 0.059253

14 0.060373

15 0.061405

16 0.062360

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.029367
4	0.037683
5	0.042715
6	0.046334
7	0.049162
8	0.051484
9	0.053453
10	0.055163
11	0.056674
12	0.058027
13	0.059253
14	0.060373
15	0.061405
16	0.062360

Name: time (min), dtype: float64

intermediate\_filtration

2	0.000000
3	0.029367
4	0.037683
5	0.042715
6	0.046334
7	0.049162
8	0.051484
9	0.053453

10 0.055163  
11 0.056674  
12 0.058027  
13 0.059253  
14 0.060373  
15 0.061405  
16 0.062360

Name: time (min), dtype: float64

intermediate\_filtration

[0. 0.0670966 0.07607372 0.08133439 0.08506951 0.08796779  
0.09033642 0.0923394 0.09407466 0.09560541 0.09697482 0.09821367  
0.0993447 0.10038519 0.10134857 0.10224548 0.10308451 0.10387267  
0.10461578 0.10531872 0.1059856 0.10661995 0.10722479 0.10780275  
0.10835611 0.10888688 0.10939684 0.10988756 0.11036043 0.1108167  
0.11125752 0.11168387 0.1120967 0.11249682 0.112885 0.11326192  
0.11362823 0.11398451 0.11433128 0.11466905 0.11499826 0.11531935  
0.1156327 0.11593868 0.11623762 0.11652985 0.11681565 0.11709531  
0.11736908 0.11763721 0.11789992 0.11815743 0.11840994 0.11865763  
0.1189007 0.11913931 0.11937362 0.11960379 0.11982995 0.12005224  
0.1202708 0.12048575 0.1206972 0.12090527 0.12111006 0.12131168  
0.12151022 0.12170577 0.12189843 0.12208828 0.12227539 0.12245985  
0.12264173 0.1228211 0.12299803 0.12317259 0.12334483 0.12351482  
0.12368262 0.12384828 0.12401186 0.12417341 0.12433297 0.1244906  
0.12464634 0.12480024 0.12495234 0.12510268 0.12525131 0.12539825  
0.12554355 0.12568725 0.12582938 0.12596997 0.12610905 0.12624667

0.12638284 0.1265176 0.12665098 0.12678301]

intermediate\_filtration

2	0.000000
3	0.029367
4	0.037683
5	0.042715
6	0.046334
7	0.049162
8	0.051484
9	0.053453
10	0.055163
11	0.056674
12	0.058027
13	0.059253
14	0.060373
15	0.061405
16	0.062360

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.021499
4	0.034539
5	0.042448
6	0.047245

7	0.050155
8	0.051920
9	0.052990
10	0.053639
11	0.054033
12	0.054272
13	0.054417
14	0.054505
15	0.054558
16	0.054590

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.021499
4	0.034539
5	0.042448
6	0.047245
7	0.050155
8	0.051920
9	0.052990
10	0.053639
11	0.054033
12	0.054272
13	0.054417
14	0.054505

15 0.054558

16 0.054590

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.021499

4 0.034539

5 0.042448

6 0.047245

7 0.050155

8 0.051920

9 0.052990

10 0.053639

11 0.054033

12 0.054272

13 0.054417

14 0.054505

15 0.054558

16 0.054590

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.022208

4 0.035961



5	0.044478
6	0.049753
7	0.053019
8	0.055042
9	0.056295
10	0.057071
11	0.057551
12	0.057849
13	0.058033
14	0.058147
15	0.058218
16	0.058262

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022208
4	0.035961
5	0.044478
6	0.049753
7	0.053019
8	0.055042
9	0.056295
10	0.057071
11	0.057551
12	0.057849

13 0.058033

14 0.058147

15 0.058218

16 0.058262

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.022208

4 0.035961

5 0.044478

6 0.049753

7 0.053019

8 0.055042

9 0.056295

10 0.057071

11 0.057551

12 0.057849

13 0.058033

14 0.058147

15 0.058218

16 0.058262

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3	0.022084
4	0.035796
5	0.044311
6	0.049598
7	0.052880
8	0.054919
9	0.056184
10	0.056970
11	0.057458
12	0.057761
13	0.057949
14	0.058066
15	0.058139
16	0.058184

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022084
4	0.035796
5	0.044311
6	0.049598
7	0.052880
8	0.054919
9	0.056184
10	0.056970

11 0.057458

12 0.057761

13 0.057949

14 0.058066

15 0.058139

16 0.058184

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.022084

4 0.035796

5 0.044311

6 0.049598

7 0.052880

8 0.054919

9 0.056184

10 0.056970

11 0.057458

12 0.057761

13 0.057949

14 0.058066

15 0.058139

16 0.058184

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022068
4	0.035778
5	0.044295
6	0.049587
7	0.052875
8	0.054917
9	0.056186
10	0.056974
11	0.057464
12	0.057768
13	0.057957
14	0.058075
15	0.058148
16	0.058193

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022068
4	0.035778
5	0.044295
6	0.049587
7	0.052875
8	0.054917

9	0.056186
10	0.056974
11	0.057464
12	0.057768
13	0.057957
14	0.058075
15	0.058148
16	0.058193

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022068
4	0.035778
5	0.044295
6	0.049587
7	0.052875
8	0.054917
9	0.056186
10	0.056974
11	0.057464
12	0.057768
13	0.057957
14	0.058075
15	0.058148
16	0.058193

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022065
4	0.035774
5	0.044292
6	0.049585
7	0.052873
8	0.054916
9	0.056186
10	0.056975
11	0.057465
12	0.057769
13	0.057959
14	0.058076
15	0.058149
16	0.058195

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022065
4	0.035774
5	0.044292
6	0.049585

7	0.052873
8	0.054916
9	0.056186
10	0.056975
11	0.057465
12	0.057769
13	0.057959
14	0.058076
15	0.058149
16	0.058195

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022065
4	0.035774
5	0.044292
6	0.049585
7	0.052873
8	0.054916
9	0.056186
10	0.056975
11	0.057465
12	0.057769
13	0.057959
14	0.058076



15 0.058149

16 0.058195

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.022064

4 0.035773

5 0.044292

6 0.049584

7 0.052873

8 0.054916

9 0.056186

10 0.056975

11 0.057465

12 0.057770

13 0.057959

14 0.058077

15 0.058150

16 0.058195

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.022064

4 0.035773

5	0.044292
6	0.049584
7	0.052873
8	0.054916
9	0.056186
10	0.056975
11	0.057465
12	0.057770
13	0.057959
14	0.058077
15	0.058150
16	0.058195

Name: time (min), dtype: float64

complete\_clogging

2	0.000000
3	0.022064
4	0.035773
5	0.044292
6	0.049584
7	0.052873
8	0.054916
9	0.056186
10	0.056975
11	0.057465
12	0.057770

13 0.057959

14 0.058077

15 0.058150

16 0.058195

Name: time (min), dtype: float64

complete\_clogging

2 0.000000

3 0.022064

4 0.035773

5 0.044291

6 0.049584

7 0.052873

8 0.054916

9 0.056186

10 0.056975

11 0.057465

12 0.057770

13 0.057959

14 0.058077

15 0.058150

16 0.058195

Name: time (min), dtype: float64

complete\_clogging

[0. 0.05826566 0.05826956 0.05826956 0.05826956 0.05826956

0.05826956 0.05826956 0.05826956 0.05826956 0.05826956 0.05826956  
0.05826956 0.05826956 0.05826956 0.05826956 0.05826956 0.05826956  
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0.05826956 0.05826956 0.05826956 0.05826956 0.05826956 0.05826956  
0.05826956 0.05826956 0.05826956 0.05826956]

complete\_clogging

2 0.000000  
3 0.022064  
4 0.035773  
5 0.044291  
6 0.049584  
7 0.052873  
8 0.054916  
9 0.056186

10	0.056975
11	0.057465
12	0.057770
13	0.057959
14	0.058077
15	0.058150
16	0.058195

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.213568
4	0.218976
5	0.224318
6	0.363868
7	0.821825
8	1.354827
9	1.817479
10	2.206788
11	2.539115
12	2.828062
13	3.083348
14	3.311893
15	3.518723
16	3.707589

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.213568
4	0.218976
5	0.224318
6	0.363868
7	0.821825
8	1.354827
9	1.817479
10	2.206788
11	2.539115
12	2.828062
13	3.083348
14	3.311893
15	3.518723
16	3.707589

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.213568
4	0.218976
5	0.224318
6	0.363868
7	0.821825

8	1.354827
9	1.817479
10	2.206788
11	2.539115
12	2.828061
13	3.083348
14	3.311893
15	3.518723
16	3.707589

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.213568
4	0.218976
5	0.224318
6	0.363868
7	0.821825
8	1.354827
9	1.817479
10	2.206788
11	2.539115
12	2.828062
13	3.083348
14	3.311893
15	3.518723

16 3.707589

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.051649

4 0.053220

5 0.054444

6 0.091443

7 0.251417

8 0.486160

9 0.708671

10 0.900879

11 1.066353

12 1.210669

13 1.338327

14 1.452665

15 1.556156

16 1.650661

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.051649

4 0.053220

5 0.054444



6	0.091443
7	0.251417
8	0.486160
9	0.708671
10	0.900879
11	1.066353
12	1.210669
13	1.338327
14	1.452665
15	1.556156
16	1.650661

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.051649
4	0.053220
5	0.054444
6	0.091443
7	0.251417
8	0.486160
9	0.708671
10	0.900879
11	1.066353
12	1.210669
13	1.338327

14 1.452665

15 1.556156

16 1.650661

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.051649

4 0.053220

5 0.054444

6 0.091443

7 0.251417

8 0.486160

9 0.708671

10 0.900879

11 1.066353

12 1.210669

13 1.338327

14 1.452665

15 1.556156

16 1.650661

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.039021

4	0.040608
5	0.040859
6	0.053413
7	0.121927
8	0.235940
9	0.348060
10	0.445427
11	0.529148
12	0.602001
13	0.666308
14	0.723800
15	0.775759
16	0.823145

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.039021
4	0.040608
5	0.040859
6	0.053413
7	0.121927
8	0.235940
9	0.348060
10	0.445427
11	0.529148

12 0.602001

13 0.666308

14 0.723800

15 0.775759

16 0.823145

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.039021

4 0.040608

5 0.040859

6 0.053413

7 0.121927

8 0.235940

9 0.348060

10 0.445427

11 0.529148

12 0.602001

13 0.666308

14 0.723800

15 0.775759

16 0.823145

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.039021
4	0.040608
5	0.040859
6	0.053413
7	0.121927
8	0.235940
9	0.348060
10	0.445427
11	0.529148
12	0.602001
13	0.666308
14	0.723800
15	0.775759
16	0.823145

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.037652
4	0.039479
5	0.039519
6	0.043592
7	0.073010
8	0.129092
9	0.186240

10	0.235977
11	0.278599
12	0.315556
13	0.348081
14	0.377087
15	0.403250
16	0.427070

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.037652
4	0.039479
5	0.039519
6	0.043592
7	0.073010
8	0.129092
9	0.186240
10	0.235977
11	0.278599
12	0.315556
13	0.348081
14	0.377087
15	0.403250
16	0.427070

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.037652
4	0.039479
5	0.039519
6	0.043592
7	0.073010
8	0.129092
9	0.186240
10	0.235977
11	0.278599
12	0.315556
13	0.348081
14	0.377087
15	0.403250
16	0.427070

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.037652
4	0.039479
5	0.039519
6	0.043592
7	0.073010

8	0.129092
9	0.186240
10	0.235977
11	0.278599
12	0.315556
13	0.348081
14	0.377087
15	0.403250
16	0.427070

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.036329
4	0.037899
5	0.037913
6	0.039576
7	0.053737
8	0.082342
9	0.111676
10	0.137095
11	0.158789
12	0.177545
13	0.194015
14	0.208680
15	0.221890



16 0.233904

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.036329

4 0.037899

5 0.037913

6 0.039576

7 0.053737

8 0.082342

9 0.111676

10 0.137095

11 0.158789

12 0.177545

13 0.194015

14 0.208680

15 0.221890

16 0.233904

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.036329

4 0.037899

5 0.037913

6	0.039576
7	0.053737
8	0.082342
9	0.111676
10	0.137095
11	0.158789
12	0.177545
13	0.194015
14	0.208680
15	0.221890
16	0.233904

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.036329
4	0.037899
5	0.037913
6	0.039576
7	0.053737
8	0.082342
9	0.111676
10	0.137095
11	0.158789
12	0.177545
13	0.194015

14 0.208680

15 0.221890

16 0.233904

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.033550

4 0.034489

5 0.034499

6 0.035674

7 0.044565

8 0.060397

9 0.075681

10 0.088698

11 0.099754

12 0.109298

13 0.117676

14 0.125136

15 0.131857

16 0.137970

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.033550

4	0.034489
5	0.034499
6	0.035674
7	0.044565
8	0.060397
9	0.075681
10	0.088698
11	0.099754
12	0.109298
13	0.117676
14	0.125136
15	0.131857
16	0.137970

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.033550
4	0.034489
5	0.034499
6	0.035674
7	0.044565
8	0.060397
9	0.075681
10	0.088698
11	0.099754

12 0.109298

13 0.117676

14 0.125136

15 0.131857

16 0.137970

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.033550

4 0.034489

5 0.034499

6 0.035674

7 0.044565

8 0.060397

9 0.075681

10 0.088698

11 0.099754

12 0.109298

13 0.117676

14 0.125136

15 0.131857

16 0.137970

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.029199
4	0.029580
5	0.029610
6	0.031362
7	0.038953
8	0.048340
9	0.056430
10	0.063165
11	0.068869
12	0.073800
13	0.078138
14	0.082009
15	0.085503
16	0.088687

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.029199
4	0.029580
5	0.029610
6	0.031362
7	0.038953
8	0.048340
9	0.056430

10	0.063165
11	0.068869
12	0.073800
13	0.078138
14	0.082009
15	0.085503
16	0.088687

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.029199
4	0.029580
5	0.029610
6	0.031362
7	0.038953
8	0.048340
9	0.056430
10	0.063165
11	0.068869
12	0.073800
13	0.078138
14	0.082009
15	0.085503
16	0.088687

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.029199
4	0.029580
5	0.029610
6	0.031362
7	0.038953
8	0.048340
9	0.056430
10	0.063165
11	0.068869
12	0.073800
13	0.078138
14	0.082009
15	0.085503
16	0.088687

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.024575
4	0.024664
5	0.024982
6	0.029037
7	0.035469



8	0.040895
9	0.045262
10	0.048875
11	0.051948
12	0.054619
13	0.056982
14	0.059099
15	0.061016
16	0.062769

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.024575
4	0.024664
5	0.024982
6	0.029037
7	0.035469
8	0.040895
9	0.045262
10	0.048875
11	0.051948
12	0.054619
13	0.056982
14	0.059099
15	0.061016

16 0.062769

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.024575

4 0.024664

5 0.024982

6 0.029037

7 0.035469

8 0.040895

9 0.045262

10 0.048875

11 0.051948

12 0.054619

13 0.056982

14 0.059099

15 0.061016

16 0.062769

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.024575

4 0.024664

5 0.024982

6	0.029037
7	0.035469
8	0.040895
9	0.045262
10	0.048875
11	0.051948
12	0.054619
13	0.056982
14	0.059099
15	0.061016
16	0.062769

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.021435
4	0.021480
5	0.024367
6	0.029826
7	0.034036
8	0.037260
9	0.039858
10	0.042029
11	0.043895
12	0.045530
13	0.046985

14 0.048296

15 0.049489

16 0.050583

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.025017

4 0.025052

5 0.025916

6 0.030895

7 0.036193

8 0.040357

9 0.043692

10 0.046461

11 0.048825

12 0.050887

13 0.052715

14 0.054357

15 0.055847

16 0.057211

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027316

4	0.027393
5	0.027703
6	0.031462
7	0.037244
8	0.042089
9	0.045984
10	0.049208
11	0.051950
12	0.054335
13	0.056444
14	0.058334
15	0.060047
16	0.061613

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027316
4	0.027393
5	0.027703
6	0.031462
7	0.037244
8	0.042089
9	0.045984
10	0.049208
11	0.051950

12 0.054335

13 0.056444

14 0.058334

15 0.060047

16 0.061613

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027316

4 0.027393

5 0.027703

6 0.031462

7 0.037244

8 0.042089

9 0.045984

10 0.049208

11 0.051950

12 0.054335

13 0.056444

14 0.058334

15 0.060047

16 0.061613

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027316
4	0.027393
5	0.027703
6	0.031462
7	0.037244
8	0.042089
9	0.045984
10	0.049208
11	0.051950
12	0.054335
13	0.056444
14	0.058334
15	0.060047
16	0.061613

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.028821
4	0.028849
5	0.030446
6	0.036705
7	0.042479
8	0.046948
9	0.050531

10	0.053511
11	0.056061
12	0.058289
13	0.060267
14	0.062045
15	0.063660
16	0.065139

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.028821
4	0.028849
5	0.030446
6	0.036705
7	0.042479
8	0.046948
9	0.050531
10	0.053511
11	0.056061
12	0.058289
13	0.060267
14	0.062045
15	0.063660
16	0.065139

Name: time (min), dtype: float64



combined\_intermediate

2	0.000000
3	0.028821
4	0.028849
5	0.030446
6	0.036705
7	0.042479
8	0.046948
9	0.050531
10	0.053511
11	0.056061
12	0.058289
13	0.060267
14	0.062045
15	0.063660
16	0.065139

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.028821
4	0.028849
5	0.030446
6	0.036705
7	0.042479

8	0.046948
9	0.050531
10	0.053511
11	0.056061
12	0.058289
13	0.060267
14	0.062045
15	0.063660
16	0.065139

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027439
4	0.027698
5	0.033427
6	0.040043
7	0.044851
8	0.048544
9	0.051535
10	0.054047
11	0.056212
12	0.058114
13	0.059811
14	0.061342
15	0.062736

16 0.064017

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027439

4 0.027698

5 0.033427

6 0.040043

7 0.044851

8 0.048544

9 0.051535

10 0.054047

11 0.056212

12 0.058114

13 0.059811

14 0.061342

15 0.062736

16 0.064017

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027439

4 0.027698

5 0.033427

6	0.040043
7	0.044851
8	0.048544
9	0.051535
10	0.054047
11	0.056212
12	0.058114
13	0.059811
14	0.061342
15	0.062736
16	0.064017

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027439
4	0.027698
5	0.033427
6	0.040043
7	0.044851
8	0.048544
9	0.051535
10	0.054047
11	0.056212
12	0.058114
13	0.059811

14 0.061342

15 0.062736

16 0.064017

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.025539

4 0.028983

5 0.037022

6 0.042344

7 0.046182

8 0.049179

9 0.051638

10 0.053722

11 0.055531

12 0.057129

13 0.058560

14 0.059855

15 0.061039

16 0.062129

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.025539

4	0.028983
5	0.037022
6	0.042344
7	0.046182
8	0.049179
9	0.051638
10	0.053722
11	0.055531
12	0.057129
13	0.058560
14	0.059855
15	0.061039
16	0.062129

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.025539
4	0.028983
5	0.037022
6	0.042344
7	0.046182
8	0.049179
9	0.051638
10	0.053722
11	0.055531

12 0.057129

13 0.058560

14 0.059855

15 0.061039

16 0.062129

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.025539

4 0.028983

5 0.037022

6 0.042344

7 0.046182

8 0.049179

9 0.051638

10 0.053722

11 0.055531

12 0.057129

13 0.058560

14 0.059855

15 0.061039

16 0.062129

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.023696
4	0.033338
5	0.039793
6	0.043976
7	0.047071
8	0.049528
9	0.051566
10	0.053307
11	0.054827
12	0.056175
13	0.057387
14	0.058487
15	0.059494
16	0.060424

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.023696
4	0.033338
5	0.039793
6	0.043976
7	0.047071
8	0.049528
9	0.051566



10	0.053307
11	0.054827
12	0.056175
13	0.057387
14	0.058487
15	0.059494
16	0.060424

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.023696
4	0.033338
5	0.039793
6	0.043976
7	0.047071
8	0.049528
9	0.051566
10	0.053307
11	0.054827
12	0.056175
13	0.057387
14	0.058487
15	0.059494
16	0.060424

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.023696
4	0.033338
5	0.039793
6	0.043976
7	0.047071
8	0.049528
9	0.051566
10	0.053307
11	0.054827
12	0.056175
13	0.057387
14	0.058487
15	0.059494
16	0.060424

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.025159
4	0.036355
5	0.042200
6	0.046066
7	0.048958

8	0.051268
9	0.053193
10	0.054843
11	0.056286
12	0.057568
13	0.058723
14	0.059772
15	0.060734
16	0.061622

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.025159
4	0.036355
5	0.042200
6	0.046066
7	0.048958
8	0.051268
9	0.053193
10	0.054843
11	0.056286
12	0.057568
13	0.058723
14	0.059772
15	0.060734

16 0.061622

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.025159

4 0.036355

5 0.042200

6 0.046066

7 0.048958

8 0.051268

9 0.053193

10 0.054843

11 0.056286

12 0.057568

13 0.058723

14 0.059772

15 0.060734

16 0.061622

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.025159

4 0.036355

5 0.042200

6	0.046066
7	0.048958
8	0.051268
9	0.053193
10	0.054843
11	0.056286
12	0.057568
13	0.058723
14	0.059772
15	0.060734
16	0.061622

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.026950
4	0.037583
5	0.042978
6	0.046583
7	0.049293
8	0.051467
9	0.053281
10	0.054838
11	0.056201
12	0.057414
13	0.058507

14 0.059501

15 0.060412

16 0.061254

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.026950

4 0.037583

5 0.042978

6 0.046583

7 0.049293

8 0.051467

9 0.053281

10 0.054838

11 0.056201

12 0.057414

13 0.058507

14 0.059501

15 0.060412

16 0.061254

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.026950

4	0.037583
5	0.042978
6	0.046583
7	0.049293
8	0.051467
9	0.053281
10	0.054838
11	0.056201
12	0.057414
13	0.058507
14	0.059501
15	0.060412
16	0.061254

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.026950
4	0.037583
5	0.042978
6	0.046583
7	0.049293
8	0.051467
9	0.053281
10	0.054838
11	0.056201

12 0.057414

13 0.058507

14 0.059501

15 0.060412

16 0.061254

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027307

4 0.037943

5 0.043345

6 0.046949

7 0.049657

8 0.051827

9 0.053637

10 0.055191

11 0.056551

12 0.057762

13 0.058851

14 0.059843

15 0.060752

16 0.061591

Name: time (min), dtype: float64

combined\_intermediate



2	0.000000
3	0.027307
4	0.037943
5	0.043345
6	0.046949
7	0.049657
8	0.051827
9	0.053637
10	0.055191
11	0.056551
12	0.057762
13	0.058851
14	0.059843
15	0.060752
16	0.061591

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027307
4	0.037943
5	0.043345
6	0.046949
7	0.049657
8	0.051827
9	0.053637

10	0.055191
11	0.056551
12	0.057762
13	0.058851
14	0.059843
15	0.060752
16	0.061591

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027307
4	0.037943
5	0.043345
6	0.046949
7	0.049657
8	0.051827
9	0.053637
10	0.055191
11	0.056551
12	0.057762
13	0.058851
14	0.059843
15	0.060752
16	0.061591

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027178
4	0.037769
5	0.043214
6	0.046827
7	0.049535
8	0.051700
9	0.053506
10	0.055053
11	0.056408
12	0.057613
13	0.058697
14	0.059683
15	0.060586
16	0.061421

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027433
4	0.038070
5	0.043478
6	0.047083
7	0.049791

8	0.051960
9	0.053770
10	0.055323
11	0.056683
12	0.057893
13	0.058982
14	0.059972
15	0.060881
16	0.061720

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027433
4	0.038070
5	0.043478
6	0.047083
7	0.049791
8	0.051960
9	0.053770
10	0.055323
11	0.056683
12	0.057893
13	0.058982
14	0.059972
15	0.060881

16 0.061720

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027433

4 0.038070

5 0.043478

6 0.047083

7 0.049791

8 0.051960

9 0.053770

10 0.055323

11 0.056683

12 0.057893

13 0.058982

14 0.059972

15 0.060881

16 0.061720

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027433

4 0.038070

5 0.043478

6	0.047083
7	0.049791
8	0.051960
9	0.053770
10	0.055323
11	0.056683
12	0.057893
13	0.058982
14	0.059972
15	0.060881
16	0.061720

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027391
4	0.038019
5	0.043445
6	0.047054
7	0.049762
8	0.051929
9	0.053737
10	0.055287
11	0.056644
12	0.057851
13	0.058938

14 0.059926

15 0.060832

16 0.061669

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027438

4 0.038075

5 0.043489

6 0.047096

7 0.049804

8 0.051973

9 0.053782

10 0.055334

11 0.056692

12 0.057901

13 0.058989

14 0.059979

15 0.060886

16 0.061724

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027438

4	0.038075
5	0.043489
6	0.047096
7	0.049804
8	0.051973
9	0.053782
10	0.055334
11	0.056692
12	0.057901
13	0.058989
14	0.059979
15	0.060886
16	0.061724

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027438
4	0.038075
5	0.043489
6	0.047096
7	0.049804
8	0.051973
9	0.053782
10	0.055334
11	0.056692



12	0.057901
13	0.058989
14	0.059979
15	0.060886
16	0.061724

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027438
4	0.038075
5	0.043489
6	0.047096
7	0.049804
8	0.051973
9	0.053782
10	0.055334
11	0.056692
12	0.057901
13	0.058989
14	0.059979
15	0.060886
16	0.061724

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027419
4	0.038047
5	0.043475
6	0.047085
7	0.049793
8	0.051960
9	0.053768
10	0.055318
11	0.056676
12	0.057882
13	0.058969
14	0.059957
15	0.060863
16	0.061700

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027419
4	0.038047
5	0.043475
6	0.047085
7	0.049793
8	0.051960
9	0.053768

10	0.055318
11	0.056676
12	0.057882
13	0.058969
14	0.059957
15	0.060863
16	0.061700

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027419
4	0.038047
5	0.043475
6	0.047085
7	0.049793
8	0.051960
9	0.053768
10	0.055318
11	0.056676
12	0.057882
13	0.058969
14	0.059957
15	0.060863
16	0.061700

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027419
4	0.038047
5	0.043475
6	0.047085
7	0.049793
8	0.051960
9	0.053768
10	0.055318
11	0.056676
12	0.057882
13	0.058969
14	0.059957
15	0.060863
16	0.061700

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027424
4	0.038034
5	0.043477
6	0.047092
7	0.049801

8	0.051968
9	0.053775
10	0.055324
11	0.056680
12	0.057886
13	0.058972
14	0.059959
15	0.060864
16	0.061699

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027424
4	0.038034
5	0.043477
6	0.047092
7	0.049801
8	0.051968
9	0.053775
10	0.055324
11	0.056680
12	0.057886
13	0.058972
14	0.059959
15	0.060864

16 0.061699

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027424

4 0.038034

5 0.043477

6 0.047092

7 0.049801

8 0.051968

9 0.053775

10 0.055324

11 0.056680

12 0.057886

13 0.058972

14 0.059959

15 0.060864

16 0.061699

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027424

4 0.038034

5 0.043477

6	0.047092
7	0.049801
8	0.051968
9	0.053775
10	0.055324
11	0.056680
12	0.057886
13	0.058972
14	0.059959
15	0.060864
16	0.061699

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027439
4	0.038027
5	0.043483
6	0.047102
7	0.049812
8	0.051980
9	0.053787
10	0.055336
11	0.056691
12	0.057897
13	0.058981

14 0.059968

15 0.060872

16 0.061707

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027439

4 0.038027

5 0.043483

6 0.047102

7 0.049812

8 0.051980

9 0.053787

10 0.055336

11 0.056691

12 0.057897

13 0.058981

14 0.059968

15 0.060872

16 0.061707

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027439



4	0.038027
5	0.043483
6	0.047102
7	0.049812
8	0.051980
9	0.053787
10	0.055336
11	0.056691
12	0.057897
13	0.058981
14	0.059968
15	0.060872
16	0.061707

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027439
4	0.038027
5	0.043483
6	0.047102
7	0.049812
8	0.051980
9	0.053787
10	0.055336
11	0.056691

12 0.057897

13 0.058981

14 0.059968

15 0.060872

16 0.061707

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027443

4 0.037957

5 0.043442

6 0.047070

7 0.049784

8 0.051952

9 0.053759

10 0.055307

11 0.056661

12 0.057865

13 0.058949

14 0.059934

15 0.060837

16 0.061671

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027443
4	0.037957
5	0.043442
6	0.047070
7	0.049784
8	0.051952
9	0.053759
10	0.055307
11	0.056661
12	0.057865
13	0.058949
14	0.059934
15	0.060837
16	0.061671

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027443
4	0.037957
5	0.043442
6	0.047070
7	0.049784
8	0.051952
9	0.053759

10	0.055307
11	0.056661
12	0.057865
13	0.058949
14	0.059934
15	0.060837
16	0.061670

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027443
4	0.037957
5	0.043442
6	0.047070
7	0.049784
8	0.051952
9	0.053759
10	0.055307
11	0.056661
12	0.057865
13	0.058949
14	0.059934
15	0.060837
16	0.061671

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027494
4	0.037976
5	0.043474
6	0.047107
7	0.049823
8	0.051993
9	0.053800
10	0.055349
11	0.056704
12	0.057908
13	0.058991
14	0.059976
15	0.060879
16	0.061713

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027494
4	0.037976
5	0.043474
6	0.047107
7	0.049823

8	0.051993
9	0.053800
10	0.055349
11	0.056704
12	0.057908
13	0.058991
14	0.059976
15	0.060879
16	0.061713

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027494
4	0.037976
5	0.043474
6	0.047107
7	0.049823
8	0.051993
9	0.053800
10	0.055349
11	0.056704
12	0.057908
13	0.058991
14	0.059976
15	0.060879

16 0.061713

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027494

4 0.037976

5 0.043474

6 0.047107

7 0.049823

8 0.051993

9 0.053800

10 0.055349

11 0.056704

12 0.057908

13 0.058991

14 0.059976

15 0.060879

16 0.061713

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027536

4 0.037917

5 0.043441

6	0.047083
7	0.049803
8	0.051975
9	0.053783
10	0.055331
11	0.056686
12	0.057889
13	0.058972
14	0.059957
15	0.060859
16	0.061692

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027536
4	0.037917
5	0.043441
6	0.047083
7	0.049803
8	0.051975
9	0.053783
10	0.055331
11	0.056686
12	0.057889
13	0.058972



14 0.059957

15 0.060859

16 0.061692

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027536

4 0.037917

5 0.043441

6 0.047083

7 0.049803

8 0.051975

9 0.053783

10 0.055331

11 0.056686

12 0.057889

13 0.058972

14 0.059957

15 0.060859

16 0.061692

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027536

4	0.037917
5	0.043441
6	0.047083
7	0.049803
8	0.051975
9	0.053783
10	0.055331
11	0.056686
12	0.057889
13	0.058972
14	0.059957
15	0.060859
16	0.061692

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027608
4	0.037901
5	0.043443
6	0.047092
7	0.049815
8	0.051988
9	0.053796
10	0.055345
11	0.056699

12 0.057902

13 0.058985

14 0.059969

15 0.060871

16 0.061703

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027608

4 0.037901

5 0.043443

6 0.047092

7 0.049815

8 0.051988

9 0.053796

10 0.055345

11 0.056699

12 0.057902

13 0.058985

14 0.059969

15 0.060871

16 0.061703

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027608
4	0.037901
5	0.043443
6	0.047092
7	0.049815
8	0.051988
9	0.053796
10	0.055345
11	0.056699
12	0.057902
13	0.058985
14	0.059969
15	0.060871
16	0.061703

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027608
4	0.037901
5	0.043443
6	0.047092
7	0.049815
8	0.051988
9	0.053796

10	0.055345
11	0.056699
12	0.057902
13	0.058985
14	0.059969
15	0.060871
16	0.061703

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027601
4	0.037933
5	0.043465
6	0.047110
7	0.049831
8	0.052002
9	0.053810
10	0.055358
11	0.056712
12	0.057915
13	0.058998
14	0.059982
15	0.060883
16	0.061716

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027601
4	0.037933
5	0.043465
6	0.047110
7	0.049831
8	0.052002
9	0.053810
10	0.055358
11	0.056712
12	0.057915
13	0.058998
14	0.059982
15	0.060883
16	0.061716

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027601
4	0.037933
5	0.043465
6	0.047110
7	0.049831

8	0.052002
9	0.053810
10	0.055358
11	0.056712
12	0.057915
13	0.058998
14	0.059982
15	0.060883
16	0.061716

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027601
4	0.037933
5	0.043465
6	0.047110
7	0.049831
8	0.052002
9	0.053810
10	0.055358
11	0.056712
12	0.057915
13	0.058998
14	0.059982
15	0.060883

16 0.061716

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027608

4 0.037928

5 0.043464

6 0.047110

7 0.049831

8 0.052004

9 0.053812

10 0.055360

11 0.056714

12 0.057918

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027608

4 0.037928

5 0.043464



6	0.047110
7	0.049831
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027608
4	0.037928
5	0.043464
6	0.047110
7	0.049831
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027608

4 0.037928

5 0.043464

6 0.047110

7 0.049831

8 0.052004

9 0.053812

10 0.055360

11 0.056714

12 0.057918

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027605

4	0.037931
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057917
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027605
4	0.037931
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714

12 0.057917

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027605

4 0.037931

5 0.043465

6 0.047110

7 0.049832

8 0.052004

9 0.053812

10 0.055360

11 0.056714

12 0.057917

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027605
4	0.037931
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057917
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812

10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832

8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886



16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027606

4 0.037930

5 0.043465

6 0.047110

7 0.049832

8 0.052004

9 0.053812

10 0.055360

11 0.056714

12 0.057918

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027606

4 0.037930

5 0.043465

6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027606

4 0.037930

5 0.043465

6 0.047110

7 0.049832

8 0.052004

9 0.053812

10 0.055360

11 0.056714

12 0.057918

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027606

4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714

12 0.057918

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2 0.000000

3 0.027606

4 0.037930

5 0.043465

6 0.047110

7 0.049832

8 0.052004

9 0.053812

10 0.055360

11 0.056714

12 0.057918

13 0.059000

14 0.059984

15 0.060886

16 0.061718

Name: time (min), dtype: float64

combined\_intermediate

2	0.000000
3	0.027606
4	0.037930
5	0.043465
6	0.047110
7	0.049832
8	0.052004
9	0.053812
10	0.055360
11	0.056714
12	0.057918
13	0.059000
14	0.059984
15	0.060886
16	0.061718

Name: time (min), dtype: float64

combined\_intermediate

[0. 0.06580593 0.07343599 0.07786406 0.08099617 0.08342159  
0.08540124 0.08707381 0.0885219 0.0897987 0.09094048 0.09197308  
0.09291557 0.09378243 0.09458489 0.09533187 0.09603054 0.09668678  
0.09730545 0.09789061 0.09844571 0.09897368 0.09947707 0.09995804  
0.10041853 0.10086019 0.10128451 0.1016928 0.10208623 0.10246583  
0.10283256 0.10318724 0.10353066 0.1038635 0.1041864 0.10449993  
0.10480462 0.10510096 0.10538938 0.10567031 0.10594412 0.10621117  
0.10647178 0.10672625 0.10697487 0.10721789 0.10745558 0.10768814

0.10791581 0.10813878 0.10835725 0.10857138 0.10878136 0.10898733  
0.10918945 0.10938787 0.1095827 0.10977408 0.10996214 0.11014698  
0.11032871 0.11050743 0.11068325 0.11085625 0.11102653 0.11119417  
0.11135924 0.11152184 0.11168202 0.11183986 0.11199543 0.1121488  
0.11230002 0.11244915 0.11259625 0.11274138 0.11288458 0.11302591  
0.11316542 0.11330315 0.11343914 0.11357345 0.11370611 0.11383716  
0.11396664 0.11409458 0.11422103 0.11434602 0.11446958 0.11459174  
0.11471253 0.114832 0.11495015 0.11506703 0.11518266 0.11529706  
0.11541026 0.11552229 0.11563318 0.11574293]

combined\_intermediate

2 0.000000  
3 0.027606  
4 0.037930  
5 0.043465  
6 0.047110  
7 0.049832  
8 0.052004  
9 0.053812  
10 0.055360  
11 0.056714  
12 0.057918  
13 0.059000  
14 0.059984  
15 0.060886  
16 0.061718

Name: time (min), dtype: float64

vmax\_standard\_flux

2	-0.999999
3	-0.999910
4	-0.999876
5	-0.999857
6	-0.999846
7	-0.999836
8	-0.999829
9	-0.999823
10	-0.999818
11	-0.999814
12	-0.999810
13	-0.999807
14	-0.999804
15	-0.999801
16	-0.999799

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999999
3	-0.999910
4	-0.999876
5	-0.999857
6	-0.999846



7 -0.999836  
8 -0.999829  
9 -0.999823  
10 -0.999818  
11 -0.999814  
12 -0.999810  
13 -0.999807  
14 -0.999804  
15 -0.999801  
16 -0.999799

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999999  
3 -0.999910  
4 -0.999876  
5 -0.999857  
6 -0.999846  
7 -0.999836  
8 -0.999829  
9 -0.999823  
10 -0.999818  
11 -0.999814  
12 -0.999810  
13 -0.999807  
14 -0.999804

15 -0.999801

16 -0.999799

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999998

3 -0.999640

4 -0.999507

5 -0.999430

6 -0.999385

7 -0.999345

8 -0.999317

9 -0.999296

10 -0.999273

11 -0.999257

12 -0.999242

13 -0.999229

14 -0.999217

15 -0.999207

16 -0.999198

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999998

3 -0.999640

4 -0.999507

5 -0.999430  
6 -0.999385  
7 -0.999345  
8 -0.999317  
9 -0.999296  
10 -0.999273  
11 -0.999257  
12 -0.999242  
13 -0.999229  
14 -0.999217  
15 -0.999207  
16 -0.999198

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999998  
3 -0.999640  
4 -0.999507  
5 -0.999430  
6 -0.999385  
7 -0.999345  
8 -0.999317  
9 -0.999296  
10 -0.999273  
11 -0.999257  
12 -0.999242

13 -0.999229

14 -0.999217

15 -0.999207

16 -0.999198

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999991

3 -0.998612

4 -0.998098

5 -0.997803

6 -0.997628

7 -0.997476

8 -0.997366

9 -0.997284

10 -0.997196

11 -0.997137

12 -0.997077

13 -0.997028

14 -0.996982

15 -0.996944

16 -0.996908

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999991

3	-0.998612
4	-0.998098
5	-0.997803
6	-0.997628
7	-0.997476
8	-0.997366
9	-0.997284
10	-0.997196
11	-0.997137
12	-0.997077
13	-0.997028
14	-0.996982
15	-0.996944
16	-0.996908

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999991
3	-0.998612
4	-0.998098
5	-0.997803
6	-0.997628
7	-0.997476
8	-0.997366
9	-0.997284
10	-0.997196

11 -0.997137

12 -0.997077

13 -0.997028

14 -0.996982

15 -0.996944

16 -0.996908

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999967

3 -0.995015

4 -0.993173

5 -0.992119

6 -0.991495

7 -0.990951

8 -0.990560

9 -0.990266

10 -0.989952

11 -0.989742

12 -0.989529

13 -0.989354

14 -0.989193

15 -0.989057

16 -0.988928

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999967
3	-0.995015
4	-0.993173
5	-0.992119
6	-0.991495
7	-0.990951
8	-0.990560
9	-0.990266
10	-0.989952
11	-0.989742
12	-0.989529
13	-0.989354
14	-0.989193
15	-0.989057
16	-0.988928

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999967
3	-0.995015
4	-0.993173
5	-0.992119
6	-0.991495
7	-0.990951
8	-0.990560

9 -0.990266  
10 -0.989952  
11 -0.989742  
12 -0.989529  
13 -0.989354  
14 -0.989193  
15 -0.989057  
16 -0.988928

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999900  
3 -0.984832  
4 -0.979288  
5 -0.976128  
6 -0.974263  
7 -0.972640  
8 -0.971474  
9 -0.970599  
10 -0.969666  
11 -0.969043  
12 -0.968410  
13 -0.967889  
14 -0.967411  
15 -0.967008  
16 -0.966626



Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999900
3	-0.984832
4	-0.979288
5	-0.976128
6	-0.974263
7	-0.972640
8	-0.971474
9	-0.970599
10	-0.969666
11	-0.969043
12	-0.968410
13	-0.967889
14	-0.967411
15	-0.967008
16	-0.966626

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999900
3	-0.984832
4	-0.979288
5	-0.976128
6	-0.974263

7 -0.972640  
8 -0.971474  
9 -0.970599  
10 -0.969666  
11 -0.969043  
12 -0.968410  
13 -0.967889  
14 -0.967411  
15 -0.967007  
16 -0.966626

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999755  
3 -0.963644  
4 -0.950650  
5 -0.943310  
6 -0.939003  
7 -0.935267  
8 -0.932593  
9 -0.930589  
10 -0.928457  
11 -0.927036  
12 -0.925594  
13 -0.924409  
14 -0.923323

15 -0.922407

16 -0.921540

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999755

3 -0.963644

4 -0.950650

5 -0.943310

6 -0.939003

7 -0.935267

8 -0.932593

9 -0.930589

10 -0.928457

11 -0.927036

12 -0.925594

13 -0.924409

14 -0.923323

15 -0.922407

16 -0.921540

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999755

3 -0.963644

4 -0.950650

5	-0.943310
6	-0.939003
7	-0.935267
8	-0.932593
9	-0.930589
10	-0.928457
11	-0.927036
12	-0.925594
13	-0.924409
14	-0.923323
15	-0.922407
16	-0.921540

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.999482
3	-0.925238
4	-0.899603
5	-0.885368
6	-0.877097
7	-0.869970
8	-0.864896
9	-0.861107
10	-0.857092
11	-0.854424
12	-0.851722

13 -0.849507

14 -0.847481

15 -0.845775

16 -0.844163

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999482

3 -0.925238

4 -0.899603

5 -0.885368

6 -0.877097

7 -0.869970

8 -0.864896

9 -0.861107

10 -0.857092

11 -0.854424

12 -0.851722

13 -0.849507

14 -0.847481

15 -0.845775

16 -0.844163

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.999482

3	-0.925238
4	-0.899603
5	-0.885368
6	-0.877097
7	-0.869970
8	-0.864895
9	-0.861107
10	-0.857092
11	-0.854424
12	-0.851722
13	-0.849507
14	-0.847480
15	-0.845775
16	-0.844163

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.998943
3	-0.856111
4	-0.810507
5	-0.785959
6	-0.771946
7	-0.760014
8	-0.751599
9	-0.745361
10	-0.738789

11 -0.734444

12 -0.730063

13 -0.726485

14 -0.723223

15 -0.720484

16 -0.717905

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.998943

3 -0.856111

4 -0.810507

5 -0.785959

6 -0.771946

7 -0.760014

8 -0.751599

9 -0.745361

10 -0.738789

11 -0.734444

12 -0.730063

13 -0.726485

14 -0.723223

15 -0.720484

16 -0.717905

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.998943
3	-0.856110
4	-0.810506
5	-0.785959
6	-0.771946
7	-0.760013
8	-0.751599
9	-0.745360
10	-0.738789
11	-0.734443
12	-0.730063
13	-0.726485
14	-0.723222
15	-0.720484
16	-0.717904

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.997872
3	-0.739545
4	-0.668254
5	-0.631898
6	-0.611751
7	-0.594937
8	-0.583265



9 -0.574708  
10 -0.565785  
11 -0.559934  
12 -0.554075  
13 -0.549320  
14 -0.545006  
15 -0.541403  
16 -0.538022

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.997872  
3 -0.739545  
4 -0.668254  
5 -0.631898  
6 -0.611751  
7 -0.594937  
8 -0.583265  
9 -0.574708  
10 -0.565785  
11 -0.559934  
12 -0.554075  
13 -0.549320  
14 -0.545006  
15 -0.541403  
16 -0.538022

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.997872
3	-0.739545
4	-0.668253
5	-0.631897
6	-0.611751
7	-0.594936
8	-0.583264
9	-0.574708
10	-0.565784
11	-0.559933
12	-0.554075
13	-0.549319
14	-0.545005
15	-0.541402
16	-0.538021

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.995740
3	-0.568367
4	-0.477183
5	-0.434430
6	-0.411768

7 -0.393400  
8 -0.380934  
9 -0.371942  
10 -0.362694  
11 -0.356702  
12 -0.350759  
13 -0.345975  
14 -0.341667  
15 -0.338092  
16 -0.334757

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.995740  
3 -0.568367  
4 -0.477183  
5 -0.434430  
6 -0.411768  
7 -0.393400  
8 -0.380934  
9 -0.371942  
10 -0.362694  
11 -0.356702  
12 -0.350759  
13 -0.345975  
14 -0.341667

15 -0.338092

16 -0.334757

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.995740

3 -0.568366

4 -0.477182

5 -0.434429

6 -0.411768

7 -0.393399

8 -0.380933

9 -0.371942

10 -0.362693

11 -0.356702

12 -0.350758

13 -0.345975

14 -0.341667

15 -0.338092

16 -0.334757

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.991524

3 -0.366575

4 -0.278886

5 -0.242080  
6 -0.223620  
7 -0.209174  
8 -0.199630  
9 -0.192874  
10 -0.186036  
11 -0.181665  
12 -0.177376  
13 -0.173956  
14 -0.170902  
15 -0.168386  
16 -0.166053

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.991524  
3 -0.366575  
4 -0.278886  
5 -0.242080  
6 -0.223620  
7 -0.209174  
8 -0.199630  
9 -0.192874  
10 -0.186036  
11 -0.181665  
12 -0.177376

13 -0.173956

14 -0.170902

15 -0.168386

16 -0.166053

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.991524

3 -0.366574

4 -0.278885

5 -0.242079

6 -0.223619

7 -0.209174

8 -0.199629

9 -0.192873

10 -0.186035

11 -0.181665

12 -0.177375

13 -0.173956

14 -0.170902

15 -0.168385

16 -0.166052

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.987384

3	-0.256913
4	-0.183549
5	-0.154824
6	-0.140885
7	-0.130197
8	-0.123242
9	-0.118371
10	-0.113485
11	-0.110385
12	-0.107360
13	-0.104962
14	-0.102829
15	-0.101079
16	-0.099461

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.987384
3	-0.256913
4	-0.183549
5	-0.154824
6	-0.140885
7	-0.130197
8	-0.123242
9	-0.118371
10	-0.113485

11 -0.110385

12 -0.107360

13 -0.104962

14 -0.102829

15 -0.101079

16 -0.099461

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.987384

3 -0.256912

4 -0.183548

5 -0.154824

6 -0.140884

7 -0.130196

8 -0.123242

9 -0.118370

10 -0.113484

11 -0.110384

12 -0.107360

13 -0.104962

14 -0.102829

15 -0.101079

16 -0.099461

Name: load (L/m<sup>2</sup>), dtype: float64



vmax\_standard\_flux

2	-0.979284
3	-0.147080
4	-0.097394
5	-0.079490
6	-0.071123
7	-0.064852
8	-0.060839
9	-0.058061
10	-0.055301
11	-0.053564
12	-0.051880
13	-0.050553
14	-0.049377
15	-0.048417
16	-0.047532

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.979284
3	-0.147080
4	-0.097394
5	-0.079490
6	-0.071123
7	-0.064852
8	-0.060839

9 -0.058061  
10 -0.055301  
11 -0.053564  
12 -0.051880  
13 -0.050553  
14 -0.049377  
15 -0.048417  
16 -0.047532

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.979284  
3 -0.147081  
4 -0.097394  
5 -0.079490  
6 -0.071123  
7 -0.064852  
8 -0.060839  
9 -0.058061  
10 -0.055301  
11 -0.053564  
12 -0.051880  
13 -0.050553  
14 -0.049378  
15 -0.048417  
16 -0.047533

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.971483
3	-0.096082
4	-0.060888
5	-0.048796
6	-0.043261
7	-0.039163
8	-0.036565
9	-0.034777
10	-0.033009
11	-0.031902
12	-0.030832
13	-0.029991
14	-0.029248
15	-0.028642
16	-0.028085

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.971483
3	-0.096082
4	-0.060888
5	-0.048796
6	-0.043261

7 -0.039163  
8 -0.036565  
9 -0.034777  
10 -0.033009  
11 -0.031902  
12 -0.030832  
13 -0.029991  
14 -0.029248  
15 -0.028642  
16 -0.028085

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.971483  
3 -0.096082  
4 -0.060888  
5 -0.048796  
6 -0.043261  
7 -0.039163  
8 -0.036565  
9 -0.034777  
10 -0.033010  
11 -0.031902  
12 -0.030832  
13 -0.029991  
14 -0.029248

15 -0.028642

16 -0.028085

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.956549

3 -0.050923

4 -0.030720

5 -0.024137

6 -0.021190

7 -0.019037

8 -0.017685

9 -0.016760

10 -0.015851

11 -0.015284

12 -0.014738

13 -0.014310

14 -0.013933

15 -0.013626

16 -0.013345

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.956549

3 -0.050923

4 -0.030720

5 -0.024137  
6 -0.021190  
7 -0.019037  
8 -0.017685  
9 -0.016760  
10 -0.015851  
11 -0.015284  
12 -0.014738  
13 -0.014310  
14 -0.013933  
15 -0.013626  
16 -0.013345

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.956549  
3 -0.050923  
4 -0.030720  
5 -0.024137  
6 -0.021190  
7 -0.019037  
8 -0.017685  
9 -0.016760  
10 -0.015851  
11 -0.015284  
12 -0.014738

13 -0.014310

14 -0.013933

15 -0.013626

16 -0.013345

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.942732

3 -0.032209

4 -0.018924

5 -0.014715

6 -0.012853

7 -0.011502

8 -0.010657

9 -0.010082

10 -0.009518

11 -0.009166

12 -0.008829

13 -0.008564

14 -0.008332

15 -0.008143

16 -0.007970

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.942732

3	-0.032209
4	-0.018924
5	-0.014715
6	-0.012853
7	-0.011502
8	-0.010657
9	-0.010082
10	-0.009518
11	-0.009166
12	-0.008829
13	-0.008564
14	-0.008332
15	-0.008143
16	-0.007970

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.942732
3	-0.032210
4	-0.018924
5	-0.014715
6	-0.012853
7	-0.011502
8	-0.010657
9	-0.010082
10	-0.009518



11 -0.009166

12 -0.008829

13 -0.008565

14 -0.008332

15 -0.008143

16 -0.007970

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.917473

3 -0.016765

4 -0.009575

5 -0.007365

6 -0.006400

7 -0.005703

8 -0.005271

9 -0.004977

10 -0.004689

11 -0.004511

12 -0.004340

13 -0.004206

14 -0.004088

15 -0.003993

16 -0.003906

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.917473
3	-0.016765
4	-0.009575
5	-0.007365
6	-0.006400
7	-0.005703
8	-0.005271
9	-0.004977
10	-0.004689
11	-0.004511
12	-0.004340
13	-0.004206
14	-0.004088
15	-0.003993
16	-0.003906

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.917473
3	-0.016765
4	-0.009575
5	-0.007365
6	-0.006400
7	-0.005704
8	-0.005271

9 -0.004977

10 -0.004689

11 -0.004511

12 -0.004340

13 -0.004206

14 -0.004088

15 -0.003993

16 -0.003906

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.875649

3 -0.007577

4 -0.004226

5 -0.003222

6 -0.002788

7 -0.002476

8 -0.002283

9 -0.002153

10 -0.002025

11 -0.001946

12 -0.001871

13 -0.001812

14 -0.001760

15 -0.001718

16 -0.001679

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.875649
3	-0.007577
4	-0.004226
5	-0.003222
6	-0.002788
7	-0.002476
8	-0.002283
9	-0.002153
10	-0.002025
11	-0.001946
12	-0.001871
13	-0.001812
14	-0.001760
15	-0.001718
16	-0.001679

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.875649
3	-0.007577
4	-0.004226
5	-0.003222
6	-0.002788

7 -0.002476  
8 -0.002283  
9 -0.002153  
10 -0.002025  
11 -0.001946  
12 -0.001871  
13 -0.001812  
14 -0.001760  
15 -0.001718  
16 -0.001679

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841947  
3 -0.004613  
4 -0.002546  
5 -0.001933  
6 -0.001669  
7 -0.001481  
8 -0.001364  
9 -0.001285  
10 -0.001208  
11 -0.001161  
12 -0.001115  
13 -0.001080  
14 -0.001049

15 -0.001023

16 -0.001000

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841947

3 -0.004613

4 -0.002546

5 -0.001933

6 -0.001669

7 -0.001481

8 -0.001364

9 -0.001285

10 -0.001208

11 -0.001161

12 -0.001115

13 -0.001080

14 -0.001049

15 -0.001023

16 -0.001000

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841947

3 -0.004613

4 -0.002546

5 -0.001933

6 -0.001669

7 -0.001481

8 -0.001364

9 -0.001285

10 -0.001208

11 -0.001161

12 -0.001115

13 -0.001080

14 -0.001049

15 -0.001023

16 -0.001000

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841680

3 -0.004596

4 -0.002537

5 -0.001926

6 -0.001663

7 -0.001475

8 -0.001359

9 -0.001281

10 -0.001204

11 -0.001157

12 -0.001111

13 -0.001076

14 -0.001045

15 -0.001019

16 -0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841680

3 -0.004596

4 -0.002537

5 -0.001926

6 -0.001663

7 -0.001475

8 -0.001359

9 -0.001281

10 -0.001204

11 -0.001157

12 -0.001111

13 -0.001076

14 -0.001045

15 -0.001019

16 -0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841680



3	-0.004596
4	-0.002537
5	-0.001926
6	-0.001663
7	-0.001475
8	-0.001359
9	-0.001281
10	-0.001204
11	-0.001157
12	-0.001111
13	-0.001076
14	-0.001045
15	-0.001019
16	-0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2	-0.841680
3	-0.004596
4	-0.002537
5	-0.001926
6	-0.001663
7	-0.001475
8	-0.001359
9	-0.001281
10	-0.001204

11 -0.001157

12 -0.001111

13 -0.001076

14 -0.001045

15 -0.001019

16 -0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841680

3 -0.004596

4 -0.002537

5 -0.001926

6 -0.001663

7 -0.001475

8 -0.001359

9 -0.001281

10 -0.001204

11 -0.001157

12 -0.001111

13 -0.001076

14 -0.001045

15 -0.001019

16 -0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

2 -0.841680  
3 -0.004596  
4 -0.002537  
5 -0.001926  
6 -0.001663  
7 -0.001475  
8 -0.001359  
9 -0.001281  
10 -0.001204  
11 -0.001157  
12 -0.001111  
13 -0.001076  
14 -0.001045  
15 -0.001019  
16 -0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

vmax\_standard\_flux

[ nan -9.79905969e-09 -2.45000744e-09 -1.08892813e-09  
-6.12532179e-10 -3.92024476e-10 -2.72241016e-10 -2.00014751e-10  
-1.53136835e-10 -1.20997338e-10 -9.80080594e-11 -8.09985420e-11  
-6.80613770e-11 -5.79931996e-11 -5.00043948e-11 -4.35594250e-11  
-3.82846825e-11 -3.39130998e-11 -3.02496673e-11 -2.71493016e-11  
-2.45022574e-11 -2.22242803e-11 -2.02498178e-11 -1.85272507e-11  
-1.70154846e-11 -1.56814758e-11 -1.44984103e-11 -1.34443459e-11

-1.25011871e-11 -1.16539038e-11 -1.08899281e-11 -1.01986862e-11  
-9.57122984e-12 -8.99994600e-12 -8.47832433e-12 -8.00077106e-12  
-7.56245841e-12 -7.15920201e-12 -6.78736076e-12 -6.44375427e-12  
-6.12559468e-12 -5.83042990e-12 -5.55609626e-12 -5.30067867e-12  
-5.06247722e-12 -4.83997870e-12 -4.63183261e-12 -4.43683056e-12  
-4.25388870e-12 -4.08203265e-12 -3.92038448e-12 -3.76815146e-12  
-3.62461638e-12 -3.48912901e-12 -3.36109879e-12 -3.23998834e-12  
-3.12530783e-12 -3.01661002e-12 -2.91348589e-12 -2.81556079e-12  
-2.72249102e-12 -2.63396081e-12 -2.54967968e-12 -2.46937999e-12  
-2.39281486e-12 -2.31975625e-12 -2.24999325e-12 -2.18333059e-12  
-2.11958725e-12 -2.05859523e-12 -2.00019842e-12 -1.94425167e-12  
-1.89061980e-12 -1.83917685e-12 -1.78980529e-12 -1.74239540e-12  
-1.69684461e-12 -1.65305697e-12 -1.61094266e-12 -1.57041747e-12  
-1.53140246e-12 -1.49382351e-12 -1.45761100e-12 -1.42269947e-12  
-1.38902734e-12 -1.35653663e-12 -1.32517272e-12 -1.29488409e-12  
-1.26562215e-12 -1.23734102e-12 -1.20999734e-12 -1.18355014e-12  
-1.15796065e-12 -1.13319218e-12 -1.10920998e-12 -1.08598112e-12  
-1.06347437e-12 -1.04166011e-12 -1.02051022e-12 -9.99998000e-13]

vmax\_standard\_flux

2 -0.841680  
3 -0.004596  
4 -0.002537  
5 -0.001926  
6 -0.001663  
7 -0.001475

8	-0.001359
9	-0.001281
10	-0.001204
11	-0.001157
12	-0.001111
13	-0.001076
14	-0.001045
15	-0.001019
16	-0.000996

Name: load (L/m<sup>2</sup>), dtype: float64

cake\_filtration\_flux

2	0.054640
3	0.054559
4	0.054478
5	0.054397
6	0.054317
7	0.054237
8	0.054157
9	0.054078
10	0.053999
11	0.053920
12	0.053842
13	0.053764
14	0.053687
15	0.053610

16 0.053533

Name: time (min), dtype: float64

cake\_filtration\_flux

2 0.054640

3 0.054559

4 0.054478

5 0.054397

6 0.054317

7 0.054237

8 0.054157

9 0.054078

10 0.053999

11 0.053920

12 0.053842

13 0.053764

14 0.053687

15 0.053610

16 0.053533

Name: time (min), dtype: float64

cake\_filtration\_flux

2 0.054640

3 0.054559

4 0.054478

5 0.054397

6	0.054317
7	0.054237
8	0.054157
9	0.054078
10	0.053999
11	0.053920
12	0.053842
13	0.053764
14	0.053687
15	0.053610
16	0.053533

Name: time (min), dtype: float64

cake\_filtration\_flux

2	1.386241
3	0.025357
4	0.017932
5	0.014641
6	0.012680
7	0.011341
8	0.010353
9	0.009585
10	0.008966
11	0.008454
12	0.008020
13	0.007647

14 0.007321

15 0.007034

16 0.006778

Name: time (min), dtype: float64

cake\_filtration\_flux

2 1.386241

3 0.025357

4 0.017932

5 0.014641

6 0.012680

7 0.011341

8 0.010353

9 0.009585

10 0.008966

11 0.008454

12 0.008020

13 0.007647

14 0.007321

15 0.007034

16 0.006778

Name: time (min), dtype: float64

cake\_filtration\_flux

2 1.386241

3 0.025357



4	0.017932
5	0.014641
6	0.012680
7	0.011341
8	0.010353
9	0.009585
10	0.008966
11	0.008454
12	0.008020
13	0.007647
14	0.007321
15	0.007034
16	0.006778

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.258205
3	NaN
4	NaN
5	NaN
6	NaN
7	NaN
8	NaN
9	NaN
10	NaN
11	NaN

12	NaN
13	NaN
14	NaN
15	NaN
16	NaN

Name: time (min), dtype: float64

cake\_filtration\_flux

2	2.311859
3	0.025746
4	0.018205
5	0.014865
6	0.012873
7	0.011514
8	0.010511
9	0.009731
10	0.009103
11	0.008582
12	0.008142
13	0.007763
14	0.007433
15	0.007141
16	0.006881

Name: time (min), dtype: float64

cake\_filtration\_flux

2	2.311859
3	0.025746
4	0.018205
5	0.014865
6	0.012873
7	0.011514
8	0.010511
9	0.009731
10	0.009103
11	0.008582
12	0.008142
13	0.007763
14	0.007433
15	0.007141
16	0.006881

Name: time (min), dtype: float64

cake\_filtration\_flux

2	2.311859
3	0.025746
4	0.018205
5	0.014865
6	0.012873
7	0.011514
8	0.010511
9	0.009731

10	0.009103
11	0.008582
12	0.008142
13	0.007763
14	0.007433
15	0.007141
16	0.006881

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.259202
3	NaN
4	NaN
5	NaN
6	NaN
7	NaN
8	NaN
9	NaN
10	NaN
11	NaN
12	NaN
13	NaN
14	NaN
15	NaN
16	NaN

Name: time (min), dtype: float64

cake\_filtration\_flux

2	2.651524
3	0.025983
4	0.018373
5	0.015002
6	0.012992
7	0.011620
8	0.010608
9	0.009821
10	0.009187
11	0.008661
12	0.008217
13	0.007834
14	0.007501
15	0.007207
16	0.006945

Name: time (min), dtype: float64

cake\_filtration\_flux

2	2.651524
3	0.025983
4	0.018373
5	0.015002
6	0.012992
7	0.011620

8	0.010608
9	0.009821
10	0.009187
11	0.008661
12	0.008217
13	0.007834
14	0.007501
15	0.007207
16	0.006945

Name: time (min), dtype: float64

cake\_filtration\_flux

2	2.651524
3	0.025983
4	0.018373
5	0.015002
6	0.012992
7	0.011620
8	0.010608
9	0.009821
10	0.009187
11	0.008661
12	0.008217
13	0.007834
14	0.007501
15	0.007207

16 0.006945

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.232909

3 0.034881

4 0.024665

5 0.020139

6 0.017441

7 0.015600

8 0.014241

9 0.013184

10 0.012333

11 0.011627

12 0.011031

13 0.010517

14 0.010070

15 0.009675

16 0.009323

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.232909

3 0.034881

4 0.024665

5 0.020139

6	0.017441
7	0.015600
8	0.014241
9	0.013184
10	0.012333
11	0.011627
12	0.011031
13	0.010517
14	0.010070
15	0.009675
16	0.009323

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.232909
3	0.034881
4	0.024665
5	0.020139
6	0.017441
7	0.015600
8	0.014241
9	0.013184
10	0.012333
11	0.011627
12	0.011031
13	0.010517



14 0.010070

15 0.009675

16 0.009323

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.276108

3 NaN

4 NaN

5 NaN

6 NaN

7 NaN

8 NaN

9 NaN

10 NaN

11 NaN

12 NaN

13 NaN

14 NaN

15 NaN

16 NaN

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.262047

3 0.040765

4	0.028826
5	0.023537
6	0.020383
7	0.018232
8	0.016643
9	0.015409
10	0.014413
11	0.013589
12	0.012892
13	0.012292
14	0.011769
15	0.011307
16	0.010896

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.262047
3	0.040765
4	0.028826
5	0.023537
6	0.020383
7	0.018232
8	0.016643
9	0.015409
10	0.014413
11	0.013589

12 0.012892

13 0.012292

14 0.011769

15 0.011307

16 0.010896

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.262047

3 0.040765

4 0.028826

5 0.023537

6 0.020383

7 0.018232

8 0.016643

9 0.015409

10 0.014413

11 0.013589

12 0.012892

13 0.012292

14 0.011769

15 0.011307

16 0.010896

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273485
3	0.080923
4	0.057230
5	0.046731
6	0.040471
7	0.036199
8	0.033045
9	0.030594
10	0.028618
11	0.026982
12	0.025597
13	0.024406
14	0.023367
15	0.022450
16	0.021634

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273485
3	0.080923
4	0.057230
5	0.046731
6	0.040471
7	0.036199
8	0.033045
9	0.030594

10	0.028618
11	0.026982
12	0.025597
13	0.024406
14	0.023367
15	0.022450
16	0.021634

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273485
3	0.080923
4	0.057230
5	0.046731
6	0.040471
7	0.036199
8	0.033045
9	0.030594
10	0.028618
11	0.026982
12	0.025597
13	0.024406
14	0.023367
15	0.022450
16	0.021634

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.275833

3 NaN

4 NaN

5 NaN

6 NaN

7 NaN

8 NaN

9 NaN

10 NaN

11 NaN

12 NaN

13 NaN

14 NaN

15 NaN

16 NaN

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273989

3 NaN

4 NaN

5 NaN

6 NaN

7 NaN

8	NaN
9	NaN
10	NaN
11	NaN
12	NaN
13	NaN
14	NaN
15	NaN
16	NaN

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273538
3	0.085429
4	0.060418
5	0.049334
6	0.042726
7	0.038216
8	0.034886
9	0.032299
10	0.030213
11	0.028485
12	0.027023
13	0.025766
14	0.024669
15	0.023701

16 0.022839

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273538

3 0.085429

4 0.060418

5 0.049334

6 0.042726

7 0.038216

8 0.034886

9 0.032299

10 0.030213

11 0.028485

12 0.027023

13 0.025766

14 0.024669

15 0.023701

16 0.022839

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273538

3 0.085429

4 0.060418

5 0.049334



6	0.042726
7	0.038216
8	0.034886
9	0.032299
10	0.030213
11	0.028485
12	0.027023
13	0.025766
14	0.024669
15	0.023701
16	0.022839

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273627
3	0.097288
4	0.068808
5	0.056186
6	0.048660
7	0.043524
8	0.039732
9	0.036785
10	0.034410
11	0.032442
12	0.030777
13	0.029345

14 0.028096

15 0.026994

16 0.026012

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273627

3 0.097288

4 0.068808

5 0.056186

6 0.048660

7 0.043524

8 0.039732

9 0.036785

10 0.034410

11 0.032442

12 0.030777

13 0.029345

14 0.028096

15 0.026994

16 0.026012

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273627

3 0.097288

4	0.068808
5	0.056186
6	0.048660
7	0.043524
8	0.039732
9	0.036785
10	0.034410
11	0.032442
12	0.030777
13	0.029345
14	0.028096
15	0.026994
16	0.026012

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273751
3	0.152649
4	0.107998
5	0.088196
6	0.076387
7	0.068326
8	0.062375
9	0.057750
10	0.054021
11	0.050932

12 0.048319

13 0.046071

14 0.044110

15 0.042380

16 0.040838

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273751

3 0.152649

4 0.107998

5 0.088196

6 0.076387

7 0.068326

8 0.062375

9 0.057750

10 0.054021

11 0.050932

12 0.048319

13 0.046071

14 0.044110

15 0.042380

16 0.040838

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273751
3	0.152649
4	0.107998
5	0.088196
6	0.076387
7	0.068326
8	0.062375
9	0.057750
10	0.054021
11	0.050932
12	0.048319
13	0.046071
14	0.044110
15	0.042380
16	0.040838

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273866
3	NaN
4	NaN
5	NaN
6	NaN
7	NaN
8	NaN
9	NaN

10	NaN
11	NaN
12	NaN
13	NaN
14	NaN
15	NaN
16	NaN

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273764
3	0.186654
4	0.132092
5	0.107882
6	0.093441
7	0.083583
8	0.076305
9	0.070647
10	0.066086
11	0.062308
12	0.059112
13	0.056362
14	0.053963
15	0.051846
16	0.049961

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273764
3	0.186654
4	0.132092
5	0.107882
6	0.093441
7	0.083583
8	0.076305
9	0.070647
10	0.066086
11	0.062308
12	0.059112
13	0.056362
14	0.053963
15	0.051846
16	0.049961

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273764
3	0.186654
4	0.132092
5	0.107882
6	0.093441
7	0.083583

8	0.076305
9	0.070647
10	0.066086
11	0.062308
12	0.059112
13	0.056362
14	0.053963
15	0.051846
16	0.049961

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273791
3	0.264241
4	0.187152
5	0.152892
6	0.132445
7	0.118482
8	0.108170
9	0.100154
10	0.093691
11	0.088337
12	0.083807
13	0.079909
14	0.076509
15	0.073509



16 0.070836

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273792

3 0.264241

4 0.187152

5 0.152892

6 0.132445

7 0.118482

8 0.108170

9 0.100154

10 0.093691

11 0.088337

12 0.083807

13 0.079909

14 0.076509

15 0.073509

16 0.070836

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273791

3 0.264241

4 0.187152

5 0.152892

6	0.132445
7	0.118482
8	0.108170
9	0.100154
10	0.093691
11	0.088337
12	0.083807
13	0.079909
14	0.076509
15	0.073509
16	0.070836

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.273866
3	0.487365
4	0.346544
5	0.283482
6	0.245733
7	0.219914
8	0.200829
9	0.185982
10	0.174005
11	0.164079
12	0.155679
13	0.148449

14 0.142141

15 0.136575

16 0.131615

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273866

3 0.487365

4 0.346544

5 0.283482

6 0.245733

7 0.219914

8 0.200829

9 0.185982

10 0.174005

11 0.164079

12 0.155679

13 0.148449

14 0.142141

15 0.136575

16 0.131615

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.273866

3 0.487365

4	0.346544
5	0.283482
6	0.245733
7	0.219914
8	0.200829
9	0.185982
10	0.174005
11	0.164079
12	0.155679
13	0.148449
14	0.142141
15	0.136575
16	0.131615

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.274444
3	0.987023
4	0.714346
5	0.587943
6	0.511238
7	0.458384
8	0.419131
9	0.388494
10	0.363723
11	0.343157

12 0.325726

13 0.310708

14 0.297592

15 0.286008

16 0.275679

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.274444

3 0.987023

4 0.714346

5 0.587943

6 0.511238

7 0.458384

8 0.419131

9 0.388494

10 0.363723

11 0.343157

12 0.325726

13 0.310708

14 0.297592

15 0.286008

16 0.275679

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.274444
3	0.987023
4	0.714346
5	0.587943
6	0.511238
7	0.458384
8	0.419131
9	0.388494
10	0.363723
11	0.343157
12	0.325726
13	0.310708
14	0.297592
15	0.286008
16	0.275679

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.279720
3	0.848880
4	0.610562
5	0.501426
6	0.435522
7	0.390232
8	0.356652
9	0.330475

10	0.309327
11	0.291781
12	0.276917
13	0.264116
14	0.252940
15	0.243073
16	0.234277

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.279721
3	0.848880
4	0.610562
5	0.501426
6	0.435522
7	0.390232
8	0.356652
9	0.330475
10	0.309327
11	0.291781
12	0.276917
13	0.264116
14	0.252940
15	0.243073
16	0.234277

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.279720
3	0.848880
4	0.610562
5	0.501426
6	0.435522
7	0.390232
8	0.356652
9	0.330475
10	0.309327
11	0.291781
12	0.276917
13	0.264116
14	0.252940
15	0.243073
16	0.234277

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.285468
3	0.798839
4	0.573403
5	0.470576
6	0.408580
7	0.366012



8	0.334467
9	0.309886
10	0.290033
11	0.273564
12	0.259616
13	0.247604
14	0.237119
15	0.227863
16	0.219612

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.285468
3	0.798839
4	0.573403
5	0.470576
6	0.408580
7	0.366012
8	0.334467
9	0.309886
10	0.290033
11	0.273564
12	0.259616
13	0.247604
14	0.237119
15	0.227863

16 0.219612

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.285468

3 0.798839

4 0.573402

5 0.470576

6 0.408580

7 0.366012

8 0.334467

9 0.309886

10 0.290033

11 0.273564

12 0.259616

13 0.247604

14 0.237119

15 0.227863

16 0.219612

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.284235

3 0.795264

4 0.570766

5 0.468392

6	0.406675
7	0.364300
8	0.332900
9	0.308432
10	0.288671
11	0.272279
12	0.258395
13	0.246439
14	0.236003
15	0.226789
16	0.218577

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.284235
3	0.795264
4	0.570766
5	0.468392
6	0.406675
7	0.364300
8	0.332900
9	0.308432
10	0.288671
11	0.272279
12	0.258395
13	0.246439

14 0.236003

15 0.226789

16 0.218577

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.284235

3 0.795264

4 0.570766

5 0.468392

6 0.406675

7 0.364300

8 0.332900

9 0.308432

10 0.288671

11 0.272279

12 0.258395

13 0.246439

14 0.236003

15 0.226789

16 0.218577

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.284161

3 0.795326

4	0.570812
5	0.468430
6	0.406708
7	0.364330
8	0.332928
9	0.308458
10	0.288695
11	0.272301
12	0.258416
13	0.246460
14	0.236023
15	0.226808
16	0.218595

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.284162
3	0.795326
4	0.570812
5	0.468430
6	0.406708
7	0.364330
8	0.332928
9	0.308458
10	0.288695
11	0.272301

12 0.258416

13 0.246460

14 0.236023

15 0.226808

16 0.218595

Name: time (min), dtype: float64

cake\_filtration\_flux

2 3.284161

3 0.795326

4 0.570812

5 0.468430

6 0.406708

7 0.364330

8 0.332928

9 0.308458

10 0.288695

11 0.272301

12 0.258416

13 0.246460

14 0.236023

15 0.226808

16 0.218595

Name: time (min), dtype: float64

cake\_filtration\_flux

2	3.284163
3	0.795324
4	0.570810
5	0.468429
6	0.406707
7	0.364329
8	0.332927
9	0.308457
10	0.288694
11	0.272300
12	0.258416
13	0.246459
14	0.236022
15	0.226808
16	0.218595

Name: time (min), dtype: float64

cake\_filtration\_flux

[3.28416326 0.18209647 0.12886073 0.10524135 0.09115338 0.08153635  
0.07443598 0.06891686 0.06446759 0.06078193 0.05766379 0.05498104  
0.05264095 0.05057629 0.04873694 0.04708471 0.04558986 0.04422892  
0.042983 0.04183677 0.0407776 0.03979501 0.03888019 0.03802569  
0.03722516 0.03647316 0.03576496 0.03509647 0.03446412 0.03386476  
0.03329563 0.03275425 0.03223846 0.03174628 0.03127598 0.03082599  
0.03039487 0.02998135 0.02958426 0.02920254 0.02883523 0.02848144  
0.02814035 0.02781124 0.02749341 0.02718623 0.02688912 0.02660155

0.02632301 0.02605304 0.02579121 0.02553712 0.02529039 0.02505068  
0.02481766 0.02459102 0.02437048 0.02415577 0.02394664 0.02374285  
0.02354417 0.0233504 0.02316133 0.02297678 0.02279658 0.02262055  
0.02244854 0.02228039 0.02211596 0.02195512 0.02179774 0.0216437  
0.02149288 0.02134517 0.02120046 0.02105865 0.02091966 0.02078338  
0.02064972 0.02051862 0.02038998 0.02026373 0.0201398 0.02001811  
0.0198986 0.01978121 0.01966587 0.01955252 0.01944112 0.01933159  
0.0192239 0.01911798 0.0190138 0.0189113 0.01881045 0.01871118  
0.01861348 0.01851729 0.01842257 0.0183293 ]

cake\_filtration\_flux

2 3.284163  
3 0.795324  
4 0.570810  
5 0.468429  
6 0.406707  
7 0.364329  
8 0.332927  
9 0.308457  
10 0.288694  
11 0.272300  
12 0.258416  
13 0.246459  
14 0.236022  
15 0.226808  
16 0.218595



Name: time (min), dtype: float64

intermediate\_filtration\_flux

2	2.738350e+00
3	3.737349e-12
4	1.375362e-16
5	3.921492e-19
6	1.220252e-20
7	5.895725e-22
8	6.664618e-23
9	1.292803e-23
10	2.246555e-24
11	6.972563e-25
12	2.121202e-25
13	7.961106e-26
14	3.236744e-26
15	1.513717e-26
16	7.368049e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

2	2.738350e+00
3	3.737349e-12
4	1.375362e-16
5	3.921492e-19
6	1.220252e-20

7	5.895725e-22
8	6.664618e-23
9	1.292803e-23
10	2.246555e-24
11	6.972563e-25
12	2.121202e-25
13	7.961106e-26
14	3.236744e-26
15	1.513717e-26
16	7.368050e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

2	2.738350e+00
3	3.737348e-12
4	1.375361e-16
5	3.921490e-19
6	1.220251e-20
7	5.895721e-22
8	6.664613e-23
9	1.292802e-23
10	2.246553e-24
11	6.972557e-25
12	2.121200e-25
13	7.961099e-26
14	3.236741e-26

15 1.513715e-26

16 7.368043e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

2 3.278400e+00

3 4.474419e-12

4 1.646607e-16

5 4.694879e-19

6 1.460907e-20

7 7.058465e-22

8 7.978996e-23

9 1.547766e-23

10 2.689614e-24

11 8.347673e-25

12 2.539540e-25

13 9.531174e-26

14 3.875086e-26

15 1.812248e-26

16 8.821157e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

2 3.278400e+00

3 4.474420e-12

4 1.646607e-16

5	4.694879e-19
6	1.460907e-20
7	7.058465e-22
8	7.978997e-23
9	1.547766e-23
10	2.689614e-24
11	8.347673e-25
12	2.539540e-25
13	9.531174e-26
14	3.875086e-26
15	1.812248e-26
16	8.821157e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

2	3.278400e+00
3	4.474418e-12
4	1.646606e-16
5	4.694876e-19
6	1.460906e-20
7	7.058459e-22
8	7.978990e-23
9	1.547765e-23
10	2.689612e-24
11	8.347666e-25
12	2.539537e-25

13 9.531166e-26

14 3.875083e-26

15 1.812246e-26

16 8.821149e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

2 3.278400e+00

3 4.474419e-12

4 1.646607e-16

5 4.694879e-19

6 1.460907e-20

7 7.058465e-22

8 7.978996e-23

9 1.547766e-23

10 2.689614e-24

11 8.347673e-25

12 2.539540e-25

13 9.531174e-26

14 3.875086e-26

15 1.812248e-26

16 8.821157e-27

Name: vol (mL), dtype: float64

intermediate\_filtration\_flux

[3.92495740e+000 6.61011554e-009 1.11322552e-017 1.87480998e-026

3.15741276e-035 5.31747507e-044 8.95528818e-053 1.50818171e-061  
2.53996523e-070 4.27761678e-079 7.20403771e-088 1.21324939e-096  
2.04326259e-105 3.44110787e-114 5.79525285e-123 9.75992527e-132  
1.64369258e-140 2.76818237e-149 4.66196277e-158 7.85132408e-167  
1.32226045e-175 2.22685075e-184 3.75029312e-193 6.31595920e-202  
1.06368594e-210 1.79137918e-219 3.01690493e-228 5.08084245e-237  
8.55676946e-246 1.44106621e-254 2.42693440e-263 4.08725882e-272  
6.88345128e-281 1.15925865e-289 1.95233549e-298 3.28797534e-307  
5.53735861e-316 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000]

intermediate\_filtration\_flux

2	3.278400e+00
3	4.474419e-12
4	1.646607e-16
5	4.694879e-19
6	1.460907e-20
7	7.058465e-22
8	7.978996e-23
9	1.547766e-23
10	2.689614e-24
11	8.347673e-25
12	2.539540e-25
13	9.531174e-26
14	3.875086e-26
15	1.812248e-26
16	8.821157e-27

Name: vol (mL), dtype: float64

complete\_clogging\_flux

2	0.054640
3	0.033141
4	0.020101
5	0.012192
6	0.007395
7	0.004485
8	0.002720
9	0.001650

10	0.001001
11	0.000607
12	0.000368
13	0.000223
14	0.000135
15	0.000082
16	0.000050

Name: time (min), dtype: float64

complete\_clogging\_flux

2	0.054640
3	0.033141
4	0.020101
5	0.012192
6	0.007395
7	0.004485
8	0.002720
9	0.001650
10	0.001001
11	0.000607
12	0.000368
13	0.000223
14	0.000135
15	0.000082
16	0.000050

Name: time (min), dtype: float64



complete\_clogging\_flux

2	0.054640
3	0.033141
4	0.020101
5	0.012192
6	0.007395
7	0.004485
8	0.002720
9	0.001650
10	0.001001
11	0.000607
12	0.000368
13	0.000223
14	0.000135
15	0.000082
16	0.000050

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.062352e+00
3	9.970179e-04
4	3.246018e-07
5	1.056815e-10
6	3.440700e-14
7	1.120198e-17

8	3.647058e-21
9	1.187382e-24
10	3.865792e-28
11	1.258596e-31
12	4.097645e-35
13	1.334081e-38
14	4.343404e-42
15	1.414094e-45
16	4.603902e-49

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.062352e+00
3	9.970180e-04
4	3.246018e-07
5	1.056815e-10
6	3.440700e-14
7	1.120198e-17
8	3.647058e-21
9	1.187382e-24
10	3.865792e-28
11	1.258596e-31
12	4.097645e-35
13	1.334081e-38
14	4.343404e-42
15	1.414094e-45

16 4.603902e-49

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.062352e+00

3 9.970178e-04

4 3.246017e-07

5 1.056814e-10

6 3.440698e-14

7 1.120197e-17

8 3.647055e-21

9 1.187381e-24

10 3.865788e-28

11 1.258595e-31

12 4.097640e-35

13 1.334079e-38

14 4.343398e-42

15 1.414091e-45

16 4.603894e-49

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.278117e+00

3 1.359415e+40

4 5.637412e+79

5 2.337800e+119

6	9.694716e+158
7	4.020340e+198
8	1.667210e+238
9	6.913819e+277
10	inf
11	inf
12	inf
13	inf
14	inf
15	inf
16	inf

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.271992e+00
3	2.177572e+01
4	1.449215e+02
5	9.644801e+02
6	6.418797e+03
7	4.271830e+04
8	2.842984e+05
9	1.892059e+06
10	1.259201e+07
11	8.380221e+07
12	5.577195e+08
13	3.711729e+09

14 2.470225e+10

15 1.643982e+11

16 1.094101e+12

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.122726e+00

3 1.152755e-03

4 4.255394e-07

5 1.570879e-10

6 5.798901e-14

7 2.140665e-17

8 7.902265e-21

9 2.917122e-24

10 1.076856e-27

11 3.975213e-31

12 1.467450e-34

13 5.417093e-38

14 1.999720e-41

15 7.381968e-45

16 2.725054e-48

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.122727e+00

3 1.152755e-03

4	4.255395e-07
5	1.570879e-10
6	5.798901e-14
7	2.140665e-17
8	7.902265e-21
9	2.917122e-24
10	1.076856e-27
11	3.975213e-31
12	1.467450e-34
13	5.417093e-38
14	1.999720e-41
15	7.381968e-45
16	2.725054e-48

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.122726e+00
3	1.152755e-03
4	4.255393e-07
5	1.570879e-10
6	5.798898e-14
7	2.140663e-17
8	7.902259e-21
9	2.917119e-24
10	1.076855e-27
11	3.975209e-31

12 1.467448e-34

13 5.417086e-38

14 1.999717e-41

15 7.381957e-45

16 2.725049e-48

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.236581e+00

3 3.281441e-03

4 3.326923e-06

5 3.373035e-09

6 3.419786e-12

7 3.467185e-15

8 3.515241e-18

9 3.563963e-21

10 3.613361e-24

11 3.663443e-27

12 3.714219e-30

13 3.765699e-33

14 3.817893e-36

15 3.870810e-39

16 3.924460e-42

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.236581e+00
3	3.281441e-03
4	3.326923e-06
5	3.373035e-09
6	3.419786e-12
7	3.467185e-15
8	3.515241e-18
9	3.563963e-21
10	3.613361e-24
11	3.663443e-27
12	3.714219e-30
13	3.765699e-33
14	3.817893e-36
15	3.870810e-39
16	3.924461e-42

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.236581e+00
3	3.281441e-03
4	3.326922e-06
5	3.373034e-09
6	3.419785e-12
7	3.467183e-15
8	3.515239e-18
9	3.563961e-21



10	3.613358e-24
11	3.663440e-27
12	3.714216e-30
13	3.765695e-33
14	3.817888e-36
15	3.870805e-39
16	3.924455e-42

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.271025e+00
3	2.273980e-01
4	1.580845e-02
5	1.098986e-03
6	7.640023e-05
7	5.311257e-06
8	3.692326e-07
9	2.566863e-08
10	1.784454e-09
11	1.240532e-10
12	8.624039e-12
13	5.995334e-13
14	4.167888e-14
15	2.897469e-15
16	2.014287e-16

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.271026e+00

3 2.273980e-01

4 1.580845e-02

5 1.098986e-03

6 7.640023e-05

7 5.311257e-06

8 3.692326e-07

9 2.566863e-08

10 1.784454e-09

11 1.240532e-10

12 8.624039e-12

13 5.995334e-13

14 4.167889e-14

15 2.897469e-15

16 2.014287e-16

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.271025e+00

3 2.273980e-01

4 1.580845e-02

5 1.098985e-03

6 7.640021e-05

7 5.311256e-06

8	3.692325e-07
9	2.566862e-08
10	1.784453e-09
11	1.240532e-10
12	8.624036e-12
13	5.995332e-13
14	4.167886e-14
15	2.897467e-15
16	2.014286e-16

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.287929
3	4.020093
4	4.915296
5	6.009846
6	7.348133
7	8.984433
8	10.985108
9	13.431298
10	16.422211
11	20.079148
12	24.550421
13	30.017367
14	36.701706
15	44.874529

16 54.867295

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.273989e+00

3 3.034443e-01

4 2.812424e-02

5 2.606649e-03

6 2.415930e-04

7 2.239166e-05

8 2.075334e-06

9 1.923489e-07

10 1.782755e-08

11 1.652317e-09

12 1.531423e-10

13 1.419374e-11

14 1.315524e-12

15 1.219272e-13

16 1.130062e-14

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.273989e+00

3 3.034443e-01

4 2.812424e-02

5 2.606649e-03

6	2.415930e-04
7	2.239166e-05
8	2.075334e-06
9	1.923489e-07
10	1.782755e-08
11	1.652317e-09
12	1.531423e-10
13	1.419374e-11
14	1.315524e-12
15	1.219272e-13
16	1.130062e-14

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.273989e+00
3	3.034443e-01
4	2.812424e-02
5	2.606649e-03
6	2.415930e-04
7	2.239165e-05
8	2.075333e-06
9	1.923489e-07
10	1.782754e-08
11	1.652316e-09
12	1.531422e-10
13	1.419374e-11

14 1.315523e-12

15 1.219271e-13

16 1.130062e-14

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.280396e+00

3 4.469116e-01

4 6.088593e-02

5 8.294921e-03

6 1.130076e-03

7 1.539582e-04

8 2.097482e-05

9 2.857548e-06

10 3.893041e-07

11 5.303765e-08

12 7.225695e-09

13 9.844075e-10

14 1.341128e-10

15 1.827114e-11

16 2.489207e-12

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.280396e+00

3 4.469116e-01

4	6.088593e-02
5	8.294921e-03
6	1.130076e-03
7	1.539582e-04
8	2.097482e-05
9	2.857548e-06
10	3.893041e-07
11	5.303765e-08
12	7.225695e-09
13	9.844075e-10
14	1.341128e-10
15	1.827114e-11
16	2.489207e-12

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.280396e+00
3	4.469116e-01
4	6.088592e-02
5	8.294920e-03
6	1.130076e-03
7	1.539582e-04
8	2.097482e-05
9	2.857548e-06
10	3.893040e-07
11	5.303763e-08

12 7.225692e-09

13 9.844072e-10

14 1.341128e-10

15 1.827113e-11

16 2.489205e-12

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.295239e+00

3 7.493328e-01

4 1.703972e-01

5 3.874809e-02

6 8.811263e-03

7 2.003669e-03

8 4.556315e-04

9 1.036100e-04

10 2.356076e-05

11 5.357685e-06

12 1.218330e-06

13 2.770466e-07

14 6.300001e-08

15 1.432611e-08

16 3.257739e-09

Name: time (min), dtype: float64

complete\_clogging\_flux



2	3.295239e+00
3	7.493328e-01
4	1.703972e-01
5	3.874809e-02
6	8.811263e-03
7	2.003669e-03
8	4.556315e-04
9	1.036100e-04
10	2.356076e-05
11	5.357685e-06
12	1.218330e-06
13	2.770466e-07
14	6.300001e-08
15	1.432611e-08
16	3.257739e-09

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.295239e+00
3	7.493327e-01
4	1.703972e-01
5	3.874809e-02
6	8.811262e-03
7	2.003669e-03
8	4.556315e-04
9	1.036100e-04

10	2.356076e-05
11	5.357684e-06
12	1.218330e-06
13	2.770465e-07
14	6.299999e-08
15	1.432611e-08
16	3.257737e-09

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.303678
3	1.335162
4	0.539598
5	0.218076
6	0.088134
7	0.035619
8	0.014395
9	0.005818
10	0.002351
11	0.000950
12	0.000384
13	0.000155
14	0.000063
15	0.000025
16	0.000010

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.303678
3	1.335163
4	0.539598
5	0.218076
6	0.088134
7	0.035619
8	0.014395
9	0.005818
10	0.002351
11	0.000950
12	0.000384
13	0.000155
14	0.000063
15	0.000025
16	0.000010

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.303678
3	1.335162
4	0.539598
5	0.218076
6	0.088134
7	0.035619

8	0.014395
9	0.005818
10	0.002351
11	0.000950
12	0.000384
13	0.000155
14	0.000063
15	0.000025
16	0.000010

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.216410
3	1.452372
4	0.655819
5	0.296135
6	0.133720
7	0.060381
8	0.027265
9	0.012312
10	0.005559
11	0.002510
12	0.001134
13	0.000512
14	0.000231
15	0.000104

16 0.000047

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.216410

3 1.452372

4 0.655819

5 0.296135

6 0.133720

7 0.060381

8 0.027265

9 0.012312

10 0.005559

11 0.002510

12 0.001134

13 0.000512

14 0.000231

15 0.000104

16 0.000047

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.216410

3 1.452372

4 0.655819

5 0.296135

6	0.133720
7	0.060381
8	0.027265
9	0.012312
10	0.005559
11	0.002510
12	0.001134
13	0.000512
14	0.000231
15	0.000104
16	0.000047

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.197080
3	1.472336
4	0.678047
5	0.312258
6	0.143803
7	0.066225
8	0.030498
9	0.014045
10	0.006468
11	0.002979
12	0.001372
13	0.000632

14 0.000291

15 0.000134

16 0.000062

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.197080

3 1.472336

4 0.678047

5 0.312258

6 0.143803

7 0.066225

8 0.030498

9 0.014045

10 0.006468

11 0.002979

12 0.001372

13 0.000632

14 0.000291

15 0.000134

16 0.000062

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.197080

3 1.472335

4	0.678047
5	0.312258
6	0.143803
7	0.066225
8	0.030498
9	0.014045
10	0.006468
11	0.002979
12	0.001372
13	0.000632
14	0.000291
15	0.000134
16	0.000062

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.192658
3	1.477711
4	0.683954
5	0.316566
6	0.146521
7	0.067817
8	0.031389
9	0.014528
10	0.006724
11	0.003112



12 0.001441

13 0.000667

14 0.000309

15 0.000143

16 0.000066

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.192659

3 1.477711

4 0.683954

5 0.316566

6 0.146521

7 0.067817

8 0.031389

9 0.014528

10 0.006724

11 0.003112

12 0.001441

13 0.000667

14 0.000309

15 0.000143

16 0.000066

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.192658
3	1.477711
4	0.683954
5	0.316566
6	0.146521
7	0.067817
8	0.031389
9	0.014528
10	0.006724
11	0.003112
12	0.001441
13	0.000667
14	0.000309
15	0.000143
16	0.000066

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.191469
3	1.479169
4	0.685560
5	0.317740
6	0.147265
7	0.068254
8	0.031634
9	0.014662

10	0.006795
11	0.003149
12	0.001460
13	0.000677
14	0.000314
15	0.000145
16	0.000067

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.191469
3	1.479169
4	0.685560
5	0.317740
6	0.147265
7	0.068254
8	0.031634
9	0.014662
10	0.006795
11	0.003149
12	0.001460
13	0.000677
14	0.000314
15	0.000145
16	0.000067

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.191469
3	1.479169
4	0.685560
5	0.317740
6	0.147265
7	0.068254
8	0.031634
9	0.014662
10	0.006795
11	0.003149
12	0.001460
13	0.000677
14	0.000314
15	0.000145
16	0.000067

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.191143
3	1.479570
4	0.686001
5	0.318063
6	0.147470
7	0.068374

8	0.031702
9	0.014698
10	0.006815
11	0.003160
12	0.001465
13	0.000679
14	0.000315
15	0.000146
16	0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.191143
3	1.479570
4	0.686001
5	0.318063
6	0.147470
7	0.068374
8	0.031702
9	0.014698
10	0.006815
11	0.003160
12	0.001465
13	0.000679
14	0.000315
15	0.000146

16 0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.191143

3 1.479570

4 0.686001

5 0.318063

6 0.147470

7 0.068374

8 0.031702

9 0.014698

10 0.006815

11 0.003160

12 0.001465

13 0.000679

14 0.000315

15 0.000146

16 0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.191053

3 1.479680

4 0.686122

5 0.318153

6	0.147526
7	0.068407
8	0.031720
9	0.014709
10	0.006820
11	0.003163
12	0.001466
13	0.000680
14	0.000315
15	0.000146
16	0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

2	3.191053
3	1.479680
4	0.686122
5	0.318153
6	0.147526
7	0.068407
8	0.031720
9	0.014709
10	0.006820
11	0.003163
12	0.001466
13	0.000680

14 0.000315

15 0.000146

16 0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.191053

3 1.479680

4 0.686122

5 0.318152

6 0.147526

7 0.068407

8 0.031720

9 0.014709

10 0.006820

11 0.003163

12 0.001466

13 0.000680

14 0.000315

15 0.000146

16 0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

2 3.191028

3 1.479710



4 0.686156  
5 0.318177  
6 0.147542  
7 0.068417  
8 0.031725  
9 0.014711  
10 0.006822  
11 0.003163  
12 0.001467  
13 0.000680  
14 0.000315  
15 0.000146  
16 0.000068

Name: time (min), dtype: float64

complete\_clogging\_flux

[3.19102807e+000 5.77334007e-007 1.04453658e-013 1.88981882e-020  
3.41913844e-027 6.18604680e-034 1.11920519e-040 2.02491236e-047  
3.66355527e-054 6.62825584e-061 1.19921148e-067 2.16966305e-074  
3.92544421e-081 7.10207615e-088 1.28493702e-094 2.32476124e-101  
4.20605426e-108 7.60976747e-115 1.37679063e-121 2.49094660e-128  
4.50672370e-135 8.15375106e-142 1.47521039e-148 2.66901171e-155  
4.82888646e-162 8.73662128e-169 1.58066569e-175 2.85980579e-182  
5.17407901e-189 9.36115792e-196 1.69365944e-202 3.06423877e-209  
5.54394762e-216 1.00303395e-222 1.81473054e-229 3.28328562e-236  
5.94025625e-243 1.07473575e-249 1.94445640e-256 3.51799102e-263

6.36489497e-270 1.15156314e-276 2.08345571e-283 3.76947431e-290  
6.81988895e-297 1.23388254e-303 2.23239137e-310 4.03893428e-317  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000  
0.00000000e+000 0.00000000e+000 0.00000000e+000 0.00000000e+000]

complete\_clogging\_flux

2 3.191028  
3 1.479710  
4 0.686156  
5 0.318177  
6 0.147542  
7 0.068417  
8 0.031725  
9 0.014711  
10 0.006822

11 0.003163

12 0.001467

13 0.000680

14 0.000315

15 0.000146

16 0.000068

Name: time (min), dtype: float64

combined\_intermediate\_flux

[3.27780994 3.18883451 3.15581088 3.13674442 3.12525356 3.11517513  
3.10776966 3.10205642 3.09601307 3.09177418 3.0874793 3.0838379  
3.08044719 3.077491 3.07466059]

combined\_intermediate\_flux

[3.27780999 3.18883456 3.15581093 3.13674447 3.1252536 3.11517518  
3.10776971 3.10205647 3.09601312 3.09177422 3.08747935 3.08383795  
3.08044724 3.07749104 3.07466064]

combined\_intermediate\_flux

[3.27780993 3.18883321 3.15580911 3.13674238 3.12525137 3.11517281  
3.10776724 3.10205393 3.09601051 3.09177156 3.08747663 3.08383519  
3.08044444 3.07748821 3.07465778]

combined\_intermediate\_flux

[3.27780994 3.18883442 3.1558107 3.13674414 3.12525319 3.11517467  
3.10776911 3.10205577 3.09601234 3.09177335 3.08747838 3.08383689

3.08044609 3.0774898 3.07465931]

combined\_intermediate\_flux

[2.86057249 1.96680821 1.70943605 1.57695906 1.50316028 1.44147649  
1.39851198 1.36690108 1.33399318 1.31226137 1.29052996 1.27281428  
1.25671809 1.24320712 1.23051537]

combined\_intermediate\_flux

[2.86057253 1.96680824 1.70943608 1.57695909 1.50316031 1.44147651  
1.398512 1.3669011 1.3339932 1.31226139 1.29052998 1.2728143  
1.25671811 1.24320714 1.23051538]

combined\_intermediate\_flux

[2.86057248 1.96680741 1.70943509 1.57695804 1.50315923 1.44147542  
1.39851089 1.36689998 1.33399207 1.31226026 1.29052884 1.27281316  
1.25671697 1.243206 1.23051424]

combined\_intermediate\_flux

[2.86057249 1.96680816 1.70943595 1.57695892 1.5031601 1.44147628  
1.39851173 1.36690079 1.33399286 1.31226102 1.29052957 1.27281386  
1.25671764 1.24320664 1.23051485]

combined\_intermediate\_flux

[2.67739627 1.31651059 1.00934578 0.86636105 0.79123136 0.73091813  
0.69026702 0.66107938 0.63132048 0.61204763 0.59305508 0.57779318  
0.56409428 0.5527253 0.54214808]

combined\_intermediate\_flux

[2.67739631 1.31651061 1.00934579 0.86636106 0.79123138 0.73091814  
0.69026703 0.66107939 0.63132049 0.61204764 0.59305509 0.57779319  
0.56409429 0.55272531 0.54214809]

combined\_intermediate\_flux

[2.67739626 1.31651006 1.00934521 0.86636049 0.79123081 0.73091759  
0.69026648 0.66107885 0.63131996 0.61204711 0.59305457 0.57779267  
0.56409378 0.5527248 0.54214758]

combined\_intermediate\_flux

[2.67739627 1.31651056 1.00934572 0.86636097 0.79123127 0.73091802  
0.6902669 0.66107924 0.63132033 0.61204747 0.59305491 0.57779299  
0.56409408 0.55272508 0.54214785]

combined\_intermediate\_flux

[2.98412239 1.04661283 0.70709998 0.56436922 0.49364805 0.43913032  
0.40356554 0.37863496 0.35375025 0.33792818 0.32256642 0.31039049  
0.29959104 0.29072265 0.28254944]

combined\_intermediate\_flux

[2.98412243 1.04661285 0.70709999 0.56436923 0.49364806 0.43913033  
0.40356555 0.37863496 0.35375025 0.33792819 0.32256643 0.31039049  
0.29959104 0.29072265 0.28254945]

combined\_intermediate\_flux

[2.98412238 1.04661241 0.70709958 0.56436886 0.4936477 0.43912999  
0.40356523 0.37863465 0.35374995 0.3379279 0.32256615 0.31039021  
0.29959077 0.29072238 0.28254918]

combined\_intermediate\_flux

[2.98412239 1.0466128 0.70709994 0.56436917 0.49364799 0.43913025  
0.40356547 0.37863488 0.35375016 0.33792809 0.32256633 0.31039038  
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combined\_intermediate\_flux

[3.30986489 0.93785916 0.5849368 0.44585434 0.37943633 0.32953084  
0.2976289 0.27559286 0.25389713 0.2402495 0.22712581 0.21680823  
0.20772411 0.20030949 0.19351605]

combined\_intermediate\_flux

[3.30986494 0.93785917 0.58493681 0.44585435 0.37943634 0.32953085  
0.2976289 0.27559287 0.25389714 0.24024951 0.22712582 0.21680823  
0.20772412 0.20030949 0.19351605]

combined\_intermediate\_flux

[3.30986488 0.93785877 0.58493647 0.44585405 0.37943607 0.32953059  
0.29762867 0.27559264 0.25389692 0.2402493 0.22712562 0.21680804  
0.20772393 0.20030931 0.19351587]

combined\_intermediate\_flux

[3.30986489 0.93785913 0.58493676 0.4458543 0.37943629 0.32953079  
0.29762885 0.27559281 0.25389707 0.24024944 0.22712574 0.21680816  
0.20772404 0.20030941 0.19351597]

combined\_intermediate\_flux

[3.33215146 0.91194899 0.5612572 0.42445408 0.35946821 0.3108426  
0.27983651 0.25844935 0.23745619 0.22424437 0.21156696 0.20160133  
0.19283423 0.18567536 0.17912113]

combined\_intermediate\_flux

[3.33215151 0.911949 0.5612572 0.42445409 0.35946822 0.31084261  
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0.19283424 0.18567536 0.17912113]

combined\_intermediate\_flux

[3.33215145 0.91194862 0.56125688 0.4244538 0.35946796 0.31084237  
0.27983629 0.25844914 0.23745599 0.22424418 0.21156677 0.20160115  
0.19283406 0.18567519 0.17912096]

combined\_intermediate\_flux

[3.33215146 0.91194896 0.56125716 0.42445404 0.35946817 0.31084256  
0.27983646 0.2584493 0.23745613 0.22424431 0.21156689 0.20160126  
0.19283416 0.18567528 0.17912105]

combined\_intermediate\_flux

[3.33031669 0.913523 0.56264229 0.42565049 0.36053025 0.31179083

0.28069558 0.25923518 0.23817352 0.22490564 0.21217596 0.20216362  
0.19335342 0.18615493 0.17956348]

combined\_intermediate\_flux

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0.19335342 0.18615493 0.17956349]

combined\_intermediate\_flux

[3.33031668 0.91352262 0.56264197 0.42565021 0.36053 0.3117906  
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combined\_intermediate\_flux

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0.19335335 0.18615486 0.17956341]

combined\_intermediate\_flux

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0.19332676 0.18612885 0.17953794]

combined\_intermediate\_flux

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0.28066312 0.25920396 0.23814364 0.22487666 0.21214788 0.20213629



0.19332676 0.18612885 0.17953794]

combined\_intermediate\_flux

[3.33042707 0.91348173 0.56260038 0.42561161 0.36049371 0.3117565

0.2806629 0.25920375 0.23814344 0.22487647 0.2121477 0.20213611

0.19332659 0.18612868 0.17953778]

combined\_intermediate\_flux

[3.33042708 0.91348213 0.56260073 0.42561192 0.360494 0.31175678

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0.19332683 0.18612892 0.17953802]

combined\_intermediate\_flux

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0.19332971 0.18613173 0.17954075]

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combined\_intermediate\_flux

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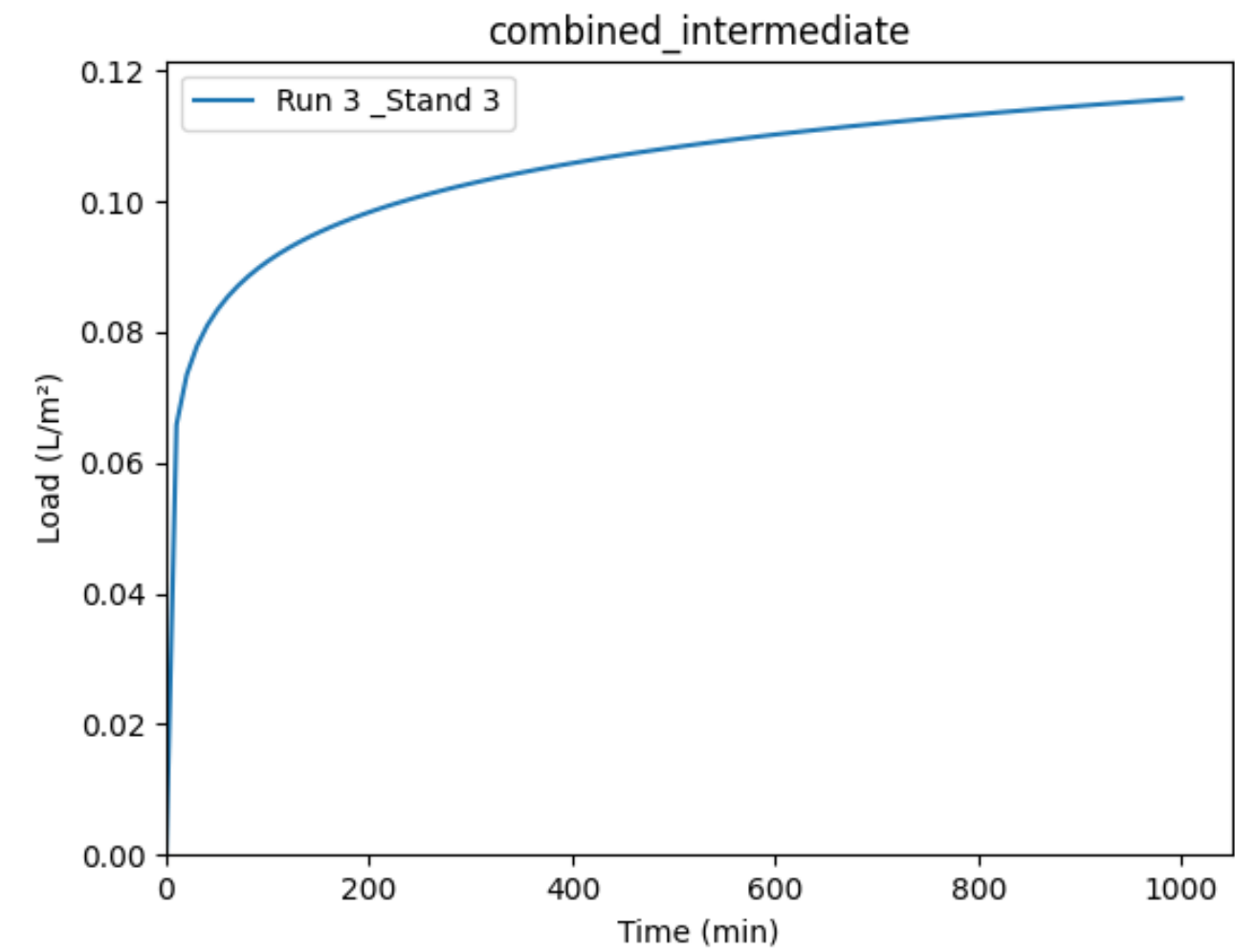
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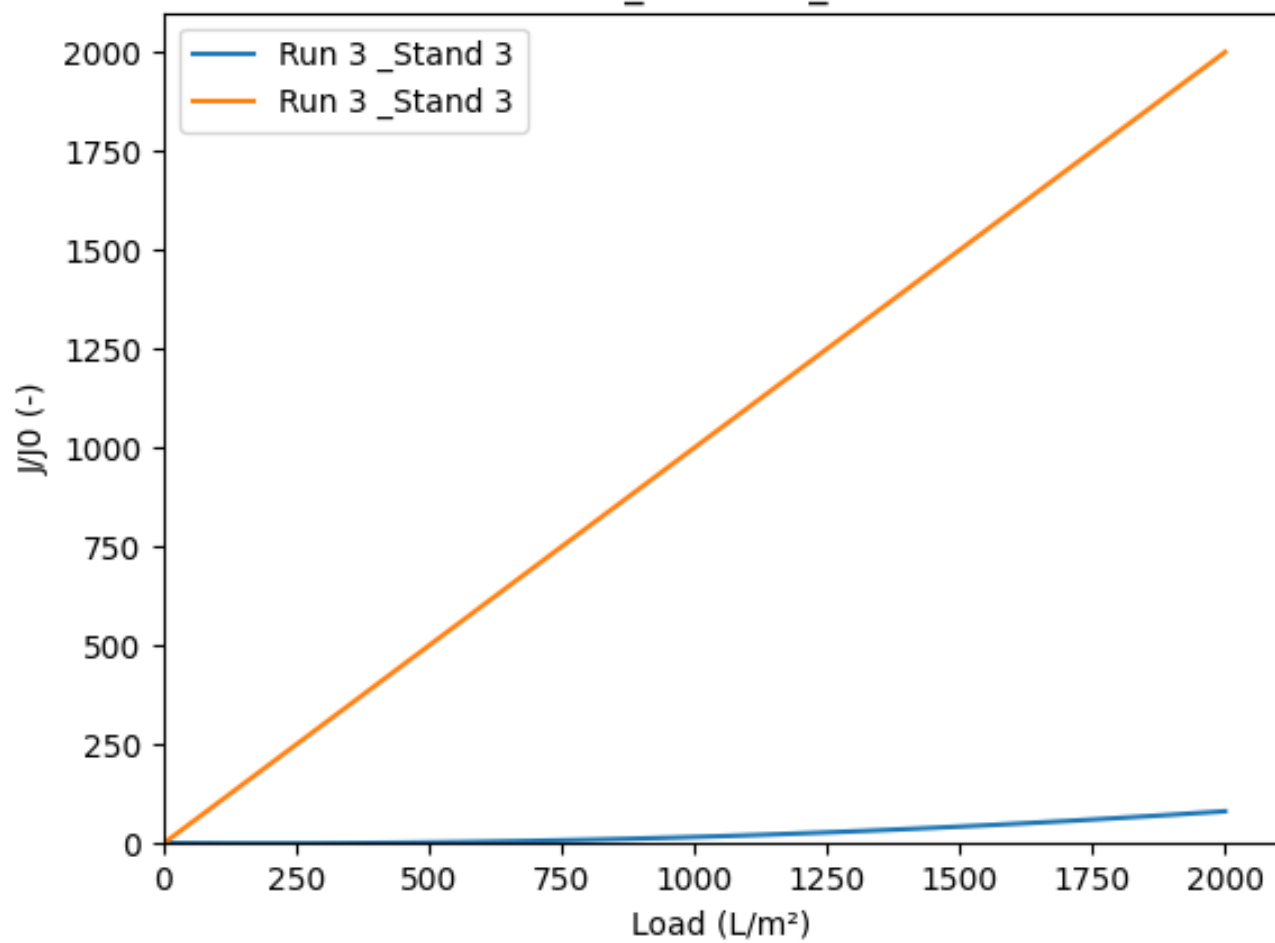
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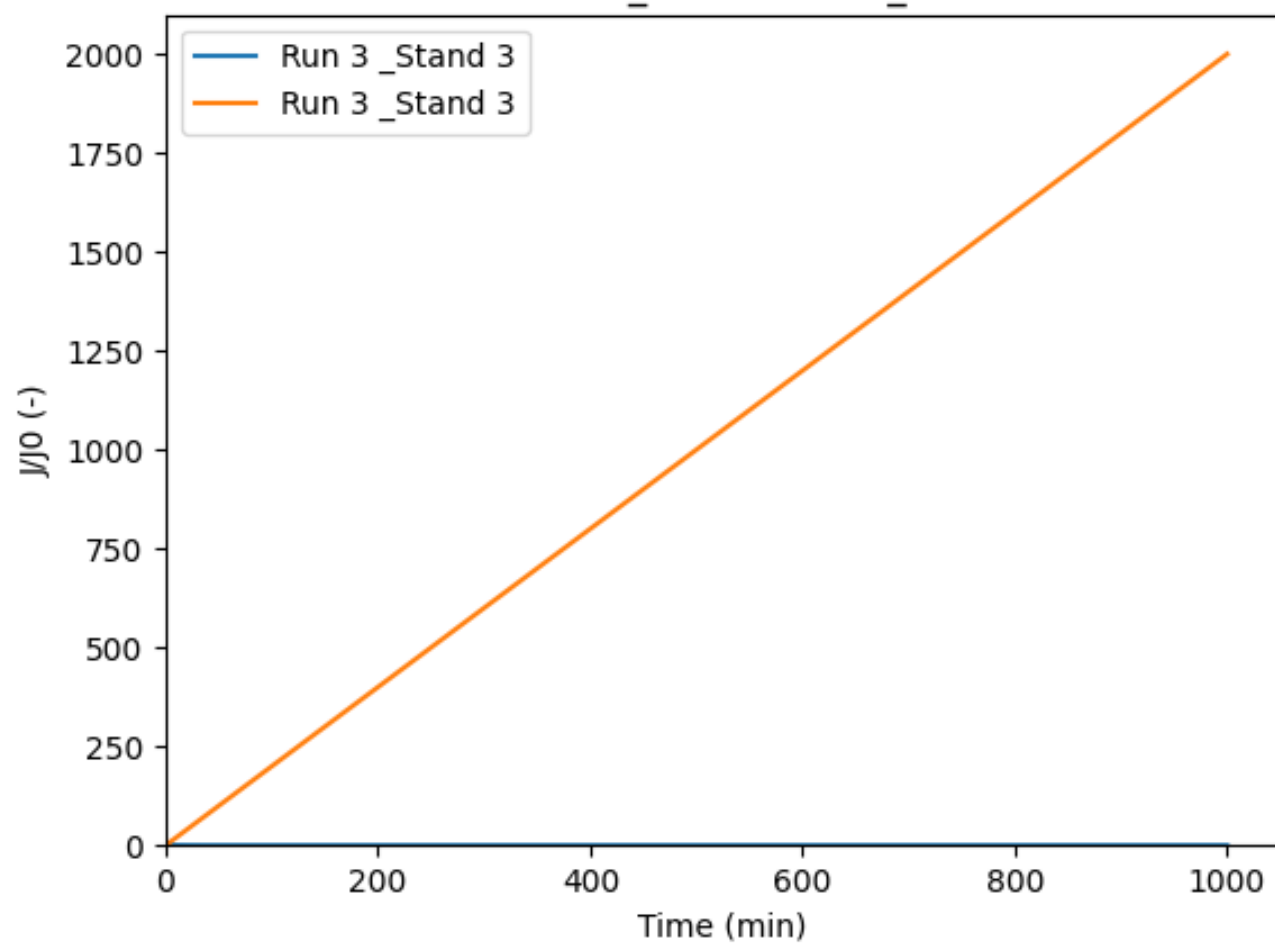




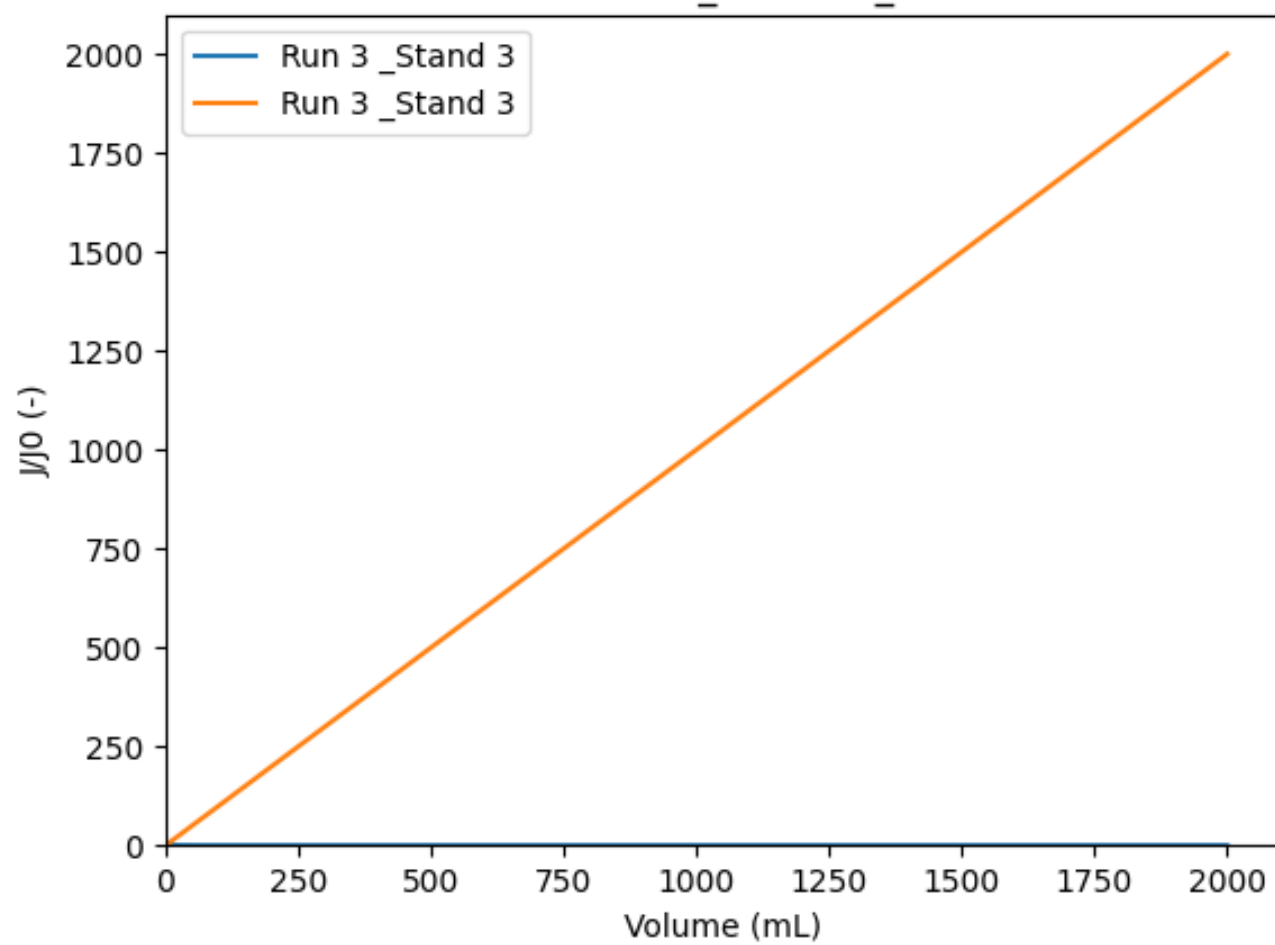
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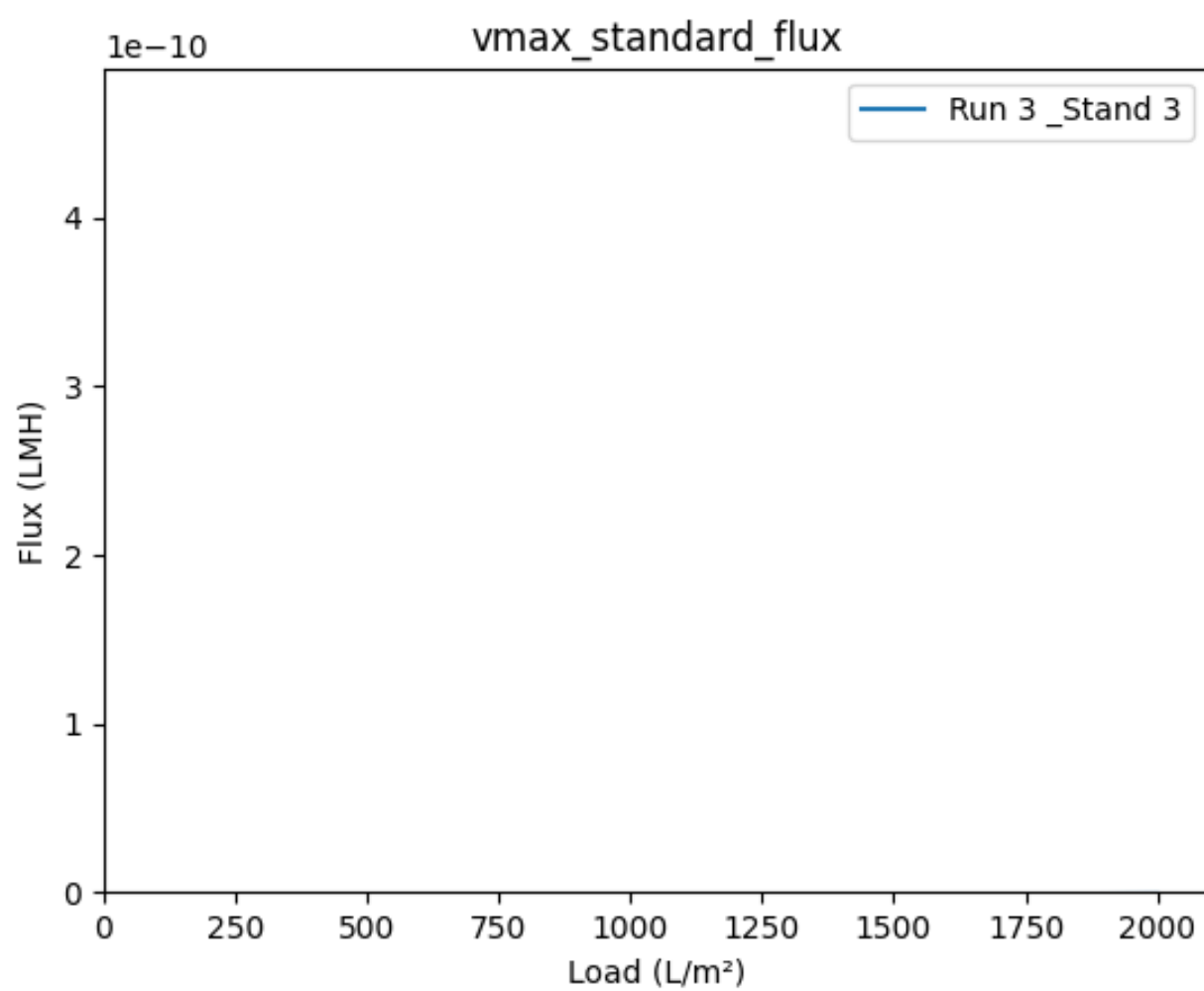


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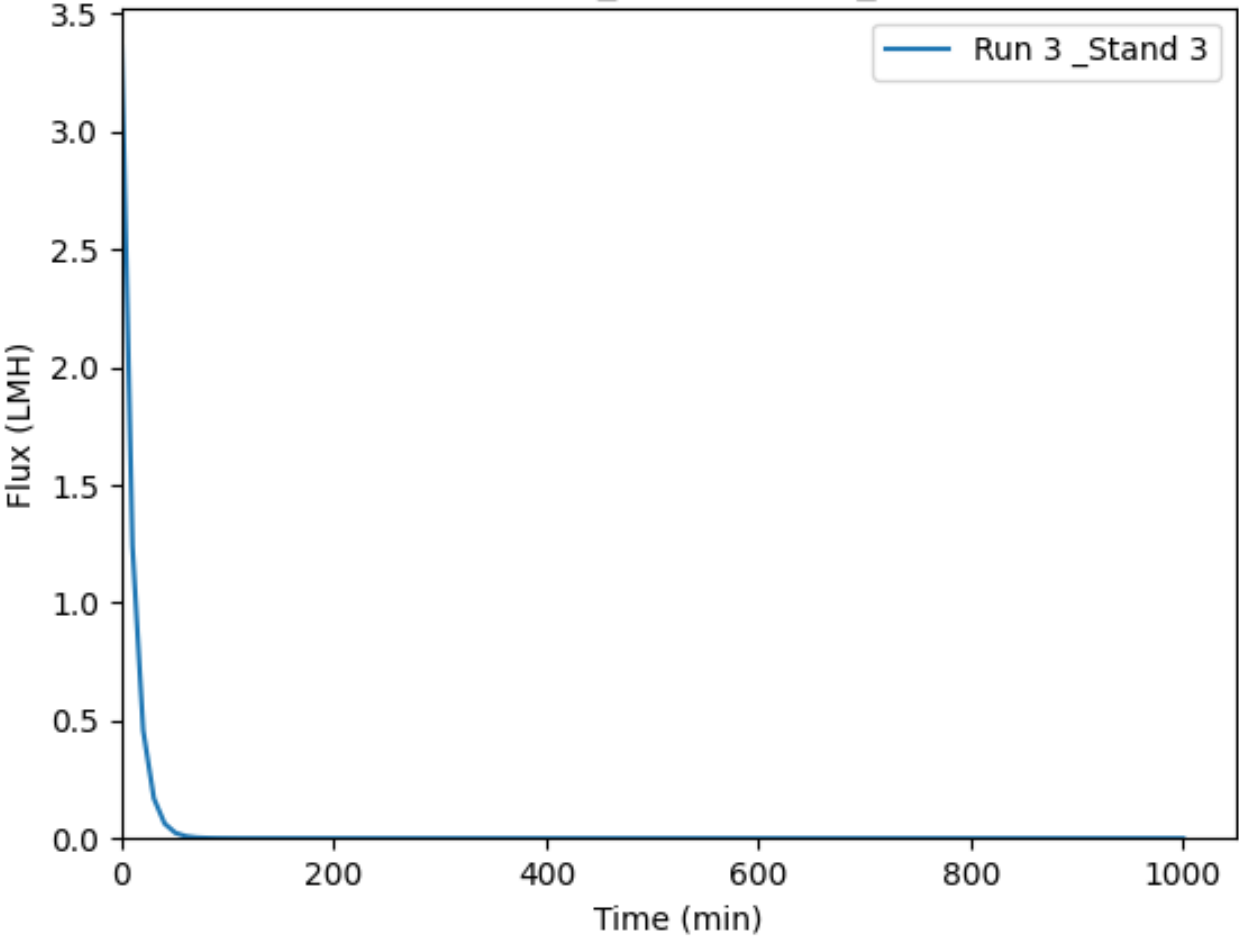


intermediate\_filtration\_flux2





combined\_intermediate\_flux



intermediate\_filtration\_flux

