

Test 0: Single lipid Fresh Out Insane Test

Beads = [C1A D2A C3A C4A] [C1B C2B C3B C4B]

Nougat Output

{0.9067470547042995 0.9646374052094049 }

Shadow Nougat Output

[0.9067470547042995, 0.964637405209405]

Test 0.5: 10 Lipid Fresh Out Insane Test

Beads = [C1A D2A C3A C4A] [C1B C2B C3B C4B]

Nougat Output

{0.9697316555688287 0.9688478324842491 0.9542816461209165 0.9375469005618755
0.9067470547042995 0.9646374052094049 0.9654200064161804 0.9668263655323934
0.9614066249406035 0.9478194077058386 0.9212598430461094 0.9473863130531457
0.9713627179126156 0.9410116124193746 0.9833703344346552 0.9214279711173925
0.9808563811371116 0.9597946205519561 0.9546538502462449 0.9250186177591664}

Shadow Nougat Output

1	0.969732	0.968848
2	0.954282	0.937547
3	0.906747	0.964637
4	0.965420	0.966826
5	0.961407	0.947819
6	0.921260	0.947386
7	0.971363	0.941012
8	0.983370	0.921428
9	0.980856	0.959795
10	0.954654	0.925019

Test 1: 10 Lipid Fresh Out Insane Top and Bottom leaflet Test

Beads = [C1A D2A C3A C4A] [C1B C2B C3B C4B]

Nougat Output

{0.9697316555688287 0.9688478324842491 0.9542816461209165 0.9375469005618755
0.9067470547042995 0.9646374052094049 0.9654200064161804 0.9668263655323934
0.9614066249406035 0.9478194077058386 0.9749344701490907 0.9648538388521171
0.945861995430739 0.9930349964388163 0.915575210122056 0.9724923477246303
0.9414114957686572 0.9586115542937632 0.9072431797582676 0.966179562533888
0.9764584059551111 0.9361343704485132 }

Shadow Nougat Output

1	0.969732	0.968848
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2	0.954282	0.937547
3	0.906747	0.964637
4	0.965420	0.966826
5	0.961407	0.947819
40	0.974934	0.964854
41	0.945862	0.993035
42	0.915575	0.972492
43	0.941411	0.958612
44	0.907243	0.966180
45	0.976458	0.936134

Test 2: 10 Lipid Random Frame Insane Top and Bottom leaflet Test

Beads = [C1A D2A C3A C4A] [C1B C2B C3B C4B]

Nougat Output (Frame254)

```
{-0.18854127415044175 0.4971187786026714 0.629662939799946 0.4455519717320944
0.3449274971953804 0.4932742380490289 0.1649534151660661 0.3726222733480835
0.491013839724169 -0.14287348861457233 0.45124189157881145 0.3680109225555537
0.5150252676692482 -0.3564465142941682 0.3363997197491624 -0.2944934358159766
0.6129407412641528 0.506576599776803 0.5595265978002351 0.685798975905703
0.14378150293757452 -0.2939752811768384 -0.003991910573733937 0.29093022847284233}
```

Shadow Nougat Output (Frame 254)

10	-0.188541	0.497119
11	0.629663	0.445552
12	0.344927	0.493274
13	0.164953	0.372622
14	0.491014	-0.142873
15	0.451242	0.368011
600	0.515025	-0.356447
601	0.336400	-0.294493
602	0.612941	0.506577
603	0.559527	0.685799
604	0.143782	-0.293975
605	-0.003992	0.290930

Test 3: 10 Lipid Insane Top and Bottom leaflet Rotated 180 degrees Test

Nougat Output

```
{0.9697316777777085 0.9688478246873062 0.9542817502500212 0.9375470487992912
0.9067471108046798 0.9646372519763855 0.9654198575789272 0.9668265430949421
0.9614067632931762 0.9478192399150975 0.9749344629823216 0.9648540932295471
0.945862011197883 0.99303499519968 0.915575175636405 0.9724923919482436
0.941411556529316 0.9586115852355501 0.9072432327690754 0.9661796858894443
0.9764583174781212 0.9361343719610709}
```

Shadow Nougat Output

1	0.969732	0.968848
2	0.954282	0.937547
3	0.906747	0.964637
4	0.965420	0.966827
5	0.961407	0.947819
40	0.974934	0.964854
41	0.945862	0.993035
42	0.915575	0.972492
43	0.941412	0.958612
44	0.907243	0.966180
45	0.976458	0.936134

Test 4: 10 Lipid Insane Top and Bottom leaflet Rotated 90 degrees Test

Nougat Output

```
{-0.47606264935329534 -0.4920518026402064 -0.480675685762358 -0.4621779443009417 -
0.43612146248733225 -0.4769899416541237 -0.48485851506873945 -0.48085342255878655 -
0.4933930693397155 -0.46328749359260446 -0.49909186371290964 -0.48238161846609123 -
0.4799080178189224 -0.49355077458138746 -0.47543293268388953 -0.4805891701706351 -
0.4819586703840473 -0.4773994370043272 -0.4329686113923683 -0.4703821951382631 -
0.4827758684033955 -0.4772313787064799 }
```

Shadow Nougat Output

1	-0.476063	-0.492052
2	-0.480676	-0.462178
3	-0.436121	-0.476990
4	-0.484859	-0.480853
5	-0.493393	-0.463287
40	-0.499092	-0.482382
41	-0.479908	-0.493551
42	-0.475433	-0.480589
43	-0.481959	-0.477399
44	-0.432969	-0.470382
45	-0.482776	-0.477231