
Thank you to all participants, authors and reviewers of the Marine Systems and Technologies

Trans Tech Publications <authors@scientific.net>
To: Muhammad Zubair Muis Alie <zubair.m@eng.unhas.ac.id>

Wed, Jan 10, 2018 at 5:22 PM



Materials Science & Engineering
Online periodicals

Dear Muhammad Zubair Muis Alie,

We would like to thank you all: participants, authors and reviewers for the great work you did to help produce this new book.

[Marine Systems and Technologies](#)

www.scientific.net/AMM.874

Please forward this mail to your colleagues who might be interested in this field of research.

Thank you very much for your time and support.

Kind regards,

Scientific Team

P.S. Please also consider posting the new title on your LinkedIn or Research Gate or similar social media webpage.

Dear author, please be advised, that you can order the book with your paper(s), ebook or CD/USB flash-stick with the discount up to 50%.

Please find our new Specialised Collection volume [Restoration of Architectural Heritage](#) online on www.scientific.net/SC.6/book

Also, we would like to offer you the backvolumes of Specialized Collection www.scientific.net/SC with 35 % of discount, if you are interested in, please contact us subscriptions@scientific.net

Dear Author, please be informed that you can share your research paper via [KUDOS](#) platform to help broaden your audience.



Marine Systems and Technologies

The annual International Seminar on Marine Technology (SENTA 2016) was held at Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, on 15-16 December 2016. This proceeding documents selected, peer-reviewed manuscripts that were presented at the seminar. The topics cover coastal and natural resources management, marine energy development and exploration, marine transportation...

[Read more](#)

By following our guidelines for Authors & Editors, you can write the next best-selling scientific paper for Trans Tech Publications. And we here are waiting for your contribution!

Our benefits:

- Author-Friendly Editor Tool
- International Indexing
- Publishing Ethics

And, of course, 1 500 000 visitors at www.scientific.net every month. You too?

With our best regards to you as a loyal subscriber to TTP Newsletter,
Anne Woehlbier
Acting Marketing Director

Trans Tech Publications Inc.

[Reinhardstrasse 18, CH-8008 Zurich,](#)
[Switzerland](#)

Fax: 41 (44) 922 10 33

E-Mail: office@scientific.net

© 2018 Scientific.Net. All rights reserved

--

Specialized Collection

Look inside! Our specialized collection for your research!

Discover NEW!

<https://www.scientific.net/SC>



Muhammad Zubair Muis Alie, Ph.D <zubair.m@eng.unhas.ac.id>

Free Author access via scientific.net to Marine Systems and Technologies

Trans Tech Publications <authors@scientific.net>
To: Muhammad Zubair Muis Alie <zubair.m@eng.unhas.ac.id>

Tue, Nov 28, 2017 at 5:56 PM



Materials Science & Engineering
Online periodicals

Dear **Muhammad Zubair Muis Alie**,

Your paper(s) will be published online in our periodical in the next 2-3 month. You may access (free of charge) your paper(s) online and download a PDF version from <http://www.scientific.net>

As an author you get the possibility to make your paper OPEN ACCESS or order OFFPRINTS. It permits to upload the full-text to open forums, i.e. Research Gate (licence CC-BY 4.0,

<http://creativecommons.org/licenses/by/4.0/>)

Login: zubair.m@eng.unhas.ac.id

Password: hbSTv673

choose 'Author','Access Status'

Thank you for supporting our periodical.

Best regards,
The Scientific.net Publishers Team

P.S. Full personal memberships to all papers on www.scientific.net available for USD 108.00 (with 20% discount) per month.

Dear author, please be advised, that you can order the book with your paper(s), ebook or CD/USB flash-stick with the discount up to 50%.

Please also find our new Specialised Collection volume **Restoration of Architectural Heritage** online on www.scientific.net/SC.6/book

Trans Tech Publications Inc.

[Reinhardstrasse 18, CH-8008 Zurich,](#)
[Switzerland](#)

Fax: 41 (44) 922 10 33

E-Mail: office@scientific.net

© 2017 Scientific.Net. All rights reserved

Do you want to unsubscribe from this mailing? Follow this link

--

Specialized Collection

Look inside! Our specialized collection for your research!

Discover NEW!

<https://www.scientific.net/SC>



Universitas Hasanuddin

Muhammad Zubair Muis Alie, Ph.D <zubair.m@eng.unhas.ac.id>

Copyright Transfer Confirmation for Article: Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

authors@scientific.net <authors@scientific.net>
To: zubair.m@eng.unhas.ac.id

Thu, Mar 16, 2017 at 7:12 PM

Copyright Transfer Confirmation Receipt:

=====

Publication Title: International Seminar on Marine Technology

Article Title: Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Congratulations!

Dear Colleague

Congratulations! You have successfully completed the Scientific.Net Electronic Copyright Form. A copy of the fully executed Form is attached here for your records. Please save this e-mail for any future reference.

Best regards,
Team Scientific.Net



CopyrightAgreement.pdf

69K



Muhammad Zubair Muis Alie, Ph.D <zubair.m@eng.unhas.ac.id>

"International Seminar on Marine Technology" Manuscript "Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages"

International Seminar on Marine Techn... <9783035711509@scientific.net>

Mon, Jul 31, 2017 at 3:09 PM

Reply-To: "International Seminar on Marine Techn..." <9783035711509@scientific.net>

To: Muhammad Alie <zubair.m@eng.unhas.ac.id>

Dear Dr. Muhammad Alie,

Based on the reports of the referees, the Editors have determined that your manuscript «Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages» requires revision before it can be published in the «International Seminar on Marine Technology» . To access the referees' reports and submit your revised manuscript, please use the publisher's website <https://www.scientific.net> and log in using the credentials below:

Username : zubair.m@eng.unhas.ac.id

Password : hbSTv673

After you login please select « Participant » and then « Papers » near the top of the screen and then click on items in the « Reviews » column of the papers list to access the Editor/Reviewer reports of your paper. If you click on the « Paper Title » column of the papers list you will get to a screen where you can upload your revised manuscript.

Please check the Review(s), revise your manuscript and upload a new version. The new paper must be uploaded over the first version, just click on your paper title and upload the new version (mandatory).

The revised manuscript is uploaded over the earlier version, thus replacing it.

Please note that revised manuscript submission closes on 8/15/2017.

If you have any questions or wish to comment on your revisions, please E-mail the Editor.

Thank you.

Best regards,

Ketut Suastika

Teguh Putranto

SENTA 2016 Abstract Acceptance Notification

Dari: Seminar Nasional FTK (senta@its.ac.id)

Kepada: bair_offshore@yahoo.co.id

Tanggal: Jumat, 14 Oktober 2016 pukul 16.36 WITA

Dear Authors,

On behalf of SENTA 2016 Conference, we are pleased to inform you that your extended abstract entitled "*Collapse Analysis on VLCC Subjected to Longitudinal Bending with Bottom Damage*" has been accepted for oral presentation at the Conference. It is a condition of abstract acceptance that you or a nominated presenting co-author registers for the conference by submitting your **full paper** along with your **proof of payment** and **registration form** by mail to senta@its.ac.id no later than November 18, 2016. The abstracts of all **unregistered presenters** will be removed from the oral programme after this date.

Should you require more information about the conference, please do not hesitate to contact our committee Mr. Teguh Putranto (+62 85648595621) or Mr. Sholikhhan Arif (+62 81357817997). We look forward to meeting you on December 15-16, 2016.

Best Regards,

SENTA 2016 Reviewer Team

Re: Invitation for SENTA 2016 Conference

Dari: Seminar Nasional FTK (senta@its.ac.id)

Kepada: bair_offshore@yahoo.co.id

Tanggal: Selasa, 18 Oktober 2016 pukul 08.27 WITA

Dear Author,

Thank you for your submitting extended abstract.

We would conduct the review process and would inform you about the decision of your abstract.

Best regards,

Teguh Putranto

Secretary of SENTA 2016

On Tuesday, October 11, 2016, Muh.Zubair Muis Alie bair <bair_offshore@yahoo.co.id> wrote:

Dear Committee of SENTA 2016 International Conference

First of all, i would like to thank for your information and sending me an email regarding the SENTA 2016 International Conference will be held in Surabaya. This is very good achievement for SENTA becoming International Conference and the full paper will be submitted to Applied Mechanics and Materials (AMM). In conjunction with this, i attach the abstract for SENTA 2016 International Conference.

Again, thank you.

Sincerely yours,

Muhammad Zubair Muis Alie

Pada Jumat, 30 September 2016 12:43, Seminar Nasional FTK <senta@its.ac.id> menulis:

Dear Mr. Muis Alie,

On behalf of SENTA 2016 Conference, we are pleased to invite you to attend and participate in our inaugural International Marine Technology Conference that will be held on 15-16 December 2016 at Department of Naval Architecture and Shipbuilding Engineering, ITS, Surabaya.

SENTA 2016 is an annual International Seminar on Marine Technology organized by the Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember (ITS) Surabaya. SENTA was initially a national seminar, the first seminar was organized in 2001, and this year will be upgraded to be an international seminar and indexed by AMM. The internationalization of SENTA is a response to the need of ITS to be an international institute as well as Indonesia as a global maritime axis.

The purpose of the conference is to provide a platform for researchers, academicians, practitioners, as well as industrial professionals from all over the world to present their research results and development activities in the fields of Marine Technology. All honourable authors are kindly encouraged to contribute to the conference through submissions of their research papers and cordially invited for presentation at the conference.

Should you require more information about the conference, please visit our conference website at senta.its.ac.id. You may also contact our committee Mr. Teguh Putranto (+62 85648595621) or Mr. Sholikhan Arif (+62 81357817997).

We look forward to your confirmed presence at the SENTA Conference.

Respectfully Yours,

Aries Sulisetyono
Conference Chairperson

Invitation for SENTA 2016 Conference

Dari: Seminar Nasional FTK (senta@its.ac.id)

Kepada: bair_offshore@yahoo.co.id

Tanggal: Jumat, 30 September 2016 pukul 12.43 WITA

Dear Mr. Muis Alie,

On behalf of SENTA 2016 Conference, we are pleased to invite you to attend and participate in our inaugural International Marine Technology Conference that will be held on 15-16 December 2016 at Department of Naval Architecture and Shipbuilding Engineering, ITS, Surabaya.

SENTA 2016 is an annual International Seminar on Marine Technology organized by the Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember (ITS) Surabaya. SENTA was initially a national seminar, the first seminar was organized in 2001, and this year will be upgraded to be an international seminar and indexed by AMM. The internationalization of SENTA is a response to the need of ITS to be an international institute as well as Indonesia as a global maritime axis.

The purpose of the conference is to provide a platform for researchers, academicians, practitioners, as well as industrial professionals from all over the world to present their research results and development activities in the fields of Marine Technology. All honourable authors are kindly encouraged to contribute to the conference through submissions of their research papers and cordially invited for presentation at the conference.

Should you require more information about the conference, please visit our conference website at senta.its.ac.id. You may also contact our committee Mr. Teguh Putranto (+62 85648595621) or Mr. Sholikhhan Arif (+62 81357817997).

We look forward to your confirmed presence at the SENTA Conference.

Respectfully Yours,

Aries Sulisetyono

Conference Chairperson

SENTA 2016

Click

First*

aFirst
bSecond

Abstract

Your paper abstract in here (50-150 words)

© 2015 The Authors.

Peer-review under responsibility of the SENTA International Conference Committee.

Keywords: Type

1. Introduction

Here the introduction to your paper. Generally, paper content consists of several parts, i.e. introduction, methods, results and discussions and conclusions. Please write your scientific manuscript into 5 (five) up to 8 (eight) pages including abstract and references.

1.1. Sample of sub-chapter title

Files must be in MS Word only and should be formatted for direct printing, using the CRC MS Word provided.

2. Methods*2.1. Sample of sub-chapter title*

Here the explanation about the research methods

* Corresponding author. Tel.: +0-000-000-0000; fax: +0-000-000-0000.

E-mail address: author@institute.xxx

3. Result and Discussions

Here the explanation about the results, discussions, findings and so forth.

4. Conclusions

One or two paragraphs about the research conclusion

Acknowledgements

Acknowledgements and Reference heading should be left justified, bold, with the first letter capitalized but have no numbers. Text below continues as normal.

Appendix A. An example appendix

Authors including an appendix section should do so before References section. Multiple appendices should all have headings in the style used above. They will automatically be ordered A, B, C etc.

A.1. Example of a sub-heading within an appendix

There is also the option to include a subheading within the Appendix if you wish.

References

Sample:

- Van der Geer, J., Hanraads, J. A. J., & Lupton, R. A. (2000). The art of writing a scientific article. *Journal of Science Communication*, 163, 51–59.
- Strunk, W., Jr., & White, E. B. (1979). *The elements of style* (3rd ed.). New York: MacMillan.
- Mettam, G. R., & Adams, L. B. (1999). How to prepare an electronic version of your article. In B. S. Jones & R. Z. Smith (Eds.), *Introduction to the electronic age* (pp. 281–304). New York: E-Publishing Inc.

Extended Abstract

Collapse Analysis on VLCC Subjected to Longitudinal Bending With Bottom Damage

Muhammad Zubair Muis
Alie
Hasanuddin University
zubair.m@eng.unhas.ac.id

Wahyuddin
Hasanuddin University
wahyumustafa@yahoo.co.id

Syamsul Asri
Hasanuddin University
sa_tanri_kapal83@yahoo.com

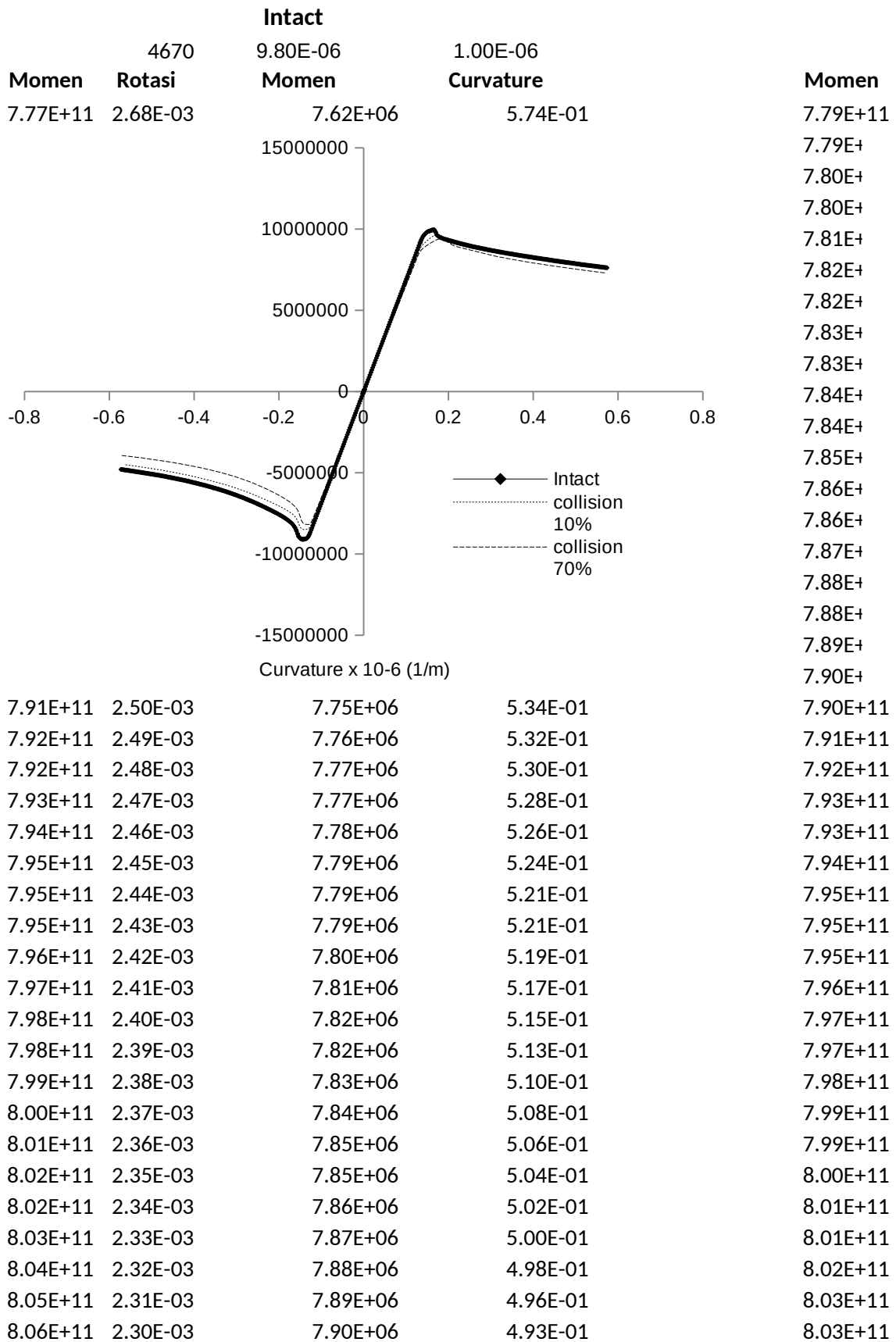
Farianto Fachruddin Lage
Hasanuddin University
fariantorma@gmail.com

Juswan
Hasanuddin University
juswansade@gmail.com

Taufiqur Rachman
Hasanuddin University
ocean_d321@yahoo.com

The objective of the present study is to analyze the progressive collapse of VLCC hull girder with bottom damaged subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection and crack are not considered. The bottom damage scenario is located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The result obtained for intact and damage condition by the analytical solution is compared with one another.

Keywords: VLCC, cross section, longitudinal bending, bottom damage



| | | | | |
|----------|----------|----------|----------|----------|
| 8.07E+11 | 2.29E-03 | 7.90E+06 | 4.91E-01 | 8.04E+11 |
| 8.07E+11 | 2.28E-03 | 7.91E+06 | 4.89E-01 | 8.05E+11 |
| 8.08E+11 | 2.28E-03 | 7.91E+06 | 4.88E-01 | 8.05E+11 |
| 8.08E+11 | 2.27E-03 | 7.92E+06 | 4.86E-01 | 8.06E+11 |
| 8.09E+11 | 2.26E-03 | 7.93E+06 | 4.84E-01 | 8.06E+11 |
| 8.10E+11 | 2.25E-03 | 7.94E+06 | 4.82E-01 | 8.07E+11 |
| 8.11E+11 | 2.24E-03 | 7.94E+06 | 4.80E-01 | 8.08E+11 |
| 8.11E+11 | 2.23E-03 | 7.95E+06 | 4.78E-01 | 8.09E+11 |
| 8.12E+11 | 2.22E-03 | 7.96E+06 | 4.76E-01 | 8.09E+11 |
| 8.13E+11 | 2.21E-03 | 7.97E+06 | 4.73E-01 | 8.10E+11 |
| 8.14E+11 | 2.20E-03 | 7.97E+06 | 4.71E-01 | 8.11E+11 |
| 8.15E+11 | 2.19E-03 | 7.98E+06 | 4.69E-01 | 8.12E+11 |
| 8.15E+11 | 2.18E-03 | 7.99E+06 | 4.67E-01 | 8.12E+11 |
| 8.16E+11 | 2.17E-03 | 8.00E+06 | 4.65E-01 | 8.13E+11 |
| 8.17E+11 | 2.16E-03 | 8.01E+06 | 4.63E-01 | 8.14E+11 |
| 8.18E+11 | 2.15E-03 | 8.01E+06 | 4.61E-01 | 8.15E+11 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 8.15E+11 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 8.16E+11 |
| 8.19E+11 | 2.13E-03 | 8.03E+06 | 4.56E-01 | 8.16E+11 |
| 8.20E+11 | 2.12E-03 | 8.04E+06 | 4.54E-01 | 8.17E+11 |
| 8.21E+11 | 2.11E-03 | 8.05E+06 | 4.52E-01 | 8.18E+11 |
| 8.22E+11 | 2.10E-03 | 8.05E+06 | 4.50E-01 | 8.18E+11 |
| 8.23E+11 | 2.09E-03 | 8.06E+06 | 4.48E-01 | 8.19E+11 |
| 8.24E+11 | 2.08E-03 | 8.07E+06 | 4.45E-01 | 8.20E+11 |
| 8.25E+11 | 2.07E-03 | 8.08E+06 | 4.43E-01 | 8.20E+11 |
| 8.25E+11 | 2.06E-03 | 8.09E+06 | 4.41E-01 | 8.21E+11 |
| 8.26E+11 | 2.05E-03 | 8.10E+06 | 4.39E-01 | 8.22E+11 |
| 8.27E+11 | 2.04E-03 | 8.11E+06 | 4.37E-01 | 8.23E+11 |
| 8.28E+11 | 2.03E-03 | 8.12E+06 | 4.35E-01 | 8.23E+11 |
| 8.29E+11 | 2.02E-03 | 8.12E+06 | 4.33E-01 | 8.24E+11 |
| 8.30E+11 | 2.01E-03 | 8.13E+06 | 4.31E-01 | 8.25E+11 |
| 8.30E+11 | 2.00E-03 | 8.14E+06 | 4.29E-01 | 8.25E+11 |
| 8.31E+11 | 1.99E-03 | 8.14E+06 | 4.27E-01 | 8.26E+11 |
| 8.32E+11 | 1.98E-03 | 8.15E+06 | 4.25E-01 | 8.27E+11 |
| 8.33E+11 | 1.97E-03 | 8.16E+06 | 4.23E-01 | 8.28E+11 |
| 8.34E+11 | 1.96E-03 | 8.17E+06 | 4.21E-01 | 8.28E+11 |
| 8.35E+11 | 1.95E-03 | 8.18E+06 | 4.18E-01 | 8.29E+11 |
| 8.35E+11 | 1.94E-03 | 8.19E+06 | 4.16E-01 | 8.30E+11 |
| 8.36E+11 | 1.93E-03 | 8.20E+06 | 4.14E-01 | 8.31E+11 |
| 8.37E+11 | 1.92E-03 | 8.20E+06 | 4.12E-01 | 8.32E+11 |
| 8.38E+11 | 1.91E-03 | 8.21E+06 | 4.10E-01 | 8.32E+11 |
| 8.39E+11 | 1.91E-03 | 8.22E+06 | 4.08E-01 | 8.33E+11 |
| 8.40E+11 | 1.90E-03 | 8.23E+06 | 4.06E-01 | 8.34E+11 |
| 8.40E+11 | 1.89E-03 | 8.24E+06 | 4.04E-01 | 8.35E+11 |
| 8.41E+11 | 1.88E-03 | 8.24E+06 | 4.01E-01 | 8.35E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 8.42E+11 | 1.87E-03 | 8.25E+06 | 3.99E-01 | 8.36E+11 |
| 8.43E+11 | 1.86E-03 | 8.26E+06 | 3.97E-01 | 8.37E+11 |
| 8.44E+11 | 1.85E-03 | 8.27E+06 | 3.95E-01 | 8.38E+11 |
| 8.45E+11 | 1.84E-03 | 8.28E+06 | 3.93E-01 | 8.38E+11 |
| 8.46E+11 | 1.83E-03 | 8.29E+06 | 3.91E-01 | 8.39E+11 |
| 8.47E+11 | 1.82E-03 | 8.30E+06 | 3.89E-01 | 8.40E+11 |
| 8.47E+11 | 1.81E-03 | 8.30E+06 | 3.88E-01 | 8.41E+11 |
| 8.48E+11 | 1.80E-03 | 8.31E+06 | 3.86E-01 | 8.42E+11 |
| 8.49E+11 | 1.79E-03 | 8.32E+06 | 3.84E-01 | 8.42E+11 |
| 8.50E+11 | 1.78E-03 | 8.33E+06 | 3.82E-01 | 8.43E+11 |
| 8.50E+11 | 1.77E-03 | 8.33E+06 | 3.79E-01 | 8.44E+11 |
| 8.51E+11 | 1.76E-03 | 8.34E+06 | 3.77E-01 | 8.44E+11 |
| 8.52E+11 | 1.75E-03 | 8.35E+06 | 3.75E-01 | 8.45E+11 |
| 8.53E+11 | 1.74E-03 | 8.36E+06 | 3.73E-01 | 8.46E+11 |
| 8.54E+11 | 1.73E-03 | 8.37E+06 | 3.71E-01 | 8.47E+11 |
| 8.55E+11 | 1.72E-03 | 8.38E+06 | 3.69E-01 | 8.48E+11 |
| 8.56E+11 | 1.71E-03 | 8.39E+06 | 3.67E-01 | 8.49E+11 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.50E+11 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.50E+11 |
| 8.58E+11 | 1.69E-03 | 8.41E+06 | 3.62E-01 | 8.50E+11 |
| 8.59E+11 | 1.68E-03 | 8.42E+06 | 3.60E-01 | 8.51E+11 |
| 8.60E+11 | 1.67E-03 | 8.43E+06 | 3.58E-01 | 8.52E+11 |
| 8.61E+11 | 1.66E-03 | 8.44E+06 | 3.56E-01 | 8.53E+11 |
| 8.62E+11 | 1.65E-03 | 8.45E+06 | 3.54E-01 | 8.54E+11 |
| 8.63E+11 | 1.64E-03 | 8.46E+06 | 3.52E-01 | 8.55E+11 |
| 8.64E+11 | 1.63E-03 | 8.47E+06 | 3.49E-01 | 8.55E+11 |
| 8.65E+11 | 1.62E-03 | 8.48E+06 | 3.47E-01 | 8.56E+11 |
| 8.66E+11 | 1.61E-03 | 8.48E+06 | 3.46E-01 | 8.57E+11 |
| 8.66E+11 | 1.60E-03 | 8.49E+06 | 3.43E-01 | 8.57E+11 |
| 8.67E+11 | 1.59E-03 | 8.50E+06 | 3.41E-01 | 8.58E+11 |
| 8.68E+11 | 1.58E-03 | 8.51E+06 | 3.39E-01 | 8.59E+11 |
| 8.69E+11 | 1.57E-03 | 8.52E+06 | 3.37E-01 | 8.60E+11 |
| 8.70E+11 | 1.56E-03 | 8.53E+06 | 3.35E-01 | 8.61E+11 |
| 8.71E+11 | 1.55E-03 | 8.54E+06 | 3.33E-01 | 8.62E+11 |
| 8.72E+11 | 1.54E-03 | 8.55E+06 | 3.31E-01 | 8.63E+11 |
| 8.73E+11 | 1.53E-03 | 8.56E+06 | 3.28E-01 | 8.64E+11 |
| 8.74E+11 | 1.52E-03 | 8.57E+06 | 3.26E-01 | 8.65E+11 |
| 8.75E+11 | 1.52E-03 | 8.58E+06 | 3.24E-01 | 8.65E+11 |
| 8.76E+11 | 1.51E-03 | 8.59E+06 | 3.22E-01 | 8.66E+11 |
| 8.77E+11 | 1.50E-03 | 8.60E+06 | 3.20E-01 | 8.67E+11 |
| 8.79E+11 | 1.49E-03 | 8.61E+06 | 3.18E-01 | 8.68E+11 |
| 8.80E+11 | 1.48E-03 | 8.62E+06 | 3.16E-01 | 8.69E+11 |
| 8.81E+11 | 1.47E-03 | 8.63E+06 | 3.14E-01 | 8.70E+11 |
| 8.81E+11 | 1.46E-03 | 8.63E+06 | 3.13E-01 | 8.71E+11 |
| 8.82E+11 | 1.45E-03 | 8.64E+06 | 3.11E-01 | 8.72E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 8.83E+11 | 1.44E-03 | 8.65E+06 | 3.09E-01 | 8.73E+11 |
| 8.84E+11 | 1.43E-03 | 8.66E+06 | 3.07E-01 | 8.74E+11 |
| 8.85E+11 | 1.42E-03 | 8.67E+06 | 3.05E-01 | 8.75E+11 |
| 8.86E+11 | 1.41E-03 | 8.68E+06 | 3.03E-01 | 8.76E+11 |
| 8.87E+11 | 1.40E-03 | 8.69E+06 | 3.01E-01 | 8.77E+11 |
| 8.88E+11 | 1.39E-03 | 8.70E+06 | 2.99E-01 | 8.78E+11 |
| 8.89E+11 | 1.38E-03 | 8.71E+06 | 2.96E-01 | 8.79E+11 |
| 8.90E+11 | 1.38E-03 | 8.72E+06 | 2.96E-01 | 8.79E+11 |
| 8.91E+11 | 1.37E-03 | 8.73E+06 | 2.93E-01 | 8.80E+11 |
| 8.92E+11 | 1.36E-03 | 8.74E+06 | 2.91E-01 | 8.81E+11 |
| 8.93E+11 | 1.35E-03 | 8.75E+06 | 2.89E-01 | 8.82E+11 |
| 8.94E+11 | 1.34E-03 | 8.76E+06 | 2.87E-01 | 8.83E+11 |
| 8.95E+11 | 1.33E-03 | 8.77E+06 | 2.85E-01 | 8.84E+11 |
| 8.96E+11 | 1.33E-03 | 8.78E+06 | 2.84E-01 | 8.85E+11 |
| 8.97E+11 | 1.32E-03 | 8.79E+06 | 2.82E-01 | 8.86E+11 |
| 8.98E+11 | 1.31E-03 | 8.80E+06 | 2.80E-01 | 8.88E+11 |
| 8.99E+11 | 1.30E-03 | 8.81E+06 | 2.78E-01 | 8.89E+11 |
| 9.00E+11 | 1.29E-03 | 8.82E+06 | 2.76E-01 | 8.90E+11 |
| 9.02E+11 | 1.28E-03 | 8.83E+06 | 2.73E-01 | 8.91E+11 |
| 9.02E+11 | 1.27E-03 | 8.84E+06 | 2.73E-01 | 8.92E+11 |
| 9.03E+11 | 1.26E-03 | 8.85E+06 | 2.71E-01 | 8.92E+11 |
| 9.04E+11 | 1.25E-03 | 8.86E+06 | 2.69E-01 | 8.93E+11 |
| 9.05E+11 | 1.24E-03 | 8.87E+06 | 2.66E-01 | 8.94E+11 |
| 9.07E+11 | 1.23E-03 | 8.89E+06 | 2.64E-01 | 8.96E+11 |
| 9.08E+11 | 1.22E-03 | 8.90E+06 | 2.62E-01 | 8.97E+11 |
| 9.09E+11 | 1.21E-03 | 8.91E+06 | 2.60E-01 | 8.98E+11 |
| 9.10E+11 | 1.21E-03 | 8.92E+06 | 2.58E-01 | 8.99E+11 |
| 9.11E+11 | 1.20E-03 | 8.93E+06 | 2.56E-01 | 9.00E+11 |
| 9.13E+11 | 1.19E-03 | 8.95E+06 | 2.54E-01 | 9.01E+11 |
| 9.14E+11 | 1.18E-03 | 8.96E+06 | 2.52E-01 | 9.02E+11 |
| 9.16E+11 | 1.17E-03 | 8.97E+06 | 2.49E-01 | 9.04E+11 |
| 9.17E+11 | 1.16E-03 | 8.98E+06 | 2.48E-01 | 9.05E+11 |
| 9.18E+11 | 1.15E-03 | 9.00E+06 | 2.45E-01 | 9.06E+11 |
| 9.20E+11 | 1.14E-03 | 9.01E+06 | 2.43E-01 | 9.07E+11 |
| 9.21E+11 | 1.13E-03 | 9.03E+06 | 2.41E-01 | 9.08E+11 |
| 9.22E+11 | 1.12E-03 | 9.04E+06 | 2.39E-01 | 9.09E+11 |
| 9.23E+11 | 1.11E-03 | 9.05E+06 | 2.38E-01 | 9.11E+11 |
| 9.24E+11 | 1.10E-03 | 9.06E+06 | 2.36E-01 | 9.11E+11 |
| 9.26E+11 | 1.09E-03 | 9.07E+06 | 2.34E-01 | 9.13E+11 |
| 9.27E+11 | 1.08E-03 | 9.09E+06 | 2.31E-01 | 9.14E+11 |
| 9.29E+11 | 1.07E-03 | 9.10E+06 | 2.29E-01 | 9.16E+11 |
| 9.30E+11 | 1.06E-03 | 9.11E+06 | 2.27E-01 | 9.17E+11 |
| 9.32E+11 | 1.05E-03 | 9.13E+06 | 2.25E-01 | 9.17E+11 |
| 9.33E+11 | 1.04E-03 | 9.15E+06 | 2.23E-01 | 9.19E+11 |
| 9.35E+11 | 1.03E-03 | 9.16E+06 | 2.21E-01 | 9.20E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 9.35E+11 | 1.03E-03 | 9.17E+06 | 2.20E-01 | 9.21E+11 |
| 9.37E+11 | 1.02E-03 | 9.18E+06 | 2.18E-01 | 9.23E+11 |
| 9.38E+11 | 1.01E-03 | 9.19E+06 | 2.16E-01 | 9.24E+11 |
| 9.40E+11 | 9.99E-04 | 9.21E+06 | 2.14E-01 | 9.25E+11 |
| 9.42E+11 | 9.89E-04 | 9.23E+06 | 2.12E-01 | 9.27E+11 |
| 9.42E+11 | 9.87E-04 | 9.23E+06 | 2.11E-01 | 9.28E+11 |
| 9.43E+11 | 9.77E-04 | 9.25E+06 | 2.09E-01 | 9.29E+11 |
| 9.45E+11 | 9.67E-04 | 9.26E+06 | 2.07E-01 | 9.30E+11 |
| 9.47E+11 | 9.57E-04 | 9.28E+06 | 2.05E-01 | 9.32E+11 |
| 9.48E+11 | 9.49E-04 | 9.29E+06 | 2.03E-01 | 9.33E+11 |
| 9.50E+11 | 9.39E-04 | 9.31E+06 | 2.01E-01 | 9.34E+11 |
| 9.52E+11 | 9.29E-04 | 9.33E+06 | 1.99E-01 | 9.36E+11 |
| 9.53E+11 | 9.21E-04 | 9.34E+06 | 1.97E-01 | 9.38E+11 |
| 9.54E+11 | 9.11E-04 | 9.35E+06 | 1.95E-01 | 9.40E+11 |
| 9.56E+11 | 9.01E-04 | 9.37E+06 | 1.93E-01 | 9.42E+11 |
| 9.58E+11 | 8.91E-04 | 9.39E+06 | 1.91E-01 | 9.46E+11 |
| 9.58E+11 | 8.88E-04 | 9.39E+06 | 1.90E-01 | 9.47E+11 |
| 9.60E+11 | 8.78E-04 | 9.41E+06 | 1.88E-01 | 9.51E+11 |
| 9.62E+11 | 8.68E-04 | 9.43E+06 | 1.86E-01 | 9.54E+11 |
| 9.63E+11 | 8.65E-04 | 9.44E+06 | 1.85E-01 | 9.56E+11 |
| 9.65E+11 | 8.55E-04 | 9.46E+06 | 1.83E-01 | 9.70E+11 |
| 9.67E+11 | 8.46E-04 | 9.48E+06 | 1.81E-01 | 9.80E+11 |
| 9.70E+11 | 8.36E-04 | 9.51E+06 | 1.79E-01 | 9.84E+11 |
| 9.73E+11 | 8.28E-04 | 9.53E+06 | 1.77E-01 | 9.86E+11 |
| 9.77E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.86E+11 |
| 9.78E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.85E+11 |
| 9.83E+11 | 8.08E-04 | 9.63E+06 | 1.73E-01 | 9.84E+11 |
| 9.85E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.83E+11 |
| 9.86E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.81E+11 |
| 9.99E+11 | 7.94E-04 | 9.79E+06 | 1.70E-01 | 9.80E+11 |
| 1.00E+12 | 7.90E-04 | 9.84E+06 | 1.69E-01 | 9.79E+11 |
| 1.01E+12 | 7.82E-04 | 9.94E+06 | 1.67E-01 | 9.77E+11 |
| 1.02E+12 | 7.76E-04 | 9.96E+06 | 1.66E-01 | 9.75E+11 |
| 1.02E+12 | 7.66E-04 | 9.95E+06 | 1.64E-01 | 9.73E+11 |
| 1.02E+12 | 7.60E-04 | 9.95E+06 | 1.63E-01 | 9.73E+11 |
| 1.01E+12 | 7.50E-04 | 9.94E+06 | 1.61E-01 | 9.69E+11 |
| 1.01E+12 | 7.45E-04 | 9.92E+06 | 1.60E-01 | 9.65E+11 |
| 1.01E+12 | 7.35E-04 | 9.91E+06 | 1.57E-01 | 9.63E+11 |
| 1.01E+12 | 7.29E-04 | 9.89E+06 | 1.56E-01 | 9.59E+11 |
| 1.01E+12 | 7.19E-04 | 9.87E+06 | 1.54E-01 | 9.55E+11 |
| 1.01E+12 | 7.09E-04 | 9.85E+06 | 1.52E-01 | 9.51E+11 |
| 1.00E+12 | 7.01E-04 | 9.83E+06 | 1.50E-01 | 9.46E+11 |
| 1.00E+12 | 6.94E-04 | 9.80E+06 | 1.49E-01 | 9.41E+11 |
| 9.97E+11 | 6.88E-04 | 9.77E+06 | 1.47E-01 | 9.38E+11 |
| 9.91E+11 | 6.78E-04 | 9.71E+06 | 1.45E-01 | 9.35E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 9.86E+11 | 6.69E-04 | 9.66E+06 | 1.43E-01 | 9.32E+11 |
| 9.82E+11 | 6.64E-04 | 9.63E+06 | 1.42E-01 | 9.27E+11 |
| 9.78E+11 | 6.58E-04 | 9.58E+06 | 1.41E-01 | 9.22E+11 |
| 9.73E+11 | 6.52E-04 | 9.53E+06 | 1.40E-01 | 9.19E+11 |
| 9.63E+11 | 6.43E-04 | 9.43E+06 | 1.38E-01 | 9.15E+11 |
| 9.54E+11 | 6.35E-04 | 9.35E+06 | 1.36E-01 | 9.11E+11 |
| 9.45E+11 | 6.28E-04 | 9.26E+06 | 1.35E-01 | 9.02E+11 |
| 9.35E+11 | 6.21E-04 | 9.16E+06 | 1.33E-01 | 8.94E+11 |
| 9.33E+11 | 6.20E-04 | 9.14E+06 | 1.33E-01 | 8.86E+11 |
| 9.18E+11 | 6.10E-04 | 8.99E+06 | 1.31E-01 | 8.77E+11 |
| 9.03E+11 | 6.00E-04 | 8.85E+06 | 1.28E-01 | 8.69E+11 |
| 8.88E+11 | 5.90E-04 | 8.70E+06 | 1.26E-01 | 8.55E+11 |
| 8.73E+11 | 5.80E-04 | 8.55E+06 | 1.24E-01 | 8.40E+11 |
| 8.58E+11 | 5.70E-04 | 8.40E+06 | 1.22E-01 | 8.26E+11 |
| 8.43E+11 | 5.60E-04 | 8.26E+06 | 1.20E-01 | 8.11E+11 |
| 8.28E+11 | 5.50E-04 | 8.11E+06 | 1.18E-01 | 7.97E+11 |
| 8.13E+11 | 5.40E-04 | 7.96E+06 | 1.16E-01 | 7.82E+11 |
| 7.98E+11 | 5.30E-04 | 7.82E+06 | 1.13E-01 | 7.68E+11 |
| 7.82E+11 | 5.20E-04 | 7.67E+06 | 1.11E-01 | 7.53E+11 |
| 7.67E+11 | 5.10E-04 | 7.52E+06 | 1.09E-01 | 7.39E+11 |
| 7.52E+11 | 5.00E-04 | 7.37E+06 | 1.07E-01 | 7.24E+11 |
| 7.37E+11 | 4.90E-04 | 7.23E+06 | 1.05E-01 | 7.10E+11 |
| 7.22E+11 | 4.80E-04 | 7.08E+06 | 1.03E-01 | 6.95E+11 |
| 7.07E+11 | 4.70E-04 | 6.93E+06 | 1.01E-01 | 6.81E+11 |
| 6.92E+11 | 4.60E-04 | 6.78E+06 | 9.85E-02 | 6.66E+11 |
| 6.77E+11 | 4.50E-04 | 6.64E+06 | 9.64E-02 | 6.52E+11 |
| 6.62E+11 | 4.40E-04 | 6.49E+06 | 9.42E-02 | 6.37E+11 |
| 6.47E+11 | 4.30E-04 | 6.34E+06 | 9.21E-02 | 6.23E+11 |
| 6.32E+11 | 4.20E-04 | 6.19E+06 | 8.99E-02 | 6.08E+11 |
| 6.17E+11 | 4.10E-04 | 6.05E+06 | 8.78E-02 | 5.94E+11 |
| 6.02E+11 | 4.00E-04 | 5.90E+06 | 8.57E-02 | 5.79E+11 |
| 5.87E+11 | 3.90E-04 | 5.75E+06 | 8.35E-02 | 5.65E+11 |
| 5.72E+11 | 3.80E-04 | 5.60E+06 | 8.14E-02 | 5.50E+11 |
| 5.57E+11 | 3.70E-04 | 5.46E+06 | 7.92E-02 | 5.36E+11 |
| 5.42E+11 | 3.60E-04 | 5.31E+06 | 7.71E-02 | 5.21E+11 |
| 5.27E+11 | 3.50E-04 | 5.16E+06 | 7.49E-02 | 5.07E+11 |
| 5.12E+11 | 3.40E-04 | 5.01E+06 | 7.28E-02 | 4.93E+11 |
| 4.97E+11 | 3.30E-04 | 4.87E+06 | 7.07E-02 | 4.78E+11 |
| 4.82E+11 | 3.20E-04 | 4.72E+06 | 6.85E-02 | 4.64E+11 |
| 4.67E+11 | 3.10E-04 | 4.57E+06 | 6.64E-02 | 4.49E+11 |
| 4.51E+11 | 3.00E-04 | 4.42E+06 | 6.42E-02 | 4.35E+11 |
| 4.36E+11 | 2.90E-04 | 4.28E+06 | 6.21E-02 | 4.20E+11 |
| 4.21E+11 | 2.80E-04 | 4.13E+06 | 6.00E-02 | 4.06E+11 |
| 4.06E+11 | 2.70E-04 | 3.98E+06 | 5.78E-02 | 3.91E+11 |
| 3.91E+11 | 2.60E-04 | 3.83E+06 | 5.57E-02 | 3.77E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 3.76E+11 | 2.50E-04 | 3.69E+06 | 5.35E-02 | 3.62E+11 |
| 3.61E+11 | 2.40E-04 | 3.54E+06 | 5.14E-02 | 3.48E+11 |
| 3.46E+11 | 2.30E-04 | 3.39E+06 | 4.93E-02 | 3.33E+11 |
| 3.31E+11 | 2.20E-04 | 3.24E+06 | 4.71E-02 | 3.19E+11 |
| 3.16E+11 | 2.10E-04 | 3.10E+06 | 4.50E-02 | 3.04E+11 |
| 3.01E+11 | 2.00E-04 | 2.95E+06 | 4.28E-02 | 2.90E+11 |
| 2.86E+11 | 1.90E-04 | 2.80E+06 | 4.07E-02 | 2.75E+11 |
| 2.71E+11 | 1.80E-04 | 2.65E+06 | 3.85E-02 | 2.61E+11 |
| 2.56E+11 | 1.70E-04 | 2.51E+06 | 3.64E-02 | 2.46E+11 |
| 2.41E+11 | 1.60E-04 | 2.36E+06 | 3.43E-02 | 2.32E+11 |
| 2.26E+11 | 1.50E-04 | 2.21E+06 | 3.21E-02 | 2.17E+11 |
| 2.11E+11 | 1.40E-04 | 2.06E+06 | 3.00E-02 | 2.03E+11 |
| 1.96E+11 | 1.30E-04 | 1.92E+06 | 2.78E-02 | 1.88E+11 |
| 1.81E+11 | 1.20E-04 | 1.77E+06 | 2.57E-02 | 1.74E+11 |
| 1.66E+11 | 1.10E-04 | 1.62E+06 | 2.36E-02 | 1.59E+11 |
| 1.51E+11 | 1.00E-04 | 1.47E+06 | 2.14E-02 | 1.45E+11 |
| 1.35E+11 | 9.00E-05 | 1.33E+06 | 1.93E-02 | 1.30E+11 |
| 1.20E+11 | 8.00E-05 | 1.18E+06 | 1.71E-02 | 1.16E+11 |
| 1.05E+11 | 7.00E-05 | 1.03E+06 | 1.50E-02 | 1.01E+11 |
| 9.03E+10 | 6.00E-05 | 8.85E+05 | 1.28E-02 | 8.69E+10 |
| 7.52E+10 | 5.00E-05 | 7.37E+05 | 1.07E-02 | 7.24E+10 |
| 6.02E+10 | 4.00E-05 | 5.90E+05 | 8.57E-03 | 5.79E+10 |
| 4.51E+10 | 3.00E-05 | 4.42E+05 | 6.42E-03 | 4.35E+10 |
| 3.01E+10 | 2.00E-05 | 2.95E+05 | 4.28E-03 | 2.90E+10 |
| 1.51E+10 | 1.00E-05 | 1.47E+05 | 2.14E-03 | 1.45E+10 |
| 1.35E+10 | 9.00E-06 | 1.33E+05 | 1.93E-03 | 1.30E+10 |
| 1.20E+10 | 8.00E-06 | 1.18E+05 | 1.71E-03 | 1.16E+10 |
| 1.05E+10 | 7.00E-06 | 1.03E+05 | 1.50E-03 | 1.01E+10 |
| 9.03E+09 | 6.00E-06 | 8.85E+04 | 1.28E-03 | 8.69E+09 |
| 7.53E+09 | 5.00E-06 | 7.37E+04 | 1.07E-03 | 7.24E+09 |
| 6.02E+09 | 4.00E-06 | 5.90E+04 | 8.57E-04 | 5.79E+09 |
| 4.52E+09 | 3.00E-06 | 4.42E+04 | 6.42E-04 | 4.35E+09 |
| 3.01E+09 | 2.00E-06 | 2.95E+04 | 4.28E-04 | 2.90E+09 |
| 1.51E+09 | 1.00E-06 | 1.47E+04 | 2.14E-04 | 1.45E+09 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.51E+09 | -1.00E-06 | -1.47E+04 | -2.14E-04 | -1.45E+09 |
| -3.01E+09 | -2.00E-06 | -2.95E+04 | -4.28E-04 | -2.90E+09 |
| -4.52E+09 | -3.00E-06 | -4.42E+04 | -6.42E-04 | -4.35E+09 |
| -6.02E+09 | -4.00E-06 | -5.90E+04 | -8.57E-04 | -5.79E+09 |
| -7.52E+09 | -5.00E-06 | -7.37E+04 | -1.07E-03 | -7.24E+09 |
| -9.03E+09 | -6.00E-06 | -8.85E+04 | -1.28E-03 | -8.69E+09 |
| -1.05E+10 | -7.00E-06 | -1.03E+05 | -1.50E-03 | -1.01E+10 |
| -1.20E+10 | -8.00E-06 | -1.18E+05 | -1.71E-03 | -1.16E+10 |
| -1.35E+10 | -9.00E-06 | -1.33E+05 | -1.93E-03 | -1.30E+10 |
| -1.51E+10 | -1.00E-05 | -1.47E+05 | -2.14E-03 | -1.45E+10 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -3.01E+10 | -2.00E-05 | -2.95E+05 | -4.28E-03 | -2.90E+10 |
| -4.51E+10 | -3.00E-05 | -4.42E+05 | -6.42E-03 | -4.35E+10 |
| -6.02E+10 | -4.00E-05 | -5.90E+05 | -8.57E-03 | -5.79E+10 |
| -7.52E+10 | -5.00E-05 | -7.37E+05 | -1.07E-02 | -7.24E+10 |
| -9.03E+10 | -6.00E-05 | -8.85E+05 | -1.28E-02 | -8.69E+10 |
| -1.05E+11 | -7.00E-05 | -1.03E+06 | -1.50E-02 | -1.01E+11 |
| -1.20E+11 | -8.00E-05 | -1.18E+06 | -1.71E-02 | -1.16E+11 |
| -1.35E+11 | -9.00E-05 | -1.33E+06 | -1.93E-02 | -1.30E+11 |
| -1.51E+11 | -1.00E-04 | -1.47E+06 | -2.14E-02 | -1.45E+11 |
| -1.66E+11 | -1.10E-04 | -1.62E+06 | -2.36E-02 | -1.59E+11 |
| -1.81E+11 | -1.20E-04 | -1.77E+06 | -2.57E-02 | -1.74E+11 |
| -1.96E+11 | -1.30E-04 | -1.92E+06 | -2.78E-02 | -1.88E+11 |
| -2.11E+11 | -1.40E-04 | -2.06E+06 | -3.00E-02 | -2.03E+11 |
| -2.26E+11 | -1.50E-04 | -2.21E+06 | -3.21E-02 | -2.17E+11 |
| -2.41E+11 | -1.60E-04 | -2.36E+06 | -3.43E-02 | -2.32E+11 |
| -2.56E+11 | -1.70E-04 | -2.51E+06 | -3.64E-02 | -2.46E+11 |
| -2.71E+11 | -1.80E-04 | -2.65E+06 | -3.85E-02 | -2.61E+11 |
| -2.86E+11 | -1.90E-04 | -2.80E+06 | -4.07E-02 | -2.75E+11 |
| -3.01E+11 | -2.00E-04 | -2.95E+06 | -4.28E-02 | -2.90E+11 |
| -3.16E+11 | -2.10E-04 | -3.10E+06 | -4.50E-02 | -3.04E+11 |
| -3.31E+11 | -2.20E-04 | -3.24E+06 | -4.71E-02 | -3.19E+11 |
| -3.46E+11 | -2.30E-04 | -3.39E+06 | -4.93E-02 | -3.33E+11 |
| -3.61E+11 | -2.40E-04 | -3.54E+06 | -5.14E-02 | -3.48E+11 |
| -3.76E+11 | -2.50E-04 | -3.69E+06 | -5.35E-02 | -3.62E+11 |
| -3.91E+11 | -2.60E-04 | -3.83E+06 | -5.57E-02 | -3.77E+11 |
| -4.06E+11 | -2.70E-04 | -3.98E+06 | -5.78E-02 | -3.91E+11 |
| -4.21E+11 | -2.80E-04 | -4.13E+06 | -6.00E-02 | -4.06E+11 |
| -4.36E+11 | -2.90E-04 | -4.28E+06 | -6.21E-02 | -4.20E+11 |
| -4.51E+11 | -3.00E-04 | -4.42E+06 | -6.42E-02 | -4.34E+11 |
| -4.66E+11 | -3.10E-04 | -4.57E+06 | -6.64E-02 | -4.49E+11 |
| -4.81E+11 | -3.20E-04 | -4.72E+06 | -6.85E-02 | -4.63E+11 |
| -4.97E+11 | -3.30E-04 | -4.87E+06 | -7.07E-02 | -4.78E+11 |
| -5.12E+11 | -3.40E-04 | -5.01E+06 | -7.28E-02 | -4.92E+11 |
| -5.27E+11 | -3.50E-04 | -5.16E+06 | -7.49E-02 | -5.07E+11 |
| -5.42E+11 | -3.60E-04 | -5.31E+06 | -7.71E-02 | -5.21E+11 |
| -5.57E+11 | -3.70E-04 | -5.45E+06 | -7.92E-02 | -5.36E+11 |
| -5.72E+11 | -3.80E-04 | -5.60E+06 | -8.14E-02 | -5.50E+11 |
| -5.87E+11 | -3.90E-04 | -5.75E+06 | -8.35E-02 | -5.65E+11 |
| -6.02E+11 | -4.00E-04 | -5.90E+06 | -8.57E-02 | -5.79E+11 |
| -6.17E+11 | -4.10E-04 | -6.04E+06 | -8.78E-02 | -5.94E+11 |
| -6.32E+11 | -4.20E-04 | -6.19E+06 | -8.99E-02 | -6.08E+11 |
| -6.47E+11 | -4.30E-04 | -6.34E+06 | -9.21E-02 | -6.23E+11 |
| -6.62E+11 | -4.40E-04 | -6.49E+06 | -9.42E-02 | -6.37E+11 |
| -6.77E+11 | -4.50E-04 | -6.63E+06 | -9.64E-02 | -6.52E+11 |
| -6.92E+11 | -4.60E-04 | -6.78E+06 | -9.85E-02 | -6.66E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -7.07E+11 | -4.70E-04 | -6.93E+06 | -1.01E-01 | -6.81E+11 |
| -7.22E+11 | -4.80E-04 | -7.08E+06 | -1.03E-01 | -6.95E+11 |
| -7.37E+11 | -4.90E-04 | -7.22E+06 | -1.05E-01 | -7.10E+11 |
| -7.52E+11 | -5.00E-04 | -7.37E+06 | -1.07E-01 | -7.24E+11 |
| -7.67E+11 | -5.10E-04 | -7.52E+06 | -1.09E-01 | -7.38E+11 |
| -7.82E+11 | -5.20E-04 | -7.67E+06 | -1.11E-01 | -7.53E+11 |
| -7.97E+11 | -5.30E-04 | -7.81E+06 | -1.13E-01 | -7.67E+11 |
| -8.12E+11 | -5.40E-04 | -7.96E+06 | -1.16E-01 | -7.82E+11 |
| -8.27E+11 | -5.50E-04 | -8.11E+06 | -1.18E-01 | -7.96E+11 |
| -8.42E+11 | -5.60E-04 | -8.25E+06 | -1.20E-01 | -8.10E+11 |
| -8.57E+11 | -5.70E-04 | -8.40E+06 | -1.22E-01 | -8.15E+11 |
| -8.70E+11 | -5.78E-04 | -8.52E+06 | -1.24E-01 | -8.29E+11 |
| -8.84E+11 | -5.88E-04 | -8.66E+06 | -1.26E-01 | -8.40E+11 |
| -8.95E+11 | -5.96E-04 | -8.77E+06 | -1.28E-01 | -8.46E+11 |
| -9.03E+11 | -6.03E-04 | -8.85E+06 | -1.29E-01 | -8.52E+11 |
| -9.09E+11 | -6.09E-04 | -8.91E+06 | -1.30E-01 | -8.57E+11 |
| -9.15E+11 | -6.16E-04 | -8.97E+06 | -1.32E-01 | -8.60E+11 |
| -9.20E+11 | -6.22E-04 | -9.01E+06 | -1.33E-01 | -8.62E+11 |
| -9.23E+11 | -6.28E-04 | -9.04E+06 | -1.34E-01 | -8.63E+11 |
| -9.24E+11 | -6.33E-04 | -9.05E+06 | -1.36E-01 | -8.65E+11 |
| -9.25E+11 | -6.43E-04 | -9.07E+06 | -1.38E-01 | -8.66E+11 |
| -9.27E+11 | -6.50E-04 | -9.08E+06 | -1.39E-01 | -8.66E+11 |
| -9.28E+11 | -6.57E-04 | -9.09E+06 | -1.41E-01 | -8.66E+11 |
| -9.28E+11 | -6.63E-04 | -9.09E+06 | -1.42E-01 | -8.67E+11 |
| -9.28E+11 | -6.68E-04 | -9.10E+06 | -1.43E-01 | -8.67E+11 |
| -9.28E+11 | -6.72E-04 | -9.10E+06 | -1.44E-01 | -8.67E+11 |
| -9.28E+11 | -6.77E-04 | -9.09E+06 | -1.45E-01 | -8.67E+11 |
| -9.27E+11 | -6.83E-04 | -9.09E+06 | -1.46E-01 | -8.66E+11 |
| -9.27E+11 | -6.87E-04 | -9.08E+06 | -1.47E-01 | -8.64E+11 |
| -9.24E+11 | -6.97E-04 | -9.05E+06 | -1.49E-01 | -8.60E+11 |
| -9.18E+11 | -7.07E-04 | -9.00E+06 | -1.51E-01 | -8.53E+11 |
| -9.10E+11 | -7.17E-04 | -8.92E+06 | -1.54E-01 | -8.51E+11 |
| -9.08E+11 | -7.18E-04 | -8.90E+06 | -1.54E-01 | -8.39E+11 |
| -8.95E+11 | -7.28E-04 | -8.77E+06 | -1.56E-01 | -8.38E+11 |
| -8.93E+11 | -7.30E-04 | -8.75E+06 | -1.56E-01 | -8.23E+11 |
| -8.77E+11 | -7.40E-04 | -8.60E+06 | -1.58E-01 | -8.13E+11 |
| -8.67E+11 | -7.47E-04 | -8.50E+06 | -1.60E-01 | -8.02E+11 |
| -8.55E+11 | -7.57E-04 | -8.38E+06 | -1.62E-01 | -7.99E+11 |
| -8.52E+11 | -7.60E-04 | -8.35E+06 | -1.63E-01 | -7.90E+11 |
| -8.43E+11 | -7.70E-04 | -8.26E+06 | -1.65E-01 | -7.83E+11 |
| -8.36E+11 | -7.80E-04 | -8.19E+06 | -1.67E-01 | -7.83E+11 |
| -8.35E+11 | -7.81E-04 | -8.19E+06 | -1.67E-01 | -7.77E+11 |
| -8.29E+11 | -7.91E-04 | -8.12E+06 | -1.69E-01 | -7.73E+11 |
| -8.25E+11 | -8.00E-04 | -8.08E+06 | -1.71E-01 | -7.68E+11 |
| -8.19E+11 | -8.10E-04 | -8.03E+06 | -1.73E-01 | -7.64E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -8.15E+11 | -8.20E-04 | -7.99E+06 | -1.75E-01 | -7.62E+11 |
| -8.13E+11 | -8.24E-04 | -7.97E+06 | -1.76E-01 | -7.60E+11 |
| -8.10E+11 | -8.31E-04 | -7.94E+06 | -1.78E-01 | -7.56E+11 |
| -8.06E+11 | -8.41E-04 | -7.89E+06 | -1.80E-01 | -7.52E+11 |
| -8.02E+11 | -8.51E-04 | -7.85E+06 | -1.82E-01 | -7.49E+11 |
| -7.98E+11 | -8.61E-04 | -7.82E+06 | -1.84E-01 | -7.48E+11 |
| -7.96E+11 | -8.64E-04 | -7.80E+06 | -1.85E-01 | -7.45E+11 |
| -7.93E+11 | -8.74E-04 | -7.77E+06 | -1.87E-01 | -7.44E+11 |
| -7.93E+11 | -8.75E-04 | -7.77E+06 | -1.87E-01 | -7.41E+11 |
| -7.89E+11 | -8.85E-04 | -7.73E+06 | -1.89E-01 | -7.37E+11 |
| -7.85E+11 | -8.95E-04 | -7.70E+06 | -1.92E-01 | -7.34E+11 |
| -7.82E+11 | -9.05E-04 | -7.66E+06 | -1.94E-01 | -7.31E+11 |
| -7.78E+11 | -9.15E-04 | -7.63E+06 | -1.96E-01 | -7.29E+11 |
| -7.76E+11 | -9.23E-04 | -7.60E+06 | -1.98E-01 | -7.27E+11 |
| -7.74E+11 | -9.30E-04 | -7.58E+06 | -1.99E-01 | -7.24E+11 |
| -7.71E+11 | -9.40E-04 | -7.55E+06 | -2.01E-01 | -7.21E+11 |
| -7.67E+11 | -9.50E-04 | -7.52E+06 | -2.03E-01 | -7.18E+11 |
| -7.64E+11 | -9.60E-04 | -7.49E+06 | -2.06E-01 | -7.15E+11 |
| -7.61E+11 | -9.70E-04 | -7.46E+06 | -2.08E-01 | -7.12E+11 |
| -7.58E+11 | -9.80E-04 | -7.43E+06 | -2.10E-01 | -7.10E+11 |
| -7.55E+11 | -9.90E-04 | -7.40E+06 | -2.12E-01 | -7.07E+11 |
| -7.55E+11 | -9.92E-04 | -7.40E+06 | -2.12E-01 | -7.07E+11 |
| -7.52E+11 | -1.00E-03 | -7.37E+06 | -2.14E-01 | -7.04E+11 |
| -7.50E+11 | -1.01E-03 | -7.35E+06 | -2.16E-01 | -7.02E+11 |
| -7.46E+11 | -1.02E-03 | -7.31E+06 | -2.18E-01 | -6.99E+11 |
| -7.44E+11 | -1.03E-03 | -7.29E+06 | -2.21E-01 | -6.96E+11 |
| -7.41E+11 | -1.04E-03 | -7.26E+06 | -2.23E-01 | -6.94E+11 |
| -7.38E+11 | -1.05E-03 | -7.23E+06 | -2.25E-01 | -6.91E+11 |
| -7.35E+11 | -1.06E-03 | -7.20E+06 | -2.27E-01 | -6.89E+11 |
| -7.33E+11 | -1.07E-03 | -7.18E+06 | -2.29E-01 | -6.88E+11 |
| -7.32E+11 | -1.07E-03 | -7.17E+06 | -2.30E-01 | -6.87E+11 |
| -7.30E+11 | -1.08E-03 | -7.15E+06 | -2.31E-01 | -6.84E+11 |
| -7.27E+11 | -1.09E-03 | -7.12E+06 | -2.33E-01 | -6.82E+11 |
| -7.24E+11 | -1.10E-03 | -7.10E+06 | -2.36E-01 | -6.79E+11 |
| -7.21E+11 | -1.11E-03 | -7.07E+06 | -2.38E-01 | -6.76E+11 |
| -7.19E+11 | -1.12E-03 | -7.04E+06 | -2.40E-01 | -6.74E+11 |
| -7.16E+11 | -1.13E-03 | -7.02E+06 | -2.42E-01 | -6.71E+11 |
| -7.13E+11 | -1.14E-03 | -6.99E+06 | -2.44E-01 | -6.69E+11 |
| -7.11E+11 | -1.15E-03 | -6.97E+06 | -2.46E-01 | -6.68E+11 |
| -7.09E+11 | -1.16E-03 | -6.95E+06 | -2.48E-01 | -6.65E+11 |
| -7.07E+11 | -1.17E-03 | -6.93E+06 | -2.50E-01 | -6.64E+11 |
| -7.06E+11 | -1.17E-03 | -6.91E+06 | -2.51E-01 | -6.62E+11 |
| -7.03E+11 | -1.18E-03 | -6.89E+06 | -2.53E-01 | -6.59E+11 |
| -7.00E+11 | -1.19E-03 | -6.86E+06 | -2.55E-01 | -6.57E+11 |
| -6.98E+11 | -1.20E-03 | -6.84E+06 | -2.57E-01 | -6.54E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -6.95E+11 | -1.21E-03 | -6.81E+06 | -2.59E-01 | -6.52E+11 |
| -6.93E+11 | -1.22E-03 | -6.79E+06 | -2.61E-01 | -6.50E+11 |
| -6.90E+11 | -1.23E-03 | -6.76E+06 | -2.64E-01 | -6.48E+11 |
| -6.88E+11 | -1.24E-03 | -6.74E+06 | -2.66E-01 | -6.45E+11 |
| -6.86E+11 | -1.25E-03 | -6.72E+06 | -2.68E-01 | -6.45E+11 |
| -6.85E+11 | -1.25E-03 | -6.71E+06 | -2.68E-01 | -6.43E+11 |
| -6.83E+11 | -1.26E-03 | -6.69E+06 | -2.70E-01 | -6.40E+11 |
| -6.80E+11 | -1.27E-03 | -6.67E+06 | -2.73E-01 | -6.40E+11 |
| -6.79E+11 | -1.28E-03 | -6.66E+06 | -2.74E-01 | -6.37E+11 |
| -6.77E+11 | -1.29E-03 | -6.63E+06 | -2.76E-01 | -6.35E+11 |
| -6.74E+11 | -1.30E-03 | -6.61E+06 | -2.78E-01 | -6.33E+11 |
| -6.72E+11 | -1.31E-03 | -6.58E+06 | -2.80E-01 | -6.31E+11 |
| -6.70E+11 | -1.32E-03 | -6.56E+06 | -2.82E-01 | -6.28E+11 |
| -6.67E+11 | -1.33E-03 | -6.54E+06 | -2.84E-01 | -6.26E+11 |
| -6.65E+11 | -1.34E-03 | -6.52E+06 | -2.87E-01 | -6.24E+11 |
| -6.63E+11 | -1.35E-03 | -6.50E+06 | -2.89E-01 | -6.22E+11 |
| -6.61E+11 | -1.36E-03 | -6.48E+06 | -2.91E-01 | -6.22E+11 |
| -6.61E+11 | -1.36E-03 | -6.47E+06 | -2.91E-01 | -6.20E+11 |
| -6.58E+11 | -1.37E-03 | -6.45E+06 | -2.93E-01 | -6.18E+11 |
| -6.56E+11 | -1.38E-03 | -6.43E+06 | -2.96E-01 | -6.16E+11 |
| -6.54E+11 | -1.39E-03 | -6.41E+06 | -2.98E-01 | -6.14E+11 |
| -6.52E+11 | -1.40E-03 | -6.39E+06 | -3.00E-01 | -6.12E+11 |
| -6.50E+11 | -1.41E-03 | -6.37E+06 | -3.02E-01 | -6.11E+11 |
| -6.48E+11 | -1.42E-03 | -6.35E+06 | -3.03E-01 | -6.09E+11 |
| -6.46E+11 | -1.43E-03 | -6.33E+06 | -3.05E-01 | -6.07E+11 |
| -6.44E+11 | -1.44E-03 | -6.31E+06 | -3.07E-01 | -6.05E+11 |
| -6.42E+11 | -1.45E-03 | -6.29E+06 | -3.10E-01 | -6.03E+11 |
| -6.40E+11 | -1.46E-03 | -6.27E+06 | -3.12E-01 | -6.01E+11 |
| -6.38E+11 | -1.47E-03 | -6.26E+06 | -3.14E-01 | -5.99E+11 |
| -6.36E+11 | -1.48E-03 | -6.24E+06 | -3.16E-01 | -5.98E+11 |
| -6.35E+11 | -1.49E-03 | -6.22E+06 | -3.18E-01 | -5.96E+11 |
| -6.33E+11 | -1.50E-03 | -6.20E+06 | -3.20E-01 | -5.94E+11 |
| -6.31E+11 | -1.51E-03 | -6.18E+06 | -3.22E-01 | -5.92E+11 |
| -6.29E+11 | -1.52E-03 | -6.16E+06 | -3.24E-01 | -5.90E+11 |
| -6.27E+11 | -1.53E-03 | -6.15E+06 | -3.27E-01 | -5.89E+11 |
| -6.25E+11 | -1.54E-03 | -6.13E+06 | -3.29E-01 | -5.87E+11 |
| -6.23E+11 | -1.55E-03 | -6.11E+06 | -3.31E-01 | -5.85E+11 |
| -6.22E+11 | -1.56E-03 | -6.09E+06 | -3.33E-01 | -5.83E+11 |
| -6.20E+11 | -1.57E-03 | -6.07E+06 | -3.35E-01 | -5.82E+11 |
| -6.18E+11 | -1.58E-03 | -6.06E+06 | -3.37E-01 | -5.80E+11 |
| -6.16E+11 | -1.59E-03 | -6.04E+06 | -3.39E-01 | -5.79E+11 |
| -6.15E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -5.78E+11 |
| -6.14E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -5.77E+11 |
| -6.12E+11 | -1.61E-03 | -6.00E+06 | -3.45E-01 | -5.75E+11 |
| -6.11E+11 | -1.62E-03 | -5.98E+06 | -3.47E-01 | -5.74E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -6.09E+11 | -1.63E-03 | -5.97E+06 | -3.49E-01 | -5.72E+11 |
| -6.07E+11 | -1.64E-03 | -5.95E+06 | -3.51E-01 | -5.70E+11 |
| -6.06E+11 | -1.65E-03 | -5.93E+06 | -3.53E-01 | -5.69E+11 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -5.69E+11 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -5.67E+11 |
| -6.02E+11 | -1.67E-03 | -5.90E+06 | -3.58E-01 | -5.65E+11 |
| -6.01E+11 | -1.68E-03 | -5.88E+06 | -3.60E-01 | -5.64E+11 |
| -5.99E+11 | -1.69E-03 | -5.87E+06 | -3.62E-01 | -5.62E+11 |
| -5.97E+11 | -1.70E-03 | -5.85E+06 | -3.64E-01 | -5.61E+11 |
| -5.96E+11 | -1.71E-03 | -5.84E+06 | -3.66E-01 | -5.59E+11 |
| -5.94E+11 | -1.72E-03 | -5.82E+06 | -3.68E-01 | -5.58E+11 |
| -5.92E+11 | -1.73E-03 | -5.80E+06 | -3.70E-01 | -5.56E+11 |
| -5.91E+11 | -1.74E-03 | -5.79E+06 | -3.73E-01 | -5.55E+11 |
| -5.89E+11 | -1.75E-03 | -5.78E+06 | -3.75E-01 | -5.53E+11 |
| -5.88E+11 | -1.76E-03 | -5.76E+06 | -3.77E-01 | -5.52E+11 |
| -5.86E+11 | -1.77E-03 | -5.75E+06 | -3.79E-01 | -5.51E+11 |
| -5.85E+11 | -1.78E-03 | -5.73E+06 | -3.81E-01 | -5.49E+11 |
| -5.84E+11 | -1.79E-03 | -5.72E+06 | -3.83E-01 | -5.49E+11 |
| -5.83E+11 | -1.80E-03 | -5.71E+06 | -3.85E-01 | -5.47E+11 |
| -5.81E+11 | -1.81E-03 | -5.70E+06 | -3.87E-01 | -5.46E+11 |
| -5.80E+11 | -1.82E-03 | -5.68E+06 | -3.89E-01 | -5.45E+11 |
| -5.78E+11 | -1.83E-03 | -5.67E+06 | -3.91E-01 | -5.43E+11 |
| -5.77E+11 | -1.84E-03 | -5.65E+06 | -3.93E-01 | -5.42E+11 |
| -5.76E+11 | -1.85E-03 | -5.64E+06 | -3.96E-01 | -5.41E+11 |
| -5.74E+11 | -1.86E-03 | -5.63E+06 | -3.98E-01 | -5.39E+11 |
| -5.73E+11 | -1.87E-03 | -5.62E+06 | -3.99E-01 | -5.38E+11 |
| -5.72E+11 | -1.88E-03 | -5.60E+06 | -4.01E-01 | -5.37E+11 |
| -5.70E+11 | -1.89E-03 | -5.59E+06 | -4.04E-01 | -5.35E+11 |
| -5.69E+11 | -1.90E-03 | -5.57E+06 | -4.06E-01 | -5.34E+11 |
| -5.67E+11 | -1.91E-03 | -5.56E+06 | -4.08E-01 | -5.33E+11 |
| -5.66E+11 | -1.92E-03 | -5.55E+06 | -4.10E-01 | -5.31E+11 |
| -5.65E+11 | -1.93E-03 | -5.53E+06 | -4.12E-01 | -5.30E+11 |
| -5.63E+11 | -1.94E-03 | -5.52E+06 | -4.14E-01 | -5.29E+11 |
| -5.62E+11 | -1.95E-03 | -5.51E+06 | -4.16E-01 | -5.28E+11 |
| -5.61E+11 | -1.96E-03 | -5.49E+06 | -4.19E-01 | -5.26E+11 |
| -5.59E+11 | -1.97E-03 | -5.48E+06 | -4.21E-01 | -5.25E+11 |
| -5.58E+11 | -1.98E-03 | -5.47E+06 | -4.23E-01 | -5.24E+11 |
| -5.57E+11 | -1.99E-03 | -5.46E+06 | -4.25E-01 | -5.23E+11 |
| -5.56E+11 | -2.00E-03 | -5.45E+06 | -4.27E-01 | -5.22E+11 |
| -5.55E+11 | -2.01E-03 | -5.43E+06 | -4.29E-01 | -5.21E+11 |
| -5.53E+11 | -2.02E-03 | -5.42E+06 | -4.31E-01 | -5.19E+11 |
| -5.52E+11 | -2.03E-03 | -5.41E+06 | -4.34E-01 | -5.18E+11 |
| -5.51E+11 | -2.04E-03 | -5.40E+06 | -4.36E-01 | -5.17E+11 |
| -5.50E+11 | -2.05E-03 | -5.39E+06 | -4.38E-01 | -5.17E+11 |
| -5.49E+11 | -2.05E-03 | -5.38E+06 | -4.39E-01 | -5.16E+11 |

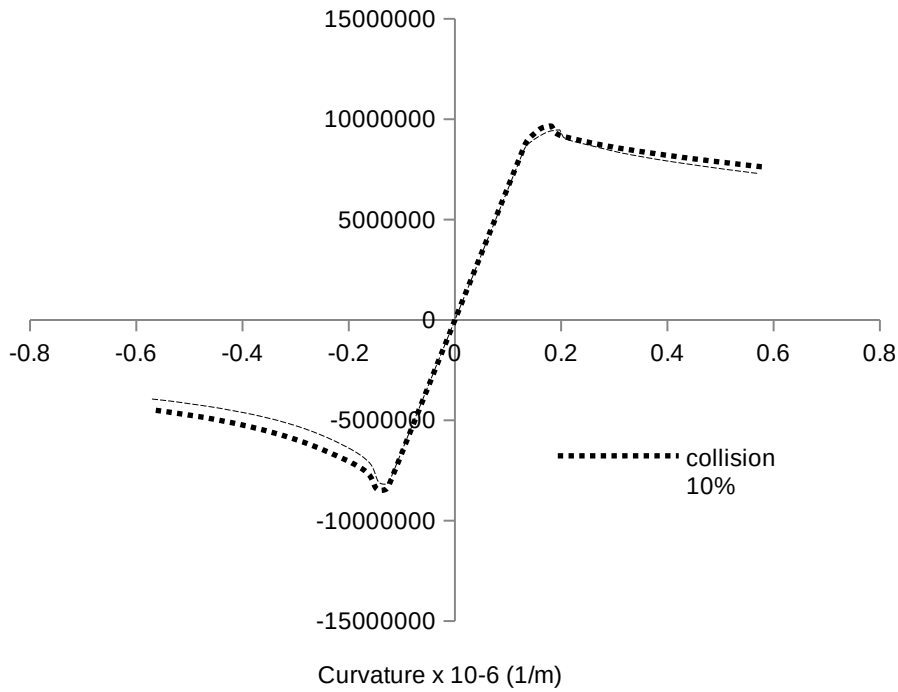
| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -5.48E+11 | -2.06E-03 | -5.37E+06 | -4.41E-01 | -5.15E+11 |
| -5.47E+11 | -2.07E-03 | -5.36E+06 | -4.43E-01 | -5.14E+11 |
| -5.46E+11 | -2.08E-03 | -5.35E+06 | -4.45E-01 | -5.13E+11 |
| -5.45E+11 | -2.09E-03 | -5.34E+06 | -4.47E-01 | -5.12E+11 |
| -5.44E+11 | -2.10E-03 | -5.33E+06 | -4.49E-01 | -5.10E+11 |
| -5.42E+11 | -2.11E-03 | -5.31E+06 | -4.52E-01 | -5.09E+11 |
| -5.41E+11 | -2.12E-03 | -5.30E+06 | -4.54E-01 | -5.08E+11 |
| -5.40E+11 | -2.13E-03 | -5.30E+06 | -4.55E-01 | -5.07E+11 |
| -5.39E+11 | -2.14E-03 | -5.28E+06 | -4.58E-01 | -5.06E+11 |
| -5.38E+11 | -2.15E-03 | -5.27E+06 | -4.60E-01 | -5.05E+11 |
| -5.37E+11 | -2.16E-03 | -5.26E+06 | -4.62E-01 | -5.04E+11 |
| -5.36E+11 | -2.17E-03 | -5.25E+06 | -4.64E-01 | -5.03E+11 |
| -5.35E+11 | -2.18E-03 | -5.24E+06 | -4.66E-01 | -5.02E+11 |
| -5.34E+11 | -2.19E-03 | -5.23E+06 | -4.68E-01 | -5.01E+11 |
| -5.33E+11 | -2.20E-03 | -5.22E+06 | -4.70E-01 | -5.00E+11 |
| -5.31E+11 | -2.21E-03 | -5.21E+06 | -4.73E-01 | -4.99E+11 |
| -5.30E+11 | -2.22E-03 | -5.20E+06 | -4.75E-01 | -4.98E+11 |
| -5.29E+11 | -2.23E-03 | -5.19E+06 | -4.77E-01 | -4.97E+11 |
| -5.28E+11 | -2.24E-03 | -5.18E+06 | -4.79E-01 | -4.96E+11 |
| -5.27E+11 | -2.25E-03 | -5.16E+06 | -4.81E-01 | -4.95E+11 |
| -5.26E+11 | -2.26E-03 | -5.15E+06 | -4.83E-01 | -4.94E+11 |
| -5.25E+11 | -2.27E-03 | -5.15E+06 | -4.85E-01 | -4.93E+11 |
| -5.24E+11 | -2.28E-03 | -5.14E+06 | -4.88E-01 | -4.92E+11 |
| -5.23E+11 | -2.29E-03 | -5.13E+06 | -4.90E-01 | -4.91E+11 |
| -5.22E+11 | -2.30E-03 | -5.12E+06 | -4.92E-01 | -4.90E+11 |
| -5.21E+11 | -2.31E-03 | -5.11E+06 | -4.94E-01 | -4.89E+11 |
| -5.20E+11 | -2.32E-03 | -5.10E+06 | -4.96E-01 | -4.88E+11 |
| -5.19E+11 | -2.33E-03 | -5.09E+06 | -4.98E-01 | -4.87E+11 |
| -5.19E+11 | -2.34E-03 | -5.08E+06 | -5.00E-01 | -4.86E+11 |
| -5.18E+11 | -2.35E-03 | -5.07E+06 | -5.03E-01 | -4.86E+11 |
| -5.17E+11 | -2.36E-03 | -5.06E+06 | -5.05E-01 | -4.85E+11 |
| -5.16E+11 | -2.37E-03 | -5.06E+06 | -5.07E-01 | -4.84E+11 |
| -5.15E+11 | -2.38E-03 | -5.05E+06 | -5.09E-01 | -4.84E+11 |
| -5.14E+11 | -2.39E-03 | -5.04E+06 | -5.11E-01 | -4.83E+11 |
| -5.14E+11 | -2.40E-03 | -5.03E+06 | -5.13E-01 | -4.82E+11 |
| -5.13E+11 | -2.41E-03 | -5.02E+06 | -5.15E-01 | -4.81E+11 |
| -5.12E+11 | -2.42E-03 | -5.01E+06 | -5.17E-01 | -4.80E+11 |
| -5.11E+11 | -2.43E-03 | -5.00E+06 | -5.19E-01 | -4.79E+11 |
| -5.10E+11 | -2.44E-03 | -5.00E+06 | -5.21E-01 | -4.79E+11 |
| -5.09E+11 | -2.45E-03 | -4.99E+06 | -5.24E-01 | -4.78E+11 |
| -5.08E+11 | -2.46E-03 | -4.98E+06 | -5.26E-01 | -4.77E+11 |
| -5.07E+11 | -2.47E-03 | -4.97E+06 | -5.28E-01 | -4.76E+11 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -4.76E+11 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -4.75E+11 |
| -5.05E+11 | -2.49E-03 | -4.95E+06 | -5.32E-01 | -4.74E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -5.05E+11 | -2.50E-03 | -4.94E+06 | -5.34E-01 | -4.73E+11 |
| -5.04E+11 | -2.51E-03 | -4.94E+06 | -5.36E-01 | -4.73E+11 |
| -5.03E+11 | -2.51E-03 | -4.93E+06 | -5.38E-01 | -4.72E+11 |
| -5.02E+11 | -2.52E-03 | -4.92E+06 | -5.40E-01 | -4.71E+11 |
| -5.01E+11 | -2.53E-03 | -4.91E+06 | -5.42E-01 | -4.70E+11 |
| -5.00E+11 | -2.54E-03 | -4.90E+06 | -5.45E-01 | -4.69E+11 |
| -4.99E+11 | -2.55E-03 | -4.89E+06 | -5.47E-01 | -4.68E+11 |
| -4.98E+11 | -2.56E-03 | -4.88E+06 | -5.49E-01 | -4.67E+11 |
| -4.98E+11 | -2.57E-03 | -4.88E+06 | -5.51E-01 | -4.67E+11 |
| -4.97E+11 | -2.58E-03 | -4.87E+06 | -5.53E-01 | -4.66E+11 |
| -4.96E+11 | -2.59E-03 | -4.86E+06 | -5.55E-01 | -4.65E+11 |
| -4.95E+11 | -2.60E-03 | -4.85E+06 | -5.57E-01 | -4.64E+11 |
| -4.94E+11 | -2.61E-03 | -4.84E+06 | -5.60E-01 | -4.63E+11 |
| -4.93E+11 | -2.62E-03 | -4.84E+06 | -5.62E-01 | -4.63E+11 |
| -4.93E+11 | -2.63E-03 | -4.83E+06 | -5.64E-01 | -4.62E+11 |
| -4.92E+11 | -2.64E-03 | -4.82E+06 | -5.66E-01 | -4.61E+11 |
| -4.91E+11 | -2.65E-03 | -4.81E+06 | -5.68E-01 | -4.60E+11 |
| -4.90E+11 | -2.66E-03 | -4.80E+06 | -5.70E-01 | -4.60E+11 |
| -4.89E+11 | -2.67E-03 | -4.80E+06 | -5.72E-01 | -4.59E+11 |

10% tubrukan

70% tubrukan

| 4670 | 9.80E-06 | 1.00E-06 | | | 4670 | 9.80E-06 |
|----------|----------|-----------|--|----------|----------|----------|
| Rotasi | Momen | Curvature | | Momen | Rotasi | Momen |
| 2.70E-03 | 7.63E+06 | 5.78E-01 | | 7.45E+11 | 2.66E-03 | 7.30E+06 |
| | | | | | E-03 | 7.31E+06 |
| | | | | | E-03 | 7.32E+06 |
| | | | | | E-03 | 7.32E+06 |
| | | | | | E-03 | 7.33E+06 |
| | | | | | E-03 | 7.34E+06 |
| | | | | | E-03 | 7.35E+06 |
| | | | | | E-03 | 7.35E+06 |
| | | | | | E-03 | 7.36E+06 |
| | | | | | E-03 | 7.37E+06 |
| | | | | | E-03 | 7.37E+06 |
| | | | | | E-03 | 7.38E+06 |
| | | | | | E-03 | 7.39E+06 |
| | | | | | E-03 | 7.39E+06 |
| | | | | | E-03 | 7.40E+06 |
| | | | | | E-03 | 7.41E+06 |
| | | | | | E-03 | 7.41E+06 |
| | | | | | E-03 | 7.42E+06 |
| | | | | | E-03 | 7.43E+06 |
| 2.51E-03 | 7.74E+06 | 5.38E-01 | | 7.59E+11 | 2.47E-03 | 7.44E+06 |
| 2.50E-03 | 7.75E+06 | 5.36E-01 | | 7.60E+11 | 2.46E-03 | 7.45E+06 |
| 2.49E-03 | 7.76E+06 | 5.34E-01 | | 7.60E+11 | 2.45E-03 | 7.45E+06 |
| 2.48E-03 | 7.77E+06 | 5.32E-01 | | 7.61E+11 | 2.44E-03 | 7.46E+06 |
| 2.47E-03 | 7.77E+06 | 5.30E-01 | | 7.62E+11 | 2.43E-03 | 7.46E+06 |
| 2.46E-03 | 7.78E+06 | 5.28E-01 | | 7.62E+11 | 2.42E-03 | 7.47E+06 |
| 2.45E-03 | 7.79E+06 | 5.25E-01 | | 7.63E+11 | 2.41E-03 | 7.48E+06 |
| 2.45E-03 | 7.79E+06 | 5.25E-01 | | 7.64E+11 | 2.40E-03 | 7.49E+06 |
| 2.44E-03 | 7.79E+06 | 5.23E-01 | | 7.65E+11 | 2.39E-03 | 7.49E+06 |
| 2.43E-03 | 7.80E+06 | 5.21E-01 | | 7.65E+11 | 2.38E-03 | 7.50E+06 |
| 2.42E-03 | 7.81E+06 | 5.19E-01 | | 7.66E+11 | 2.37E-03 | 7.51E+06 |
| 2.41E-03 | 7.81E+06 | 5.17E-01 | | 7.67E+11 | 2.36E-03 | 7.51E+06 |
| 2.40E-03 | 7.82E+06 | 5.15E-01 | | 7.68E+11 | 2.35E-03 | 7.52E+06 |
| 2.39E-03 | 7.83E+06 | 5.13E-01 | | 7.68E+11 | 2.34E-03 | 7.53E+06 |
| 2.38E-03 | 7.83E+06 | 5.10E-01 | | 7.69E+11 | 2.33E-03 | 7.54E+06 |
| 2.37E-03 | 7.84E+06 | 5.08E-01 | | 7.70E+11 | 2.32E-03 | 7.55E+06 |
| 2.36E-03 | 7.85E+06 | 5.06E-01 | | 7.71E+11 | 2.31E-03 | 7.55E+06 |
| 2.35E-03 | 7.85E+06 | 5.04E-01 | | 7.72E+11 | 2.30E-03 | 7.56E+06 |
| 2.34E-03 | 7.86E+06 | 5.02E-01 | | 7.72E+11 | 2.30E-03 | 7.57E+06 |
| 2.33E-03 | 7.87E+06 | 5.00E-01 | | 7.73E+11 | 2.29E-03 | 7.57E+06 |
| 2.32E-03 | 7.87E+06 | 4.98E-01 | | 7.74E+11 | 2.28E-03 | 7.58E+06 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 2.32E-03 | 7.88E+06 | 4.96E-01 | 7.74E+11 | 2.27E-03 | 7.59E+06 |
| 2.31E-03 | 7.88E+06 | 4.94E-01 | 7.75E+11 | 2.26E-03 | 7.60E+06 |
| 2.30E-03 | 7.89E+06 | 4.91E-01 | 7.76E+11 | 2.25E-03 | 7.60E+06 |
| 2.29E-03 | 7.90E+06 | 4.89E-01 | 7.77E+11 | 2.24E-03 | 7.61E+06 |
| 2.28E-03 | 7.90E+06 | 4.87E-01 | 7.78E+11 | 2.23E-03 | 7.62E+06 |
| 2.27E-03 | 7.91E+06 | 4.85E-01 | 7.78E+11 | 2.22E-03 | 7.63E+06 |
| 2.26E-03 | 7.92E+06 | 4.83E-01 | 7.79E+11 | 2.21E-03 | 7.64E+06 |
| 2.25E-03 | 7.92E+06 | 4.81E-01 | 7.80E+11 | 2.20E-03 | 7.64E+06 |
| 2.24E-03 | 7.93E+06 | 4.79E-01 | 7.80E+11 | 2.20E-03 | 7.65E+06 |
| 2.23E-03 | 7.94E+06 | 4.76E-01 | 7.81E+11 | 2.19E-03 | 7.65E+06 |
| 2.22E-03 | 7.94E+06 | 4.74E-01 | 7.82E+11 | 2.18E-03 | 7.66E+06 |
| 2.21E-03 | 7.95E+06 | 4.72E-01 | 7.83E+11 | 2.17E-03 | 7.67E+06 |
| 2.20E-03 | 7.96E+06 | 4.70E-01 | 7.83E+11 | 2.16E-03 | 7.68E+06 |
| 2.19E-03 | 7.97E+06 | 4.68E-01 | 7.84E+11 | 2.15E-03 | 7.68E+06 |
| 2.18E-03 | 7.98E+06 | 4.66E-01 | 7.85E+11 | 2.14E-03 | 7.69E+06 |
| 2.17E-03 | 7.98E+06 | 4.64E-01 | 7.86E+11 | 2.13E-03 | 7.70E+06 |
| 2.16E-03 | 7.99E+06 | 4.63E-01 | 7.87E+11 | 2.12E-03 | 7.71E+06 |
| 2.15E-03 | 7.99E+06 | 4.61E-01 | 7.87E+11 | 2.11E-03 | 7.72E+06 |
| 2.14E-03 | 8.00E+06 | 4.58E-01 | 7.88E+11 | 2.10E-03 | 7.72E+06 |
| 2.13E-03 | 8.00E+06 | 4.56E-01 | 7.89E+11 | 2.09E-03 | 7.73E+06 |
| 2.12E-03 | 8.01E+06 | 4.54E-01 | 7.90E+11 | 2.08E-03 | 7.74E+06 |
| 2.11E-03 | 8.02E+06 | 4.52E-01 | 7.91E+11 | 2.07E-03 | 7.75E+06 |
| 2.10E-03 | 8.03E+06 | 4.50E-01 | 7.92E+11 | 2.06E-03 | 7.76E+06 |
| 2.09E-03 | 8.03E+06 | 4.48E-01 | 7.92E+11 | 2.05E-03 | 7.76E+06 |
| 2.08E-03 | 8.04E+06 | 4.46E-01 | 7.93E+11 | 2.04E-03 | 7.77E+06 |
| 2.07E-03 | 8.05E+06 | 4.43E-01 | 7.94E+11 | 2.03E-03 | 7.78E+06 |
| 2.06E-03 | 8.05E+06 | 4.41E-01 | 7.95E+11 | 2.02E-03 | 7.79E+06 |
| 2.05E-03 | 8.06E+06 | 4.39E-01 | 7.96E+11 | 2.01E-03 | 7.80E+06 |
| 2.04E-03 | 8.07E+06 | 4.37E-01 | 7.97E+11 | 2.00E-03 | 7.81E+06 |
| 2.03E-03 | 8.07E+06 | 4.36E-01 | 7.98E+11 | 1.99E-03 | 7.82E+06 |
| 2.02E-03 | 8.08E+06 | 4.33E-01 | 7.98E+11 | 1.98E-03 | 7.82E+06 |
| 2.01E-03 | 8.09E+06 | 4.31E-01 | 7.99E+11 | 1.98E-03 | 7.83E+06 |
| 2.00E-03 | 8.09E+06 | 4.29E-01 | 7.99E+11 | 1.97E-03 | 7.83E+06 |
| 1.99E-03 | 8.10E+06 | 4.27E-01 | 8.00E+11 | 1.96E-03 | 7.84E+06 |
| 1.98E-03 | 8.11E+06 | 4.25E-01 | 8.01E+11 | 1.95E-03 | 7.85E+06 |
| 1.97E-03 | 8.12E+06 | 4.23E-01 | 8.02E+11 | 1.94E-03 | 7.86E+06 |
| 1.96E-03 | 8.13E+06 | 4.21E-01 | 8.03E+11 | 1.93E-03 | 7.87E+06 |
| 1.95E-03 | 8.13E+06 | 4.18E-01 | 8.04E+11 | 1.92E-03 | 7.88E+06 |
| 1.94E-03 | 8.14E+06 | 4.16E-01 | 8.05E+11 | 1.91E-03 | 7.89E+06 |
| 1.93E-03 | 8.15E+06 | 4.14E-01 | 8.06E+11 | 1.90E-03 | 7.89E+06 |
| 1.92E-03 | 8.16E+06 | 4.12E-01 | 8.06E+11 | 1.89E-03 | 7.90E+06 |
| 1.91E-03 | 8.17E+06 | 4.10E-01 | 8.07E+11 | 1.88E-03 | 7.91E+06 |
| 1.91E-03 | 8.17E+06 | 4.08E-01 | 8.08E+11 | 1.87E-03 | 7.92E+06 |
| 1.90E-03 | 8.18E+06 | 4.06E-01 | 8.09E+11 | 1.86E-03 | 7.93E+06 |
| 1.89E-03 | 8.18E+06 | 4.04E-01 | 8.10E+11 | 1.85E-03 | 7.93E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 1.88E-03 | 8.19E+06 | 4.02E-01 | 8.11E+11 | 1.84E-03 | 7.94E+06 |
| 1.87E-03 | 8.20E+06 | 4.00E-01 | 8.12E+11 | 1.83E-03 | 7.95E+06 |
| 1.86E-03 | 8.21E+06 | 3.97E-01 | 8.12E+11 | 1.82E-03 | 7.96E+06 |
| 1.85E-03 | 8.22E+06 | 3.95E-01 | 8.13E+11 | 1.81E-03 | 7.97E+06 |
| 1.84E-03 | 8.22E+06 | 3.93E-01 | 8.14E+11 | 1.80E-03 | 7.98E+06 |
| 1.83E-03 | 8.23E+06 | 3.91E-01 | 8.15E+11 | 1.79E-03 | 7.99E+06 |
| 1.82E-03 | 8.24E+06 | 3.89E-01 | 8.16E+11 | 1.78E-03 | 8.00E+06 |
| 1.81E-03 | 8.25E+06 | 3.87E-01 | 8.17E+11 | 1.77E-03 | 8.01E+06 |
| 1.80E-03 | 8.25E+06 | 3.86E-01 | 8.18E+11 | 1.76E-03 | 8.02E+06 |
| 1.79E-03 | 8.26E+06 | 3.84E-01 | 8.19E+11 | 1.75E-03 | 8.03E+06 |
| 1.78E-03 | 8.27E+06 | 3.81E-01 | 8.20E+11 | 1.74E-03 | 8.04E+06 |
| 1.77E-03 | 8.28E+06 | 3.79E-01 | 8.21E+11 | 1.73E-03 | 8.04E+06 |
| 1.76E-03 | 8.28E+06 | 3.77E-01 | 8.22E+11 | 1.72E-03 | 8.05E+06 |
| 1.75E-03 | 8.29E+06 | 3.75E-01 | 8.23E+11 | 1.71E-03 | 8.06E+06 |
| 1.74E-03 | 8.30E+06 | 3.73E-01 | 8.23E+11 | 1.71E-03 | 8.07E+06 |
| 1.73E-03 | 8.31E+06 | 3.71E-01 | 8.24E+11 | 1.70E-03 | 8.08E+06 |
| 1.72E-03 | 8.32E+06 | 3.69E-01 | 8.25E+11 | 1.69E-03 | 8.08E+06 |
| 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.26E+11 | 1.68E-03 | 8.09E+06 |
| 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.27E+11 | 1.67E-03 | 8.10E+06 |
| 1.70E-03 | 8.33E+06 | 3.64E-01 | 8.28E+11 | 1.66E-03 | 8.12E+06 |
| 1.69E-03 | 8.34E+06 | 3.62E-01 | 8.29E+11 | 1.65E-03 | 8.13E+06 |
| 1.68E-03 | 8.35E+06 | 3.60E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 |
| 1.67E-03 | 8.36E+06 | 3.58E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 |
| 1.66E-03 | 8.37E+06 | 3.55E-01 | 8.31E+11 | 1.63E-03 | 8.14E+06 |
| 1.65E-03 | 8.38E+06 | 3.53E-01 | 8.32E+11 | 1.62E-03 | 8.15E+06 |
| 1.64E-03 | 8.38E+06 | 3.51E-01 | 8.33E+11 | 1.61E-03 | 8.17E+06 |
| 1.63E-03 | 8.39E+06 | 3.49E-01 | 8.34E+11 | 1.60E-03 | 8.18E+06 |
| 1.62E-03 | 8.40E+06 | 3.47E-01 | 8.35E+11 | 1.59E-03 | 8.19E+06 |
| 1.62E-03 | 8.40E+06 | 3.46E-01 | 8.36E+11 | 1.58E-03 | 8.20E+06 |
| 1.61E-03 | 8.41E+06 | 3.44E-01 | 8.38E+11 | 1.57E-03 | 8.21E+06 |
| 1.60E-03 | 8.42E+06 | 3.42E-01 | 8.38E+11 | 1.56E-03 | 8.21E+06 |
| 1.59E-03 | 8.43E+06 | 3.40E-01 | 8.39E+11 | 1.55E-03 | 8.23E+06 |
| 1.58E-03 | 8.44E+06 | 3.38E-01 | 8.41E+11 | 1.54E-03 | 8.24E+06 |
| 1.57E-03 | 8.45E+06 | 3.36E-01 | 8.42E+11 | 1.53E-03 | 8.25E+06 |
| 1.56E-03 | 8.46E+06 | 3.34E-01 | 8.43E+11 | 1.52E-03 | 8.26E+06 |
| 1.55E-03 | 8.46E+06 | 3.31E-01 | 8.44E+11 | 1.51E-03 | 8.27E+06 |
| 1.54E-03 | 8.47E+06 | 3.29E-01 | 8.45E+11 | 1.50E-03 | 8.28E+06 |
| 1.53E-03 | 8.48E+06 | 3.27E-01 | 8.46E+11 | 1.49E-03 | 8.29E+06 |
| 1.52E-03 | 8.49E+06 | 3.25E-01 | 8.47E+11 | 1.48E-03 | 8.30E+06 |
| 1.51E-03 | 8.50E+06 | 3.23E-01 | 8.48E+11 | 1.47E-03 | 8.31E+06 |
| 1.50E-03 | 8.51E+06 | 3.21E-01 | 8.49E+11 | 1.46E-03 | 8.32E+06 |
| 1.49E-03 | 8.52E+06 | 3.19E-01 | 8.50E+11 | 1.45E-03 | 8.33E+06 |
| 1.48E-03 | 8.53E+06 | 3.17E-01 | 8.52E+11 | 1.44E-03 | 8.34E+06 |
| 1.47E-03 | 8.53E+06 | 3.15E-01 | 8.52E+11 | 1.44E-03 | 8.35E+06 |
| 1.46E-03 | 8.54E+06 | 3.13E-01 | 8.53E+11 | 1.43E-03 | 8.36E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 1.45E-03 | 8.55E+06 | 3.10E-01 | 8.55E+11 | 1.42E-03 | 8.37E+06 |
| 1.44E-03 | 8.56E+06 | 3.08E-01 | 8.56E+11 | 1.41E-03 | 8.39E+06 |
| 1.43E-03 | 8.57E+06 | 3.06E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 |
| 1.42E-03 | 8.58E+06 | 3.04E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 |
| 1.41E-03 | 8.59E+06 | 3.02E-01 | 8.59E+11 | 1.39E-03 | 8.41E+06 |
| 1.40E-03 | 8.60E+06 | 3.00E-01 | 8.60E+11 | 1.38E-03 | 8.43E+06 |
| 1.39E-03 | 8.61E+06 | 2.98E-01 | 8.61E+11 | 1.37E-03 | 8.44E+06 |
| 1.39E-03 | 8.62E+06 | 2.97E-01 | 8.63E+11 | 1.36E-03 | 8.46E+06 |
| 1.38E-03 | 8.62E+06 | 2.95E-01 | 8.64E+11 | 1.35E-03 | 8.47E+06 |
| 1.37E-03 | 8.63E+06 | 2.93E-01 | 8.66E+11 | 1.34E-03 | 8.48E+06 |
| 1.36E-03 | 8.64E+06 | 2.90E-01 | 8.66E+11 | 1.34E-03 | 8.49E+06 |
| 1.35E-03 | 8.66E+06 | 2.88E-01 | 8.67E+11 | 1.33E-03 | 8.50E+06 |
| 1.34E-03 | 8.67E+06 | 2.86E-01 | 8.69E+11 | 1.32E-03 | 8.51E+06 |
| 1.33E-03 | 8.68E+06 | 2.84E-01 | 8.70E+11 | 1.31E-03 | 8.53E+06 |
| 1.32E-03 | 8.69E+06 | 2.82E-01 | 8.71E+11 | 1.30E-03 | 8.54E+06 |
| 1.31E-03 | 8.70E+06 | 2.80E-01 | 8.72E+11 | 1.30E-03 | 8.54E+06 |
| 1.30E-03 | 8.71E+06 | 2.78E-01 | 8.73E+11 | 1.29E-03 | 8.56E+06 |
| 1.29E-03 | 8.72E+06 | 2.75E-01 | 8.75E+11 | 1.28E-03 | 8.57E+06 |
| 1.28E-03 | 8.73E+06 | 2.73E-01 | 8.76E+11 | 1.27E-03 | 8.58E+06 |
| 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.78E+11 | 1.26E-03 | 8.60E+06 |
| 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.79E+11 | 1.25E-03 | 8.62E+06 |
| 1.26E-03 | 8.75E+06 | 2.69E-01 | 8.79E+11 | 1.24E-03 | 8.62E+06 |
| 1.25E-03 | 8.76E+06 | 2.67E-01 | 8.81E+11 | 1.23E-03 | 8.63E+06 |
| 1.24E-03 | 8.78E+06 | 2.65E-01 | 8.82E+11 | 1.22E-03 | 8.64E+06 |
| 1.23E-03 | 8.79E+06 | 2.63E-01 | 8.83E+11 | 1.21E-03 | 8.66E+06 |
| 1.22E-03 | 8.80E+06 | 2.60E-01 | 8.85E+11 | 1.20E-03 | 8.67E+06 |
| 1.21E-03 | 8.81E+06 | 2.59E-01 | 8.86E+11 | 1.20E-03 | 8.68E+06 |
| 1.20E-03 | 8.82E+06 | 2.57E-01 | 8.87E+11 | 1.19E-03 | 8.69E+06 |
| 1.19E-03 | 8.83E+06 | 2.55E-01 | 8.89E+11 | 1.18E-03 | 8.71E+06 |
| 1.18E-03 | 8.84E+06 | 2.53E-01 | 8.90E+11 | 1.17E-03 | 8.72E+06 |
| 1.17E-03 | 8.85E+06 | 2.51E-01 | 8.91E+11 | 1.16E-03 | 8.74E+06 |
| 1.16E-03 | 8.87E+06 | 2.49E-01 | 8.93E+11 | 1.15E-03 | 8.75E+06 |
| 1.15E-03 | 8.88E+06 | 2.47E-01 | 8.94E+11 | 1.14E-03 | 8.76E+06 |
| 1.14E-03 | 8.89E+06 | 2.45E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 |
| 1.13E-03 | 8.90E+06 | 2.43E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 |
| 1.12E-03 | 8.91E+06 | 2.40E-01 | 8.97E+11 | 1.12E-03 | 8.79E+06 |
| 1.11E-03 | 8.93E+06 | 2.38E-01 | 8.98E+11 | 1.11E-03 | 8.80E+06 |
| 1.11E-03 | 8.93E+06 | 2.37E-01 | 9.00E+11 | 1.10E-03 | 8.82E+06 |
| 1.10E-03 | 8.94E+06 | 2.35E-01 | 9.02E+11 | 1.09E-03 | 8.83E+06 |
| 1.09E-03 | 8.96E+06 | 2.33E-01 | 9.03E+11 | 1.08E-03 | 8.85E+06 |
| 1.08E-03 | 8.97E+06 | 2.31E-01 | 9.04E+11 | 1.07E-03 | 8.85E+06 |
| 1.07E-03 | 8.99E+06 | 2.29E-01 | 9.05E+11 | 1.06E-03 | 8.87E+06 |
| 1.07E-03 | 8.99E+06 | 2.28E-01 | 9.07E+11 | 1.05E-03 | 8.88E+06 |
| 1.06E-03 | 9.00E+06 | 2.26E-01 | 9.07E+11 | 1.04E-03 | 8.89E+06 |
| 1.05E-03 | 9.02E+06 | 2.24E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 1.04E-03 | 9.03E+06 | 2.22E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 |
| 1.03E-03 | 9.04E+06 | 2.20E-01 | 9.11E+11 | 1.02E-03 | 8.92E+06 |
| 1.02E-03 | 9.05E+06 | 2.18E-01 | 9.12E+11 | 1.01E-03 | 8.94E+06 |
| 1.01E-03 | 9.07E+06 | 2.16E-01 | 9.14E+11 | 1.00E-03 | 8.96E+06 |
| 9.97E-04 | 9.08E+06 | 2.14E-01 | 9.16E+11 | 9.93E-04 | 8.98E+06 |
| 9.87E-04 | 9.10E+06 | 2.11E-01 | 9.19E+11 | 9.83E-04 | 9.01E+06 |
| 9.82E-04 | 9.10E+06 | 2.10E-01 | 9.20E+11 | 9.79E-04 | 9.02E+06 |
| 9.72E-04 | 9.12E+06 | 2.08E-01 | 9.23E+11 | 9.69E-04 | 9.05E+06 |
| 9.62E-04 | 9.13E+06 | 2.06E-01 | 9.24E+11 | 9.65E-04 | 9.06E+06 |
| 9.56E-04 | 9.14E+06 | 2.05E-01 | 9.27E+11 | 9.57E-04 | 9.09E+06 |
| 9.46E-04 | 9.16E+06 | 2.03E-01 | 9.29E+11 | 9.53E-04 | 9.11E+06 |
| 9.39E-04 | 9.17E+06 | 2.01E-01 | 9.40E+11 | 9.43E-04 | 9.21E+06 |
| 9.29E-04 | 9.19E+06 | 1.99E-01 | 9.53E+11 | 9.33E-04 | 9.34E+06 |
| 9.19E-04 | 9.21E+06 | 1.97E-01 | 9.54E+11 | 9.33E-04 | 9.35E+06 |
| 9.09E-04 | 9.23E+06 | 1.95E-01 | 9.65E+11 | 9.23E-04 | 9.45E+06 |
| 8.99E-04 | 9.27E+06 | 1.93E-01 | 9.66E+11 | 9.20E-04 | 9.47E+06 |
| 8.95E-04 | 9.28E+06 | 1.92E-01 | 9.66E+11 | 9.10E-04 | 9.46E+06 |
| 8.85E-04 | 9.32E+06 | 1.89E-01 | 9.65E+11 | 9.00E-04 | 9.46E+06 |
| 8.78E-04 | 9.35E+06 | 1.88E-01 | 9.65E+11 | 8.94E-04 | 9.46E+06 |
| 8.74E-04 | 9.37E+06 | 1.87E-01 | 9.64E+11 | 8.84E-04 | 9.45E+06 |
| 8.64E-04 | 9.50E+06 | 1.85E-01 | 9.63E+11 | 8.74E-04 | 9.44E+06 |
| 8.55E-04 | 9.60E+06 | 1.83E-01 | 9.63E+11 | 8.69E-04 | 9.44E+06 |
| 8.51E-04 | 9.65E+06 | 1.82E-01 | 9.62E+11 | 8.59E-04 | 9.43E+06 |
| 8.41E-04 | 9.66E+06 | 1.80E-01 | 9.61E+11 | 8.49E-04 | 9.42E+06 |
| 8.40E-04 | 9.66E+06 | 1.80E-01 | 9.61E+11 | 8.48E-04 | 9.42E+06 |
| 8.30E-04 | 9.65E+06 | 1.78E-01 | 9.60E+11 | 8.38E-04 | 9.41E+06 |
| 8.20E-04 | 9.64E+06 | 1.75E-01 | 9.58E+11 | 8.28E-04 | 9.39E+06 |
| 8.10E-04 | 9.63E+06 | 1.73E-01 | 9.56E+11 | 8.18E-04 | 9.37E+06 |
| 8.00E-04 | 9.62E+06 | 1.71E-01 | 9.55E+11 | 8.10E-04 | 9.35E+06 |
| 7.91E-04 | 9.61E+06 | 1.69E-01 | 9.52E+11 | 8.00E-04 | 9.33E+06 |
| 7.81E-04 | 9.59E+06 | 1.67E-01 | 9.49E+11 | 7.90E-04 | 9.30E+06 |
| 7.72E-04 | 9.58E+06 | 1.65E-01 | 9.47E+11 | 7.82E-04 | 9.28E+06 |
| 7.62E-04 | 9.56E+06 | 1.63E-01 | 9.44E+11 | 7.72E-04 | 9.25E+06 |
| 7.56E-04 | 9.54E+06 | 1.62E-01 | 9.41E+11 | 7.62E-04 | 9.22E+06 |
| 7.55E-04 | 9.54E+06 | 1.62E-01 | 9.38E+11 | 7.52E-04 | 9.19E+06 |
| 7.45E-04 | 9.50E+06 | 1.60E-01 | 9.34E+11 | 7.42E-04 | 9.16E+06 |
| 7.35E-04 | 9.45E+06 | 1.57E-01 | 9.32E+11 | 7.36E-04 | 9.14E+06 |
| 7.32E-04 | 9.44E+06 | 1.57E-01 | 9.29E+11 | 7.26E-04 | 9.10E+06 |
| 7.22E-04 | 9.40E+06 | 1.55E-01 | 9.25E+11 | 7.16E-04 | 9.07E+06 |
| 7.13E-04 | 9.35E+06 | 1.53E-01 | 9.21E+11 | 7.06E-04 | 9.03E+06 |
| 7.06E-04 | 9.32E+06 | 1.51E-01 | 9.18E+11 | 6.98E-04 | 9.00E+06 |
| 6.96E-04 | 9.27E+06 | 1.49E-01 | 9.16E+11 | 6.93E-04 | 8.98E+06 |
| 6.86E-04 | 9.22E+06 | 1.47E-01 | 9.12E+11 | 6.83E-04 | 8.94E+06 |
| 6.80E-04 | 9.19E+06 | 1.46E-01 | 9.08E+11 | 6.73E-04 | 8.90E+06 |
| 6.74E-04 | 9.16E+06 | 1.44E-01 | 9.05E+11 | 6.67E-04 | 8.87E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 6.68E-04 | 9.13E+06 | 1.43E-01 | 9.03E+11 | 6.62E-04 | 8.85E+06 |
| 6.59E-04 | 9.08E+06 | 1.41E-01 | 9.00E+11 | 6.57E-04 | 8.82E+06 |
| 6.51E-04 | 9.04E+06 | 1.39E-01 | 8.96E+11 | 6.48E-04 | 8.78E+06 |
| 6.46E-04 | 9.01E+06 | 1.38E-01 | 8.92E+11 | 6.40E-04 | 8.74E+06 |
| 6.40E-04 | 8.97E+06 | 1.37E-01 | 8.90E+11 | 6.35E-04 | 8.72E+06 |
| 6.35E-04 | 8.92E+06 | 1.36E-01 | 8.86E+11 | 6.30E-04 | 8.69E+06 |
| 6.26E-04 | 8.84E+06 | 1.34E-01 | 8.82E+11 | 6.25E-04 | 8.65E+06 |
| 6.19E-04 | 8.76E+06 | 1.33E-01 | 8.75E+11 | 6.16E-04 | 8.57E+06 |
| 6.12E-04 | 8.68E+06 | 1.31E-01 | 8.67E+11 | 6.10E-04 | 8.50E+06 |
| 6.06E-04 | 8.60E+06 | 1.30E-01 | 8.60E+11 | 6.03E-04 | 8.43E+06 |
| 6.00E-04 | 8.52E+06 | 1.28E-01 | 8.51E+11 | 5.97E-04 | 8.34E+06 |
| 5.90E-04 | 8.37E+06 | 1.26E-01 | 8.41E+11 | 5.90E-04 | 8.25E+06 |
| 5.80E-04 | 8.23E+06 | 1.24E-01 | 8.27E+11 | 5.80E-04 | 8.11E+06 |
| 5.70E-04 | 8.09E+06 | 1.22E-01 | 8.13E+11 | 5.70E-04 | 7.97E+06 |
| 5.60E-04 | 7.95E+06 | 1.20E-01 | 7.99E+11 | 5.60E-04 | 7.83E+06 |
| 5.50E-04 | 7.81E+06 | 1.18E-01 | 7.84E+11 | 5.50E-04 | 7.69E+06 |
| 5.40E-04 | 7.66E+06 | 1.16E-01 | 7.70E+11 | 5.40E-04 | 7.55E+06 |
| 5.30E-04 | 7.52E+06 | 1.13E-01 | 7.56E+11 | 5.30E-04 | 7.41E+06 |
| 5.20E-04 | 7.38E+06 | 1.11E-01 | 7.42E+11 | 5.20E-04 | 7.27E+06 |
| 5.10E-04 | 7.24E+06 | 1.09E-01 | 7.27E+11 | 5.10E-04 | 7.13E+06 |
| 5.00E-04 | 7.10E+06 | 1.07E-01 | 7.13E+11 | 5.00E-04 | 6.99E+06 |
| 4.90E-04 | 6.96E+06 | 1.05E-01 | 6.99E+11 | 4.90E-04 | 6.85E+06 |
| 4.80E-04 | 6.81E+06 | 1.03E-01 | 6.85E+11 | 4.80E-04 | 6.71E+06 |
| 4.70E-04 | 6.67E+06 | 1.01E-01 | 6.70E+11 | 4.70E-04 | 6.57E+06 |
| 4.60E-04 | 6.53E+06 | 9.85E-02 | 6.56E+11 | 4.60E-04 | 6.43E+06 |
| 4.50E-04 | 6.39E+06 | 9.64E-02 | 6.42E+11 | 4.50E-04 | 6.29E+06 |
| 4.40E-04 | 6.25E+06 | 9.42E-02 | 6.28E+11 | 4.40E-04 | 6.15E+06 |
| 4.30E-04 | 6.10E+06 | 9.21E-02 | 6.13E+11 | 4.30E-04 | 6.01E+06 |
| 4.20E-04 | 5.96E+06 | 8.99E-02 | 5.99E+11 | 4.20E-04 | 5.87E+06 |
| 4.10E-04 | 5.82E+06 | 8.78E-02 | 5.85E+11 | 4.10E-04 | 5.73E+06 |
| 4.00E-04 | 5.68E+06 | 8.57E-02 | 5.71E+11 | 4.00E-04 | 5.59E+06 |
| 3.90E-04 | 5.54E+06 | 8.35E-02 | 5.56E+11 | 3.90E-04 | 5.45E+06 |
| 3.80E-04 | 5.39E+06 | 8.14E-02 | 5.42E+11 | 3.80E-04 | 5.31E+06 |
| 3.70E-04 | 5.25E+06 | 7.92E-02 | 5.28E+11 | 3.70E-04 | 5.17E+06 |
| 3.60E-04 | 5.11E+06 | 7.71E-02 | 5.13E+11 | 3.60E-04 | 5.03E+06 |
| 3.50E-04 | 4.97E+06 | 7.49E-02 | 4.99E+11 | 3.50E-04 | 4.89E+06 |
| 3.40E-04 | 4.83E+06 | 7.28E-02 | 4.85E+11 | 3.40E-04 | 4.75E+06 |
| 3.30E-04 | 4.68E+06 | 7.07E-02 | 4.71E+11 | 3.30E-04 | 4.61E+06 |
| 3.20E-04 | 4.54E+06 | 6.85E-02 | 4.56E+11 | 3.20E-04 | 4.47E+06 |
| 3.10E-04 | 4.40E+06 | 6.64E-02 | 4.42E+11 | 3.10E-04 | 4.33E+06 |
| 3.00E-04 | 4.26E+06 | 6.42E-02 | 4.28E+11 | 3.00E-04 | 4.19E+06 |
| 2.90E-04 | 4.12E+06 | 6.21E-02 | 4.14E+11 | 2.90E-04 | 4.05E+06 |
| 2.80E-04 | 3.97E+06 | 6.00E-02 | 3.99E+11 | 2.80E-04 | 3.91E+06 |
| 2.70E-04 | 3.83E+06 | 5.78E-02 | 3.85E+11 | 2.70E-04 | 3.77E+06 |
| 2.60E-04 | 3.69E+06 | 5.57E-02 | 3.71E+11 | 2.60E-04 | 3.63E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 2.50E-04 | 3.55E+06 | 5.35E-02 | 3.57E+11 | 2.50E-04 | 3.49E+06 |
| 2.40E-04 | 3.41E+06 | 5.14E-02 | 3.42E+11 | 2.40E-04 | 3.35E+06 |
| 2.30E-04 | 3.26E+06 | 4.93E-02 | 3.28E+11 | 2.30E-04 | 3.21E+06 |
| 2.20E-04 | 3.12E+06 | 4.71E-02 | 3.14E+11 | 2.20E-04 | 3.08E+06 |
| 2.10E-04 | 2.98E+06 | 4.50E-02 | 3.00E+11 | 2.10E-04 | 2.94E+06 |
| 2.00E-04 | 2.84E+06 | 4.28E-02 | 2.85E+11 | 2.00E-04 | 2.79E+06 |
| 1.90E-04 | 2.70E+06 | 4.07E-02 | 2.71E+11 | 1.90E-04 | 2.66E+06 |
| 1.80E-04 | 2.55E+06 | 3.85E-02 | 2.57E+11 | 1.80E-04 | 2.52E+06 |
| 1.70E-04 | 2.41E+06 | 3.64E-02 | 2.43E+11 | 1.70E-04 | 2.38E+06 |
| 1.60E-04 | 2.27E+06 | 3.43E-02 | 2.28E+11 | 1.60E-04 | 2.24E+06 |
| 1.50E-04 | 2.13E+06 | 3.21E-02 | 2.14E+11 | 1.50E-04 | 2.10E+06 |
| 1.40E-04 | 1.99E+06 | 3.00E-02 | 2.00E+11 | 1.40E-04 | 1.96E+06 |
| 1.30E-04 | 1.85E+06 | 2.78E-02 | 1.85E+11 | 1.30E-04 | 1.82E+06 |
| 1.20E-04 | 1.70E+06 | 2.57E-02 | 1.71E+11 | 1.20E-04 | 1.68E+06 |
| 1.10E-04 | 1.56E+06 | 2.36E-02 | 1.57E+11 | 1.10E-04 | 1.54E+06 |
| 1.00E-04 | 1.42E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 | 1.40E+06 |
| 9.00E-05 | 1.28E+06 | 1.93E-02 | 1.28E+11 | 9.00E-05 | 1.26E+06 |
| 8.00E-05 | 1.14E+06 | 1.71E-02 | 1.14E+11 | 8.00E-05 | 1.12E+06 |
| 7.00E-05 | 9.94E+05 | 1.50E-02 | 9.98E+10 | 7.00E-05 | 9.78E+05 |
| 6.00E-05 | 8.52E+05 | 1.28E-02 | 8.56E+10 | 6.00E-05 | 8.39E+05 |
| 5.00E-05 | 7.10E+05 | 1.07E-02 | 7.13E+10 | 5.00E-05 | 6.99E+05 |
| 4.00E-05 | 5.68E+05 | 8.57E-03 | 5.71E+10 | 4.00E-05 | 5.59E+05 |
| 3.00E-05 | 4.26E+05 | 6.42E-03 | 4.28E+10 | 3.00E-05 | 4.19E+05 |
| 2.00E-05 | 2.84E+05 | 4.28E-03 | 2.85E+10 | 2.00E-05 | 2.79E+05 |
| 1.00E-05 | 1.42E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 | 1.40E+05 |
| 9.00E-06 | 1.28E+05 | 1.93E-03 | 1.28E+10 | 9.00E-06 | 1.26E+05 |
| 8.00E-06 | 1.14E+05 | 1.71E-03 | 1.14E+10 | 8.00E-06 | 1.12E+05 |
| 7.00E-06 | 9.94E+04 | 1.50E-03 | 9.98E+09 | 7.00E-06 | 9.78E+04 |
| 6.00E-06 | 8.52E+04 | 1.28E-03 | 8.56E+09 | 6.00E-06 | 8.39E+04 |
| 5.00E-06 | 7.10E+04 | 1.07E-03 | 7.13E+09 | 5.00E-06 | 6.99E+04 |
| 4.00E-06 | 5.68E+04 | 8.57E-04 | 5.71E+09 | 4.00E-06 | 5.59E+04 |
| 3.00E-06 | 4.26E+04 | 6.42E-04 | 4.28E+09 | 3.00E-06 | 4.19E+04 |
| 2.00E-06 | 2.84E+04 | 4.28E-04 | 2.85E+09 | 2.00E-06 | 2.80E+04 |
| 1.00E-06 | 1.42E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 | 1.40E+04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.00E-06 | -1.42E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 | -1.40E+04 |
| -2.00E-06 | -2.84E+04 | -4.28E-04 | -2.85E+09 | -2.00E-06 | -2.80E+04 |
| -3.00E-06 | -4.26E+04 | -6.42E-04 | -4.28E+09 | -3.00E-06 | -4.19E+04 |
| -4.00E-06 | -5.68E+04 | -8.57E-04 | -5.70E+09 | -4.00E-06 | -5.59E+04 |
| -5.00E-06 | -7.10E+04 | -1.07E-03 | -7.13E+09 | -5.00E-06 | -6.99E+04 |
| -6.00E-06 | -8.52E+04 | -1.28E-03 | -8.56E+09 | -6.00E-06 | -8.38E+04 |
| -7.00E-06 | -9.94E+04 | -1.50E-03 | -9.98E+09 | -7.00E-06 | -9.78E+04 |
| -8.00E-06 | -1.14E+05 | -1.71E-03 | -1.14E+10 | -8.00E-06 | -1.12E+05 |
| -9.00E-06 | -1.28E+05 | -1.93E-03 | -1.28E+10 | -9.00E-06 | -1.26E+05 |
| -1.00E-05 | -1.42E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 | -1.40E+05 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.00E-05 | -2.84E+05 | -4.28E-03 | -2.85E+10 | -2.00E-05 | -2.79E+05 |
| -3.00E-05 | -4.26E+05 | -6.42E-03 | -4.28E+10 | -3.00E-05 | -4.19E+05 |
| -4.00E-05 | -5.68E+05 | -8.57E-03 | -5.70E+10 | -4.00E-05 | -5.59E+05 |
| -5.00E-05 | -7.10E+05 | -1.07E-02 | -7.13E+10 | -5.00E-05 | -6.99E+05 |
| -6.00E-05 | -8.52E+05 | -1.28E-02 | -8.56E+10 | -6.00E-05 | -8.38E+05 |
| -7.00E-05 | -9.94E+05 | -1.50E-02 | -9.98E+10 | -7.00E-05 | -9.78E+05 |
| -8.00E-05 | -1.14E+06 | -1.71E-02 | -1.14E+11 | -8.00E-05 | -1.12E+06 |
| -9.00E-05 | -1.28E+06 | -1.93E-02 | -1.28E+11 | -9.00E-05 | -1.26E+06 |
| -1.00E-04 | -1.42E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 | -1.40E+06 |
| -1.10E-04 | -1.56E+06 | -2.36E-02 | -1.57E+11 | -1.10E-04 | -1.54E+06 |
| -1.20E-04 | -1.70E+06 | -2.57E-02 | -1.71E+11 | -1.20E-04 | -1.68E+06 |
| -1.30E-04 | -1.85E+06 | -2.78E-02 | -1.85E+11 | -1.30E-04 | -1.82E+06 |
| -1.40E-04 | -1.99E+06 | -3.00E-02 | -2.00E+11 | -1.40E-04 | -1.96E+06 |
| -1.50E-04 | -2.13E+06 | -3.21E-02 | -2.14E+11 | -1.50E-04 | -2.10E+06 |
| -1.60E-04 | -2.27E+06 | -3.43E-02 | -2.28E+11 | -1.60E-04 | -2.24E+06 |
| -1.70E-04 | -2.41E+06 | -3.64E-02 | -2.42E+11 | -1.70E-04 | -2.38E+06 |
| -1.80E-04 | -2.55E+06 | -3.85E-02 | -2.57E+11 | -1.80E-04 | -2.51E+06 |
| -1.90E-04 | -2.70E+06 | -4.07E-02 | -2.71E+11 | -1.90E-04 | -2.65E+06 |
| -2.00E-04 | -2.84E+06 | -4.28E-02 | -2.85E+11 | -2.00E-04 | -2.79E+06 |
| -2.10E-04 | -2.98E+06 | -4.50E-02 | -2.99E+11 | -2.10E-04 | -2.93E+06 |
| -2.20E-04 | -3.12E+06 | -4.71E-02 | -3.14E+11 | -2.20E-04 | -3.07E+06 |
| -2.30E-04 | -3.26E+06 | -4.93E-02 | -3.28E+11 | -2.30E-04 | -3.21E+06 |
| -2.40E-04 | -3.41E+06 | -5.14E-02 | -3.42E+11 | -2.40E-04 | -3.35E+06 |
| -2.50E-04 | -3.55E+06 | -5.35E-02 | -3.56E+11 | -2.50E-04 | -3.49E+06 |
| -2.60E-04 | -3.69E+06 | -5.57E-02 | -3.71E+11 | -2.60E-04 | -3.63E+06 |
| -2.70E-04 | -3.83E+06 | -5.78E-02 | -3.85E+11 | -2.70E-04 | -3.77E+06 |
| -2.80E-04 | -3.97E+06 | -6.00E-02 | -3.99E+11 | -2.80E-04 | -3.91E+06 |
| -2.90E-04 | -4.12E+06 | -6.21E-02 | -4.14E+11 | -2.90E-04 | -4.05E+06 |
| -3.00E-04 | -4.26E+06 | -6.42E-02 | -4.28E+11 | -3.00E-04 | -4.19E+06 |
| -3.10E-04 | -4.40E+06 | -6.64E-02 | -4.42E+11 | -3.10E-04 | -4.33E+06 |
| -3.20E-04 | -4.54E+06 | -6.85E-02 | -4.56E+11 | -3.20E-04 | -4.47E+06 |
| -3.30E-04 | -4.68E+06 | -7.07E-02 | -4.71E+11 | -3.30E-04 | -4.61E+06 |
| -3.40E-04 | -4.82E+06 | -7.28E-02 | -4.85E+11 | -3.40E-04 | -4.75E+06 |
| -3.50E-04 | -4.97E+06 | -7.49E-02 | -4.99E+11 | -3.50E-04 | -4.89E+06 |
| -3.60E-04 | -5.11E+06 | -7.71E-02 | -5.13E+11 | -3.60E-04 | -5.03E+06 |
| -3.70E-04 | -5.25E+06 | -7.92E-02 | -5.28E+11 | -3.70E-04 | -5.17E+06 |
| -3.80E-04 | -5.39E+06 | -8.14E-02 | -5.42E+11 | -3.80E-04 | -5.31E+06 |
| -3.90E-04 | -5.53E+06 | -8.35E-02 | -5.56E+11 | -3.90E-04 | -5.45E+06 |
| -4.00E-04 | -5.68E+06 | -8.57E-02 | -5.70E+11 | -4.00E-04 | -5.59E+06 |
| -4.10E-04 | -5.82E+06 | -8.78E-02 | -5.85E+11 | -4.10E-04 | -5.73E+06 |
| -4.20E-04 | -5.96E+06 | -8.99E-02 | -5.99E+11 | -4.20E-04 | -5.87E+06 |
| -4.30E-04 | -6.10E+06 | -9.21E-02 | -6.13E+11 | -4.30E-04 | -6.01E+06 |
| -4.40E-04 | -6.24E+06 | -9.42E-02 | -6.27E+11 | -4.40E-04 | -6.15E+06 |
| -4.50E-04 | -6.39E+06 | -9.64E-02 | -6.42E+11 | -4.50E-04 | -6.29E+06 |
| -4.60E-04 | -6.53E+06 | -9.85E-02 | -6.56E+11 | -4.60E-04 | -6.43E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.70E-04 | -6.67E+06 | -1.01E-01 | -6.70E+11 | -4.70E-04 | -6.57E+06 |
| -4.80E-04 | -6.81E+06 | -1.03E-01 | -6.84E+11 | -4.80E-04 | -6.71E+06 |
| -4.90E-04 | -6.95E+06 | -1.05E-01 | -6.99E+11 | -4.90E-04 | -6.85E+06 |
| -5.00E-04 | -7.09E+06 | -1.07E-01 | -7.13E+11 | -5.00E-04 | -6.99E+06 |
| -5.10E-04 | -7.24E+06 | -1.09E-01 | -7.27E+11 | -5.10E-04 | -7.12E+06 |
| -5.20E-04 | -7.38E+06 | -1.11E-01 | -7.41E+11 | -5.20E-04 | -7.26E+06 |
| -5.30E-04 | -7.52E+06 | -1.13E-01 | -7.56E+11 | -5.30E-04 | -7.40E+06 |
| -5.40E-04 | -7.66E+06 | -1.16E-01 | -7.70E+11 | -5.40E-04 | -7.54E+06 |
| -5.50E-04 | -7.80E+06 | -1.18E-01 | -7.84E+11 | -5.50E-04 | -7.68E+06 |
| -5.60E-04 | -7.94E+06 | -1.20E-01 | -7.91E+11 | -5.55E-04 | -7.75E+06 |
| -5.64E-04 | -7.99E+06 | -1.21E-01 | -8.04E+11 | -5.65E-04 | -7.88E+06 |
| -5.74E-04 | -8.13E+06 | -1.23E-01 | -8.14E+11 | -5.73E-04 | -7.98E+06 |
| -5.81E-04 | -8.23E+06 | -1.24E-01 | -8.20E+11 | -5.78E-04 | -8.04E+06 |
| -5.87E-04 | -8.29E+06 | -1.26E-01 | -8.26E+11 | -5.84E-04 | -8.09E+06 |
| -5.93E-04 | -8.35E+06 | -1.27E-01 | -8.30E+11 | -5.90E-04 | -8.13E+06 |
| -5.99E-04 | -8.39E+06 | -1.28E-01 | -8.33E+11 | -5.95E-04 | -8.16E+06 |
| -6.05E-04 | -8.43E+06 | -1.30E-01 | -8.35E+11 | -6.01E-04 | -8.18E+06 |
| -6.11E-04 | -8.45E+06 | -1.31E-01 | -8.35E+11 | -6.05E-04 | -8.18E+06 |
| -6.15E-04 | -8.46E+06 | -1.32E-01 | -8.35E+11 | -6.15E-04 | -8.18E+06 |
| -6.25E-04 | -8.47E+06 | -1.34E-01 | -8.35E+11 | -6.21E-04 | -8.18E+06 |
| -6.32E-04 | -8.48E+06 | -1.35E-01 | -8.35E+11 | -6.25E-04 | -8.18E+06 |
| -6.37E-04 | -8.49E+06 | -1.36E-01 | -8.35E+11 | -6.30E-04 | -8.18E+06 |
| -6.42E-04 | -8.49E+06 | -1.37E-01 | -8.34E+11 | -6.37E-04 | -8.18E+06 |
| -6.50E-04 | -8.50E+06 | -1.39E-01 | -8.34E+11 | -6.41E-04 | -8.17E+06 |
| -6.54E-04 | -8.50E+06 | -1.40E-01 | -8.33E+11 | -6.46E-04 | -8.17E+06 |
| -6.59E-04 | -8.50E+06 | -1.41E-01 | -8.32E+11 | -6.51E-04 | -8.16E+06 |
| -6.64E-04 | -8.49E+06 | -1.42E-01 | -8.29E+11 | -6.61E-04 | -8.13E+06 |
| -6.69E-04 | -8.49E+06 | -1.43E-01 | -8.24E+11 | -6.71E-04 | -8.08E+06 |
| -6.79E-04 | -8.47E+06 | -1.45E-01 | -8.16E+11 | -6.81E-04 | -8.00E+06 |
| -6.89E-04 | -8.43E+06 | -1.47E-01 | -8.14E+11 | -6.83E-04 | -7.97E+06 |
| -6.99E-04 | -8.35E+06 | -1.50E-01 | -8.00E+11 | -6.92E-04 | -7.84E+06 |
| -7.00E-04 | -8.34E+06 | -1.50E-01 | -7.82E+11 | -7.02E-04 | -7.66E+06 |
| -7.10E-04 | -8.22E+06 | -1.52E-01 | -7.73E+11 | -7.08E-04 | -7.57E+06 |
| -7.11E-04 | -8.21E+06 | -1.52E-01 | -7.58E+11 | -7.18E-04 | -7.43E+06 |
| -7.21E-04 | -8.07E+06 | -1.54E-01 | -7.57E+11 | -7.18E-04 | -7.42E+06 |
| -7.28E-04 | -7.97E+06 | -1.56E-01 | -7.46E+11 | -7.28E-04 | -7.31E+06 |
| -7.38E-04 | -7.85E+06 | -1.58E-01 | -7.37E+11 | -7.37E-04 | -7.22E+06 |
| -7.41E-04 | -7.83E+06 | -1.59E-01 | -7.30E+11 | -7.47E-04 | -7.15E+06 |
| -7.51E-04 | -7.74E+06 | -1.61E-01 | -7.27E+11 | -7.52E-04 | -7.12E+06 |
| -7.61E-04 | -7.68E+06 | -1.63E-01 | -7.20E+11 | -7.62E-04 | -7.06E+06 |
| -7.62E-04 | -7.67E+06 | -1.63E-01 | -7.15E+11 | -7.72E-04 | -7.00E+06 |
| -7.72E-04 | -7.61E+06 | -1.65E-01 | -7.13E+11 | -7.75E-04 | -6.99E+06 |
| -7.79E-04 | -7.58E+06 | -1.67E-01 | -7.08E+11 | -7.85E-04 | -6.94E+06 |
| -7.89E-04 | -7.53E+06 | -1.69E-01 | -7.03E+11 | -7.95E-04 | -6.89E+06 |
| -7.99E-04 | -7.49E+06 | -1.71E-01 | -6.99E+11 | -8.05E-04 | -6.85E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.04E-04 | -7.47E+06 | -1.72E-01 | -6.98E+11 | -8.07E-04 | -6.84E+06 |
| -8.10E-04 | -7.45E+06 | -1.73E-01 | -6.93E+11 | -8.17E-04 | -6.79E+06 |
| -8.20E-04 | -7.41E+06 | -1.75E-01 | -6.92E+11 | -8.20E-04 | -6.78E+06 |
| -8.30E-04 | -7.37E+06 | -1.78E-01 | -6.88E+11 | -8.30E-04 | -6.74E+06 |
| -8.40E-04 | -7.34E+06 | -1.80E-01 | -6.84E+11 | -8.40E-04 | -6.70E+06 |
| -8.42E-04 | -7.33E+06 | -1.80E-01 | -6.80E+11 | -8.50E-04 | -6.66E+06 |
| -8.52E-04 | -7.30E+06 | -1.82E-01 | -6.77E+11 | -8.59E-04 | -6.63E+06 |
| -8.54E-04 | -7.29E+06 | -1.83E-01 | -6.73E+11 | -8.69E-04 | -6.60E+06 |
| -8.64E-04 | -7.26E+06 | -1.85E-01 | -6.73E+11 | -8.70E-04 | -6.59E+06 |
| -8.74E-04 | -7.22E+06 | -1.87E-01 | -6.69E+11 | -8.80E-04 | -6.56E+06 |
| -8.84E-04 | -7.19E+06 | -1.89E-01 | -6.66E+11 | -8.90E-04 | -6.53E+06 |
| -8.94E-04 | -7.16E+06 | -1.91E-01 | -6.63E+11 | -9.00E-04 | -6.49E+06 |
| -9.00E-04 | -7.15E+06 | -1.93E-01 | -6.59E+11 | -9.10E-04 | -6.46E+06 |
| -9.09E-04 | -7.12E+06 | -1.95E-01 | -6.56E+11 | -9.20E-04 | -6.43E+06 |
| -9.19E-04 | -7.09E+06 | -1.97E-01 | -6.56E+11 | -9.21E-04 | -6.43E+06 |
| -9.29E-04 | -7.06E+06 | -1.99E-01 | -6.53E+11 | -9.31E-04 | -6.40E+06 |
| -9.39E-04 | -7.03E+06 | -2.01E-01 | -6.52E+11 | -9.34E-04 | -6.39E+06 |
| -9.49E-04 | -7.01E+06 | -2.03E-01 | -6.49E+11 | -9.44E-04 | -6.36E+06 |
| -9.59E-04 | -6.98E+06 | -2.05E-01 | -6.46E+11 | -9.54E-04 | -6.33E+06 |
| -9.68E-04 | -6.96E+06 | -2.07E-01 | -6.43E+11 | -9.64E-04 | -6.30E+06 |
| -9.78E-04 | -6.93E+06 | -2.09E-01 | -6.40E+11 | -9.74E-04 | -6.27E+06 |
| -9.78E-04 | -6.93E+06 | -2.09E-01 | -6.37E+11 | -9.84E-04 | -6.24E+06 |
| -9.88E-04 | -6.90E+06 | -2.12E-01 | -6.34E+11 | -9.94E-04 | -6.21E+06 |
| -9.98E-04 | -6.88E+06 | -2.14E-01 | -6.32E+11 | -1.00E-03 | -6.20E+06 |
| -1.01E-03 | -6.85E+06 | -2.16E-01 | -6.29E+11 | -1.01E-03 | -6.17E+06 |
| -1.02E-03 | -6.82E+06 | -2.18E-01 | -6.26E+11 | -1.02E-03 | -6.14E+06 |
| -1.03E-03 | -6.80E+06 | -2.20E-01 | -6.23E+11 | -1.03E-03 | -6.11E+06 |
| -1.04E-03 | -6.77E+06 | -2.22E-01 | -6.20E+11 | -1.04E-03 | -6.08E+06 |
| -1.05E-03 | -6.75E+06 | -2.24E-01 | -6.18E+11 | -1.05E-03 | -6.05E+06 |
| -1.05E-03 | -6.74E+06 | -2.25E-01 | -6.15E+11 | -1.06E-03 | -6.03E+06 |
| -1.06E-03 | -6.73E+06 | -2.26E-01 | -6.12E+11 | -1.07E-03 | -6.00E+06 |
| -1.07E-03 | -6.71E+06 | -2.28E-01 | -6.11E+11 | -1.08E-03 | -5.99E+06 |
| -1.08E-03 | -6.68E+06 | -2.30E-01 | -6.09E+11 | -1.08E-03 | -5.97E+06 |
| -1.09E-03 | -6.65E+06 | -2.33E-01 | -6.06E+11 | -1.09E-03 | -5.94E+06 |
| -1.10E-03 | -6.63E+06 | -2.35E-01 | -6.04E+11 | -1.10E-03 | -5.91E+06 |
| -1.11E-03 | -6.60E+06 | -2.37E-01 | -6.01E+11 | -1.11E-03 | -5.89E+06 |
| -1.12E-03 | -6.58E+06 | -2.39E-01 | -5.98E+11 | -1.12E-03 | -5.86E+06 |
| -1.13E-03 | -6.56E+06 | -2.41E-01 | -5.96E+11 | -1.13E-03 | -5.84E+06 |
| -1.13E-03 | -6.54E+06 | -2.42E-01 | -5.93E+11 | -1.14E-03 | -5.81E+06 |
| -1.14E-03 | -6.52E+06 | -2.45E-01 | -5.91E+11 | -1.15E-03 | -5.79E+06 |
| -1.15E-03 | -6.51E+06 | -2.45E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 |
| -1.16E-03 | -6.48E+06 | -2.47E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 |
| -1.17E-03 | -6.46E+06 | -2.49E-01 | -5.86E+11 | -1.17E-03 | -5.74E+06 |
| -1.18E-03 | -6.44E+06 | -2.52E-01 | -5.84E+11 | -1.18E-03 | -5.73E+06 |
| -1.19E-03 | -6.41E+06 | -2.54E-01 | -5.82E+11 | -1.19E-03 | -5.70E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -1.20E-03 | -6.39E+06 | -2.56E-01 | -5.80E+11 | -1.20E-03 | -5.68E+06 |
| -1.21E-03 | -6.37E+06 | -2.58E-01 | -5.77E+11 | -1.21E-03 | -5.66E+06 |
| -1.22E-03 | -6.35E+06 | -2.60E-01 | -5.75E+11 | -1.22E-03 | -5.63E+06 |
| -1.23E-03 | -6.32E+06 | -2.62E-01 | -5.73E+11 | -1.23E-03 | -5.61E+06 |
| -1.23E-03 | -6.32E+06 | -2.63E-01 | -5.70E+11 | -1.24E-03 | -5.59E+06 |
| -1.24E-03 | -6.30E+06 | -2.65E-01 | -5.68E+11 | -1.25E-03 | -5.57E+06 |
| -1.25E-03 | -6.27E+06 | -2.67E-01 | -5.66E+11 | -1.26E-03 | -5.55E+06 |
| -1.25E-03 | -6.27E+06 | -2.68E-01 | -5.66E+11 | -1.26E-03 | -5.54E+06 |
| -1.26E-03 | -6.24E+06 | -2.70E-01 | -5.64E+11 | -1.27E-03 | -5.52E+06 |
| -1.27E-03 | -6.22E+06 | -2.72E-01 | -5.62E+11 | -1.28E-03 | -5.50E+06 |
| -1.28E-03 | -6.20E+06 | -2.74E-01 | -5.59E+11 | -1.29E-03 | -5.48E+06 |
| -1.29E-03 | -6.18E+06 | -2.76E-01 | -5.57E+11 | -1.30E-03 | -5.46E+06 |
| -1.30E-03 | -6.16E+06 | -2.78E-01 | -5.56E+11 | -1.31E-03 | -5.45E+06 |
| -1.31E-03 | -6.14E+06 | -2.81E-01 | -5.54E+11 | -1.32E-03 | -5.43E+06 |
| -1.32E-03 | -6.12E+06 | -2.83E-01 | -5.52E+11 | -1.33E-03 | -5.41E+06 |
| -1.33E-03 | -6.10E+06 | -2.85E-01 | -5.50E+11 | -1.34E-03 | -5.39E+06 |
| -1.33E-03 | -6.09E+06 | -2.85E-01 | -5.48E+11 | -1.35E-03 | -5.37E+06 |
| -1.34E-03 | -6.07E+06 | -2.88E-01 | -5.46E+11 | -1.36E-03 | -5.35E+06 |
| -1.35E-03 | -6.05E+06 | -2.90E-01 | -5.44E+11 | -1.37E-03 | -5.33E+06 |
| -1.36E-03 | -6.03E+06 | -2.92E-01 | -5.42E+11 | -1.38E-03 | -5.31E+06 |
| -1.37E-03 | -6.01E+06 | -2.94E-01 | -5.41E+11 | -1.39E-03 | -5.30E+06 |
| -1.38E-03 | -5.99E+06 | -2.96E-01 | -5.39E+11 | -1.40E-03 | -5.28E+06 |
| -1.39E-03 | -5.99E+06 | -2.97E-01 | -5.37E+11 | -1.41E-03 | -5.26E+06 |
| -1.40E-03 | -5.97E+06 | -2.99E-01 | -5.35E+11 | -1.42E-03 | -5.24E+06 |
| -1.41E-03 | -5.95E+06 | -3.01E-01 | -5.33E+11 | -1.43E-03 | -5.23E+06 |
| -1.42E-03 | -5.93E+06 | -3.03E-01 | -5.32E+11 | -1.44E-03 | -5.21E+06 |
| -1.43E-03 | -5.91E+06 | -3.06E-01 | -5.30E+11 | -1.45E-03 | -5.19E+06 |
| -1.44E-03 | -5.89E+06 | -3.08E-01 | -5.28E+11 | -1.46E-03 | -5.18E+06 |
| -1.45E-03 | -5.87E+06 | -3.10E-01 | -5.27E+11 | -1.47E-03 | -5.16E+06 |
| -1.46E-03 | -5.86E+06 | -3.12E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 |
| -1.47E-03 | -5.84E+06 | -3.14E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 |
| -1.48E-03 | -5.82E+06 | -3.16E-01 | -5.23E+11 | -1.49E-03 | -5.12E+06 |
| -1.49E-03 | -5.80E+06 | -3.18E-01 | -5.21E+11 | -1.50E-03 | -5.11E+06 |
| -1.50E-03 | -5.79E+06 | -3.20E-01 | -5.20E+11 | -1.51E-03 | -5.09E+06 |
| -1.51E-03 | -5.77E+06 | -3.22E-01 | -5.18E+11 | -1.52E-03 | -5.08E+06 |
| -1.52E-03 | -5.75E+06 | -3.25E-01 | -5.16E+11 | -1.53E-03 | -5.06E+06 |
| -1.53E-03 | -5.73E+06 | -3.27E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 |
| -1.54E-03 | -5.72E+06 | -3.29E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 |
| -1.55E-03 | -5.70E+06 | -3.31E-01 | -5.13E+11 | -1.55E-03 | -5.03E+06 |
| -1.56E-03 | -5.69E+06 | -3.33E-01 | -5.11E+11 | -1.56E-03 | -5.01E+06 |
| -1.57E-03 | -5.67E+06 | -3.35E-01 | -5.10E+11 | -1.57E-03 | -5.00E+06 |
| -1.57E-03 | -5.67E+06 | -3.36E-01 | -5.08E+11 | -1.58E-03 | -4.98E+06 |
| -1.58E-03 | -5.65E+06 | -3.38E-01 | -5.07E+11 | -1.59E-03 | -4.97E+06 |
| -1.59E-03 | -5.64E+06 | -3.40E-01 | -5.05E+11 | -1.60E-03 | -4.95E+06 |
| -1.60E-03 | -5.62E+06 | -3.42E-01 | -5.04E+11 | -1.61E-03 | -4.94E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -1.61E-03 | -5.60E+06 | -3.44E-01 | -5.02E+11 | -1.62E-03 | -4.92E+06 |
| -1.62E-03 | -5.59E+06 | -3.46E-01 | -5.01E+11 | -1.63E-03 | -4.91E+06 |
| -1.63E-03 | -5.57E+06 | -3.49E-01 | -5.00E+11 | -1.64E-03 | -4.90E+06 |
| -1.63E-03 | -5.57E+06 | -3.49E-01 | -4.98E+11 | -1.65E-03 | -4.88E+06 |
| -1.64E-03 | -5.56E+06 | -3.51E-01 | -4.97E+11 | -1.66E-03 | -4.87E+06 |
| -1.65E-03 | -5.54E+06 | -3.53E-01 | -4.96E+11 | -1.66E-03 | -4.86E+06 |
| -1.66E-03 | -5.53E+06 | -3.55E-01 | -4.95E+11 | -1.67E-03 | -4.85E+06 |
| -1.67E-03 | -5.51E+06 | -3.57E-01 | -4.94E+11 | -1.68E-03 | -4.84E+06 |
| -1.68E-03 | -5.49E+06 | -3.60E-01 | -4.92E+11 | -1.69E-03 | -4.82E+06 |
| -1.69E-03 | -5.48E+06 | -3.62E-01 | -4.91E+11 | -1.70E-03 | -4.81E+06 |
| -1.70E-03 | -5.46E+06 | -3.64E-01 | -4.90E+11 | -1.71E-03 | -4.80E+06 |
| -1.71E-03 | -5.45E+06 | -3.66E-01 | -4.88E+11 | -1.72E-03 | -4.79E+06 |
| -1.72E-03 | -5.44E+06 | -3.68E-01 | -4.87E+11 | -1.73E-03 | -4.77E+06 |
| -1.73E-03 | -5.42E+06 | -3.70E-01 | -4.86E+11 | -1.74E-03 | -4.76E+06 |
| -1.74E-03 | -5.41E+06 | -3.72E-01 | -4.85E+11 | -1.75E-03 | -4.75E+06 |
| -1.75E-03 | -5.40E+06 | -3.75E-01 | -4.83E+11 | -1.76E-03 | -4.74E+06 |
| -1.76E-03 | -5.38E+06 | -3.77E-01 | -4.82E+11 | -1.77E-03 | -4.72E+06 |
| -1.76E-03 | -5.38E+06 | -3.77E-01 | -4.81E+11 | -1.78E-03 | -4.71E+06 |
| -1.77E-03 | -5.36E+06 | -3.79E-01 | -4.79E+11 | -1.79E-03 | -4.70E+06 |
| -1.78E-03 | -5.35E+06 | -3.82E-01 | -4.78E+11 | -1.80E-03 | -4.69E+06 |
| -1.79E-03 | -5.34E+06 | -3.84E-01 | -4.77E+11 | -1.81E-03 | -4.67E+06 |
| -1.80E-03 | -5.32E+06 | -3.86E-01 | -4.76E+11 | -1.82E-03 | -4.66E+06 |
| -1.81E-03 | -5.31E+06 | -3.88E-01 | -4.75E+11 | -1.83E-03 | -4.65E+06 |
| -1.82E-03 | -5.30E+06 | -3.90E-01 | -4.74E+11 | -1.84E-03 | -4.64E+06 |
| -1.83E-03 | -5.29E+06 | -3.92E-01 | -4.72E+11 | -1.85E-03 | -4.63E+06 |
| -1.84E-03 | -5.27E+06 | -3.94E-01 | -4.71E+11 | -1.86E-03 | -4.62E+06 |
| -1.85E-03 | -5.26E+06 | -3.96E-01 | -4.70E+11 | -1.87E-03 | -4.61E+06 |
| -1.86E-03 | -5.25E+06 | -3.99E-01 | -4.69E+11 | -1.88E-03 | -4.60E+06 |
| -1.87E-03 | -5.23E+06 | -4.01E-01 | -4.68E+11 | -1.89E-03 | -4.59E+06 |
| -1.88E-03 | -5.22E+06 | -4.03E-01 | -4.67E+11 | -1.90E-03 | -4.58E+06 |
| -1.89E-03 | -5.21E+06 | -4.05E-01 | -4.66E+11 | -1.91E-03 | -4.57E+06 |
| -1.90E-03 | -5.19E+06 | -4.07E-01 | -4.65E+11 | -1.92E-03 | -4.56E+06 |
| -1.91E-03 | -5.18E+06 | -4.09E-01 | -4.64E+11 | -1.93E-03 | -4.55E+06 |
| -1.92E-03 | -5.17E+06 | -4.11E-01 | -4.63E+11 | -1.94E-03 | -4.53E+06 |
| -1.93E-03 | -5.16E+06 | -4.13E-01 | -4.62E+11 | -1.95E-03 | -4.52E+06 |
| -1.94E-03 | -5.15E+06 | -4.16E-01 | -4.61E+11 | -1.96E-03 | -4.51E+06 |
| -1.95E-03 | -5.13E+06 | -4.18E-01 | -4.60E+11 | -1.97E-03 | -4.50E+06 |
| -1.96E-03 | -5.12E+06 | -4.20E-01 | -4.59E+11 | -1.98E-03 | -4.50E+06 |
| -1.97E-03 | -5.11E+06 | -4.22E-01 | -4.58E+11 | -1.99E-03 | -4.48E+06 |
| -1.98E-03 | -5.10E+06 | -4.24E-01 | -4.57E+11 | -2.00E-03 | -4.47E+06 |
| -1.99E-03 | -5.09E+06 | -4.26E-01 | -4.55E+11 | -2.01E-03 | -4.46E+06 |
| -2.00E-03 | -5.08E+06 | -4.28E-01 | -4.54E+11 | -2.02E-03 | -4.45E+06 |
| -2.01E-03 | -5.07E+06 | -4.31E-01 | -4.53E+11 | -2.03E-03 | -4.44E+06 |
| -2.01E-03 | -5.07E+06 | -4.31E-01 | -4.52E+11 | -2.04E-03 | -4.43E+06 |
| -2.02E-03 | -5.06E+06 | -4.33E-01 | -4.51E+11 | -2.05E-03 | -4.42E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.03E-03 | -5.05E+06 | -4.35E-01 | -4.50E+11 | -2.06E-03 | -4.41E+06 |
| -2.04E-03 | -5.04E+06 | -4.37E-01 | -4.49E+11 | -2.07E-03 | -4.40E+06 |
| -2.05E-03 | -5.02E+06 | -4.39E-01 | -4.48E+11 | -2.08E-03 | -4.39E+06 |
| -2.06E-03 | -5.01E+06 | -4.41E-01 | -4.47E+11 | -2.09E-03 | -4.38E+06 |
| -2.07E-03 | -5.00E+06 | -4.43E-01 | -4.46E+11 | -2.10E-03 | -4.37E+06 |
| -2.08E-03 | -4.99E+06 | -4.46E-01 | -4.45E+11 | -2.11E-03 | -4.36E+06 |
| -2.09E-03 | -4.98E+06 | -4.47E-01 | -4.44E+11 | -2.12E-03 | -4.36E+06 |
| -2.10E-03 | -4.97E+06 | -4.49E-01 | -4.44E+11 | -2.13E-03 | -4.35E+06 |
| -2.11E-03 | -4.96E+06 | -4.52E-01 | -4.43E+11 | -2.14E-03 | -4.34E+06 |
| -2.12E-03 | -4.95E+06 | -4.54E-01 | -4.42E+11 | -2.15E-03 | -4.33E+06 |
| -2.13E-03 | -4.94E+06 | -4.56E-01 | -4.41E+11 | -2.16E-03 | -4.32E+06 |
| -2.14E-03 | -4.93E+06 | -4.58E-01 | -4.40E+11 | -2.17E-03 | -4.31E+06 |
| -2.15E-03 | -4.92E+06 | -4.60E-01 | -4.39E+11 | -2.18E-03 | -4.30E+06 |
| -2.16E-03 | -4.91E+06 | -4.62E-01 | -4.38E+11 | -2.19E-03 | -4.30E+06 |
| -2.17E-03 | -4.90E+06 | -4.64E-01 | -4.37E+11 | -2.20E-03 | -4.29E+06 |
| -2.18E-03 | -4.89E+06 | -4.67E-01 | -4.37E+11 | -2.21E-03 | -4.28E+06 |
| -2.19E-03 | -4.88E+06 | -4.69E-01 | -4.36E+11 | -2.22E-03 | -4.27E+06 |
| -2.20E-03 | -4.87E+06 | -4.71E-01 | -4.35E+11 | -2.23E-03 | -4.26E+06 |
| -2.21E-03 | -4.86E+06 | -4.73E-01 | -4.34E+11 | -2.24E-03 | -4.26E+06 |
| -2.22E-03 | -4.85E+06 | -4.75E-01 | -4.33E+11 | -2.25E-03 | -4.25E+06 |
| -2.23E-03 | -4.84E+06 | -4.77E-01 | -4.33E+11 | -2.26E-03 | -4.24E+06 |
| -2.24E-03 | -4.83E+06 | -4.79E-01 | -4.32E+11 | -2.27E-03 | -4.23E+06 |
| -2.25E-03 | -4.82E+06 | -4.82E-01 | -4.31E+11 | -2.28E-03 | -4.22E+06 |
| -2.26E-03 | -4.81E+06 | -4.84E-01 | -4.30E+11 | -2.29E-03 | -4.21E+06 |
| -2.27E-03 | -4.80E+06 | -4.86E-01 | -4.29E+11 | -2.30E-03 | -4.21E+06 |
| -2.28E-03 | -4.79E+06 | -4.88E-01 | -4.29E+11 | -2.31E-03 | -4.20E+06 |
| -2.29E-03 | -4.78E+06 | -4.90E-01 | -4.28E+11 | -2.31E-03 | -4.20E+06 |
| -2.30E-03 | -4.78E+06 | -4.92E-01 | -4.28E+11 | -2.32E-03 | -4.19E+06 |
| -2.31E-03 | -4.77E+06 | -4.94E-01 | -4.27E+11 | -2.33E-03 | -4.18E+06 |
| -2.32E-03 | -4.76E+06 | -4.97E-01 | -4.26E+11 | -2.34E-03 | -4.17E+06 |
| -2.33E-03 | -4.75E+06 | -4.99E-01 | -4.25E+11 | -2.35E-03 | -4.17E+06 |
| -2.34E-03 | -4.74E+06 | -5.01E-01 | -4.25E+11 | -2.36E-03 | -4.16E+06 |
| -2.34E-03 | -4.74E+06 | -5.01E-01 | -4.24E+11 | -2.37E-03 | -4.15E+06 |
| -2.35E-03 | -4.73E+06 | -5.03E-01 | -4.23E+11 | -2.38E-03 | -4.14E+06 |
| -2.36E-03 | -4.72E+06 | -5.06E-01 | -4.22E+11 | -2.39E-03 | -4.13E+06 |
| -2.37E-03 | -4.71E+06 | -5.08E-01 | -4.21E+11 | -2.40E-03 | -4.13E+06 |
| -2.38E-03 | -4.71E+06 | -5.10E-01 | -4.20E+11 | -2.41E-03 | -4.12E+06 |
| -2.39E-03 | -4.70E+06 | -5.12E-01 | -4.19E+11 | -2.42E-03 | -4.11E+06 |
| -2.40E-03 | -4.69E+06 | -5.14E-01 | -4.19E+11 | -2.43E-03 | -4.10E+06 |
| -2.41E-03 | -4.68E+06 | -5.16E-01 | -4.18E+11 | -2.44E-03 | -4.09E+06 |
| -2.42E-03 | -4.67E+06 | -5.18E-01 | -4.17E+11 | -2.45E-03 | -4.09E+06 |
| -2.43E-03 | -4.66E+06 | -5.21E-01 | -4.16E+11 | -2.46E-03 | -4.08E+06 |
| -2.43E-03 | -4.66E+06 | -5.21E-01 | -4.16E+11 | -2.47E-03 | -4.07E+06 |
| -2.44E-03 | -4.66E+06 | -5.23E-01 | -4.15E+11 | -2.48E-03 | -4.06E+06 |
| -2.45E-03 | -4.65E+06 | -5.25E-01 | -4.14E+11 | -2.49E-03 | -4.06E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.46E-03 | -4.64E+06 | -5.27E-01 | -4.13E+11 | -2.50E-03 | -4.05E+06 |
| -2.47E-03 | -4.63E+06 | -5.29E-01 | -4.13E+11 | -2.51E-03 | -4.04E+06 |
| -2.48E-03 | -4.62E+06 | -5.31E-01 | -4.12E+11 | -2.52E-03 | -4.04E+06 |
| -2.49E-03 | -4.61E+06 | -5.33E-01 | -4.11E+11 | -2.53E-03 | -4.03E+06 |
| -2.50E-03 | -4.61E+06 | -5.35E-01 | -4.11E+11 | -2.54E-03 | -4.02E+06 |
| -2.51E-03 | -4.60E+06 | -5.37E-01 | -4.10E+11 | -2.55E-03 | -4.02E+06 |
| -2.52E-03 | -4.59E+06 | -5.39E-01 | -4.09E+11 | -2.56E-03 | -4.01E+06 |
| -2.53E-03 | -4.58E+06 | -5.42E-01 | -4.09E+11 | -2.57E-03 | -4.00E+06 |
| -2.54E-03 | -4.57E+06 | -5.44E-01 | -4.08E+11 | -2.58E-03 | -4.00E+06 |
| -2.55E-03 | -4.56E+06 | -5.46E-01 | -4.07E+11 | -2.59E-03 | -3.99E+06 |
| -2.56E-03 | -4.56E+06 | -5.48E-01 | -4.07E+11 | -2.60E-03 | -3.98E+06 |
| -2.57E-03 | -4.55E+06 | -5.50E-01 | -4.06E+11 | -2.61E-03 | -3.98E+06 |
| -2.58E-03 | -4.54E+06 | -5.52E-01 | -4.05E+11 | -2.62E-03 | -3.97E+06 |
| -2.59E-03 | -4.53E+06 | -5.54E-01 | -4.05E+11 | -2.63E-03 | -3.97E+06 |
| -2.60E-03 | -4.53E+06 | -5.57E-01 | -4.04E+11 | -2.64E-03 | -3.96E+06 |
| -2.61E-03 | -4.52E+06 | -5.59E-01 | -4.03E+11 | -2.65E-03 | -3.95E+06 |
| -2.62E-03 | -4.51E+06 | -5.61E-01 | -4.03E+11 | -2.66E-03 | -3.95E+06 |
| -2.63E-03 | -4.50E+06 | -5.63E-01 | -4.02E+11 | -2.67E-03 | -3.94E+06 |
| -2.64E-03 | -4.50E+06 | -5.65E-01 | -4.02E+11 | -2.68E-03 | -3.93E+06 |

1.00E-06

Curvature

5.69E-01
5.67E-01
5.65E-01
5.63E-01
5.60E-01
5.58E-01
5.56E-01
5.54E-01
5.52E-01
5.50E-01
5.48E-01
5.46E-01
5.43E-01
5.41E-01
5.39E-01
5.37E-01
5.35E-01
5.33E-01
5.31E-01
5.28E-01
5.26E-01
5.24E-01
5.22E-01
5.21E-01
5.19E-01
5.17E-01
5.15E-01
5.12E-01
5.10E-01
5.08E-01
5.06E-01
5.04E-01
5.02E-01
5.00E-01
4.97E-01
4.95E-01
4.93E-01
4.92E-01
4.90E-01
4.88E-01

4.86E-01
4.84E-01
4.81E-01
4.79E-01
4.77E-01
4.75E-01
4.73E-01
4.71E-01
4.70E-01
4.68E-01
4.66E-01
4.64E-01
4.62E-01
4.60E-01
4.58E-01
4.55E-01
4.53E-01
4.51E-01
4.49E-01
4.47E-01
4.45E-01
4.43E-01
4.40E-01
4.38E-01
4.36E-01
4.34E-01
4.32E-01
4.30E-01
4.28E-01
4.25E-01
4.23E-01
4.23E-01
4.21E-01
4.19E-01
4.16E-01
4.14E-01
4.12E-01
4.10E-01
4.08E-01
4.06E-01
4.04E-01
4.01E-01
4.00E-01
3.98E-01
3.96E-01

3.94E-01
3.91E-01
3.89E-01
3.87E-01
3.85E-01
3.83E-01
3.81E-01
3.79E-01
3.77E-01
3.75E-01
3.73E-01
3.70E-01
3.68E-01
3.66E-01
3.66E-01
3.64E-01
3.61E-01
3.59E-01
3.57E-01
3.55E-01
3.53E-01
3.51E-01
3.51E-01
3.49E-01
3.46E-01
3.44E-01
3.42E-01
3.40E-01
3.38E-01
3.36E-01
3.34E-01
3.32E-01
3.30E-01
3.28E-01
3.25E-01
3.24E-01
3.22E-01
3.20E-01
3.18E-01
3.15E-01
3.13E-01
3.11E-01
3.09E-01
3.08E-01
3.06E-01

3.04E-01
3.02E-01
3.00E-01
3.00E-01
2.98E-01
2.96E-01
2.93E-01
2.91E-01
2.89E-01
2.87E-01
2.87E-01
2.84E-01
2.82E-01
2.80E-01
2.78E-01
2.78E-01
2.75E-01
2.73E-01
2.71E-01
2.69E-01
2.67E-01
2.66E-01
2.64E-01
2.62E-01
2.60E-01
2.58E-01
2.56E-01
2.54E-01
2.52E-01
2.50E-01
2.48E-01
2.46E-01
2.44E-01
2.42E-01
2.41E-01
2.39E-01
2.37E-01
2.34E-01
2.32E-01
2.30E-01
2.29E-01
2.27E-01
2.25E-01
2.24E-01
2.21E-01

2.21E-01
2.19E-01
2.17E-01
2.15E-01
2.13E-01
2.10E-01
2.10E-01
2.07E-01
2.07E-01
2.05E-01
2.04E-01
2.02E-01
2.00E-01
2.00E-01
1.98E-01
1.97E-01
1.95E-01
1.93E-01
1.91E-01
1.89E-01
1.87E-01
1.86E-01
1.84E-01
1.82E-01
1.82E-01
1.79E-01
1.77E-01
1.75E-01
1.73E-01
1.71E-01
1.69E-01
1.67E-01
1.65E-01
1.63E-01
1.61E-01
1.59E-01
1.58E-01
1.56E-01
1.53E-01
1.51E-01
1.49E-01
1.48E-01
1.46E-01
1.44E-01
1.43E-01

1.42E-01
1.41E-01
1.39E-01
1.37E-01
1.36E-01
1.35E-01
1.34E-01
1.32E-01
1.31E-01
1.29E-01
1.28E-01
1.26E-01
1.24E-01
1.22E-01
1.20E-01
1.18E-01
1.16E-01
1.13E-01
1.11E-01
1.09E-01
1.07E-01
1.05E-01
1.03E-01
1.01E-01
9.85E-02
9.64E-02
9.42E-02
9.21E-02
8.99E-02
8.78E-02
8.57E-02
8.35E-02
8.14E-02
7.92E-02
7.71E-02
7.49E-02
7.28E-02
7.07E-02
6.85E-02
6.64E-02
6.42E-02
6.21E-02
6.00E-02
5.78E-02
5.57E-02

5.35E-02
5.14E-02
4.93E-02
4.71E-02
4.50E-02
4.28E-02
4.07E-02
3.85E-02
3.64E-02
3.43E-02
3.21E-02
3.00E-02
2.78E-02
2.57E-02
2.36E-02
2.14E-02
1.93E-02
1.71E-02
1.50E-02
1.28E-02
1.07E-02
8.57E-03
6.42E-03
4.28E-03
2.14E-03
1.93E-03
1.71E-03
1.50E-03
1.28E-03
1.07E-03
8.57E-04
6.42E-04
4.28E-04
2.14E-04
0.00E+00
-2.14E-04
-4.28E-04
-6.42E-04
-8.57E-04
-1.07E-03
-1.28E-03
-1.50E-03
-1.71E-03
-1.93E-03
-2.14E-03

-4.28E-03
-6.42E-03
-8.57E-03
-1.07E-02
-1.28E-02
-1.50E-02
-1.71E-02
-1.93E-02
-2.14E-02
-2.36E-02
-2.57E-02
-2.78E-02
-3.00E-02
-3.21E-02
-3.43E-02
-3.64E-02
-3.85E-02
-4.07E-02
-4.28E-02
-4.50E-02
-4.71E-02
-4.93E-02
-5.14E-02
-5.35E-02
-5.57E-02
-5.78E-02
-6.00E-02
-6.21E-02
-6.42E-02
-6.64E-02
-6.85E-02
-7.07E-02
-7.28E-02
-7.49E-02
-7.71E-02
-7.92E-02
-8.14E-02
-8.35E-02
-8.57E-02
-8.78E-02
-8.99E-02
-9.21E-02
-9.42E-02
-9.64E-02
-9.85E-02

-1.01E-01
-1.03E-01
-1.05E-01
-1.07E-01
-1.09E-01
-1.11E-01
-1.13E-01
-1.16E-01
-1.18E-01
-1.19E-01
-1.21E-01
-1.23E-01
-1.24E-01
-1.25E-01
-1.26E-01
-1.27E-01
-1.29E-01
-1.30E-01
-1.32E-01
-1.33E-01
-1.34E-01
-1.35E-01
-1.36E-01
-1.37E-01
-1.38E-01
-1.39E-01
-1.41E-01
-1.44E-01
-1.46E-01
-1.46E-01
-1.48E-01
-1.50E-01
-1.51E-01
-1.54E-01
-1.54E-01
-1.56E-01
-1.58E-01
-1.60E-01
-1.61E-01
-1.63E-01
-1.65E-01
-1.66E-01
-1.68E-01
-1.70E-01
-1.72E-01

-1.73E-01
-1.75E-01
-1.76E-01
-1.78E-01
-1.80E-01
-1.82E-01
-1.84E-01
-1.86E-01
-1.86E-01
-1.88E-01
-1.91E-01
-1.93E-01
-1.95E-01
-1.97E-01
-1.97E-01
-1.99E-01
-2.00E-01
-2.02E-01
-2.04E-01
-2.06E-01
-2.09E-01
-2.11E-01
-2.13E-01
-2.14E-01
-2.16E-01
-2.18E-01
-2.21E-01
-2.23E-01
-2.25E-01
-2.27E-01
-2.29E-01
-2.30E-01
-2.32E-01
-2.34E-01
-2.36E-01
-2.39E-01
-2.41E-01
-2.43E-01
-2.45E-01
-2.47E-01
-2.49E-01
-2.49E-01
-2.51E-01
-2.53E-01
-2.55E-01

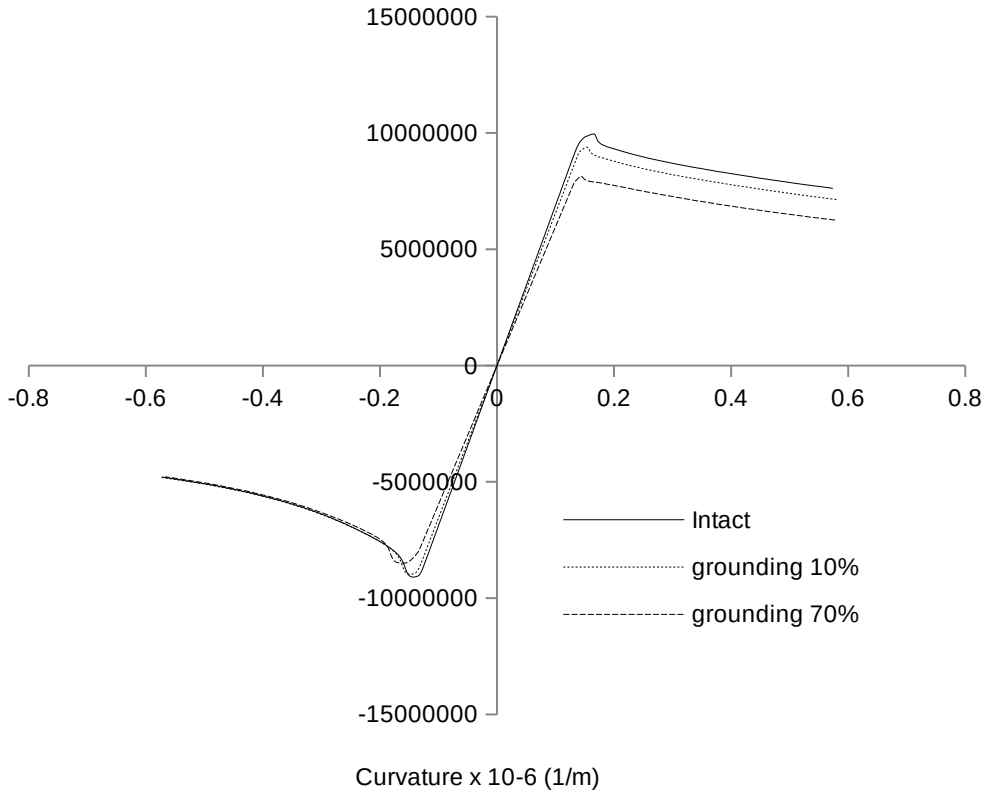
-2.57E-01
-2.59E-01
-2.61E-01
-2.63E-01
-2.66E-01
-2.68E-01
-2.70E-01
-2.70E-01
-2.72E-01
-2.75E-01
-2.77E-01
-2.79E-01
-2.80E-01
-2.82E-01
-2.84E-01
-2.87E-01
-2.89E-01
-2.91E-01
-2.93E-01
-2.95E-01
-2.97E-01
-2.99E-01
-3.01E-01
-3.03E-01
-3.05E-01
-3.07E-01
-3.10E-01
-3.12E-01
-3.14E-01
-3.16E-01
-3.16E-01
-3.19E-01
-3.21E-01
-3.23E-01
-3.25E-01
-3.27E-01
-3.29E-01
-3.30E-01
-3.32E-01
-3.34E-01
-3.36E-01
-3.38E-01
-3.40E-01
-3.42E-01
-3.45E-01

-3.47E-01
-3.49E-01
-3.51E-01
-3.53E-01
-3.55E-01
-3.56E-01
-3.58E-01
-3.60E-01
-3.62E-01
-3.64E-01
-3.67E-01
-3.69E-01
-3.71E-01
-3.73E-01
-3.75E-01
-3.77E-01
-3.79E-01
-3.81E-01
-3.84E-01
-3.86E-01
-3.88E-01
-3.90E-01
-3.92E-01
-3.94E-01
-3.96E-01
-3.99E-01
-4.01E-01
-4.03E-01
-4.05E-01
-4.07E-01
-4.09E-01
-4.11E-01
-4.13E-01
-4.15E-01
-4.18E-01
-4.20E-01
-4.22E-01
-4.24E-01
-4.26E-01
-4.28E-01
-4.30E-01
-4.32E-01
-4.34E-01
-4.37E-01
-4.39E-01

-4.41E-01
-4.43E-01
-4.45E-01
-4.47E-01
-4.49E-01
-4.52E-01
-4.54E-01
-4.56E-01
-4.58E-01
-4.60E-01
-4.62E-01
-4.64E-01
-4.67E-01
-4.69E-01
-4.71E-01
-4.73E-01
-4.75E-01
-4.77E-01
-4.79E-01
-4.81E-01
-4.83E-01
-4.85E-01
-4.87E-01
-4.90E-01
-4.92E-01
-4.94E-01
-4.94E-01
-4.96E-01
-4.99E-01
-5.01E-01
-5.02E-01
-5.04E-01
-5.06E-01
-5.09E-01
-5.11E-01
-5.13E-01
-5.15E-01
-5.17E-01
-5.19E-01
-5.21E-01
-5.24E-01
-5.26E-01
-5.28E-01
-5.30E-01
-5.32E-01

-5.34E-01
-5.36E-01
-5.39E-01
-5.41E-01
-5.43E-01
-5.45E-01
-5.47E-01
-5.49E-01
-5.51E-01
-5.54E-01
-5.56E-01
-5.58E-01
-5.60E-01
-5.62E-01
-5.64E-01
-5.66E-01
-5.69E-01
-5.71E-01
-5.73E-01

| Intact | | | | 10% | |
|----------|----------|----------|-----------|----------|----------|
| Momen | Rotasi | Momen | Curvature | Momen | Rotasi |
| 7.77E+11 | 2.68E-03 | 7.62E+06 | 5.74E-01 | 7.28E+11 | 2.71E-03 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.93E+11 | 2.47E-03 | 7.77E+06 | 5.28E-01 | 7.44E+11 | 2.49E-03 |
| 7.94E+11 | 2.46E-03 | 7.78E+06 | 5.26E-01 | 7.44E+11 | 2.48E-03 |
| 7.95E+11 | 2.45E-03 | 7.79E+06 | 5.24E-01 | 7.45E+11 | 2.47E-03 |
| 7.95E+11 | 2.44E-03 | 7.79E+06 | 5.21E-01 | 7.46E+11 | 2.46E-03 |
| 7.95E+11 | 2.43E-03 | 7.79E+06 | 5.21E-01 | 7.47E+11 | 2.45E-03 |
| 7.96E+11 | 2.42E-03 | 7.80E+06 | 5.19E-01 | 7.47E+11 | 2.44E-03 |
| 7.97E+11 | 2.41E-03 | 7.81E+06 | 5.17E-01 | 7.48E+11 | 2.43E-03 |
| 7.98E+11 | 2.40E-03 | 7.82E+06 | 5.15E-01 | 7.48E+11 | 2.43E-03 |
| 7.98E+11 | 2.39E-03 | 7.82E+06 | 5.13E-01 | 7.49E+11 | 2.42E-03 |
| 7.99E+11 | 2.38E-03 | 7.83E+06 | 5.10E-01 | 7.50E+11 | 2.41E-03 |
| 8.00E+11 | 2.37E-03 | 7.84E+06 | 5.08E-01 | 7.51E+11 | 2.40E-03 |
| 8.01E+11 | 2.36E-03 | 7.85E+06 | 5.06E-01 | 7.51E+11 | 2.39E-03 |
| 8.02E+11 | 2.35E-03 | 7.85E+06 | 5.04E-01 | 7.52E+11 | 2.38E-03 |
| 8.02E+11 | 2.34E-03 | 7.86E+06 | 5.02E-01 | 7.53E+11 | 2.37E-03 |
| 8.03E+11 | 2.33E-03 | 7.87E+06 | 5.00E-01 | 7.54E+11 | 2.36E-03 |
| 8.04E+11 | 2.32E-03 | 7.88E+06 | 4.98E-01 | 7.54E+11 | 2.35E-03 |
| 8.05E+11 | 2.31E-03 | 7.89E+06 | 4.96E-01 | 7.55E+11 | 2.34E-03 |
| 8.06E+11 | 2.30E-03 | 7.90E+06 | 4.93E-01 | 7.56E+11 | 2.33E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.07E+11 | 2.29E-03 | 7.90E+06 | 4.91E-01 | 7.57E+11 | 2.32E-03 |
| 8.07E+11 | 2.28E-03 | 7.91E+06 | 4.89E-01 | 7.58E+11 | 2.31E-03 |
| 8.08E+11 | 2.28E-03 | 7.91E+06 | 4.88E-01 | 7.58E+11 | 2.30E-03 |
| 8.08E+11 | 2.27E-03 | 7.92E+06 | 4.86E-01 | 7.59E+11 | 2.29E-03 |
| 8.09E+11 | 2.26E-03 | 7.93E+06 | 4.84E-01 | 7.60E+11 | 2.28E-03 |
| 8.10E+11 | 2.25E-03 | 7.94E+06 | 4.82E-01 | 7.61E+11 | 2.27E-03 |
| 8.11E+11 | 2.24E-03 | 7.94E+06 | 4.80E-01 | 7.62E+11 | 2.26E-03 |
| 8.11E+11 | 2.23E-03 | 7.95E+06 | 4.78E-01 | 7.62E+11 | 2.25E-03 |
| 8.12E+11 | 2.22E-03 | 7.96E+06 | 4.76E-01 | 7.63E+11 | 2.24E-03 |
| 8.13E+11 | 2.21E-03 | 7.97E+06 | 4.73E-01 | 7.64E+11 | 2.23E-03 |
| 8.14E+11 | 2.20E-03 | 7.97E+06 | 4.71E-01 | 7.65E+11 | 2.22E-03 |
| 8.15E+11 | 2.19E-03 | 7.98E+06 | 4.69E-01 | 7.65E+11 | 2.21E-03 |
| 8.15E+11 | 2.18E-03 | 7.99E+06 | 4.67E-01 | 7.66E+11 | 2.20E-03 |
| 8.16E+11 | 2.17E-03 | 8.00E+06 | 4.65E-01 | 7.67E+11 | 2.19E-03 |
| 8.17E+11 | 2.16E-03 | 8.01E+06 | 4.63E-01 | 7.68E+11 | 2.18E-03 |
| 8.18E+11 | 2.15E-03 | 8.01E+06 | 4.61E-01 | 7.68E+11 | 2.17E-03 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 7.69E+11 | 2.16E-03 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 7.70E+11 | 2.15E-03 |
| 8.19E+11 | 2.13E-03 | 8.03E+06 | 4.56E-01 | 7.71E+11 | 2.14E-03 |
| 8.20E+11 | 2.12E-03 | 8.04E+06 | 4.54E-01 | 7.71E+11 | 2.13E-03 |
| 8.21E+11 | 2.11E-03 | 8.05E+06 | 4.52E-01 | 7.72E+11 | 2.13E-03 |
| 8.22E+11 | 2.10E-03 | 8.05E+06 | 4.50E-01 | 7.72E+11 | 2.12E-03 |
| 8.23E+11 | 2.09E-03 | 8.06E+06 | 4.48E-01 | 7.73E+11 | 2.11E-03 |
| 8.24E+11 | 2.08E-03 | 8.07E+06 | 4.45E-01 | 7.74E+11 | 2.10E-03 |
| 8.25E+11 | 2.07E-03 | 8.08E+06 | 4.43E-01 | 7.75E+11 | 2.09E-03 |
| 8.25E+11 | 2.06E-03 | 8.09E+06 | 4.41E-01 | 7.76E+11 | 2.08E-03 |
| 8.26E+11 | 2.05E-03 | 8.10E+06 | 4.39E-01 | 7.77E+11 | 2.07E-03 |
| 8.27E+11 | 2.04E-03 | 8.11E+06 | 4.37E-01 | 7.77E+11 | 2.06E-03 |
| 8.28E+11 | 2.03E-03 | 8.12E+06 | 4.35E-01 | 7.78E+11 | 2.05E-03 |
| 8.29E+11 | 2.02E-03 | 8.12E+06 | 4.33E-01 | 7.79E+11 | 2.04E-03 |
| 8.30E+11 | 2.01E-03 | 8.13E+06 | 4.31E-01 | 7.80E+11 | 2.03E-03 |
| 8.30E+11 | 2.00E-03 | 8.14E+06 | 4.29E-01 | 7.81E+11 | 2.02E-03 |
| 8.31E+11 | 1.99E-03 | 8.14E+06 | 4.27E-01 | 7.82E+11 | 2.01E-03 |
| 8.32E+11 | 1.98E-03 | 8.15E+06 | 4.25E-01 | 7.82E+11 | 2.00E-03 |
| 8.33E+11 | 1.97E-03 | 8.16E+06 | 4.23E-01 | 7.83E+11 | 1.99E-03 |
| 8.34E+11 | 1.96E-03 | 8.17E+06 | 4.21E-01 | 7.84E+11 | 1.98E-03 |
| 8.35E+11 | 1.95E-03 | 8.18E+06 | 4.18E-01 | 7.85E+11 | 1.97E-03 |
| 8.35E+11 | 1.94E-03 | 8.19E+06 | 4.16E-01 | 7.86E+11 | 1.96E-03 |
| 8.36E+11 | 1.93E-03 | 8.20E+06 | 4.14E-01 | 7.86E+11 | 1.95E-03 |
| 8.37E+11 | 1.92E-03 | 8.20E+06 | 4.12E-01 | 7.87E+11 | 1.94E-03 |
| 8.38E+11 | 1.91E-03 | 8.21E+06 | 4.10E-01 | 7.88E+11 | 1.93E-03 |
| 8.39E+11 | 1.91E-03 | 8.22E+06 | 4.08E-01 | 7.89E+11 | 1.92E-03 |
| 8.40E+11 | 1.90E-03 | 8.23E+06 | 4.06E-01 | 7.90E+11 | 1.91E-03 |
| 8.40E+11 | 1.89E-03 | 8.24E+06 | 4.04E-01 | 7.91E+11 | 1.90E-03 |
| 8.41E+11 | 1.88E-03 | 8.24E+06 | 4.01E-01 | 7.91E+11 | 1.89E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.42E+11 | 1.87E-03 | 8.25E+06 | 3.99E-01 | 7.92E+11 | 1.88E-03 |
| 8.43E+11 | 1.86E-03 | 8.26E+06 | 3.97E-01 | 7.93E+11 | 1.87E-03 |
| 8.44E+11 | 1.85E-03 | 8.27E+06 | 3.95E-01 | 7.94E+11 | 1.86E-03 |
| 8.45E+11 | 1.84E-03 | 8.28E+06 | 3.93E-01 | 7.95E+11 | 1.85E-03 |
| 8.46E+11 | 1.83E-03 | 8.29E+06 | 3.91E-01 | 7.96E+11 | 1.84E-03 |
| 8.47E+11 | 1.82E-03 | 8.30E+06 | 3.89E-01 | 7.97E+11 | 1.83E-03 |
| 8.47E+11 | 1.81E-03 | 8.30E+06 | 3.88E-01 | 7.98E+11 | 1.82E-03 |
| 8.48E+11 | 1.80E-03 | 8.31E+06 | 3.86E-01 | 7.99E+11 | 1.81E-03 |
| 8.49E+11 | 1.79E-03 | 8.32E+06 | 3.84E-01 | 8.00E+11 | 1.80E-03 |
| 8.50E+11 | 1.78E-03 | 8.33E+06 | 3.82E-01 | 8.00E+11 | 1.80E-03 |
| 8.50E+11 | 1.77E-03 | 8.33E+06 | 3.79E-01 | 8.01E+11 | 1.79E-03 |
| 8.51E+11 | 1.76E-03 | 8.34E+06 | 3.77E-01 | 8.02E+11 | 1.78E-03 |
| 8.52E+11 | 1.75E-03 | 8.35E+06 | 3.75E-01 | 8.02E+11 | 1.77E-03 |
| 8.53E+11 | 1.74E-03 | 8.36E+06 | 3.73E-01 | 8.03E+11 | 1.76E-03 |
| 8.54E+11 | 1.73E-03 | 8.37E+06 | 3.71E-01 | 8.04E+11 | 1.75E-03 |
| 8.55E+11 | 1.72E-03 | 8.38E+06 | 3.69E-01 | 8.05E+11 | 1.74E-03 |
| 8.56E+11 | 1.71E-03 | 8.39E+06 | 3.67E-01 | 8.06E+11 | 1.73E-03 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.07E+11 | 1.72E-03 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.08E+11 | 1.71E-03 |
| 8.58E+11 | 1.69E-03 | 8.41E+06 | 3.62E-01 | 8.09E+11 | 1.70E-03 |
| 8.59E+11 | 1.68E-03 | 8.42E+06 | 3.60E-01 | 8.10E+11 | 1.69E-03 |
| 8.60E+11 | 1.67E-03 | 8.43E+06 | 3.58E-01 | 8.10E+11 | 1.69E-03 |
| 8.61E+11 | 1.66E-03 | 8.44E+06 | 3.56E-01 | 8.11E+11 | 1.68E-03 |
| 8.62E+11 | 1.65E-03 | 8.45E+06 | 3.54E-01 | 8.12E+11 | 1.67E-03 |
| 8.63E+11 | 1.64E-03 | 8.46E+06 | 3.52E-01 | 8.13E+11 | 1.66E-03 |
| 8.64E+11 | 1.63E-03 | 8.47E+06 | 3.49E-01 | 8.14E+11 | 1.65E-03 |
| 8.65E+11 | 1.62E-03 | 8.48E+06 | 3.47E-01 | 8.15E+11 | 1.64E-03 |
| 8.66E+11 | 1.61E-03 | 8.48E+06 | 3.46E-01 | 8.16E+11 | 1.63E-03 |
| 8.66E+11 | 1.60E-03 | 8.49E+06 | 3.43E-01 | 8.17E+11 | 1.62E-03 |
| 8.67E+11 | 1.59E-03 | 8.50E+06 | 3.41E-01 | 8.17E+11 | 1.61E-03 |
| 8.68E+11 | 1.58E-03 | 8.51E+06 | 3.39E-01 | 8.18E+11 | 1.60E-03 |
| 8.69E+11 | 1.57E-03 | 8.52E+06 | 3.37E-01 | 8.19E+11 | 1.59E-03 |
| 8.70E+11 | 1.56E-03 | 8.53E+06 | 3.35E-01 | 8.20E+11 | 1.58E-03 |
| 8.71E+11 | 1.55E-03 | 8.54E+06 | 3.33E-01 | 8.21E+11 | 1.57E-03 |
| 8.72E+11 | 1.54E-03 | 8.55E+06 | 3.31E-01 | 8.22E+11 | 1.56E-03 |
| 8.73E+11 | 1.53E-03 | 8.56E+06 | 3.28E-01 | 8.23E+11 | 1.55E-03 |
| 8.74E+11 | 1.52E-03 | 8.57E+06 | 3.26E-01 | 8.24E+11 | 1.54E-03 |
| 8.75E+11 | 1.52E-03 | 8.58E+06 | 3.24E-01 | 8.25E+11 | 1.53E-03 |
| 8.76E+11 | 1.51E-03 | 8.59E+06 | 3.22E-01 | 8.26E+11 | 1.52E-03 |
| 8.77E+11 | 1.50E-03 | 8.60E+06 | 3.20E-01 | 8.27E+11 | 1.51E-03 |
| 8.79E+11 | 1.49E-03 | 8.61E+06 | 3.18E-01 | 8.28E+11 | 1.50E-03 |
| 8.80E+11 | 1.48E-03 | 8.62E+06 | 3.16E-01 | 8.29E+11 | 1.49E-03 |
| 8.81E+11 | 1.47E-03 | 8.63E+06 | 3.14E-01 | 8.30E+11 | 1.48E-03 |
| 8.81E+11 | 1.46E-03 | 8.63E+06 | 3.13E-01 | 8.31E+11 | 1.47E-03 |
| 8.82E+11 | 1.45E-03 | 8.64E+06 | 3.11E-01 | 8.32E+11 | 1.46E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.83E+11 | 1.44E-03 | 8.65E+06 | 3.09E-01 | 8.33E+11 | 1.45E-03 |
| 8.84E+11 | 1.43E-03 | 8.66E+06 | 3.07E-01 | 8.33E+11 | 1.45E-03 |
| 8.85E+11 | 1.42E-03 | 8.67E+06 | 3.05E-01 | 8.34E+11 | 1.44E-03 |
| 8.86E+11 | 1.41E-03 | 8.68E+06 | 3.03E-01 | 8.35E+11 | 1.43E-03 |
| 8.87E+11 | 1.40E-03 | 8.69E+06 | 3.01E-01 | 8.36E+11 | 1.42E-03 |
| 8.88E+11 | 1.39E-03 | 8.70E+06 | 2.99E-01 | 8.37E+11 | 1.41E-03 |
| 8.89E+11 | 1.38E-03 | 8.71E+06 | 2.96E-01 | 8.38E+11 | 1.40E-03 |
| 8.90E+11 | 1.38E-03 | 8.72E+06 | 2.96E-01 | 8.39E+11 | 1.39E-03 |
| 8.91E+11 | 1.37E-03 | 8.73E+06 | 2.93E-01 | 8.40E+11 | 1.38E-03 |
| 8.92E+11 | 1.36E-03 | 8.74E+06 | 2.91E-01 | 8.41E+11 | 1.37E-03 |
| 8.93E+11 | 1.35E-03 | 8.75E+06 | 2.89E-01 | 8.42E+11 | 1.36E-03 |
| 8.94E+11 | 1.34E-03 | 8.76E+06 | 2.87E-01 | 8.43E+11 | 1.35E-03 |
| 8.95E+11 | 1.33E-03 | 8.77E+06 | 2.85E-01 | 8.44E+11 | 1.34E-03 |
| 8.96E+11 | 1.33E-03 | 8.78E+06 | 2.84E-01 | 8.45E+11 | 1.33E-03 |
| 8.97E+11 | 1.32E-03 | 8.79E+06 | 2.82E-01 | 8.46E+11 | 1.32E-03 |
| 8.98E+11 | 1.31E-03 | 8.80E+06 | 2.80E-01 | 8.47E+11 | 1.31E-03 |
| 8.99E+11 | 1.30E-03 | 8.81E+06 | 2.78E-01 | 8.48E+11 | 1.31E-03 |
| 9.00E+11 | 1.29E-03 | 8.82E+06 | 2.76E-01 | 8.49E+11 | 1.30E-03 |
| 9.02E+11 | 1.28E-03 | 8.83E+06 | 2.73E-01 | 8.50E+11 | 1.29E-03 |
| 9.02E+11 | 1.27E-03 | 8.84E+06 | 2.73E-01 | 8.51E+11 | 1.28E-03 |
| 9.03E+11 | 1.26E-03 | 8.85E+06 | 2.71E-01 | 8.52E+11 | 1.27E-03 |
| 9.04E+11 | 1.25E-03 | 8.86E+06 | 2.69E-01 | 8.53E+11 | 1.26E-03 |
| 9.05E+11 | 1.24E-03 | 8.87E+06 | 2.66E-01 | 8.54E+11 | 1.25E-03 |
| 9.07E+11 | 1.23E-03 | 8.89E+06 | 2.64E-01 | 8.56E+11 | 1.24E-03 |
| 9.08E+11 | 1.22E-03 | 8.90E+06 | 2.62E-01 | 8.57E+11 | 1.23E-03 |
| 9.09E+11 | 1.21E-03 | 8.91E+06 | 2.60E-01 | 8.58E+11 | 1.22E-03 |
| 9.10E+11 | 1.21E-03 | 8.92E+06 | 2.58E-01 | 8.59E+11 | 1.21E-03 |
| 9.11E+11 | 1.20E-03 | 8.93E+06 | 2.56E-01 | 8.60E+11 | 1.20E-03 |
| 9.13E+11 | 1.19E-03 | 8.95E+06 | 2.54E-01 | 8.60E+11 | 1.20E-03 |
| 9.14E+11 | 1.18E-03 | 8.96E+06 | 2.52E-01 | 8.61E+11 | 1.19E-03 |
| 9.16E+11 | 1.17E-03 | 8.97E+06 | 2.49E-01 | 8.62E+11 | 1.18E-03 |
| 9.17E+11 | 1.16E-03 | 8.98E+06 | 2.48E-01 | 8.64E+11 | 1.17E-03 |
| 9.18E+11 | 1.15E-03 | 9.00E+06 | 2.45E-01 | 8.65E+11 | 1.16E-03 |
| 9.20E+11 | 1.14E-03 | 9.01E+06 | 2.43E-01 | 8.66E+11 | 1.15E-03 |
| 9.21E+11 | 1.13E-03 | 9.03E+06 | 2.41E-01 | 8.67E+11 | 1.14E-03 |
| 9.22E+11 | 1.12E-03 | 9.04E+06 | 2.39E-01 | 8.69E+11 | 1.13E-03 |
| 9.23E+11 | 1.11E-03 | 9.05E+06 | 2.38E-01 | 8.70E+11 | 1.12E-03 |
| 9.24E+11 | 1.10E-03 | 9.06E+06 | 2.36E-01 | 8.71E+11 | 1.11E-03 |
| 9.26E+11 | 1.09E-03 | 9.07E+06 | 2.34E-01 | 8.72E+11 | 1.10E-03 |
| 9.27E+11 | 1.08E-03 | 9.09E+06 | 2.31E-01 | 8.73E+11 | 1.09E-03 |
| 9.29E+11 | 1.07E-03 | 9.10E+06 | 2.29E-01 | 8.74E+11 | 1.08E-03 |
| 9.30E+11 | 1.06E-03 | 9.11E+06 | 2.27E-01 | 8.76E+11 | 1.07E-03 |
| 9.32E+11 | 1.05E-03 | 9.13E+06 | 2.25E-01 | 8.77E+11 | 1.06E-03 |
| 9.33E+11 | 1.04E-03 | 9.15E+06 | 2.23E-01 | 8.79E+11 | 1.05E-03 |
| 9.35E+11 | 1.03E-03 | 9.16E+06 | 2.21E-01 | 8.80E+11 | 1.05E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.35E+11 | 1.03E-03 | 9.17E+06 | 2.20E-01 | 8.81E+11 | 1.04E-03 |
| 9.37E+11 | 1.02E-03 | 9.18E+06 | 2.18E-01 | 8.83E+11 | 1.03E-03 |
| 9.38E+11 | 1.01E-03 | 9.19E+06 | 2.16E-01 | 8.84E+11 | 1.02E-03 |
| 9.40E+11 | 9.99E-04 | 9.21E+06 | 2.14E-01 | 8.85E+11 | 1.01E-03 |
| 9.42E+11 | 9.89E-04 | 9.23E+06 | 2.12E-01 | 8.86E+11 | 1.00E-03 |
| 9.42E+11 | 9.87E-04 | 9.23E+06 | 2.11E-01 | 8.87E+11 | 9.92E-04 |
| 9.43E+11 | 9.77E-04 | 9.25E+06 | 2.09E-01 | 8.89E+11 | 9.82E-04 |
| 9.45E+11 | 9.67E-04 | 9.26E+06 | 2.07E-01 | 8.91E+11 | 9.72E-04 |
| 9.47E+11 | 9.57E-04 | 9.28E+06 | 2.05E-01 | 8.92E+11 | 9.62E-04 |
| 9.48E+11 | 9.49E-04 | 9.29E+06 | 2.03E-01 | 8.94E+11 | 9.52E-04 |
| 9.50E+11 | 9.39E-04 | 9.31E+06 | 2.01E-01 | 8.96E+11 | 9.42E-04 |
| 9.52E+11 | 9.29E-04 | 9.33E+06 | 1.99E-01 | 8.96E+11 | 9.40E-04 |
| 9.53E+11 | 9.21E-04 | 9.34E+06 | 1.97E-01 | 8.97E+11 | 9.30E-04 |
| 9.54E+11 | 9.11E-04 | 9.35E+06 | 1.95E-01 | 8.98E+11 | 9.20E-04 |
| 9.56E+11 | 9.01E-04 | 9.37E+06 | 1.93E-01 | 9.00E+11 | 9.10E-04 |
| 9.58E+11 | 8.91E-04 | 9.39E+06 | 1.91E-01 | 9.02E+11 | 9.00E-04 |
| 9.58E+11 | 8.88E-04 | 9.39E+06 | 1.90E-01 | 9.03E+11 | 8.96E-04 |
| 9.60E+11 | 8.78E-04 | 9.41E+06 | 1.88E-01 | 9.04E+11 | 8.86E-04 |
| 9.62E+11 | 8.68E-04 | 9.43E+06 | 1.86E-01 | 9.06E+11 | 8.76E-04 |
| 9.63E+11 | 8.65E-04 | 9.44E+06 | 1.85E-01 | 9.07E+11 | 8.71E-04 |
| 9.65E+11 | 8.55E-04 | 9.46E+06 | 1.83E-01 | 9.08E+11 | 8.61E-04 |
| 9.67E+11 | 8.46E-04 | 9.48E+06 | 1.81E-01 | 9.10E+11 | 8.51E-04 |
| 9.70E+11 | 8.36E-04 | 9.51E+06 | 1.79E-01 | 9.11E+11 | 8.44E-04 |
| 9.73E+11 | 8.28E-04 | 9.53E+06 | 1.77E-01 | 9.12E+11 | 8.37E-04 |
| 9.77E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.13E+11 | 8.27E-04 |
| 9.78E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.15E+11 | 8.17E-04 |
| 9.83E+11 | 8.08E-04 | 9.63E+06 | 1.73E-01 | 9.15E+11 | 8.16E-04 |
| 9.85E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.17E+11 | 8.06E-04 |
| 9.86E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.19E+11 | 7.96E-04 |
| 9.99E+11 | 7.94E-04 | 9.79E+06 | 1.70E-01 | 9.20E+11 | 7.94E-04 |
| 1.00E+12 | 7.90E-04 | 9.84E+06 | 1.69E-01 | 9.22E+11 | 7.84E-04 |
| 1.01E+12 | 7.82E-04 | 9.94E+06 | 1.67E-01 | 9.23E+11 | 7.79E-04 |
| 1.02E+12 | 7.76E-04 | 9.96E+06 | 1.66E-01 | 9.26E+11 | 7.69E-04 |
| 1.02E+12 | 7.66E-04 | 9.95E+06 | 1.64E-01 | 9.28E+11 | 7.62E-04 |
| 1.02E+12 | 7.60E-04 | 9.95E+06 | 1.63E-01 | 9.33E+11 | 7.52E-04 |
| 1.01E+12 | 7.50E-04 | 9.94E+06 | 1.61E-01 | 9.37E+11 | 7.46E-04 |
| 1.01E+12 | 7.45E-04 | 9.92E+06 | 1.60E-01 | 9.40E+11 | 7.41E-04 |
| 1.01E+12 | 7.35E-04 | 9.91E+06 | 1.57E-01 | 9.51E+11 | 7.31E-04 |
| 1.01E+12 | 7.29E-04 | 9.89E+06 | 1.56E-01 | 9.57E+11 | 7.26E-04 |
| 1.01E+12 | 7.19E-04 | 9.87E+06 | 1.54E-01 | 9.58E+11 | 7.20E-04 |
| 1.01E+12 | 7.09E-04 | 9.85E+06 | 1.52E-01 | 9.59E+11 | 7.19E-04 |
| 1.00E+12 | 7.01E-04 | 9.83E+06 | 1.50E-01 | 9.58E+11 | 7.09E-04 |
| 1.00E+12 | 6.94E-04 | 9.80E+06 | 1.49E-01 | 9.55E+11 | 6.99E-04 |
| 9.97E+11 | 6.88E-04 | 9.77E+06 | 1.47E-01 | 9.51E+11 | 6.89E-04 |
| 9.91E+11 | 6.78E-04 | 9.71E+06 | 1.45E-01 | 9.51E+11 | 6.88E-04 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.86E+11 | 6.69E-04 | 9.66E+06 | 1.43E-01 | 9.47E+11 | 6.78E-04 |
| 9.82E+11 | 6.64E-04 | 9.63E+06 | 1.42E-01 | 9.43E+11 | 6.69E-04 |
| 9.78E+11 | 6.58E-04 | 9.58E+06 | 1.41E-01 | 9.40E+11 | 6.63E-04 |
| 9.73E+11 | 6.52E-04 | 9.53E+06 | 1.40E-01 | 9.36E+11 | 6.57E-04 |
| 9.63E+11 | 6.43E-04 | 9.43E+06 | 1.38E-01 | 9.30E+11 | 6.51E-04 |
| 9.54E+11 | 6.35E-04 | 9.35E+06 | 1.36E-01 | 9.20E+11 | 6.43E-04 |
| 9.45E+11 | 6.28E-04 | 9.26E+06 | 1.35E-01 | 9.16E+11 | 6.40E-04 |
| 9.35E+11 | 6.21E-04 | 9.16E+06 | 1.33E-01 | 9.02E+11 | 6.30E-04 |
| 9.33E+11 | 6.20E-04 | 9.14E+06 | 1.33E-01 | 8.88E+11 | 6.20E-04 |
| 9.18E+11 | 6.10E-04 | 8.99E+06 | 1.31E-01 | 8.74E+11 | 6.10E-04 |
| 9.03E+11 | 6.00E-04 | 8.85E+06 | 1.28E-01 | 8.59E+11 | 6.00E-04 |
| 8.88E+11 | 5.90E-04 | 8.70E+06 | 1.26E-01 | 8.45E+11 | 5.90E-04 |
| 8.73E+11 | 5.80E-04 | 8.55E+06 | 1.24E-01 | 8.31E+11 | 5.80E-04 |
| 8.58E+11 | 5.70E-04 | 8.40E+06 | 1.22E-01 | 8.16E+11 | 5.70E-04 |
| 8.43E+11 | 5.60E-04 | 8.26E+06 | 1.20E-01 | 8.02E+11 | 5.60E-04 |
| 8.28E+11 | 5.50E-04 | 8.11E+06 | 1.18E-01 | 7.88E+11 | 5.50E-04 |
| 8.13E+11 | 5.40E-04 | 7.96E+06 | 1.16E-01 | 7.73E+11 | 5.40E-04 |
| 7.98E+11 | 5.30E-04 | 7.82E+06 | 1.13E-01 | 7.59E+11 | 5.30E-04 |
| 7.82E+11 | 5.20E-04 | 7.67E+06 | 1.11E-01 | 7.45E+11 | 5.20E-04 |
| 7.67E+11 | 5.10E-04 | 7.52E+06 | 1.09E-01 | 7.30E+11 | 5.10E-04 |
| 7.52E+11 | 5.00E-04 | 7.37E+06 | 1.07E-01 | 7.16E+11 | 5.00E-04 |
| 7.37E+11 | 4.90E-04 | 7.23E+06 | 1.05E-01 | 7.02E+11 | 4.90E-04 |
| 7.22E+11 | 4.80E-04 | 7.08E+06 | 1.03E-01 | 6.88E+11 | 4.80E-04 |
| 7.07E+11 | 4.70E-04 | 6.93E+06 | 1.01E-01 | 6.73E+11 | 4.70E-04 |
| 6.92E+11 | 4.60E-04 | 6.78E+06 | 9.85E-02 | 6.59E+11 | 4.60E-04 |
| 6.77E+11 | 4.50E-04 | 6.64E+06 | 9.64E-02 | 6.45E+11 | 4.50E-04 |
| 6.62E+11 | 4.40E-04 | 6.49E+06 | 9.42E-02 | 6.30E+11 | 4.40E-04 |
| 6.47E+11 | 4.30E-04 | 6.34E+06 | 9.21E-02 | 6.16E+11 | 4.30E-04 |
| 6.32E+11 | 4.20E-04 | 6.19E+06 | 8.99E-02 | 6.02E+11 | 4.20E-04 |
| 6.17E+11 | 4.10E-04 | 6.05E+06 | 8.78E-02 | 5.87E+11 | 4.10E-04 |
| 6.02E+11 | 4.00E-04 | 5.90E+06 | 8.57E-02 | 5.73E+11 | 4.00E-04 |
| 5.87E+11 | 3.90E-04 | 5.75E+06 | 8.35E-02 | 5.59E+11 | 3.90E-04 |
| 5.72E+11 | 3.80E-04 | 5.60E+06 | 8.14E-02 | 5.44E+11 | 3.80E-04 |
| 5.57E+11 | 3.70E-04 | 5.46E+06 | 7.92E-02 | 5.30E+11 | 3.70E-04 |
| 5.42E+11 | 3.60E-04 | 5.31E+06 | 7.71E-02 | 5.16E+11 | 3.60E-04 |
| 5.27E+11 | 3.50E-04 | 5.16E+06 | 7.49E-02 | 5.01E+11 | 3.50E-04 |
| 5.12E+11 | 3.40E-04 | 5.01E+06 | 7.28E-02 | 4.87E+11 | 3.40E-04 |
| 4.97E+11 | 3.30E-04 | 4.87E+06 | 7.07E-02 | 4.73E+11 | 3.30E-04 |
| 4.82E+11 | 3.20E-04 | 4.72E+06 | 6.85E-02 | 4.58E+11 | 3.20E-04 |
| 4.67E+11 | 3.10E-04 | 4.57E+06 | 6.64E-02 | 4.44E+11 | 3.10E-04 |
| 4.51E+11 | 3.00E-04 | 4.42E+06 | 6.42E-02 | 4.30E+11 | 3.00E-04 |
| 4.36E+11 | 2.90E-04 | 4.28E+06 | 6.21E-02 | 4.15E+11 | 2.90E-04 |
| 4.21E+11 | 2.80E-04 | 4.13E+06 | 6.00E-02 | 4.01E+11 | 2.80E-04 |
| 4.06E+11 | 2.70E-04 | 3.98E+06 | 5.78E-02 | 3.87E+11 | 2.70E-04 |
| 3.91E+11 | 2.60E-04 | 3.83E+06 | 5.57E-02 | 3.72E+11 | 2.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.76E+11 | 2.50E-04 | 3.69E+06 | 5.35E-02 | 3.58E+11 | 2.50E-04 |
| 3.61E+11 | 2.40E-04 | 3.54E+06 | 5.14E-02 | 3.44E+11 | 2.40E-04 |
| 3.46E+11 | 2.30E-04 | 3.39E+06 | 4.93E-02 | 3.29E+11 | 2.30E-04 |
| 3.31E+11 | 2.20E-04 | 3.24E+06 | 4.71E-02 | 3.15E+11 | 2.20E-04 |
| 3.16E+11 | 2.10E-04 | 3.10E+06 | 4.50E-02 | 3.01E+11 | 2.10E-04 |
| 3.01E+11 | 2.00E-04 | 2.95E+06 | 4.28E-02 | 2.87E+11 | 2.00E-04 |
| 2.86E+11 | 1.90E-04 | 2.80E+06 | 4.07E-02 | 2.72E+11 | 1.90E-04 |
| 2.71E+11 | 1.80E-04 | 2.65E+06 | 3.85E-02 | 2.58E+11 | 1.80E-04 |
| 2.56E+11 | 1.70E-04 | 2.51E+06 | 3.64E-02 | 2.44E+11 | 1.70E-04 |
| 2.41E+11 | 1.60E-04 | 2.36E+06 | 3.43E-02 | 2.29E+11 | 1.60E-04 |
| 2.26E+11 | 1.50E-04 | 2.21E+06 | 3.21E-02 | 2.15E+11 | 1.50E-04 |
| 2.11E+11 | 1.40E-04 | 2.06E+06 | 3.00E-02 | 2.01E+11 | 1.40E-04 |
| 1.96E+11 | 1.30E-04 | 1.92E+06 | 2.78E-02 | 1.86E+11 | 1.30E-04 |
| 1.81E+11 | 1.20E-04 | 1.77E+06 | 2.57E-02 | 1.72E+11 | 1.20E-04 |
| 1.66E+11 | 1.10E-04 | 1.62E+06 | 2.36E-02 | 1.58E+11 | 1.10E-04 |
| 1.51E+11 | 1.00E-04 | 1.47E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 |
| 1.35E+11 | 9.00E-05 | 1.33E+06 | 1.93E-02 | 1.29E+11 | 9.00E-05 |
| 1.20E+11 | 8.00E-05 | 1.18E+06 | 1.71E-02 | 1.15E+11 | 8.00E-05 |
| 1.05E+11 | 7.00E-05 | 1.03E+06 | 1.50E-02 | 1.00E+11 | 7.00E-05 |
| 9.03E+10 | 6.00E-05 | 8.85E+05 | 1.28E-02 | 8.59E+10 | 6.00E-05 |
| 7.52E+10 | 5.00E-05 | 7.37E+05 | 1.07E-02 | 7.16E+10 | 5.00E-05 |
| 6.02E+10 | 4.00E-05 | 5.90E+05 | 8.57E-03 | 5.73E+10 | 4.00E-05 |
| 4.51E+10 | 3.00E-05 | 4.42E+05 | 6.42E-03 | 4.30E+10 | 3.00E-05 |
| 3.01E+10 | 2.00E-05 | 2.95E+05 | 4.28E-03 | 2.87E+10 | 2.00E-05 |
| 1.51E+10 | 1.00E-05 | 1.47E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 |
| 1.35E+10 | 9.00E-06 | 1.33E+05 | 1.93E-03 | 1.29E+10 | 9.00E-06 |
| 1.20E+10 | 8.00E-06 | 1.18E+05 | 1.71E-03 | 1.15E+10 | 8.00E-06 |
| 1.05E+10 | 7.00E-06 | 1.03E+05 | 1.50E-03 | 1.00E+10 | 7.00E-06 |
| 9.03E+09 | 6.00E-06 | 8.85E+04 | 1.28E-03 | 8.60E+09 | 6.00E-06 |
| 7.53E+09 | 5.00E-06 | 7.37E+04 | 1.07E-03 | 7.16E+09 | 5.00E-06 |
| 6.02E+09 | 4.00E-06 | 5.90E+04 | 8.57E-04 | 5.73E+09 | 4.00E-06 |
| 4.52E+09 | 3.00E-06 | 4.42E+04 | 6.42E-04 | 4.30E+09 | 3.00E-06 |
| 3.01E+09 | 2.00E-06 | 2.95E+04 | 4.28E-04 | 2.87E+09 | 2.00E-06 |
| 1.51E+09 | 1.00E-06 | 1.47E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.51E+09 | -1.00E-06 | -1.47E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 |
| -3.01E+09 | -2.00E-06 | -2.95E+04 | -4.28E-04 | -2.87E+09 | -2.00E-06 |
| -4.52E+09 | -3.00E-06 | -4.42E+04 | -6.42E-04 | -4.30E+09 | -3.00E-06 |
| -6.02E+09 | -4.00E-06 | -5.90E+04 | -8.57E-04 | -5.73E+09 | -4.00E-06 |
| -7.52E+09 | -5.00E-06 | -7.37E+04 | -1.07E-03 | -7.16E+09 | -5.00E-06 |
| -9.03E+09 | -6.00E-06 | -8.85E+04 | -1.28E-03 | -8.59E+09 | -6.00E-06 |
| -1.05E+10 | -7.00E-06 | -1.03E+05 | -1.50E-03 | -1.00E+10 | -7.00E-06 |
| -1.20E+10 | -8.00E-06 | -1.18E+05 | -1.71E-03 | -1.15E+10 | -8.00E-06 |
| -1.35E+10 | -9.00E-06 | -1.33E+05 | -1.93E-03 | -1.29E+10 | -9.00E-06 |
| -1.51E+10 | -1.00E-05 | -1.47E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -3.01E+10 | -2.00E-05 | -2.95E+05 | -4.28E-03 | -2.87E+10 | -2.00E-05 |
| -4.51E+10 | -3.00E-05 | -4.42E+05 | -6.42E-03 | -4.30E+10 | -3.00E-05 |
| -6.02E+10 | -4.00E-05 | -5.90E+05 | -8.57E-03 | -5.73E+10 | -4.00E-05 |
| -7.52E+10 | -5.00E-05 | -7.37E+05 | -1.07E-02 | -7.16E+10 | -5.00E-05 |
| -9.03E+10 | -6.00E-05 | -8.85E+05 | -1.28E-02 | -8.59E+10 | -6.00E-05 |
| -1.05E+11 | -7.00E-05 | -1.03E+06 | -1.50E-02 | -1.00E+11 | -7.00E-05 |
| -1.20E+11 | -8.00E-05 | -1.18E+06 | -1.71E-02 | -1.15E+11 | -8.00E-05 |
| -1.35E+11 | -9.00E-05 | -1.33E+06 | -1.93E-02 | -1.29E+11 | -9.00E-05 |
| -1.51E+11 | -1.00E-04 | -1.47E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 |
| -1.66E+11 | -1.10E-04 | -1.62E+06 | -2.36E-02 | -1.58E+11 | -1.10E-04 |
| -1.81E+11 | -1.20E-04 | -1.77E+06 | -2.57E-02 | -1.72E+11 | -1.20E-04 |
| -1.96E+11 | -1.30E-04 | -1.92E+06 | -2.78E-02 | -1.86E+11 | -1.30E-04 |
| -2.11E+11 | -1.40E-04 | -2.06E+06 | -3.00E-02 | -2.01E+11 | -1.40E-04 |
| -2.26E+11 | -1.50E-04 | -2.21E+06 | -3.21E-02 | -2.15E+11 | -1.50E-04 |
| -2.41E+11 | -1.60E-04 | -2.36E+06 | -3.43E-02 | -2.29E+11 | -1.60E-04 |
| -2.56E+11 | -1.70E-04 | -2.51E+06 | -3.64E-02 | -2.44E+11 | -1.70E-04 |
| -2.71E+11 | -1.80E-04 | -2.65E+06 | -3.85E-02 | -2.58E+11 | -1.80E-04 |
| -2.86E+11 | -1.90E-04 | -2.80E+06 | -4.07E-02 | -2.72E+11 | -1.90E-04 |
| -3.01E+11 | -2.00E-04 | -2.95E+06 | -4.28E-02 | -2.86E+11 | -2.00E-04 |
| -3.16E+11 | -2.10E-04 | -3.10E+06 | -4.50E-02 | -3.01E+11 | -2.10E-04 |
| -3.31E+11 | -2.20E-04 | -3.24E+06 | -4.71E-02 | -3.15E+11 | -2.20E-04 |
| -3.46E+11 | -2.30E-04 | -3.39E+06 | -4.93E-02 | -3.29E+11 | -2.30E-04 |
| -3.61E+11 | -2.40E-04 | -3.54E+06 | -5.14E-02 | -3.44E+11 | -2.40E-04 |
| -3.76E+11 | -2.50E-04 | -3.69E+06 | -5.35E-02 | -3.58E+11 | -2.50E-04 |
| -3.91E+11 | -2.60E-04 | -3.83E+06 | -5.57E-02 | -3.72E+11 | -2.60E-04 |
| -4.06E+11 | -2.70E-04 | -3.98E+06 | -5.78E-02 | -3.87E+11 | -2.70E-04 |
| -4.21E+11 | -2.80E-04 | -4.13E+06 | -6.00E-02 | -4.01E+11 | -2.80E-04 |
| -4.36E+11 | -2.90E-04 | -4.28E+06 | -6.21E-02 | -4.15E+11 | -2.90E-04 |
| -4.51E+11 | -3.00E-04 | -4.42E+06 | -6.42E-02 | -4.30E+11 | -3.00E-04 |
| -4.66E+11 | -3.10E-04 | -4.57E+06 | -6.64E-02 | -4.44E+11 | -3.10E-04 |
| -4.81E+11 | -3.20E-04 | -4.72E+06 | -6.85E-02 | -4.58E+11 | -3.20E-04 |
| -4.97E+11 | -3.30E-04 | -4.87E+06 | -7.07E-02 | -4.73E+11 | -3.30E-04 |
| -5.12E+11 | -3.40E-04 | -5.01E+06 | -7.28E-02 | -4.87E+11 | -3.40E-04 |
| -5.27E+11 | -3.50E-04 | -5.16E+06 | -7.49E-02 | -5.01E+11 | -3.50E-04 |
| -5.42E+11 | -3.60E-04 | -5.31E+06 | -7.71E-02 | -5.16E+11 | -3.60E-04 |
| -5.57E+11 | -3.70E-04 | -5.45E+06 | -7.92E-02 | -5.30E+11 | -3.70E-04 |
| -5.72E+11 | -3.80E-04 | -5.60E+06 | -8.14E-02 | -5.44E+11 | -3.80E-04 |
| -5.87E+11 | -3.90E-04 | -5.75E+06 | -8.35E-02 | -5.59E+11 | -3.90E-04 |
| -6.02E+11 | -4.00E-04 | -5.90E+06 | -8.57E-02 | -5.73E+11 | -4.00E-04 |
| -6.17E+11 | -4.10E-04 | -6.04E+06 | -8.78E-02 | -5.87E+11 | -4.10E-04 |
| -6.32E+11 | -4.20E-04 | -6.19E+06 | -8.99E-02 | -6.01E+11 | -4.20E-04 |
| -6.47E+11 | -4.30E-04 | -6.34E+06 | -9.21E-02 | -6.16E+11 | -4.30E-04 |
| -6.62E+11 | -4.40E-04 | -6.49E+06 | -9.42E-02 | -6.30E+11 | -4.40E-04 |
| -6.77E+11 | -4.50E-04 | -6.63E+06 | -9.64E-02 | -6.44E+11 | -4.50E-04 |
| -6.92E+11 | -4.60E-04 | -6.78E+06 | -9.85E-02 | -6.59E+11 | -4.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -7.07E+11 | -4.70E-04 | -6.93E+06 | -1.01E-01 | -6.73E+11 | -4.70E-04 |
| -7.22E+11 | -4.80E-04 | -7.08E+06 | -1.03E-01 | -6.87E+11 | -4.80E-04 |
| -7.37E+11 | -4.90E-04 | -7.22E+06 | -1.05E-01 | -7.02E+11 | -4.90E-04 |
| -7.52E+11 | -5.00E-04 | -7.37E+06 | -1.07E-01 | -7.16E+11 | -5.00E-04 |
| -7.67E+11 | -5.10E-04 | -7.52E+06 | -1.09E-01 | -7.30E+11 | -5.10E-04 |
| -7.82E+11 | -5.20E-04 | -7.67E+06 | -1.11E-01 | -7.45E+11 | -5.20E-04 |
| -7.97E+11 | -5.30E-04 | -7.81E+06 | -1.13E-01 | -7.59E+11 | -5.30E-04 |
| -8.12E+11 | -5.40E-04 | -7.96E+06 | -1.16E-01 | -7.73E+11 | -5.40E-04 |
| -8.27E+11 | -5.50E-04 | -8.11E+06 | -1.18E-01 | -7.88E+11 | -5.50E-04 |
| -8.42E+11 | -5.60E-04 | -8.25E+06 | -1.20E-01 | -8.02E+11 | -5.60E-04 |
| -8.57E+11 | -5.70E-04 | -8.40E+06 | -1.22E-01 | -8.16E+11 | -5.70E-04 |
| -8.70E+11 | -5.78E-04 | -8.52E+06 | -1.24E-01 | -8.30E+11 | -5.80E-04 |
| -8.84E+11 | -5.88E-04 | -8.66E+06 | -1.26E-01 | -8.45E+11 | -5.90E-04 |
| -8.95E+11 | -5.96E-04 | -8.77E+06 | -1.28E-01 | -8.57E+11 | -5.99E-04 |
| -9.03E+11 | -6.03E-04 | -8.85E+06 | -1.29E-01 | -8.70E+11 | -6.09E-04 |
| -9.09E+11 | -6.09E-04 | -8.91E+06 | -1.30E-01 | -8.82E+11 | -6.17E-04 |
| -9.15E+11 | -6.16E-04 | -8.97E+06 | -1.32E-01 | -8.89E+11 | -6.24E-04 |
| -9.20E+11 | -6.22E-04 | -9.01E+06 | -1.33E-01 | -8.95E+11 | -6.30E-04 |
| -9.23E+11 | -6.28E-04 | -9.04E+06 | -1.34E-01 | -9.00E+11 | -6.35E-04 |
| -9.24E+11 | -6.33E-04 | -9.05E+06 | -1.36E-01 | -9.05E+11 | -6.42E-04 |
| -9.25E+11 | -6.43E-04 | -9.07E+06 | -1.38E-01 | -9.08E+11 | -6.47E-04 |
| -9.27E+11 | -6.50E-04 | -9.08E+06 | -1.39E-01 | -9.10E+11 | -6.52E-04 |
| -9.28E+11 | -6.57E-04 | -9.09E+06 | -1.41E-01 | -9.12E+11 | -6.58E-04 |
| -9.28E+11 | -6.63E-04 | -9.09E+06 | -1.42E-01 | -9.13E+11 | -6.68E-04 |
| -9.28E+11 | -6.68E-04 | -9.10E+06 | -1.43E-01 | -9.14E+11 | -6.74E-04 |
| -9.28E+11 | -6.72E-04 | -9.10E+06 | -1.44E-01 | -9.15E+11 | -6.80E-04 |
| -9.28E+11 | -6.77E-04 | -9.09E+06 | -1.45E-01 | -9.16E+11 | -6.87E-04 |
| -9.27E+11 | -6.83E-04 | -9.09E+06 | -1.46E-01 | -9.16E+11 | -6.92E-04 |
| -9.27E+11 | -6.87E-04 | -9.08E+06 | -1.47E-01 | -9.16E+11 | -6.97E-04 |
| -9.24E+11 | -6.97E-04 | -9.05E+06 | -1.49E-01 | -9.16E+11 | -7.02E-04 |
| -9.18E+11 | -7.07E-04 | -9.00E+06 | -1.51E-01 | -9.15E+11 | -7.07E-04 |
| -9.10E+11 | -7.17E-04 | -8.92E+06 | -1.54E-01 | -9.14E+11 | -7.13E-04 |
| -9.08E+11 | -7.18E-04 | -8.90E+06 | -1.54E-01 | -9.11E+11 | -7.23E-04 |
| -8.95E+11 | -7.28E-04 | -8.77E+06 | -1.56E-01 | -9.05E+11 | -7.33E-04 |
| -8.93E+11 | -7.30E-04 | -8.75E+06 | -1.56E-01 | -8.96E+11 | -7.43E-04 |
| -8.77E+11 | -7.40E-04 | -8.60E+06 | -1.58E-01 | -8.94E+11 | -7.45E-04 |
| -8.67E+11 | -7.47E-04 | -8.50E+06 | -1.60E-01 | -8.79E+11 | -7.55E-04 |
| -8.55E+11 | -7.57E-04 | -8.38E+06 | -1.62E-01 | -8.76E+11 | -7.57E-04 |
| -8.52E+11 | -7.60E-04 | -8.35E+06 | -1.63E-01 | -8.61E+11 | -7.67E-04 |
| -8.43E+11 | -7.70E-04 | -8.26E+06 | -1.65E-01 | -8.52E+11 | -7.74E-04 |
| -8.36E+11 | -7.80E-04 | -8.19E+06 | -1.67E-01 | -8.42E+11 | -7.84E-04 |
| -8.35E+11 | -7.81E-04 | -8.19E+06 | -1.67E-01 | -8.37E+11 | -7.89E-04 |
| -8.29E+11 | -7.91E-04 | -8.12E+06 | -1.69E-01 | -8.29E+11 | -7.99E-04 |
| -8.25E+11 | -8.00E-04 | -8.08E+06 | -1.71E-01 | -8.23E+11 | -8.09E-04 |
| -8.19E+11 | -8.10E-04 | -8.03E+06 | -1.73E-01 | -8.22E+11 | -8.10E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.15E+11 | -8.20E-04 | -7.99E+06 | -1.75E-01 | -8.16E+11 | -8.20E-04 |
| -8.13E+11 | -8.24E-04 | -7.97E+06 | -1.76E-01 | -8.12E+11 | -8.30E-04 |
| -8.10E+11 | -8.31E-04 | -7.94E+06 | -1.78E-01 | -8.11E+11 | -8.31E-04 |
| -8.06E+11 | -8.41E-04 | -7.89E+06 | -1.80E-01 | -8.07E+11 | -8.41E-04 |
| -8.02E+11 | -8.51E-04 | -7.85E+06 | -1.82E-01 | -8.03E+11 | -8.51E-04 |
| -7.98E+11 | -8.61E-04 | -7.82E+06 | -1.84E-01 | -8.01E+11 | -8.55E-04 |
| -7.96E+11 | -8.64E-04 | -7.80E+06 | -1.85E-01 | -7.97E+11 | -8.64E-04 |
| -7.93E+11 | -8.74E-04 | -7.77E+06 | -1.87E-01 | -7.93E+11 | -8.74E-04 |
| -7.93E+11 | -8.75E-04 | -7.77E+06 | -1.87E-01 | -7.89E+11 | -8.84E-04 |
| -7.89E+11 | -8.85E-04 | -7.73E+06 | -1.89E-01 | -7.86E+11 | -8.94E-04 |
| -7.85E+11 | -8.95E-04 | -7.70E+06 | -1.92E-01 | -7.84E+11 | -9.00E-04 |
| -7.82E+11 | -9.05E-04 | -7.66E+06 | -1.94E-01 | -7.81E+11 | -9.09E-04 |
| -7.78E+11 | -9.15E-04 | -7.63E+06 | -1.96E-01 | -7.78E+11 | -9.19E-04 |
| -7.76E+11 | -9.23E-04 | -7.60E+06 | -1.98E-01 | -7.74E+11 | -9.29E-04 |
| -7.74E+11 | -9.30E-04 | -7.58E+06 | -1.99E-01 | -7.71E+11 | -9.39E-04 |
| -7.71E+11 | -9.40E-04 | -7.55E+06 | -2.01E-01 | -7.68E+11 | -9.49E-04 |
| -7.67E+11 | -9.50E-04 | -7.52E+06 | -2.03E-01 | -7.65E+11 | -9.59E-04 |
| -7.64E+11 | -9.60E-04 | -7.49E+06 | -2.06E-01 | -7.64E+11 | -9.62E-04 |
| -7.61E+11 | -9.70E-04 | -7.46E+06 | -2.08E-01 | -7.61E+11 | -9.72E-04 |
| -7.58E+11 | -9.80E-04 | -7.43E+06 | -2.10E-01 | -7.57E+11 | -9.82E-04 |
| -7.55E+11 | -9.90E-04 | -7.40E+06 | -2.12E-01 | -7.54E+11 | -9.92E-04 |
| -7.55E+11 | -9.92E-04 | -7.40E+06 | -2.12E-01 | -7.51E+11 | -1.00E-03 |
| -7.52E+11 | -1.00E-03 | -7.37E+06 | -2.14E-01 | -7.49E+11 | -1.01E-03 |
| -7.50E+11 | -1.01E-03 | -7.35E+06 | -2.16E-01 | -7.46E+11 | -1.02E-03 |
| -7.46E+11 | -1.02E-03 | -7.31E+06 | -2.18E-01 | -7.43E+11 | -1.03E-03 |
| -7.44E+11 | -1.03E-03 | -7.29E+06 | -2.21E-01 | -7.43E+11 | -1.03E-03 |
| -7.41E+11 | -1.04E-03 | -7.26E+06 | -2.23E-01 | -7.41E+11 | -1.04E-03 |
| -7.38E+11 | -1.05E-03 | -7.23E+06 | -2.25E-01 | -7.38E+11 | -1.05E-03 |
| -7.35E+11 | -1.06E-03 | -7.20E+06 | -2.27E-01 | -7.35E+11 | -1.06E-03 |
| -7.33E+11 | -1.07E-03 | -7.18E+06 | -2.29E-01 | -7.33E+11 | -1.07E-03 |
| -7.32E+11 | -1.07E-03 | -7.17E+06 | -2.30E-01 | -7.30E+11 | -1.08E-03 |
| -7.30E+11 | -1.08E-03 | -7.15E+06 | -2.31E-01 | -7.27E+11 | -1.09E-03 |
| -7.27E+11 | -1.09E-03 | -7.12E+06 | -2.33E-01 | -7.25E+11 | -1.10E-03 |
| -7.24E+11 | -1.10E-03 | -7.10E+06 | -2.36E-01 | -7.22E+11 | -1.11E-03 |
| -7.21E+11 | -1.11E-03 | -7.07E+06 | -2.38E-01 | -7.20E+11 | -1.12E-03 |
| -7.19E+11 | -1.12E-03 | -7.04E+06 | -2.40E-01 | -7.18E+11 | -1.13E-03 |
| -7.16E+11 | -1.13E-03 | -7.02E+06 | -2.42E-01 | -7.18E+11 | -1.13E-03 |
| -7.13E+11 | -1.14E-03 | -6.99E+06 | -2.44E-01 | -7.15E+11 | -1.14E-03 |
| -7.11E+11 | -1.15E-03 | -6.97E+06 | -2.46E-01 | -7.12E+11 | -1.15E-03 |
| -7.09E+11 | -1.16E-03 | -6.95E+06 | -2.48E-01 | -7.10E+11 | -1.16E-03 |
| -7.07E+11 | -1.17E-03 | -6.93E+06 | -2.50E-01 | -7.07E+11 | -1.17E-03 |
| -7.06E+11 | -1.17E-03 | -6.91E+06 | -2.51E-01 | -7.04E+11 | -1.18E-03 |
| -7.03E+11 | -1.18E-03 | -6.89E+06 | -2.53E-01 | -7.02E+11 | -1.19E-03 |
| -7.00E+11 | -1.19E-03 | -6.86E+06 | -2.55E-01 | -7.00E+11 | -1.20E-03 |
| -6.98E+11 | -1.20E-03 | -6.84E+06 | -2.57E-01 | -6.98E+11 | -1.21E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.95E+11 | -1.21E-03 | -6.81E+06 | -2.59E-01 | -6.96E+11 | -1.22E-03 |
| -6.93E+11 | -1.22E-03 | -6.79E+06 | -2.61E-01 | -6.93E+11 | -1.22E-03 |
| -6.90E+11 | -1.23E-03 | -6.76E+06 | -2.64E-01 | -6.91E+11 | -1.23E-03 |
| -6.88E+11 | -1.24E-03 | -6.74E+06 | -2.66E-01 | -6.88E+11 | -1.24E-03 |
| -6.86E+11 | -1.25E-03 | -6.72E+06 | -2.68E-01 | -6.86E+11 | -1.25E-03 |
| -6.85E+11 | -1.25E-03 | -6.71E+06 | -2.68E-01 | -6.83E+11 | -1.26E-03 |
| -6.83E+11 | -1.26E-03 | -6.69E+06 | -2.70E-01 | -6.81E+11 | -1.27E-03 |
| -6.80E+11 | -1.27E-03 | -6.67E+06 | -2.73E-01 | -6.79E+11 | -1.28E-03 |
| -6.79E+11 | -1.28E-03 | -6.66E+06 | -2.74E-01 | -6.77E+11 | -1.29E-03 |
| -6.77E+11 | -1.29E-03 | -6.63E+06 | -2.76E-01 | -6.74E+11 | -1.30E-03 |
| -6.74E+11 | -1.30E-03 | -6.61E+06 | -2.78E-01 | -6.74E+11 | -1.31E-03 |
| -6.72E+11 | -1.31E-03 | -6.58E+06 | -2.80E-01 | -6.72E+11 | -1.32E-03 |
| -6.70E+11 | -1.32E-03 | -6.56E+06 | -2.82E-01 | -6.69E+11 | -1.33E-03 |
| -6.67E+11 | -1.33E-03 | -6.54E+06 | -2.84E-01 | -6.67E+11 | -1.34E-03 |
| -6.65E+11 | -1.34E-03 | -6.52E+06 | -2.87E-01 | -6.65E+11 | -1.35E-03 |
| -6.63E+11 | -1.35E-03 | -6.50E+06 | -2.89E-01 | -6.63E+11 | -1.36E-03 |
| -6.61E+11 | -1.36E-03 | -6.48E+06 | -2.91E-01 | -6.60E+11 | -1.37E-03 |
| -6.61E+11 | -1.36E-03 | -6.47E+06 | -2.91E-01 | -6.58E+11 | -1.38E-03 |
| -6.58E+11 | -1.37E-03 | -6.45E+06 | -2.93E-01 | -6.56E+11 | -1.39E-03 |
| -6.56E+11 | -1.38E-03 | -6.43E+06 | -2.96E-01 | -6.54E+11 | -1.40E-03 |
| -6.54E+11 | -1.39E-03 | -6.41E+06 | -2.98E-01 | -6.52E+11 | -1.41E-03 |
| -6.52E+11 | -1.40E-03 | -6.39E+06 | -3.00E-01 | -6.50E+11 | -1.42E-03 |
| -6.50E+11 | -1.41E-03 | -6.37E+06 | -3.02E-01 | -6.49E+11 | -1.42E-03 |
| -6.48E+11 | -1.42E-03 | -6.35E+06 | -3.03E-01 | -6.47E+11 | -1.43E-03 |
| -6.46E+11 | -1.43E-03 | -6.33E+06 | -3.05E-01 | -6.45E+11 | -1.44E-03 |
| -6.44E+11 | -1.44E-03 | -6.31E+06 | -3.07E-01 | -6.43E+11 | -1.45E-03 |
| -6.42E+11 | -1.45E-03 | -6.29E+06 | -3.10E-01 | -6.41E+11 | -1.46E-03 |
| -6.40E+11 | -1.46E-03 | -6.27E+06 | -3.12E-01 | -6.39E+11 | -1.47E-03 |
| -6.38E+11 | -1.47E-03 | -6.26E+06 | -3.14E-01 | -6.37E+11 | -1.48E-03 |
| -6.36E+11 | -1.48E-03 | -6.24E+06 | -3.16E-01 | -6.37E+11 | -1.48E-03 |
| -6.35E+11 | -1.49E-03 | -6.22E+06 | -3.18E-01 | -6.35E+11 | -1.49E-03 |
| -6.33E+11 | -1.50E-03 | -6.20E+06 | -3.20E-01 | -6.33E+11 | -1.50E-03 |
| -6.31E+11 | -1.51E-03 | -6.18E+06 | -3.22E-01 | -6.31E+11 | -1.51E-03 |
| -6.29E+11 | -1.52E-03 | -6.16E+06 | -3.24E-01 | -6.29E+11 | -1.52E-03 |
| -6.27E+11 | -1.53E-03 | -6.15E+06 | -3.27E-01 | -6.27E+11 | -1.53E-03 |
| -6.25E+11 | -1.54E-03 | -6.13E+06 | -3.29E-01 | -6.25E+11 | -1.54E-03 |
| -6.23E+11 | -1.55E-03 | -6.11E+06 | -3.31E-01 | -6.24E+11 | -1.55E-03 |
| -6.22E+11 | -1.56E-03 | -6.09E+06 | -3.33E-01 | -6.22E+11 | -1.56E-03 |
| -6.20E+11 | -1.57E-03 | -6.07E+06 | -3.35E-01 | -6.20E+11 | -1.57E-03 |
| -6.18E+11 | -1.58E-03 | -6.06E+06 | -3.37E-01 | -6.18E+11 | -1.58E-03 |
| -6.16E+11 | -1.59E-03 | -6.04E+06 | -3.39E-01 | -6.17E+11 | -1.59E-03 |
| -6.15E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -6.15E+11 | -1.60E-03 |
| -6.14E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -6.13E+11 | -1.61E-03 |
| -6.12E+11 | -1.61E-03 | -6.00E+06 | -3.45E-01 | -6.11E+11 | -1.62E-03 |
| -6.11E+11 | -1.62E-03 | -5.98E+06 | -3.47E-01 | -6.10E+11 | -1.63E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.09E+11 | -1.63E-03 | -5.97E+06 | -3.49E-01 | -6.08E+11 | -1.64E-03 |
| -6.07E+11 | -1.64E-03 | -5.95E+06 | -3.51E-01 | -6.07E+11 | -1.65E-03 |
| -6.06E+11 | -1.65E-03 | -5.93E+06 | -3.53E-01 | -6.05E+11 | -1.66E-03 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -6.03E+11 | -1.67E-03 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -6.03E+11 | -1.68E-03 |
| -6.02E+11 | -1.67E-03 | -5.90E+06 | -3.58E-01 | -6.01E+11 | -1.69E-03 |
| -6.01E+11 | -1.68E-03 | -5.88E+06 | -3.60E-01 | -6.00E+11 | -1.70E-03 |
| -5.99E+11 | -1.69E-03 | -5.87E+06 | -3.62E-01 | -5.98E+11 | -1.71E-03 |
| -5.97E+11 | -1.70E-03 | -5.85E+06 | -3.64E-01 | -5.97E+11 | -1.72E-03 |
| -5.96E+11 | -1.71E-03 | -5.84E+06 | -3.66E-01 | -5.95E+11 | -1.73E-03 |
| -5.94E+11 | -1.72E-03 | -5.82E+06 | -3.68E-01 | -5.94E+11 | -1.74E-03 |
| -5.92E+11 | -1.73E-03 | -5.80E+06 | -3.70E-01 | -5.93E+11 | -1.74E-03 |
| -5.91E+11 | -1.74E-03 | -5.79E+06 | -3.73E-01 | -5.92E+11 | -1.75E-03 |
| -5.89E+11 | -1.75E-03 | -5.78E+06 | -3.75E-01 | -5.90E+11 | -1.76E-03 |
| -5.88E+11 | -1.76E-03 | -5.76E+06 | -3.77E-01 | -5.89E+11 | -1.77E-03 |
| -5.86E+11 | -1.77E-03 | -5.75E+06 | -3.79E-01 | -5.87E+11 | -1.78E-03 |
| -5.85E+11 | -1.78E-03 | -5.73E+06 | -3.81E-01 | -5.86E+11 | -1.79E-03 |
| -5.84E+11 | -1.79E-03 | -5.72E+06 | -3.83E-01 | -5.84E+11 | -1.80E-03 |
| -5.83E+11 | -1.80E-03 | -5.71E+06 | -3.85E-01 | -5.83E+11 | -1.81E-03 |
| -5.81E+11 | -1.81E-03 | -5.70E+06 | -3.87E-01 | -5.81E+11 | -1.82E-03 |
| -5.80E+11 | -1.82E-03 | -5.68E+06 | -3.89E-01 | -5.80E+11 | -1.83E-03 |
| -5.78E+11 | -1.83E-03 | -5.67E+06 | -3.91E-01 | -5.78E+11 | -1.84E-03 |
| -5.77E+11 | -1.84E-03 | -5.65E+06 | -3.93E-01 | -5.77E+11 | -1.85E-03 |
| -5.76E+11 | -1.85E-03 | -5.64E+06 | -3.96E-01 | -5.76E+11 | -1.86E-03 |
| -5.74E+11 | -1.86E-03 | -5.63E+06 | -3.98E-01 | -5.74E+11 | -1.87E-03 |
| -5.73E+11 | -1.87E-03 | -5.62E+06 | -3.99E-01 | -5.73E+11 | -1.88E-03 |
| -5.72E+11 | -1.88E-03 | -5.60E+06 | -4.01E-01 | -5.72E+11 | -1.88E-03 |
| -5.70E+11 | -1.89E-03 | -5.59E+06 | -4.04E-01 | -5.71E+11 | -1.89E-03 |
| -5.69E+11 | -1.90E-03 | -5.57E+06 | -4.06E-01 | -5.69E+11 | -1.90E-03 |
| -5.67E+11 | -1.91E-03 | -5.56E+06 | -4.08E-01 | -5.68E+11 | -1.91E-03 |
| -5.66E+11 | -1.92E-03 | -5.55E+06 | -4.10E-01 | -5.67E+11 | -1.92E-03 |
| -5.65E+11 | -1.93E-03 | -5.53E+06 | -4.12E-01 | -5.65E+11 | -1.93E-03 |
| -5.63E+11 | -1.94E-03 | -5.52E+06 | -4.14E-01 | -5.64E+11 | -1.94E-03 |
| -5.62E+11 | -1.95E-03 | -5.51E+06 | -4.16E-01 | -5.63E+11 | -1.95E-03 |
| -5.61E+11 | -1.96E-03 | -5.49E+06 | -4.19E-01 | -5.62E+11 | -1.96E-03 |
| -5.59E+11 | -1.97E-03 | -5.48E+06 | -4.21E-01 | -5.60E+11 | -1.97E-03 |
| -5.58E+11 | -1.98E-03 | -5.47E+06 | -4.23E-01 | -5.59E+11 | -1.98E-03 |
| -5.57E+11 | -1.99E-03 | -5.46E+06 | -4.25E-01 | -5.58E+11 | -1.99E-03 |
| -5.56E+11 | -2.00E-03 | -5.45E+06 | -4.27E-01 | -5.56E+11 | -2.00E-03 |
| -5.55E+11 | -2.01E-03 | -5.43E+06 | -4.29E-01 | -5.55E+11 | -2.01E-03 |
| -5.53E+11 | -2.02E-03 | -5.42E+06 | -4.31E-01 | -5.54E+11 | -2.02E-03 |
| -5.52E+11 | -2.03E-03 | -5.41E+06 | -4.34E-01 | -5.53E+11 | -2.03E-03 |
| -5.51E+11 | -2.04E-03 | -5.40E+06 | -4.36E-01 | -5.51E+11 | -2.04E-03 |
| -5.50E+11 | -2.05E-03 | -5.39E+06 | -4.38E-01 | -5.50E+11 | -2.05E-03 |
| -5.49E+11 | -2.05E-03 | -5.38E+06 | -4.39E-01 | -5.49E+11 | -2.06E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.48E+11 | -2.06E-03 | -5.37E+06 | -4.41E-01 | -5.48E+11 | -2.07E-03 |
| -5.47E+11 | -2.07E-03 | -5.36E+06 | -4.43E-01 | -5.47E+11 | -2.08E-03 |
| -5.46E+11 | -2.08E-03 | -5.35E+06 | -4.45E-01 | -5.46E+11 | -2.09E-03 |
| -5.45E+11 | -2.09E-03 | -5.34E+06 | -4.47E-01 | -5.45E+11 | -2.10E-03 |
| -5.44E+11 | -2.10E-03 | -5.33E+06 | -4.49E-01 | -5.43E+11 | -2.11E-03 |
| -5.42E+11 | -2.11E-03 | -5.31E+06 | -4.52E-01 | -5.42E+11 | -2.12E-03 |
| -5.41E+11 | -2.12E-03 | -5.30E+06 | -4.54E-01 | -5.41E+11 | -2.13E-03 |
| -5.40E+11 | -2.13E-03 | -5.30E+06 | -4.55E-01 | -5.40E+11 | -2.14E-03 |
| -5.39E+11 | -2.14E-03 | -5.28E+06 | -4.58E-01 | -5.39E+11 | -2.15E-03 |
| -5.38E+11 | -2.15E-03 | -5.27E+06 | -4.60E-01 | -5.38E+11 | -2.16E-03 |
| -5.37E+11 | -2.16E-03 | -5.26E+06 | -4.62E-01 | -5.37E+11 | -2.17E-03 |
| -5.36E+11 | -2.17E-03 | -5.25E+06 | -4.64E-01 | -5.36E+11 | -2.18E-03 |
| -5.35E+11 | -2.18E-03 | -5.24E+06 | -4.66E-01 | -5.35E+11 | -2.19E-03 |
| -5.34E+11 | -2.19E-03 | -5.23E+06 | -4.68E-01 | -5.34E+11 | -2.20E-03 |
| -5.33E+11 | -2.20E-03 | -5.22E+06 | -4.70E-01 | -5.33E+11 | -2.21E-03 |
| -5.31E+11 | -2.21E-03 | -5.21E+06 | -4.73E-01 | -5.32E+11 | -2.22E-03 |
| -5.30E+11 | -2.22E-03 | -5.20E+06 | -4.75E-01 | -5.31E+11 | -2.23E-03 |
| -5.29E+11 | -2.23E-03 | -5.19E+06 | -4.77E-01 | -5.30E+11 | -2.24E-03 |
| -5.28E+11 | -2.24E-03 | -5.18E+06 | -4.79E-01 | -5.29E+11 | -2.25E-03 |
| -5.27E+11 | -2.25E-03 | -5.16E+06 | -4.81E-01 | -5.28E+11 | -2.26E-03 |
| -5.26E+11 | -2.26E-03 | -5.15E+06 | -4.83E-01 | -5.27E+11 | -2.27E-03 |
| -5.25E+11 | -2.27E-03 | -5.15E+06 | -4.85E-01 | -5.26E+11 | -2.28E-03 |
| -5.24E+11 | -2.28E-03 | -5.14E+06 | -4.88E-01 | -5.25E+11 | -2.29E-03 |
| -5.23E+11 | -2.29E-03 | -5.13E+06 | -4.90E-01 | -5.24E+11 | -2.30E-03 |
| -5.22E+11 | -2.30E-03 | -5.12E+06 | -4.92E-01 | -5.23E+11 | -2.31E-03 |
| -5.21E+11 | -2.31E-03 | -5.11E+06 | -4.94E-01 | -5.22E+11 | -2.32E-03 |
| -5.20E+11 | -2.32E-03 | -5.10E+06 | -4.96E-01 | -5.21E+11 | -2.33E-03 |
| -5.19E+11 | -2.33E-03 | -5.09E+06 | -4.98E-01 | -5.20E+11 | -2.34E-03 |
| -5.19E+11 | -2.34E-03 | -5.08E+06 | -5.00E-01 | -5.19E+11 | -2.35E-03 |
| -5.18E+11 | -2.35E-03 | -5.07E+06 | -5.03E-01 | -5.18E+11 | -2.36E-03 |
| -5.17E+11 | -2.36E-03 | -5.06E+06 | -5.05E-01 | -5.17E+11 | -2.37E-03 |
| -5.16E+11 | -2.37E-03 | -5.06E+06 | -5.07E-01 | -5.16E+11 | -2.38E-03 |
| -5.15E+11 | -2.38E-03 | -5.05E+06 | -5.09E-01 | -5.15E+11 | -2.39E-03 |
| -5.14E+11 | -2.39E-03 | -5.04E+06 | -5.11E-01 | -5.14E+11 | -2.40E-03 |
| -5.14E+11 | -2.40E-03 | -5.03E+06 | -5.13E-01 | -5.13E+11 | -2.41E-03 |
| -5.13E+11 | -2.41E-03 | -5.02E+06 | -5.15E-01 | -5.12E+11 | -2.42E-03 |
| -5.12E+11 | -2.42E-03 | -5.01E+06 | -5.17E-01 | -5.12E+11 | -2.43E-03 |
| -5.11E+11 | -2.43E-03 | -5.00E+06 | -5.19E-01 | -5.11E+11 | -2.44E-03 |
| -5.10E+11 | -2.44E-03 | -5.00E+06 | -5.21E-01 | -5.10E+11 | -2.45E-03 |
| -5.09E+11 | -2.45E-03 | -4.99E+06 | -5.24E-01 | -5.09E+11 | -2.46E-03 |
| -5.08E+11 | -2.46E-03 | -4.98E+06 | -5.26E-01 | -5.08E+11 | -2.47E-03 |
| -5.07E+11 | -2.47E-03 | -4.97E+06 | -5.28E-01 | -5.07E+11 | -2.48E-03 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -5.07E+11 | -2.49E-03 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -5.06E+11 | -2.50E-03 |
| -5.05E+11 | -2.49E-03 | -4.95E+06 | -5.32E-01 | -5.05E+11 | -2.51E-03 |

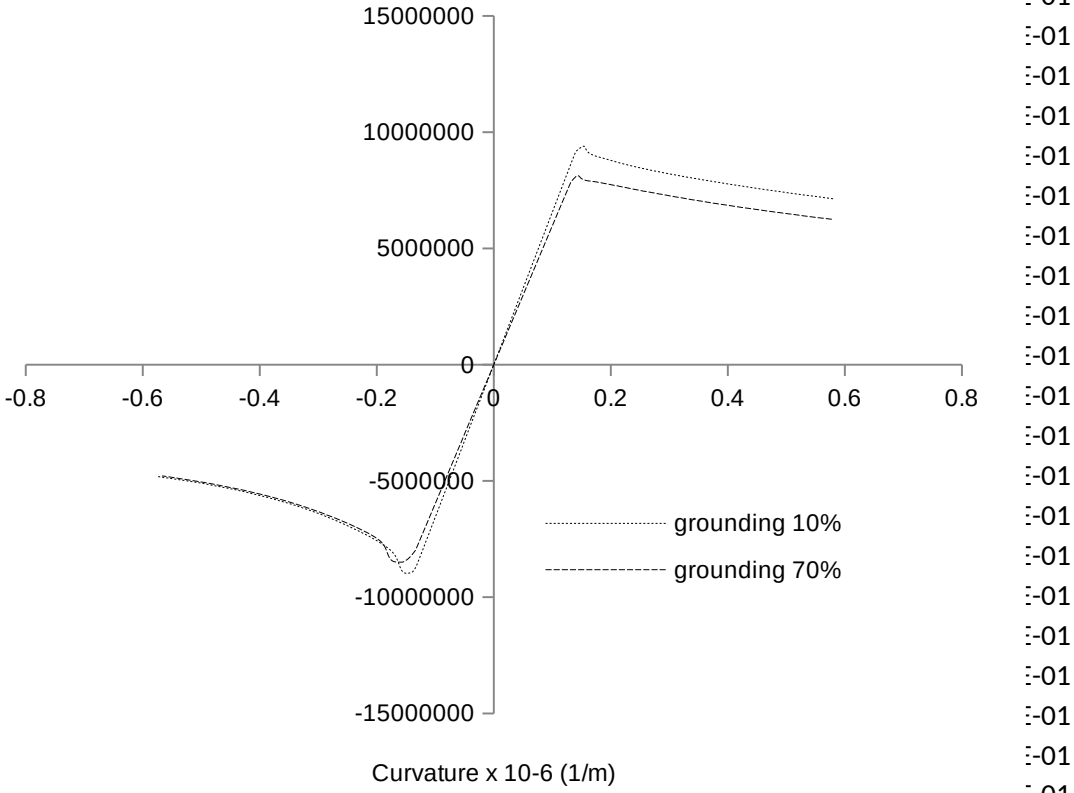
| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.05E+11 | -2.50E-03 | -4.94E+06 | -5.34E-01 | -5.04E+11 | -2.52E-03 |
| -5.04E+11 | -2.51E-03 | -4.94E+06 | -5.36E-01 | -5.03E+11 | -2.53E-03 |
| -5.03E+11 | -2.51E-03 | -4.93E+06 | -5.38E-01 | -5.03E+11 | -2.54E-03 |
| -5.02E+11 | -2.52E-03 | -4.92E+06 | -5.40E-01 | -5.02E+11 | -2.55E-03 |
| -5.01E+11 | -2.53E-03 | -4.91E+06 | -5.42E-01 | -5.01E+11 | -2.56E-03 |
| -5.00E+11 | -2.54E-03 | -4.90E+06 | -5.45E-01 | -5.00E+11 | -2.57E-03 |
| -4.99E+11 | -2.55E-03 | -4.89E+06 | -5.47E-01 | -4.99E+11 | -2.58E-03 |
| -4.98E+11 | -2.56E-03 | -4.88E+06 | -5.49E-01 | -4.99E+11 | -2.59E-03 |
| -4.98E+11 | -2.57E-03 | -4.88E+06 | -5.51E-01 | -4.98E+11 | -2.60E-03 |
| -4.97E+11 | -2.58E-03 | -4.87E+06 | -5.53E-01 | -4.98E+11 | -2.60E-03 |
| -4.96E+11 | -2.59E-03 | -4.86E+06 | -5.55E-01 | -4.97E+11 | -2.61E-03 |
| -4.95E+11 | -2.60E-03 | -4.85E+06 | -5.57E-01 | -4.96E+11 | -2.62E-03 |
| -4.94E+11 | -2.61E-03 | -4.84E+06 | -5.60E-01 | -4.95E+11 | -2.63E-03 |
| -4.93E+11 | -2.62E-03 | -4.84E+06 | -5.62E-01 | -4.95E+11 | -2.64E-03 |
| -4.93E+11 | -2.63E-03 | -4.83E+06 | -5.64E-01 | -4.94E+11 | -2.65E-03 |
| -4.92E+11 | -2.64E-03 | -4.82E+06 | -5.66E-01 | -4.93E+11 | -2.66E-03 |
| -4.91E+11 | -2.65E-03 | -4.81E+06 | -5.68E-01 | -4.92E+11 | -2.67E-03 |
| -4.90E+11 | -2.66E-03 | -4.80E+06 | -5.70E-01 | -4.91E+11 | -2.68E-03 |
| -4.89E+11 | -2.67E-03 | -4.80E+06 | -5.72E-01 | -4.90E+11 | -2.69E-03 |

kandas

9.80E-06 1.00E-06
Momen Curvature
 7.14E+06 5.80E-01

70% kandas

4670 9.80E-06 1.00E-06
Momen Rotasi Momen Curvature
 6.38E+11 2.70E-03 6.26E+06 5.78E-01



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.29E+06 | 5.34E-01 | 6.53E+11 | 2.48E-03 | 6.40E+06 | 5.31E-01 |
| 7.30E+06 | 5.31E-01 | 6.54E+11 | 2.47E-03 | 6.41E+06 | 5.28E-01 |
| 7.30E+06 | 5.29E-01 | 6.54E+11 | 2.46E-03 | 6.41E+06 | 5.26E-01 |
| 7.31E+06 | 5.27E-01 | 6.55E+11 | 2.45E-03 | 6.42E+06 | 5.24E-01 |
| 7.32E+06 | 5.25E-01 | 6.56E+11 | 2.44E-03 | 6.43E+06 | 5.22E-01 |
| 7.32E+06 | 5.23E-01 | 6.57E+11 | 2.43E-03 | 6.44E+06 | 5.20E-01 |
| 7.33E+06 | 5.21E-01 | 6.58E+11 | 2.42E-03 | 6.44E+06 | 5.18E-01 |
| 7.33E+06 | 5.20E-01 | 6.58E+11 | 2.41E-03 | 6.45E+06 | 5.16E-01 |
| 7.34E+06 | 5.18E-01 | 6.59E+11 | 2.40E-03 | 6.46E+06 | 5.13E-01 |
| 7.35E+06 | 5.15E-01 | 6.60E+11 | 2.39E-03 | 6.46E+06 | 5.12E-01 |
| 7.36E+06 | 5.13E-01 | 6.60E+11 | 2.38E-03 | 6.47E+06 | 5.09E-01 |
| 7.36E+06 | 5.11E-01 | 6.61E+11 | 2.37E-03 | 6.48E+06 | 5.07E-01 |
| 7.37E+06 | 5.09E-01 | 6.62E+11 | 2.36E-03 | 6.48E+06 | 5.05E-01 |
| 7.38E+06 | 5.07E-01 | 6.62E+11 | 2.35E-03 | 6.49E+06 | 5.03E-01 |
| 7.39E+06 | 5.05E-01 | 6.63E+11 | 2.34E-03 | 6.50E+06 | 5.01E-01 |
| 7.39E+06 | 5.03E-01 | 6.64E+11 | 2.33E-03 | 6.51E+06 | 4.99E-01 |
| 7.40E+06 | 5.00E-01 | 6.65E+11 | 2.32E-03 | 6.51E+06 | 4.97E-01 |
| 7.41E+06 | 4.98E-01 | 6.65E+11 | 2.31E-03 | 6.52E+06 | 4.94E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.42E+06 | 4.96E-01 | 6.66E+11 | 2.30E-03 | 6.53E+06 | 4.92E-01 |
| 7.42E+06 | 4.94E-01 | 6.67E+11 | 2.29E-03 | 6.53E+06 | 4.90E-01 |
| 7.43E+06 | 4.92E-01 | 6.67E+11 | 2.29E-03 | 6.54E+06 | 4.89E-01 |
| 7.44E+06 | 4.90E-01 | 6.68E+11 | 2.28E-03 | 6.54E+06 | 4.87E-01 |
| 7.45E+06 | 4.88E-01 | 6.68E+11 | 2.27E-03 | 6.55E+06 | 4.85E-01 |
| 7.46E+06 | 4.86E-01 | 6.69E+11 | 2.26E-03 | 6.56E+06 | 4.83E-01 |
| 7.46E+06 | 4.84E-01 | 6.70E+11 | 2.25E-03 | 6.56E+06 | 4.81E-01 |
| 7.47E+06 | 4.81E-01 | 6.71E+11 | 2.24E-03 | 6.57E+06 | 4.79E-01 |
| 7.48E+06 | 4.79E-01 | 6.71E+11 | 2.23E-03 | 6.58E+06 | 4.76E-01 |
| 7.49E+06 | 4.77E-01 | 6.72E+11 | 2.22E-03 | 6.59E+06 | 4.74E-01 |
| 7.49E+06 | 4.75E-01 | 6.73E+11 | 2.21E-03 | 6.59E+06 | 4.72E-01 |
| 7.50E+06 | 4.73E-01 | 6.74E+11 | 2.20E-03 | 6.60E+06 | 4.70E-01 |
| 7.51E+06 | 4.71E-01 | 6.74E+11 | 2.19E-03 | 6.61E+06 | 4.68E-01 |
| 7.51E+06 | 4.69E-01 | 6.75E+11 | 2.18E-03 | 6.62E+06 | 4.66E-01 |
| 7.52E+06 | 4.66E-01 | 6.76E+11 | 2.17E-03 | 6.62E+06 | 4.64E-01 |
| 7.53E+06 | 4.64E-01 | 6.77E+11 | 2.16E-03 | 6.63E+06 | 4.61E-01 |
| 7.54E+06 | 4.62E-01 | 6.77E+11 | 2.15E-03 | 6.64E+06 | 4.59E-01 |
| 7.54E+06 | 4.60E-01 | 6.78E+11 | 2.14E-03 | 6.65E+06 | 4.57E-01 |
| 7.55E+06 | 4.58E-01 | 6.79E+11 | 2.13E-03 | 6.65E+06 | 4.55E-01 |
| 7.56E+06 | 4.56E-01 | 6.80E+11 | 2.12E-03 | 6.66E+06 | 4.53E-01 |
| 7.56E+06 | 4.55E-01 | 6.81E+11 | 2.11E-03 | 6.67E+06 | 4.51E-01 |
| 7.57E+06 | 4.53E-01 | 6.81E+11 | 2.10E-03 | 6.68E+06 | 4.49E-01 |
| 7.58E+06 | 4.51E-01 | 6.82E+11 | 2.09E-03 | 6.68E+06 | 4.47E-01 |
| 7.59E+06 | 4.49E-01 | 6.83E+11 | 2.08E-03 | 6.69E+06 | 4.45E-01 |
| 7.59E+06 | 4.47E-01 | 6.84E+11 | 2.07E-03 | 6.70E+06 | 4.43E-01 |
| 7.60E+06 | 4.45E-01 | 6.84E+11 | 2.06E-03 | 6.71E+06 | 4.40E-01 |
| 7.61E+06 | 4.43E-01 | 6.85E+11 | 2.05E-03 | 6.71E+06 | 4.38E-01 |
| 7.62E+06 | 4.40E-01 | 6.86E+11 | 2.04E-03 | 6.72E+06 | 4.36E-01 |
| 7.63E+06 | 4.38E-01 | 6.87E+11 | 2.03E-03 | 6.73E+06 | 4.34E-01 |
| 7.64E+06 | 4.36E-01 | 6.87E+11 | 2.02E-03 | 6.74E+06 | 4.32E-01 |
| 7.64E+06 | 4.34E-01 | 6.88E+11 | 2.01E-03 | 6.74E+06 | 4.30E-01 |
| 7.65E+06 | 4.32E-01 | 6.89E+11 | 2.00E-03 | 6.75E+06 | 4.28E-01 |
| 7.66E+06 | 4.30E-01 | 6.90E+11 | 1.99E-03 | 6.76E+06 | 4.25E-01 |
| 7.67E+06 | 4.28E-01 | 6.90E+11 | 1.98E-03 | 6.76E+06 | 4.23E-01 |
| 7.67E+06 | 4.26E-01 | 6.91E+11 | 1.97E-03 | 6.77E+06 | 4.21E-01 |
| 7.68E+06 | 4.24E-01 | 6.92E+11 | 1.96E-03 | 6.78E+06 | 4.19E-01 |
| 7.69E+06 | 4.22E-01 | 6.92E+11 | 1.95E-03 | 6.78E+06 | 4.18E-01 |
| 7.70E+06 | 4.20E-01 | 6.93E+11 | 1.94E-03 | 6.79E+06 | 4.16E-01 |
| 7.71E+06 | 4.18E-01 | 6.94E+11 | 1.93E-03 | 6.80E+06 | 4.14E-01 |
| 7.71E+06 | 4.15E-01 | 6.95E+11 | 1.92E-03 | 6.81E+06 | 4.12E-01 |
| 7.72E+06 | 4.13E-01 | 6.96E+11 | 1.91E-03 | 6.82E+06 | 4.10E-01 |
| 7.73E+06 | 4.11E-01 | 6.97E+11 | 1.90E-03 | 6.83E+06 | 4.07E-01 |
| 7.74E+06 | 4.09E-01 | 6.97E+11 | 1.89E-03 | 6.83E+06 | 4.05E-01 |
| 7.75E+06 | 4.07E-01 | 6.98E+11 | 1.88E-03 | 6.84E+06 | 4.03E-01 |
| 7.76E+06 | 4.05E-01 | 6.99E+11 | 1.87E-03 | 6.85E+06 | 4.01E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.76E+06 | 4.03E-01 | 7.00E+11 | 1.86E-03 | 6.86E+06 | 3.99E-01 |
| 7.77E+06 | 4.00E-01 | 7.01E+11 | 1.85E-03 | 6.87E+06 | 3.97E-01 |
| 7.78E+06 | 3.98E-01 | 7.02E+11 | 1.84E-03 | 6.88E+06 | 3.95E-01 |
| 7.79E+06 | 3.96E-01 | 7.02E+11 | 1.83E-03 | 6.88E+06 | 3.93E-01 |
| 7.80E+06 | 3.94E-01 | 7.03E+11 | 1.82E-03 | 6.89E+06 | 3.90E-01 |
| 7.81E+06 | 3.92E-01 | 7.04E+11 | 1.81E-03 | 6.90E+06 | 3.88E-01 |
| 7.82E+06 | 3.90E-01 | 7.05E+11 | 1.80E-03 | 6.91E+06 | 3.86E-01 |
| 7.83E+06 | 3.88E-01 | 7.06E+11 | 1.79E-03 | 6.91E+06 | 3.84E-01 |
| 7.84E+06 | 3.85E-01 | 7.06E+11 | 1.78E-03 | 6.92E+06 | 3.82E-01 |
| 7.84E+06 | 3.85E-01 | 7.07E+11 | 1.77E-03 | 6.93E+06 | 3.80E-01 |
| 7.85E+06 | 3.83E-01 | 7.08E+11 | 1.76E-03 | 6.94E+06 | 3.78E-01 |
| 7.85E+06 | 3.81E-01 | 7.09E+11 | 1.75E-03 | 6.95E+06 | 3.75E-01 |
| 7.86E+06 | 3.79E-01 | 7.10E+11 | 1.74E-03 | 6.96E+06 | 3.73E-01 |
| 7.87E+06 | 3.76E-01 | 7.11E+11 | 1.73E-03 | 6.96E+06 | 3.71E-01 |
| 7.88E+06 | 3.74E-01 | 7.12E+11 | 1.72E-03 | 6.97E+06 | 3.69E-01 |
| 7.89E+06 | 3.72E-01 | 7.12E+11 | 1.72E-03 | 6.98E+06 | 3.69E-01 |
| 7.90E+06 | 3.70E-01 | 7.13E+11 | 1.71E-03 | 6.98E+06 | 3.66E-01 |
| 7.91E+06 | 3.68E-01 | 7.14E+11 | 1.70E-03 | 6.99E+06 | 3.64E-01 |
| 7.92E+06 | 3.66E-01 | 7.15E+11 | 1.69E-03 | 7.00E+06 | 3.62E-01 |
| 7.93E+06 | 3.64E-01 | 7.16E+11 | 1.68E-03 | 7.01E+06 | 3.60E-01 |
| 7.93E+06 | 3.61E-01 | 7.17E+11 | 1.67E-03 | 7.02E+06 | 3.58E-01 |
| 7.94E+06 | 3.61E-01 | 7.17E+11 | 1.66E-03 | 7.03E+06 | 3.56E-01 |
| 7.94E+06 | 3.59E-01 | 7.18E+11 | 1.65E-03 | 7.04E+06 | 3.54E-01 |
| 7.95E+06 | 3.57E-01 | 7.19E+11 | 1.64E-03 | 7.04E+06 | 3.52E-01 |
| 7.96E+06 | 3.54E-01 | 7.20E+11 | 1.63E-03 | 7.05E+06 | 3.50E-01 |
| 7.97E+06 | 3.52E-01 | 7.20E+11 | 1.62E-03 | 7.06E+06 | 3.48E-01 |
| 7.98E+06 | 3.50E-01 | 7.21E+11 | 1.61E-03 | 7.07E+06 | 3.46E-01 |
| 7.99E+06 | 3.48E-01 | 7.22E+11 | 1.60E-03 | 7.08E+06 | 3.43E-01 |
| 8.00E+06 | 3.46E-01 | 7.23E+11 | 1.59E-03 | 7.09E+06 | 3.41E-01 |
| 8.01E+06 | 3.44E-01 | 7.24E+11 | 1.58E-03 | 7.09E+06 | 3.39E-01 |
| 8.02E+06 | 3.42E-01 | 7.25E+11 | 1.57E-03 | 7.10E+06 | 3.37E-01 |
| 8.03E+06 | 3.40E-01 | 7.26E+11 | 1.56E-03 | 7.11E+06 | 3.35E-01 |
| 8.04E+06 | 3.38E-01 | 7.27E+11 | 1.55E-03 | 7.12E+06 | 3.33E-01 |
| 8.04E+06 | 3.36E-01 | 7.28E+11 | 1.54E-03 | 7.13E+06 | 3.31E-01 |
| 8.05E+06 | 3.33E-01 | 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 8.06E+06 | 3.31E-01 | 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 8.07E+06 | 3.29E-01 | 7.30E+11 | 1.52E-03 | 7.15E+06 | 3.26E-01 |
| 8.08E+06 | 3.27E-01 | 7.31E+11 | 1.51E-03 | 7.16E+06 | 3.24E-01 |
| 8.09E+06 | 3.25E-01 | 7.32E+11 | 1.50E-03 | 7.17E+06 | 3.22E-01 |
| 8.10E+06 | 3.23E-01 | 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.20E-01 |
| 8.11E+06 | 3.21E-01 | 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.19E-01 |
| 8.12E+06 | 3.19E-01 | 7.34E+11 | 1.48E-03 | 7.19E+06 | 3.17E-01 |
| 8.13E+06 | 3.16E-01 | 7.35E+11 | 1.47E-03 | 7.20E+06 | 3.15E-01 |
| 8.14E+06 | 3.14E-01 | 7.36E+11 | 1.46E-03 | 7.21E+06 | 3.13E-01 |
| 8.15E+06 | 3.12E-01 | 7.37E+11 | 1.45E-03 | 7.22E+06 | 3.11E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.16E+06 | 3.10E-01 | 7.37E+11 | 1.44E-03 | 7.23E+06 | 3.09E-01 |
| 8.16E+06 | 3.09E-01 | 7.38E+11 | 1.43E-03 | 7.24E+06 | 3.06E-01 |
| 8.17E+06 | 3.07E-01 | 7.39E+11 | 1.42E-03 | 7.25E+06 | 3.04E-01 |
| 8.18E+06 | 3.05E-01 | 7.41E+11 | 1.41E-03 | 7.26E+06 | 3.02E-01 |
| 8.19E+06 | 3.03E-01 | 7.42E+11 | 1.40E-03 | 7.27E+06 | 3.00E-01 |
| 8.20E+06 | 3.01E-01 | 7.43E+11 | 1.39E-03 | 7.28E+06 | 2.98E-01 |
| 8.21E+06 | 2.99E-01 | 7.43E+11 | 1.38E-03 | 7.28E+06 | 2.96E-01 |
| 8.22E+06 | 2.97E-01 | 7.44E+11 | 1.37E-03 | 7.30E+06 | 2.94E-01 |
| 8.23E+06 | 2.94E-01 | 7.45E+11 | 1.36E-03 | 7.30E+06 | 2.92E-01 |
| 8.24E+06 | 2.92E-01 | 7.46E+11 | 1.35E-03 | 7.31E+06 | 2.90E-01 |
| 8.26E+06 | 2.90E-01 | 7.47E+11 | 1.35E-03 | 7.32E+06 | 2.88E-01 |
| 8.26E+06 | 2.90E-01 | 7.48E+11 | 1.34E-03 | 7.33E+06 | 2.86E-01 |
| 8.27E+06 | 2.88E-01 | 7.49E+11 | 1.33E-03 | 7.34E+06 | 2.85E-01 |
| 8.28E+06 | 2.85E-01 | 7.49E+11 | 1.32E-03 | 7.34E+06 | 2.82E-01 |
| 8.29E+06 | 2.83E-01 | 7.50E+11 | 1.31E-03 | 7.35E+06 | 2.80E-01 |
| 8.30E+06 | 2.81E-01 | 7.51E+11 | 1.30E-03 | 7.36E+06 | 2.78E-01 |
| 8.31E+06 | 2.80E-01 | 7.52E+11 | 1.29E-03 | 7.37E+06 | 2.76E-01 |
| 8.32E+06 | 2.78E-01 | 7.54E+11 | 1.28E-03 | 7.38E+06 | 2.74E-01 |
| 8.33E+06 | 2.76E-01 | 7.55E+11 | 1.27E-03 | 7.39E+06 | 2.72E-01 |
| 8.34E+06 | 2.73E-01 | 7.56E+11 | 1.26E-03 | 7.40E+06 | 2.70E-01 |
| 8.35E+06 | 2.71E-01 | 7.56E+11 | 1.26E-03 | 7.41E+06 | 2.69E-01 |
| 8.36E+06 | 2.69E-01 | 7.57E+11 | 1.25E-03 | 7.42E+06 | 2.67E-01 |
| 8.37E+06 | 2.67E-01 | 7.58E+11 | 1.24E-03 | 7.43E+06 | 2.65E-01 |
| 8.38E+06 | 2.65E-01 | 7.59E+11 | 1.23E-03 | 7.44E+06 | 2.63E-01 |
| 8.39E+06 | 2.63E-01 | 7.60E+11 | 1.22E-03 | 7.44E+06 | 2.61E-01 |
| 8.41E+06 | 2.61E-01 | 7.61E+11 | 1.21E-03 | 7.45E+06 | 2.59E-01 |
| 8.42E+06 | 2.59E-01 | 7.61E+11 | 1.20E-03 | 7.46E+06 | 2.57E-01 |
| 8.43E+06 | 2.57E-01 | 7.62E+11 | 1.19E-03 | 7.47E+06 | 2.54E-01 |
| 8.43E+06 | 2.57E-01 | 7.64E+11 | 1.18E-03 | 7.48E+06 | 2.52E-01 |
| 8.44E+06 | 2.55E-01 | 7.65E+11 | 1.17E-03 | 7.49E+06 | 2.50E-01 |
| 8.45E+06 | 2.52E-01 | 7.66E+11 | 1.16E-03 | 7.50E+06 | 2.48E-01 |
| 8.46E+06 | 2.50E-01 | 7.67E+11 | 1.15E-03 | 7.52E+06 | 2.46E-01 |
| 8.48E+06 | 2.48E-01 | 7.68E+11 | 1.14E-03 | 7.53E+06 | 2.44E-01 |
| 8.49E+06 | 2.46E-01 | 7.69E+11 | 1.13E-03 | 7.54E+06 | 2.42E-01 |
| 8.50E+06 | 2.44E-01 | 7.70E+11 | 1.12E-03 | 7.54E+06 | 2.40E-01 |
| 8.51E+06 | 2.42E-01 | 7.71E+11 | 1.11E-03 | 7.55E+06 | 2.38E-01 |
| 8.52E+06 | 2.40E-01 | 7.72E+11 | 1.10E-03 | 7.56E+06 | 2.36E-01 |
| 8.54E+06 | 2.38E-01 | 7.73E+11 | 1.09E-03 | 7.57E+06 | 2.34E-01 |
| 8.55E+06 | 2.36E-01 | 7.74E+11 | 1.08E-03 | 7.58E+06 | 2.32E-01 |
| 8.56E+06 | 2.34E-01 | 7.75E+11 | 1.07E-03 | 7.59E+06 | 2.30E-01 |
| 8.57E+06 | 2.32E-01 | 7.76E+11 | 1.06E-03 | 7.61E+06 | 2.28E-01 |
| 8.58E+06 | 2.30E-01 | 7.77E+11 | 1.05E-03 | 7.62E+06 | 2.26E-01 |
| 8.60E+06 | 2.28E-01 | 7.78E+11 | 1.04E-03 | 7.63E+06 | 2.24E-01 |
| 8.61E+06 | 2.26E-01 | 7.79E+11 | 1.04E-03 | 7.63E+06 | 2.23E-01 |
| 8.62E+06 | 2.24E-01 | 7.80E+11 | 1.03E-03 | 7.64E+06 | 2.21E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.64E+06 | 2.22E-01 | 7.81E+11 | 1.02E-03 | 7.65E+06 | 2.19E-01 |
| 8.65E+06 | 2.19E-01 | 7.82E+11 | 1.01E-03 | 7.66E+06 | 2.16E-01 |
| 8.66E+06 | 2.17E-01 | 7.83E+11 | 1.00E-03 | 7.67E+06 | 2.14E-01 |
| 8.67E+06 | 2.17E-01 | 7.83E+11 | 1.00E-03 | 7.68E+06 | 2.14E-01 |
| 8.68E+06 | 2.15E-01 | 7.84E+11 | 9.90E-04 | 7.69E+06 | 2.12E-01 |
| 8.70E+06 | 2.12E-01 | 7.85E+11 | 9.80E-04 | 7.70E+06 | 2.10E-01 |
| 8.71E+06 | 2.10E-01 | 7.86E+11 | 9.70E-04 | 7.71E+06 | 2.08E-01 |
| 8.73E+06 | 2.08E-01 | 7.87E+11 | 9.60E-04 | 7.71E+06 | 2.06E-01 |
| 8.74E+06 | 2.06E-01 | 7.88E+11 | 9.50E-04 | 7.72E+06 | 2.04E-01 |
| 8.76E+06 | 2.04E-01 | 7.89E+11 | 9.40E-04 | 7.74E+06 | 2.01E-01 |
| 8.78E+06 | 2.02E-01 | 7.91E+11 | 9.30E-04 | 7.75E+06 | 1.99E-01 |
| 8.78E+06 | 2.01E-01 | 7.91E+11 | 9.26E-04 | 7.75E+06 | 1.98E-01 |
| 8.79E+06 | 1.99E-01 | 7.92E+11 | 9.16E-04 | 7.76E+06 | 1.96E-01 |
| 8.80E+06 | 1.97E-01 | 7.93E+11 | 9.06E-04 | 7.77E+06 | 1.94E-01 |
| 8.82E+06 | 1.95E-01 | 7.94E+11 | 8.99E-04 | 7.78E+06 | 1.93E-01 |
| 8.84E+06 | 1.93E-01 | 7.95E+11 | 8.89E-04 | 7.79E+06 | 1.90E-01 |
| 8.84E+06 | 1.92E-01 | 7.96E+11 | 8.79E-04 | 7.80E+06 | 1.88E-01 |
| 8.86E+06 | 1.90E-01 | 7.97E+11 | 8.69E-04 | 7.81E+06 | 1.86E-01 |
| 8.88E+06 | 1.87E-01 | 7.97E+11 | 8.68E-04 | 7.81E+06 | 1.86E-01 |
| 8.88E+06 | 1.87E-01 | 7.98E+11 | 8.58E-04 | 7.82E+06 | 1.84E-01 |
| 8.90E+06 | 1.84E-01 | 7.99E+11 | 8.48E-04 | 7.83E+06 | 1.81E-01 |
| 8.91E+06 | 1.82E-01 | 8.00E+11 | 8.45E-04 | 7.84E+06 | 1.81E-01 |
| 8.92E+06 | 1.81E-01 | 8.00E+11 | 8.35E-04 | 7.84E+06 | 1.79E-01 |
| 8.93E+06 | 1.79E-01 | 8.01E+11 | 8.25E-04 | 7.85E+06 | 1.77E-01 |
| 8.95E+06 | 1.77E-01 | 8.02E+11 | 8.15E-04 | 7.86E+06 | 1.75E-01 |
| 8.97E+06 | 1.75E-01 | 8.03E+11 | 8.09E-04 | 7.87E+06 | 1.73E-01 |
| 8.97E+06 | 1.75E-01 | 8.04E+11 | 7.99E-04 | 7.88E+06 | 1.71E-01 |
| 8.98E+06 | 1.73E-01 | 8.04E+11 | 7.96E-04 | 7.88E+06 | 1.70E-01 |
| 9.01E+06 | 1.70E-01 | 8.05E+11 | 7.86E-04 | 7.88E+06 | 1.68E-01 |
| 9.01E+06 | 1.70E-01 | 8.06E+11 | 7.76E-04 | 7.89E+06 | 1.66E-01 |
| 9.03E+06 | 1.68E-01 | 8.06E+11 | 7.74E-04 | 7.89E+06 | 1.66E-01 |
| 9.05E+06 | 1.67E-01 | 8.06E+11 | 7.64E-04 | 7.90E+06 | 1.64E-01 |
| 9.07E+06 | 1.65E-01 | 8.07E+11 | 7.54E-04 | 7.90E+06 | 1.61E-01 |
| 9.10E+06 | 1.63E-01 | 8.07E+11 | 7.45E-04 | 7.91E+06 | 1.60E-01 |
| 9.14E+06 | 1.61E-01 | 8.09E+11 | 7.35E-04 | 7.93E+06 | 1.57E-01 |
| 9.18E+06 | 1.60E-01 | 8.10E+11 | 7.25E-04 | 7.94E+06 | 1.55E-01 |
| 9.21E+06 | 1.59E-01 | 8.10E+11 | 7.24E-04 | 7.94E+06 | 1.55E-01 |
| 9.32E+06 | 1.57E-01 | 8.12E+11 | 7.14E-04 | 7.96E+06 | 1.53E-01 |
| 9.37E+06 | 1.55E-01 | 8.14E+11 | 7.07E-04 | 7.98E+06 | 1.51E-01 |
| 9.39E+06 | 1.54E-01 | 8.18E+11 | 6.97E-04 | 8.02E+06 | 1.49E-01 |
| 9.40E+06 | 1.54E-01 | 8.20E+11 | 6.93E-04 | 8.03E+06 | 1.48E-01 |
| 9.38E+06 | 1.52E-01 | 8.23E+11 | 6.88E-04 | 8.06E+06 | 1.47E-01 |
| 9.36E+06 | 1.50E-01 | 8.28E+11 | 6.79E-04 | 8.12E+06 | 1.45E-01 |
| 9.32E+06 | 1.48E-01 | 8.29E+11 | 6.78E-04 | 8.12E+06 | 1.45E-01 |
| 9.32E+06 | 1.47E-01 | 8.30E+11 | 6.68E-04 | 8.13E+06 | 1.43E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.28E+06 | 1.45E-01 | 8.30E+11 | 6.66E-04 | 8.13E+06 | 1.43E-01 |
| 9.24E+06 | 1.43E-01 | 8.26E+11 | 6.56E-04 | 8.10E+06 | 1.41E-01 |
| 9.21E+06 | 1.42E-01 | 8.26E+11 | 6.55E-04 | 8.09E+06 | 1.40E-01 |
| 9.17E+06 | 1.41E-01 | 8.20E+11 | 6.45E-04 | 8.04E+06 | 1.38E-01 |
| 9.12E+06 | 1.39E-01 | 8.15E+11 | 6.36E-04 | 7.98E+06 | 1.36E-01 |
| 9.02E+06 | 1.38E-01 | 8.10E+11 | 6.28E-04 | 7.94E+06 | 1.34E-01 |
| 8.98E+06 | 1.37E-01 | 8.07E+11 | 6.22E-04 | 7.90E+06 | 1.33E-01 |
| 8.84E+06 | 1.35E-01 | 8.02E+11 | 6.16E-04 | 7.86E+06 | 1.32E-01 |
| 8.70E+06 | 1.33E-01 | 8.01E+11 | 6.15E-04 | 7.84E+06 | 1.32E-01 |
| 8.56E+06 | 1.31E-01 | 7.88E+11 | 6.05E-04 | 7.72E+06 | 1.29E-01 |
| 8.42E+06 | 1.28E-01 | 7.82E+11 | 6.00E-04 | 7.66E+06 | 1.28E-01 |
| 8.28E+06 | 1.26E-01 | 7.69E+11 | 5.90E-04 | 7.54E+06 | 1.26E-01 |
| 8.14E+06 | 1.24E-01 | 7.56E+11 | 5.80E-04 | 7.41E+06 | 1.24E-01 |
| 8.00E+06 | 1.22E-01 | 7.43E+11 | 5.70E-04 | 7.28E+06 | 1.22E-01 |
| 7.86E+06 | 1.20E-01 | 7.30E+11 | 5.60E-04 | 7.16E+06 | 1.20E-01 |
| 7.72E+06 | 1.18E-01 | 7.17E+11 | 5.50E-04 | 7.03E+06 | 1.18E-01 |
| 7.58E+06 | 1.16E-01 | 7.04E+11 | 5.40E-04 | 6.90E+06 | 1.16E-01 |
| 7.44E+06 | 1.13E-01 | 6.91E+11 | 5.30E-04 | 6.77E+06 | 1.13E-01 |
| 7.30E+06 | 1.11E-01 | 6.78E+11 | 5.20E-04 | 6.65E+06 | 1.11E-01 |
| 7.16E+06 | 1.09E-01 | 6.65E+11 | 5.10E-04 | 6.52E+06 | 1.09E-01 |
| 7.02E+06 | 1.07E-01 | 6.52E+11 | 5.00E-04 | 6.39E+06 | 1.07E-01 |
| 6.88E+06 | 1.05E-01 | 6.39E+11 | 4.90E-04 | 6.26E+06 | 1.05E-01 |
| 6.74E+06 | 1.03E-01 | 6.26E+11 | 4.80E-04 | 6.13E+06 | 1.03E-01 |
| 6.60E+06 | 1.01E-01 | 6.13E+11 | 4.70E-04 | 6.01E+06 | 1.01E-01 |
| 6.46E+06 | 9.85E-02 | 6.00E+11 | 4.60E-04 | 5.88E+06 | 9.85E-02 |
| 6.32E+06 | 9.64E-02 | 5.87E+11 | 4.50E-04 | 5.75E+06 | 9.64E-02 |
| 6.18E+06 | 9.42E-02 | 5.74E+11 | 4.40E-04 | 5.62E+06 | 9.42E-02 |
| 6.04E+06 | 9.21E-02 | 5.61E+11 | 4.30E-04 | 5.50E+06 | 9.21E-02 |
| 5.89E+06 | 8.99E-02 | 5.48E+11 | 4.20E-04 | 5.37E+06 | 8.99E-02 |
| 5.75E+06 | 8.78E-02 | 5.35E+11 | 4.10E-04 | 5.24E+06 | 8.78E-02 |
| 5.61E+06 | 8.57E-02 | 5.22E+11 | 4.00E-04 | 5.11E+06 | 8.57E-02 |
| 5.47E+06 | 8.35E-02 | 5.09E+11 | 3.90E-04 | 4.98E+06 | 8.35E-02 |
| 5.33E+06 | 8.14E-02 | 4.96E+11 | 3.80E-04 | 4.86E+06 | 8.14E-02 |
| 5.19E+06 | 7.92E-02 | 4.83E+11 | 3.70E-04 | 4.73E+06 | 7.92E-02 |
| 5.05E+06 | 7.71E-02 | 4.70E+11 | 3.60E-04 | 4.60E+06 | 7.71E-02 |
| 4.91E+06 | 7.49E-02 | 4.56E+11 | 3.50E-04 | 4.47E+06 | 7.49E-02 |
| 4.77E+06 | 7.28E-02 | 4.43E+11 | 3.40E-04 | 4.35E+06 | 7.28E-02 |
| 4.63E+06 | 7.07E-02 | 4.30E+11 | 3.30E-04 | 4.22E+06 | 7.07E-02 |
| 4.49E+06 | 6.85E-02 | 4.17E+11 | 3.20E-04 | 4.09E+06 | 6.85E-02 |
| 4.35E+06 | 6.64E-02 | 4.04E+11 | 3.10E-04 | 3.96E+06 | 6.64E-02 |
| 4.21E+06 | 6.42E-02 | 3.91E+11 | 3.00E-04 | 3.83E+06 | 6.42E-02 |
| 4.07E+06 | 6.21E-02 | 3.78E+11 | 2.90E-04 | 3.71E+06 | 6.21E-02 |
| 3.93E+06 | 6.00E-02 | 3.65E+11 | 2.80E-04 | 3.58E+06 | 6.00E-02 |
| 3.79E+06 | 5.78E-02 | 3.52E+11 | 2.70E-04 | 3.45E+06 | 5.78E-02 |
| 3.65E+06 | 5.57E-02 | 3.39E+11 | 2.60E-04 | 3.32E+06 | 5.57E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.51E+06 | 5.35E-02 | 3.26E+11 | 2.50E-04 | 3.19E+06 | 5.35E-02 |
| 3.37E+06 | 5.14E-02 | 3.13E+11 | 2.40E-04 | 3.07E+06 | 5.14E-02 |
| 3.23E+06 | 4.93E-02 | 3.00E+11 | 2.30E-04 | 2.94E+06 | 4.93E-02 |
| 3.09E+06 | 4.71E-02 | 2.87E+11 | 2.20E-04 | 2.81E+06 | 4.71E-02 |
| 2.95E+06 | 4.50E-02 | 2.74E+11 | 2.10E-04 | 2.68E+06 | 4.50E-02 |
| 2.81E+06 | 4.28E-02 | 2.61E+11 | 2.00E-04 | 2.56E+06 | 4.28E-02 |
| 2.67E+06 | 4.07E-02 | 2.48E+11 | 1.90E-04 | 2.43E+06 | 4.07E-02 |
| 2.53E+06 | 3.85E-02 | 2.35E+11 | 1.80E-04 | 2.30E+06 | 3.85E-02 |
| 2.39E+06 | 3.64E-02 | 2.22E+11 | 1.70E-04 | 2.17E+06 | 3.64E-02 |
| 2.25E+06 | 3.43E-02 | 2.09E+11 | 1.60E-04 | 2.05E+06 | 3.43E-02 |
| 2.11E+06 | 3.21E-02 | 1.96E+11 | 1.50E-04 | 1.92E+06 | 3.21E-02 |
| 1.96E+06 | 3.00E-02 | 1.83E+11 | 1.40E-04 | 1.79E+06 | 3.00E-02 |
| 1.82E+06 | 2.78E-02 | 1.70E+11 | 1.30E-04 | 1.66E+06 | 2.78E-02 |
| 1.68E+06 | 2.57E-02 | 1.57E+11 | 1.20E-04 | 1.53E+06 | 2.57E-02 |
| 1.54E+06 | 2.36E-02 | 1.44E+11 | 1.10E-04 | 1.41E+06 | 2.36E-02 |
| 1.40E+06 | 2.14E-02 | 1.30E+11 | 1.00E-04 | 1.28E+06 | 2.14E-02 |
| 1.26E+06 | 1.93E-02 | 1.17E+11 | 9.00E-05 | 1.15E+06 | 1.93E-02 |
| 1.12E+06 | 1.71E-02 | 1.04E+11 | 8.00E-05 | 1.02E+06 | 1.71E-02 |
| 9.83E+05 | 1.50E-02 | 9.13E+10 | 7.00E-05 | 8.95E+05 | 1.50E-02 |
| 8.42E+05 | 1.28E-02 | 7.83E+10 | 6.00E-05 | 7.67E+05 | 1.28E-02 |
| 7.02E+05 | 1.07E-02 | 6.52E+10 | 5.00E-05 | 6.39E+05 | 1.07E-02 |
| 5.61E+05 | 8.57E-03 | 5.22E+10 | 4.00E-05 | 5.11E+05 | 8.57E-03 |
| 4.21E+05 | 6.42E-03 | 3.91E+10 | 3.00E-05 | 3.83E+05 | 6.42E-03 |
| 2.81E+05 | 4.28E-03 | 2.61E+10 | 2.00E-05 | 2.56E+05 | 4.28E-03 |
| 1.40E+05 | 2.14E-03 | 1.30E+10 | 1.00E-05 | 1.28E+05 | 2.14E-03 |
| 1.26E+05 | 1.93E-03 | 1.17E+10 | 9.00E-06 | 1.15E+05 | 1.93E-03 |
| 1.12E+05 | 1.71E-03 | 1.04E+10 | 8.00E-06 | 1.02E+05 | 1.71E-03 |
| 9.83E+04 | 1.50E-03 | 9.13E+09 | 7.00E-06 | 8.95E+04 | 1.50E-03 |
| 8.42E+04 | 1.28E-03 | 7.83E+09 | 6.00E-06 | 7.67E+04 | 1.28E-03 |
| 7.02E+04 | 1.07E-03 | 6.52E+09 | 5.00E-06 | 6.39E+04 | 1.07E-03 |
| 5.62E+04 | 8.57E-04 | 5.22E+09 | 4.00E-06 | 5.11E+04 | 8.57E-04 |
| 4.21E+04 | 6.42E-04 | 3.91E+09 | 3.00E-06 | 3.83E+04 | 6.42E-04 |
| 2.81E+04 | 4.28E-04 | 2.61E+09 | 2.00E-06 | 2.56E+04 | 4.28E-04 |
| 1.40E+04 | 2.14E-04 | 1.31E+09 | 1.00E-06 | 1.28E+04 | 2.14E-04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.40E+04 | -2.14E-04 | -1.31E+09 | -1.00E-06 | -1.28E+04 | -2.14E-04 |
| -2.81E+04 | -4.28E-04 | -2.61E+09 | -2.00E-06 | -2.56E+04 | -4.28E-04 |
| -4.21E+04 | -6.42E-04 | -3.91E+09 | -3.00E-06 | -3.84E+04 | -6.42E-04 |
| -5.62E+04 | -8.57E-04 | -5.22E+09 | -4.00E-06 | -5.11E+04 | -8.57E-04 |
| -7.02E+04 | -1.07E-03 | -6.52E+09 | -5.00E-06 | -6.39E+04 | -1.07E-03 |
| -8.42E+04 | -1.28E-03 | -7.83E+09 | -6.00E-06 | -7.67E+04 | -1.28E-03 |
| -9.83E+04 | -1.50E-03 | -9.13E+09 | -7.00E-06 | -8.95E+04 | -1.50E-03 |
| -1.12E+05 | -1.71E-03 | -1.04E+10 | -8.00E-06 | -1.02E+05 | -1.71E-03 |
| -1.26E+05 | -1.93E-03 | -1.17E+10 | -9.00E-06 | -1.15E+05 | -1.93E-03 |
| -1.40E+05 | -2.14E-03 | -1.30E+10 | -1.00E-05 | -1.28E+05 | -2.14E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.81E+05 | -4.28E-03 | -2.61E+10 | -2.00E-05 | -2.56E+05 | -4.28E-03 |
| -4.21E+05 | -6.42E-03 | -3.91E+10 | -3.00E-05 | -3.83E+05 | -6.42E-03 |
| -5.61E+05 | -8.57E-03 | -5.22E+10 | -4.00E-05 | -5.11E+05 | -8.57E-03 |
| -7.02E+05 | -1.07E-02 | -6.52E+10 | -5.00E-05 | -6.39E+05 | -1.07E-02 |
| -8.42E+05 | -1.28E-02 | -7.83E+10 | -6.00E-05 | -7.67E+05 | -1.28E-02 |
| -9.83E+05 | -1.50E-02 | -9.13E+10 | -7.00E-05 | -8.95E+05 | -1.50E-02 |
| -1.12E+06 | -1.71E-02 | -1.04E+11 | -8.00E-05 | -1.02E+06 | -1.71E-02 |
| -1.26E+06 | -1.93E-02 | -1.17E+11 | -9.00E-05 | -1.15E+06 | -1.93E-02 |
| -1.40E+06 | -2.14E-02 | -1.30E+11 | -1.00E-04 | -1.28E+06 | -2.14E-02 |
| -1.54E+06 | -2.36E-02 | -1.44E+11 | -1.10E-04 | -1.41E+06 | -2.36E-02 |
| -1.68E+06 | -2.57E-02 | -1.57E+11 | -1.20E-04 | -1.53E+06 | -2.57E-02 |
| -1.82E+06 | -2.78E-02 | -1.70E+11 | -1.30E-04 | -1.66E+06 | -2.78E-02 |
| -1.96E+06 | -3.00E-02 | -1.83E+11 | -1.40E-04 | -1.79E+06 | -3.00E-02 |
| -2.11E+06 | -3.21E-02 | -1.96E+11 | -1.50E-04 | -1.92E+06 | -3.21E-02 |
| -2.25E+06 | -3.43E-02 | -2.09E+11 | -1.60E-04 | -2.05E+06 | -3.43E-02 |
| -2.39E+06 | -3.64E-02 | -2.22E+11 | -1.70E-04 | -2.17E+06 | -3.64E-02 |
| -2.53E+06 | -3.85E-02 | -2.35E+11 | -1.80E-04 | -2.30E+06 | -3.85E-02 |
| -2.67E+06 | -4.07E-02 | -2.48E+11 | -1.90E-04 | -2.43E+06 | -4.07E-02 |
| -2.81E+06 | -4.28E-02 | -2.61E+11 | -2.00E-04 | -2.56E+06 | -4.28E-02 |
| -2.95E+06 | -4.50E-02 | -2.74E+11 | -2.10E-04 | -2.68E+06 | -4.50E-02 |
| -3.09E+06 | -4.71E-02 | -2.87E+11 | -2.20E-04 | -2.81E+06 | -4.71E-02 |
| -3.23E+06 | -4.93E-02 | -3.00E+11 | -2.30E-04 | -2.94E+06 | -4.93E-02 |
| -3.37E+06 | -5.14E-02 | -3.13E+11 | -2.40E-04 | -3.07E+06 | -5.14E-02 |
| -3.51E+06 | -5.35E-02 | -3.26E+11 | -2.50E-04 | -3.20E+06 | -5.35E-02 |
| -3.65E+06 | -5.57E-02 | -3.39E+11 | -2.60E-04 | -3.32E+06 | -5.57E-02 |
| -3.79E+06 | -5.78E-02 | -3.52E+11 | -2.70E-04 | -3.45E+06 | -5.78E-02 |
| -3.93E+06 | -6.00E-02 | -3.65E+11 | -2.80E-04 | -3.58E+06 | -6.00E-02 |
| -4.07E+06 | -6.21E-02 | -3.78E+11 | -2.90E-04 | -3.71E+06 | -6.21E-02 |
| -4.21E+06 | -6.42E-02 | -3.91E+11 | -3.00E-04 | -3.83E+06 | -6.42E-02 |
| -4.35E+06 | -6.64E-02 | -4.04E+11 | -3.10E-04 | -3.96E+06 | -6.64E-02 |
| -4.49E+06 | -6.85E-02 | -4.17E+11 | -3.20E-04 | -4.09E+06 | -6.85E-02 |
| -4.63E+06 | -7.07E-02 | -4.30E+11 | -3.30E-04 | -4.22E+06 | -7.07E-02 |
| -4.77E+06 | -7.28E-02 | -4.43E+11 | -3.40E-04 | -4.35E+06 | -7.28E-02 |
| -4.91E+06 | -7.49E-02 | -4.57E+11 | -3.50E-04 | -4.47E+06 | -7.49E-02 |
| -5.05E+06 | -7.71E-02 | -4.70E+11 | -3.60E-04 | -4.60E+06 | -7.71E-02 |
| -5.19E+06 | -7.92E-02 | -4.83E+11 | -3.70E-04 | -4.73E+06 | -7.92E-02 |
| -5.33E+06 | -8.14E-02 | -4.96E+11 | -3.80E-04 | -4.86E+06 | -8.14E-02 |
| -5.47E+06 | -8.35E-02 | -5.09E+11 | -3.90E-04 | -4.98E+06 | -8.35E-02 |
| -5.61E+06 | -8.57E-02 | -5.22E+11 | -4.00E-04 | -5.11E+06 | -8.57E-02 |
| -5.75E+06 | -8.78E-02 | -5.35E+11 | -4.10E-04 | -5.24E+06 | -8.78E-02 |
| -5.89E+06 | -8.99E-02 | -5.48E+11 | -4.20E-04 | -5.37E+06 | -8.99E-02 |
| -6.03E+06 | -9.21E-02 | -5.61E+11 | -4.30E-04 | -5.50E+06 | -9.21E-02 |
| -6.17E+06 | -9.42E-02 | -5.74E+11 | -4.40E-04 | -5.62E+06 | -9.42E-02 |
| -6.32E+06 | -9.64E-02 | -5.87E+11 | -4.50E-04 | -5.75E+06 | -9.64E-02 |
| -6.46E+06 | -9.85E-02 | -6.00E+11 | -4.60E-04 | -5.88E+06 | -9.85E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.60E+06 | -1.01E-01 | -6.13E+11 | -4.70E-04 | -6.01E+06 | -1.01E-01 |
| -6.74E+06 | -1.03E-01 | -6.26E+11 | -4.80E-04 | -6.13E+06 | -1.03E-01 |
| -6.88E+06 | -1.05E-01 | -6.39E+11 | -4.90E-04 | -6.26E+06 | -1.05E-01 |
| -7.02E+06 | -1.07E-01 | -6.52E+11 | -5.00E-04 | -6.39E+06 | -1.07E-01 |
| -7.16E+06 | -1.09E-01 | -6.65E+11 | -5.10E-04 | -6.52E+06 | -1.09E-01 |
| -7.30E+06 | -1.11E-01 | -6.78E+11 | -5.20E-04 | -6.65E+06 | -1.11E-01 |
| -7.44E+06 | -1.13E-01 | -6.91E+11 | -5.30E-04 | -6.77E+06 | -1.13E-01 |
| -7.58E+06 | -1.16E-01 | -7.04E+11 | -5.40E-04 | -6.90E+06 | -1.16E-01 |
| -7.72E+06 | -1.18E-01 | -7.17E+11 | -5.50E-04 | -7.03E+06 | -1.18E-01 |
| -7.86E+06 | -1.20E-01 | -7.30E+11 | -5.60E-04 | -7.16E+06 | -1.20E-01 |
| -8.00E+06 | -1.22E-01 | -7.43E+11 | -5.70E-04 | -7.28E+06 | -1.22E-01 |
| -8.14E+06 | -1.24E-01 | -7.56E+11 | -5.80E-04 | -7.41E+06 | -1.24E-01 |
| -8.28E+06 | -1.26E-01 | -7.69E+11 | -5.90E-04 | -7.54E+06 | -1.26E-01 |
| -8.39E+06 | -1.28E-01 | -7.82E+11 | -6.00E-04 | -7.67E+06 | -1.28E-01 |
| -8.53E+06 | -1.30E-01 | -7.95E+11 | -6.10E-04 | -7.79E+06 | -1.31E-01 |
| -8.64E+06 | -1.32E-01 | -8.04E+11 | -6.17E-04 | -7.88E+06 | -1.32E-01 |
| -8.72E+06 | -1.34E-01 | -8.15E+11 | -6.25E-04 | -7.99E+06 | -1.34E-01 |
| -8.77E+06 | -1.35E-01 | -8.19E+11 | -6.31E-04 | -8.03E+06 | -1.35E-01 |
| -8.82E+06 | -1.36E-01 | -8.25E+11 | -6.40E-04 | -8.08E+06 | -1.37E-01 |
| -8.87E+06 | -1.37E-01 | -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.90E+06 | -1.39E-01 | -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.92E+06 | -1.40E-01 | -8.37E+11 | -6.58E-04 | -8.21E+06 | -1.41E-01 |
| -8.93E+06 | -1.41E-01 | -8.41E+11 | -6.64E-04 | -8.24E+06 | -1.42E-01 |
| -8.95E+06 | -1.43E-01 | -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.96E+06 | -1.44E-01 | -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.97E+06 | -1.46E-01 | -8.51E+11 | -6.83E-04 | -8.34E+06 | -1.46E-01 |
| -8.97E+06 | -1.47E-01 | -8.56E+11 | -6.92E-04 | -8.38E+06 | -1.48E-01 |
| -8.97E+06 | -1.48E-01 | -8.59E+11 | -7.02E-04 | -8.42E+06 | -1.50E-01 |
| -8.98E+06 | -1.49E-01 | -8.63E+11 | -7.12E-04 | -8.45E+06 | -1.53E-01 |
| -8.97E+06 | -1.50E-01 | -8.63E+11 | -7.13E-04 | -8.46E+06 | -1.53E-01 |
| -8.97E+06 | -1.51E-01 | -8.65E+11 | -7.20E-04 | -8.48E+06 | -1.54E-01 |
| -8.96E+06 | -1.53E-01 | -8.66E+11 | -7.27E-04 | -8.49E+06 | -1.56E-01 |
| -8.92E+06 | -1.55E-01 | -8.67E+11 | -7.33E-04 | -8.49E+06 | -1.57E-01 |
| -8.87E+06 | -1.57E-01 | -8.67E+11 | -7.43E-04 | -8.49E+06 | -1.59E-01 |
| -8.78E+06 | -1.59E-01 | -8.67E+11 | -7.53E-04 | -8.49E+06 | -1.61E-01 |
| -8.76E+06 | -1.60E-01 | -8.67E+11 | -7.61E-04 | -8.49E+06 | -1.63E-01 |
| -8.62E+06 | -1.62E-01 | -8.67E+11 | -7.68E-04 | -8.49E+06 | -1.64E-01 |
| -8.59E+06 | -1.62E-01 | -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.44E+06 | -1.64E-01 | -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.35E+06 | -1.66E-01 | -8.66E+11 | -7.85E-04 | -8.48E+06 | -1.68E-01 |
| -8.25E+06 | -1.68E-01 | -8.65E+11 | -7.92E-04 | -8.48E+06 | -1.69E-01 |
| -8.20E+06 | -1.69E-01 | -8.64E+11 | -7.99E-04 | -8.47E+06 | -1.71E-01 |
| -8.12E+06 | -1.71E-01 | -8.62E+11 | -8.06E-04 | -8.45E+06 | -1.73E-01 |
| -8.06E+06 | -1.73E-01 | -8.60E+11 | -8.15E-04 | -8.42E+06 | -1.74E-01 |
| -8.06E+06 | -1.74E-01 | -8.56E+11 | -8.22E-04 | -8.38E+06 | -1.76E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.00E+06 | -1.76E-01 | -8.48E+11 | -8.32E-04 | -8.31E+06 | -1.78E-01 |
| -7.95E+06 | -1.78E-01 | -8.37E+11 | -8.42E-04 | -8.20E+06 | -1.80E-01 |
| -7.95E+06 | -1.78E-01 | -8.31E+11 | -8.47E-04 | -8.14E+06 | -1.81E-01 |
| -7.91E+06 | -1.80E-01 | -8.16E+11 | -8.57E-04 | -7.99E+06 | -1.84E-01 |
| -7.87E+06 | -1.82E-01 | -8.11E+11 | -8.61E-04 | -7.95E+06 | -1.84E-01 |
| -7.85E+06 | -1.83E-01 | -7.98E+11 | -8.71E-04 | -7.82E+06 | -1.86E-01 |
| -7.81E+06 | -1.85E-01 | -7.93E+11 | -8.77E-04 | -7.77E+06 | -1.88E-01 |
| -7.77E+06 | -1.87E-01 | -7.85E+11 | -8.87E-04 | -7.69E+06 | -1.90E-01 |
| -7.74E+06 | -1.89E-01 | -7.79E+11 | -8.97E-04 | -7.63E+06 | -1.92E-01 |
| -7.70E+06 | -1.91E-01 | -7.78E+11 | -8.98E-04 | -7.63E+06 | -1.92E-01 |
| -7.68E+06 | -1.93E-01 | -7.73E+11 | -9.08E-04 | -7.58E+06 | -1.94E-01 |
| -7.65E+06 | -1.95E-01 | -7.69E+11 | -9.18E-04 | -7.54E+06 | -1.97E-01 |
| -7.62E+06 | -1.97E-01 | -7.68E+11 | -9.22E-04 | -7.52E+06 | -1.97E-01 |
| -7.59E+06 | -1.99E-01 | -7.63E+11 | -9.32E-04 | -7.48E+06 | -1.99E-01 |
| -7.55E+06 | -2.01E-01 | -7.60E+11 | -9.42E-04 | -7.44E+06 | -2.02E-01 |
| -7.52E+06 | -2.03E-01 | -7.57E+11 | -9.50E-04 | -7.41E+06 | -2.03E-01 |
| -7.50E+06 | -2.05E-01 | -7.53E+11 | -9.60E-04 | -7.38E+06 | -2.06E-01 |
| -7.49E+06 | -2.06E-01 | -7.50E+11 | -9.70E-04 | -7.35E+06 | -2.08E-01 |
| -7.45E+06 | -2.08E-01 | -7.48E+11 | -9.77E-04 | -7.33E+06 | -2.09E-01 |
| -7.42E+06 | -2.10E-01 | -7.45E+11 | -9.87E-04 | -7.30E+06 | -2.11E-01 |
| -7.39E+06 | -2.12E-01 | -7.42E+11 | -9.95E-04 | -7.27E+06 | -2.13E-01 |
| -7.36E+06 | -2.15E-01 | -7.39E+11 | -1.01E-03 | -7.24E+06 | -2.15E-01 |
| -7.34E+06 | -2.17E-01 | -7.36E+11 | -1.02E-03 | -7.21E+06 | -2.17E-01 |
| -7.31E+06 | -2.19E-01 | -7.33E+11 | -1.03E-03 | -7.19E+06 | -2.19E-01 |
| -7.28E+06 | -2.21E-01 | -7.33E+11 | -1.03E-03 | -7.18E+06 | -2.20E-01 |
| -7.28E+06 | -2.21E-01 | -7.30E+11 | -1.04E-03 | -7.16E+06 | -2.22E-01 |
| -7.26E+06 | -2.23E-01 | -7.28E+11 | -1.05E-03 | -7.13E+06 | -2.24E-01 |
| -7.23E+06 | -2.25E-01 | -7.25E+11 | -1.06E-03 | -7.11E+06 | -2.26E-01 |
| -7.21E+06 | -2.27E-01 | -7.22E+11 | -1.07E-03 | -7.08E+06 | -2.28E-01 |
| -7.18E+06 | -2.29E-01 | -7.20E+11 | -1.08E-03 | -7.05E+06 | -2.30E-01 |
| -7.15E+06 | -2.31E-01 | -7.17E+11 | -1.09E-03 | -7.02E+06 | -2.33E-01 |
| -7.12E+06 | -2.33E-01 | -7.14E+11 | -1.10E-03 | -7.00E+06 | -2.35E-01 |
| -7.10E+06 | -2.36E-01 | -7.12E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.08E+06 | -2.38E-01 | -7.11E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.06E+06 | -2.39E-01 | -7.09E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.04E+06 | -2.41E-01 | -7.08E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.03E+06 | -2.42E-01 | -7.07E+11 | -1.13E-03 | -6.92E+06 | -2.41E-01 |
| -7.01E+06 | -2.44E-01 | -7.04E+11 | -1.14E-03 | -6.90E+06 | -2.43E-01 |
| -6.98E+06 | -2.46E-01 | -7.01E+11 | -1.15E-03 | -6.87E+06 | -2.46E-01 |
| -6.95E+06 | -2.48E-01 | -6.99E+11 | -1.16E-03 | -6.85E+06 | -2.48E-01 |
| -6.93E+06 | -2.50E-01 | -6.96E+11 | -1.17E-03 | -6.82E+06 | -2.50E-01 |
| -6.90E+06 | -2.52E-01 | -6.94E+11 | -1.18E-03 | -6.80E+06 | -2.52E-01 |
| -6.88E+06 | -2.54E-01 | -6.92E+11 | -1.19E-03 | -6.78E+06 | -2.54E-01 |
| -6.86E+06 | -2.57E-01 | -6.89E+11 | -1.20E-03 | -6.76E+06 | -2.56E-01 |
| -6.84E+06 | -2.58E-01 | -6.89E+11 | -1.20E-03 | -6.75E+06 | -2.57E-01 |

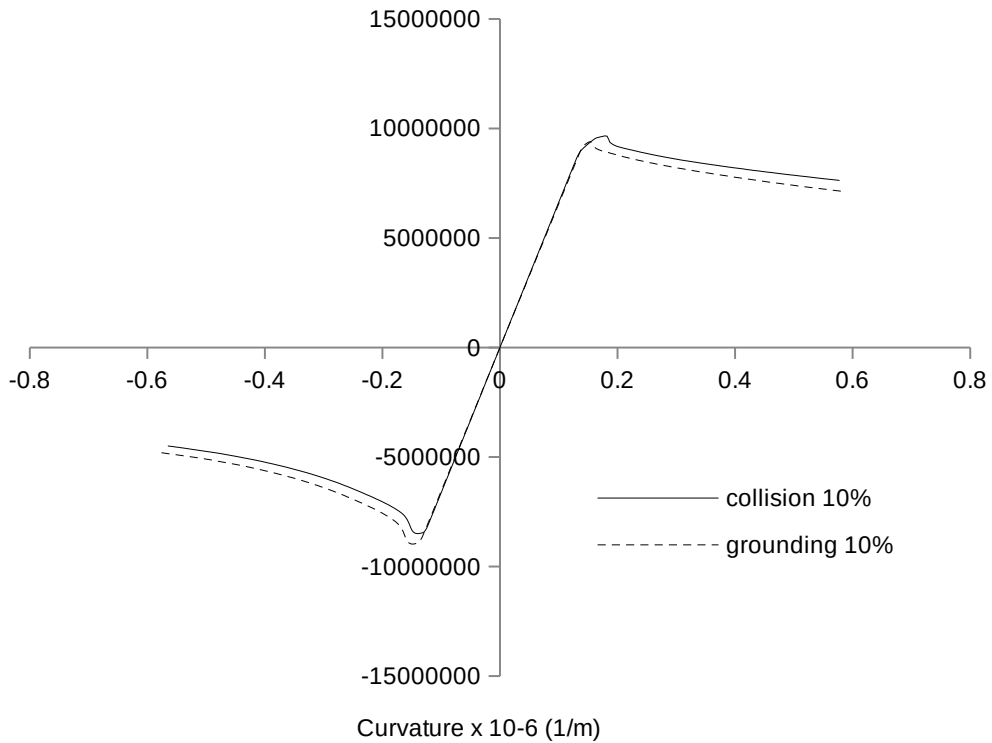
| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.82E+06 | -2.60E-01 | -6.87E+11 | -1.21E-03 | -6.73E+06 | -2.59E-01 |
| -6.79E+06 | -2.62E-01 | -6.85E+11 | -1.22E-03 | -6.72E+06 | -2.60E-01 |
| -6.77E+06 | -2.64E-01 | -6.84E+11 | -1.22E-03 | -6.70E+06 | -2.62E-01 |
| -6.74E+06 | -2.66E-01 | -6.81E+11 | -1.23E-03 | -6.67E+06 | -2.64E-01 |
| -6.72E+06 | -2.69E-01 | -6.79E+11 | -1.24E-03 | -6.65E+06 | -2.66E-01 |
| -6.70E+06 | -2.71E-01 | -6.76E+11 | -1.25E-03 | -6.63E+06 | -2.68E-01 |
| -6.67E+06 | -2.73E-01 | -6.74E+11 | -1.26E-03 | -6.61E+06 | -2.70E-01 |
| -6.65E+06 | -2.75E-01 | -6.72E+11 | -1.27E-03 | -6.58E+06 | -2.73E-01 |
| -6.63E+06 | -2.77E-01 | -6.70E+11 | -1.28E-03 | -6.56E+06 | -2.75E-01 |
| -6.61E+06 | -2.79E-01 | -6.68E+11 | -1.29E-03 | -6.54E+06 | -2.77E-01 |
| -6.60E+06 | -2.80E-01 | -6.66E+11 | -1.30E-03 | -6.52E+06 | -2.79E-01 |
| -6.58E+06 | -2.82E-01 | -6.64E+11 | -1.31E-03 | -6.50E+06 | -2.81E-01 |
| -6.56E+06 | -2.84E-01 | -6.63E+11 | -1.32E-03 | -6.50E+06 | -2.82E-01 |
| -6.54E+06 | -2.86E-01 | -6.61E+11 | -1.33E-03 | -6.48E+06 | -2.84E-01 |
| -6.51E+06 | -2.88E-01 | -6.59E+11 | -1.34E-03 | -6.46E+06 | -2.86E-01 |
| -6.49E+06 | -2.90E-01 | -6.57E+11 | -1.35E-03 | -6.43E+06 | -2.88E-01 |
| -6.47E+06 | -2.93E-01 | -6.54E+11 | -1.36E-03 | -6.41E+06 | -2.90E-01 |
| -6.45E+06 | -2.95E-01 | -6.52E+11 | -1.37E-03 | -6.39E+06 | -2.92E-01 |
| -6.43E+06 | -2.97E-01 | -6.50E+11 | -1.38E-03 | -6.37E+06 | -2.94E-01 |
| -6.41E+06 | -2.99E-01 | -6.48E+11 | -1.39E-03 | -6.35E+06 | -2.97E-01 |
| -6.39E+06 | -3.01E-01 | -6.46E+11 | -1.40E-03 | -6.33E+06 | -2.99E-01 |
| -6.37E+06 | -3.03E-01 | -6.44E+11 | -1.41E-03 | -6.31E+06 | -3.01E-01 |
| -6.36E+06 | -3.04E-01 | -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.03E-01 |
| -6.34E+06 | -3.06E-01 | -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.04E-01 |
| -6.32E+06 | -3.08E-01 | -6.40E+11 | -1.43E-03 | -6.27E+06 | -3.06E-01 |
| -6.30E+06 | -3.10E-01 | -6.39E+11 | -1.43E-03 | -6.26E+06 | -3.07E-01 |
| -6.28E+06 | -3.13E-01 | -6.37E+11 | -1.44E-03 | -6.24E+06 | -3.09E-01 |
| -6.26E+06 | -3.15E-01 | -6.35E+11 | -1.45E-03 | -6.22E+06 | -3.11E-01 |
| -6.24E+06 | -3.17E-01 | -6.33E+11 | -1.46E-03 | -6.21E+06 | -3.13E-01 |
| -6.24E+06 | -3.18E-01 | -6.31E+11 | -1.47E-03 | -6.19E+06 | -3.15E-01 |
| -6.22E+06 | -3.20E-01 | -6.31E+11 | -1.48E-03 | -6.18E+06 | -3.16E-01 |
| -6.20E+06 | -3.22E-01 | -6.29E+11 | -1.49E-03 | -6.16E+06 | -3.18E-01 |
| -6.18E+06 | -3.24E-01 | -6.27E+11 | -1.50E-03 | -6.14E+06 | -3.20E-01 |
| -6.17E+06 | -3.26E-01 | -6.25E+11 | -1.51E-03 | -6.12E+06 | -3.22E-01 |
| -6.15E+06 | -3.28E-01 | -6.23E+11 | -1.52E-03 | -6.11E+06 | -3.24E-01 |
| -6.13E+06 | -3.30E-01 | -6.21E+11 | -1.53E-03 | -6.09E+06 | -3.27E-01 |
| -6.11E+06 | -3.33E-01 | -6.20E+11 | -1.54E-03 | -6.07E+06 | -3.29E-01 |
| -6.10E+06 | -3.34E-01 | -6.18E+11 | -1.55E-03 | -6.05E+06 | -3.31E-01 |
| -6.08E+06 | -3.37E-01 | -6.16E+11 | -1.56E-03 | -6.04E+06 | -3.33E-01 |
| -6.06E+06 | -3.39E-01 | -6.15E+11 | -1.57E-03 | -6.02E+06 | -3.35E-01 |
| -6.04E+06 | -3.41E-01 | -6.14E+11 | -1.57E-03 | -6.02E+06 | -3.36E-01 |
| -6.03E+06 | -3.43E-01 | -6.12E+11 | -1.58E-03 | -6.00E+06 | -3.38E-01 |
| -6.01E+06 | -3.45E-01 | -6.10E+11 | -1.59E-03 | -5.98E+06 | -3.40E-01 |
| -5.99E+06 | -3.47E-01 | -6.09E+11 | -1.60E-03 | -5.96E+06 | -3.42E-01 |
| -5.98E+06 | -3.49E-01 | -6.07E+11 | -1.61E-03 | -5.95E+06 | -3.45E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.96E+06 | -3.52E-01 | -6.05E+11 | -1.62E-03 | -5.93E+06 | -3.47E-01 |
| -5.94E+06 | -3.54E-01 | -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -5.93E+06 | -3.56E-01 | -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -5.91E+06 | -3.58E-01 | -6.02E+11 | -1.64E-03 | -5.90E+06 | -3.51E-01 |
| -5.91E+06 | -3.59E-01 | -6.00E+11 | -1.65E-03 | -5.88E+06 | -3.53E-01 |
| -5.89E+06 | -3.61E-01 | -5.98E+11 | -1.66E-03 | -5.86E+06 | -3.55E-01 |
| -5.88E+06 | -3.63E-01 | -5.97E+11 | -1.67E-03 | -5.85E+06 | -3.57E-01 |
| -5.86E+06 | -3.65E-01 | -5.95E+11 | -1.68E-03 | -5.83E+06 | -3.60E-01 |
| -5.85E+06 | -3.67E-01 | -5.94E+11 | -1.69E-03 | -5.82E+06 | -3.62E-01 |
| -5.83E+06 | -3.69E-01 | -5.92E+11 | -1.70E-03 | -5.80E+06 | -3.64E-01 |
| -5.82E+06 | -3.72E-01 | -5.91E+11 | -1.71E-03 | -5.79E+06 | -3.66E-01 |
| -5.81E+06 | -3.72E-01 | -5.89E+11 | -1.72E-03 | -5.77E+06 | -3.68E-01 |
| -5.80E+06 | -3.74E-01 | -5.88E+11 | -1.73E-03 | -5.77E+06 | -3.69E-01 |
| -5.78E+06 | -3.76E-01 | -5.87E+11 | -1.74E-03 | -5.75E+06 | -3.72E-01 |
| -5.77E+06 | -3.78E-01 | -5.85E+11 | -1.75E-03 | -5.74E+06 | -3.74E-01 |
| -5.75E+06 | -3.81E-01 | -5.84E+11 | -1.76E-03 | -5.72E+06 | -3.76E-01 |
| -5.74E+06 | -3.83E-01 | -5.82E+11 | -1.77E-03 | -5.71E+06 | -3.78E-01 |
| -5.72E+06 | -3.85E-01 | -5.81E+11 | -1.78E-03 | -5.69E+06 | -3.80E-01 |
| -5.71E+06 | -3.87E-01 | -5.79E+11 | -1.79E-03 | -5.68E+06 | -3.82E-01 |
| -5.69E+06 | -3.89E-01 | -5.78E+11 | -1.80E-03 | -5.66E+06 | -3.84E-01 |
| -5.68E+06 | -3.91E-01 | -5.76E+11 | -1.81E-03 | -5.65E+06 | -3.87E-01 |
| -5.67E+06 | -3.93E-01 | -5.75E+11 | -1.82E-03 | -5.64E+06 | -3.89E-01 |
| -5.65E+06 | -3.96E-01 | -5.74E+11 | -1.83E-03 | -5.62E+06 | -3.91E-01 |
| -5.64E+06 | -3.98E-01 | -5.73E+11 | -1.83E-03 | -5.61E+06 | -3.93E-01 |
| -5.63E+06 | -4.00E-01 | -5.71E+11 | -1.84E-03 | -5.60E+06 | -3.95E-01 |
| -5.62E+06 | -4.02E-01 | -5.70E+11 | -1.85E-03 | -5.59E+06 | -3.97E-01 |
| -5.61E+06 | -4.03E-01 | -5.69E+11 | -1.86E-03 | -5.57E+06 | -3.99E-01 |
| -5.59E+06 | -4.06E-01 | -5.67E+11 | -1.87E-03 | -5.56E+06 | -4.01E-01 |
| -5.58E+06 | -4.08E-01 | -5.66E+11 | -1.88E-03 | -5.55E+06 | -4.03E-01 |
| -5.57E+06 | -4.10E-01 | -5.65E+11 | -1.89E-03 | -5.53E+06 | -4.05E-01 |
| -5.55E+06 | -4.12E-01 | -5.63E+11 | -1.90E-03 | -5.52E+06 | -4.07E-01 |
| -5.54E+06 | -4.14E-01 | -5.62E+11 | -1.91E-03 | -5.51E+06 | -4.10E-01 |
| -5.53E+06 | -4.16E-01 | -5.61E+11 | -1.92E-03 | -5.50E+06 | -4.12E-01 |
| -5.52E+06 | -4.18E-01 | -5.61E+11 | -1.93E-03 | -5.49E+06 | -4.12E-01 |
| -5.50E+06 | -4.20E-01 | -5.59E+11 | -1.94E-03 | -5.48E+06 | -4.14E-01 |
| -5.49E+06 | -4.22E-01 | -5.58E+11 | -1.95E-03 | -5.47E+06 | -4.16E-01 |
| -5.48E+06 | -4.25E-01 | -5.57E+11 | -1.96E-03 | -5.45E+06 | -4.19E-01 |
| -5.47E+06 | -4.27E-01 | -5.55E+11 | -1.97E-03 | -5.44E+06 | -4.21E-01 |
| -5.45E+06 | -4.29E-01 | -5.54E+11 | -1.98E-03 | -5.43E+06 | -4.23E-01 |
| -5.44E+06 | -4.31E-01 | -5.53E+11 | -1.99E-03 | -5.42E+06 | -4.25E-01 |
| -5.43E+06 | -4.33E-01 | -5.51E+11 | -2.00E-03 | -5.40E+06 | -4.27E-01 |
| -5.42E+06 | -4.35E-01 | -5.50E+11 | -2.01E-03 | -5.39E+06 | -4.29E-01 |
| -5.40E+06 | -4.37E-01 | -5.49E+11 | -2.02E-03 | -5.38E+06 | -4.31E-01 |
| -5.39E+06 | -4.40E-01 | -5.48E+11 | -2.03E-03 | -5.37E+06 | -4.34E-01 |
| -5.38E+06 | -4.42E-01 | -5.47E+11 | -2.04E-03 | -5.36E+06 | -4.36E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.37E+06 | -4.44E-01 | -5.46E+11 | -2.05E-03 | -5.35E+06 | -4.38E-01 |
| -5.36E+06 | -4.46E-01 | -5.44E+11 | -2.06E-03 | -5.34E+06 | -4.40E-01 |
| -5.35E+06 | -4.48E-01 | -5.43E+11 | -2.07E-03 | -5.32E+06 | -4.42E-01 |
| -5.34E+06 | -4.50E-01 | -5.42E+11 | -2.08E-03 | -5.31E+06 | -4.44E-01 |
| -5.33E+06 | -4.52E-01 | -5.41E+11 | -2.09E-03 | -5.30E+06 | -4.46E-01 |
| -5.32E+06 | -4.55E-01 | -5.40E+11 | -2.10E-03 | -5.29E+06 | -4.49E-01 |
| -5.30E+06 | -4.57E-01 | -5.39E+11 | -2.11E-03 | -5.28E+06 | -4.51E-01 |
| -5.29E+06 | -4.59E-01 | -5.38E+11 | -2.12E-03 | -5.27E+06 | -4.53E-01 |
| -5.29E+06 | -4.61E-01 | -5.37E+11 | -2.13E-03 | -5.26E+06 | -4.55E-01 |
| -5.28E+06 | -4.63E-01 | -5.36E+11 | -2.14E-03 | -5.25E+06 | -4.57E-01 |
| -5.26E+06 | -4.65E-01 | -5.35E+11 | -2.15E-03 | -5.24E+06 | -4.59E-01 |
| -5.25E+06 | -4.67E-01 | -5.34E+11 | -2.16E-03 | -5.23E+06 | -4.61E-01 |
| -5.24E+06 | -4.70E-01 | -5.32E+11 | -2.17E-03 | -5.22E+06 | -4.64E-01 |
| -5.23E+06 | -4.72E-01 | -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.22E+06 | -4.74E-01 | -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.21E+06 | -4.76E-01 | -5.30E+11 | -2.19E-03 | -5.20E+06 | -4.68E-01 |
| -5.20E+06 | -4.78E-01 | -5.29E+11 | -2.20E-03 | -5.19E+06 | -4.70E-01 |
| -5.19E+06 | -4.80E-01 | -5.28E+11 | -2.21E-03 | -5.17E+06 | -4.72E-01 |
| -5.18E+06 | -4.82E-01 | -5.27E+11 | -2.22E-03 | -5.16E+06 | -4.75E-01 |
| -5.17E+06 | -4.84E-01 | -5.26E+11 | -2.23E-03 | -5.15E+06 | -4.77E-01 |
| -5.16E+06 | -4.86E-01 | -5.25E+11 | -2.24E-03 | -5.14E+06 | -4.79E-01 |
| -5.15E+06 | -4.88E-01 | -5.24E+11 | -2.25E-03 | -5.13E+06 | -4.81E-01 |
| -5.14E+06 | -4.91E-01 | -5.23E+11 | -2.26E-03 | -5.12E+06 | -4.83E-01 |
| -5.13E+06 | -4.93E-01 | -5.21E+11 | -2.27E-03 | -5.11E+06 | -4.85E-01 |
| -5.12E+06 | -4.95E-01 | -5.20E+11 | -2.28E-03 | -5.10E+06 | -4.87E-01 |
| -5.11E+06 | -4.97E-01 | -5.19E+11 | -2.29E-03 | -5.09E+06 | -4.90E-01 |
| -5.10E+06 | -4.99E-01 | -5.19E+11 | -2.30E-03 | -5.08E+06 | -4.92E-01 |
| -5.09E+06 | -5.01E-01 | -5.18E+11 | -2.31E-03 | -5.07E+06 | -4.94E-01 |
| -5.08E+06 | -5.03E-01 | -5.17E+11 | -2.32E-03 | -5.06E+06 | -4.96E-01 |
| -5.07E+06 | -5.06E-01 | -5.16E+11 | -2.33E-03 | -5.05E+06 | -4.98E-01 |
| -5.06E+06 | -5.08E-01 | -5.15E+11 | -2.34E-03 | -5.05E+06 | -5.00E-01 |
| -5.06E+06 | -5.10E-01 | -5.14E+11 | -2.35E-03 | -5.04E+06 | -5.02E-01 |
| -5.05E+06 | -5.12E-01 | -5.13E+11 | -2.36E-03 | -5.03E+06 | -5.04E-01 |
| -5.04E+06 | -5.14E-01 | -5.12E+11 | -2.37E-03 | -5.02E+06 | -5.07E-01 |
| -5.03E+06 | -5.16E-01 | -5.11E+11 | -2.38E-03 | -5.01E+06 | -5.09E-01 |
| -5.02E+06 | -5.18E-01 | -5.10E+11 | -2.39E-03 | -5.00E+06 | -5.11E-01 |
| -5.01E+06 | -5.21E-01 | -5.10E+11 | -2.40E-03 | -4.99E+06 | -5.13E-01 |
| -5.00E+06 | -5.23E-01 | -5.09E+11 | -2.41E-03 | -4.99E+06 | -5.15E-01 |
| -5.00E+06 | -5.25E-01 | -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.17E-01 |
| -4.99E+06 | -5.27E-01 | -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.18E-01 |
| -4.98E+06 | -5.29E-01 | -5.07E+11 | -2.43E-03 | -4.97E+06 | -5.20E-01 |
| -4.97E+06 | -5.31E-01 | -5.06E+11 | -2.44E-03 | -4.96E+06 | -5.22E-01 |
| -4.96E+06 | -5.33E-01 | -5.05E+11 | -2.45E-03 | -4.95E+06 | -5.24E-01 |
| -4.96E+06 | -5.36E-01 | -5.04E+11 | -2.46E-03 | -4.94E+06 | -5.26E-01 |
| -4.95E+06 | -5.37E-01 | -5.03E+11 | -2.47E-03 | -4.93E+06 | -5.28E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.94E+06 | -5.39E-01 | -5.02E+11 | -2.48E-03 | -4.92E+06 | -5.30E-01 |
| -4.93E+06 | -5.42E-01 | -5.02E+11 | -2.49E-03 | -4.92E+06 | -5.33E-01 |
| -4.93E+06 | -5.44E-01 | -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -4.92E+06 | -5.46E-01 | -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -4.91E+06 | -5.48E-01 | -5.00E+11 | -2.51E-03 | -4.90E+06 | -5.37E-01 |
| -4.90E+06 | -5.50E-01 | -4.99E+11 | -2.52E-03 | -4.89E+06 | -5.39E-01 |
| -4.89E+06 | -5.52E-01 | -4.98E+11 | -2.53E-03 | -4.88E+06 | -5.41E-01 |
| -4.89E+06 | -5.54E-01 | -4.97E+11 | -2.54E-03 | -4.87E+06 | -5.43E-01 |
| -4.88E+06 | -5.57E-01 | -4.96E+11 | -2.55E-03 | -4.86E+06 | -5.46E-01 |
| -4.88E+06 | -5.57E-01 | -4.95E+11 | -2.56E-03 | -4.85E+06 | -5.48E-01 |
| -4.87E+06 | -5.59E-01 | -4.95E+11 | -2.57E-03 | -4.85E+06 | -5.50E-01 |
| -4.86E+06 | -5.61E-01 | -4.94E+11 | -2.58E-03 | -4.84E+06 | -5.52E-01 |
| -4.85E+06 | -5.63E-01 | -4.93E+11 | -2.59E-03 | -4.83E+06 | -5.54E-01 |
| -4.85E+06 | -5.65E-01 | -4.92E+11 | -2.60E-03 | -4.82E+06 | -5.56E-01 |
| -4.84E+06 | -5.67E-01 | -4.91E+11 | -2.61E-03 | -4.81E+06 | -5.58E-01 |
| -4.83E+06 | -5.70E-01 | -4.91E+11 | -2.62E-03 | -4.81E+06 | -5.61E-01 |
| -4.82E+06 | -5.72E-01 | -4.90E+11 | -2.63E-03 | -4.80E+06 | -5.63E-01 |
| -4.81E+06 | -5.74E-01 | -4.89E+11 | -2.64E-03 | -4.79E+06 | -5.65E-01 |
| -4.80E+06 | -5.76E-01 | -4.88E+11 | -2.65E-03 | -4.78E+06 | -5.67E-01 |

| 10% tubrukan | | | | 10 ⁹ | |
|--------------|----------|----------|-----------|-----------------|----------|
| Momen | Rotasi | Momen | Curvature | Momen | Rotasi |
| 7.79E+11 | 2.70E-03 | 7.63E+06 | 5.78E-01 | 7.28E+11 | 2.71E-03 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.92E+11 | 2.49E-03 | 7.76E+06 | 5.34E-01 | 7.43E+11 | 2.50E-03 |
| 7.93E+11 | 2.48E-03 | 7.77E+06 | 5.32E-01 | 7.44E+11 | 2.49E-03 |
| 7.93E+11 | 2.47E-03 | 7.77E+06 | 5.30E-01 | 7.44E+11 | 2.48E-03 |
| 7.94E+11 | 2.46E-03 | 7.78E+06 | 5.28E-01 | 7.45E+11 | 2.47E-03 |
| 7.95E+11 | 2.45E-03 | 7.79E+06 | 5.25E-01 | 7.46E+11 | 2.46E-03 |
| 7.95E+11 | 2.45E-03 | 7.79E+06 | 5.25E-01 | 7.47E+11 | 2.45E-03 |
| 7.95E+11 | 2.44E-03 | 7.79E+06 | 5.23E-01 | 7.47E+11 | 2.44E-03 |
| 7.96E+11 | 2.43E-03 | 7.80E+06 | 5.21E-01 | 7.48E+11 | 2.43E-03 |
| 7.97E+11 | 2.42E-03 | 7.81E+06 | 5.19E-01 | 7.48E+11 | 2.43E-03 |
| 7.97E+11 | 2.41E-03 | 7.81E+06 | 5.17E-01 | 7.49E+11 | 2.42E-03 |
| 7.98E+11 | 2.40E-03 | 7.82E+06 | 5.15E-01 | 7.50E+11 | 2.41E-03 |
| 7.99E+11 | 2.39E-03 | 7.83E+06 | 5.13E-01 | 7.51E+11 | 2.40E-03 |
| 7.99E+11 | 2.38E-03 | 7.83E+06 | 5.10E-01 | 7.51E+11 | 2.39E-03 |
| 8.00E+11 | 2.37E-03 | 7.84E+06 | 5.08E-01 | 7.52E+11 | 2.38E-03 |
| 8.01E+11 | 2.36E-03 | 7.85E+06 | 5.06E-01 | 7.53E+11 | 2.37E-03 |
| 8.01E+11 | 2.35E-03 | 7.85E+06 | 5.04E-01 | 7.54E+11 | 2.36E-03 |
| 8.02E+11 | 2.34E-03 | 7.86E+06 | 5.02E-01 | 7.54E+11 | 2.35E-03 |
| 8.03E+11 | 2.33E-03 | 7.87E+06 | 5.00E-01 | 7.55E+11 | 2.34E-03 |
| 8.03E+11 | 2.32E-03 | 7.87E+06 | 4.98E-01 | 7.56E+11 | 2.33E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.04E+11 | 2.32E-03 | 7.88E+06 | 4.96E-01 | 7.57E+11 | 2.32E-03 |
| 8.05E+11 | 2.31E-03 | 7.88E+06 | 4.94E-01 | 7.58E+11 | 2.31E-03 |
| 8.05E+11 | 2.30E-03 | 7.89E+06 | 4.91E-01 | 7.58E+11 | 2.30E-03 |
| 8.06E+11 | 2.29E-03 | 7.90E+06 | 4.89E-01 | 7.59E+11 | 2.29E-03 |
| 8.06E+11 | 2.28E-03 | 7.90E+06 | 4.87E-01 | 7.60E+11 | 2.28E-03 |
| 8.07E+11 | 2.27E-03 | 7.91E+06 | 4.85E-01 | 7.61E+11 | 2.27E-03 |
| 8.08E+11 | 2.26E-03 | 7.92E+06 | 4.83E-01 | 7.62E+11 | 2.26E-03 |
| 8.09E+11 | 2.25E-03 | 7.92E+06 | 4.81E-01 | 7.62E+11 | 2.25E-03 |
| 8.09E+11 | 2.24E-03 | 7.93E+06 | 4.79E-01 | 7.63E+11 | 2.24E-03 |
| 8.10E+11 | 2.23E-03 | 7.94E+06 | 4.76E-01 | 7.64E+11 | 2.23E-03 |
| 8.11E+11 | 2.22E-03 | 7.94E+06 | 4.74E-01 | 7.65E+11 | 2.22E-03 |
| 8.12E+11 | 2.21E-03 | 7.95E+06 | 4.72E-01 | 7.65E+11 | 2.21E-03 |
| 8.12E+11 | 2.20E-03 | 7.96E+06 | 4.70E-01 | 7.66E+11 | 2.20E-03 |
| 8.13E+11 | 2.19E-03 | 7.97E+06 | 4.68E-01 | 7.67E+11 | 2.19E-03 |
| 8.14E+11 | 2.18E-03 | 7.98E+06 | 4.66E-01 | 7.68E+11 | 2.18E-03 |
| 8.15E+11 | 2.17E-03 | 7.98E+06 | 4.64E-01 | 7.68E+11 | 2.17E-03 |
| 8.15E+11 | 2.16E-03 | 7.99E+06 | 4.63E-01 | 7.69E+11 | 2.16E-03 |
| 8.16E+11 | 2.15E-03 | 7.99E+06 | 4.61E-01 | 7.70E+11 | 2.15E-03 |
| 8.16E+11 | 2.14E-03 | 8.00E+06 | 4.58E-01 | 7.71E+11 | 2.14E-03 |
| 8.17E+11 | 2.13E-03 | 8.00E+06 | 4.56E-01 | 7.71E+11 | 2.13E-03 |
| 8.18E+11 | 2.12E-03 | 8.01E+06 | 4.54E-01 | 7.72E+11 | 2.13E-03 |
| 8.18E+11 | 2.11E-03 | 8.02E+06 | 4.52E-01 | 7.72E+11 | 2.12E-03 |
| 8.19E+11 | 2.10E-03 | 8.03E+06 | 4.50E-01 | 7.73E+11 | 2.11E-03 |
| 8.20E+11 | 2.09E-03 | 8.03E+06 | 4.48E-01 | 7.74E+11 | 2.10E-03 |
| 8.20E+11 | 2.08E-03 | 8.04E+06 | 4.46E-01 | 7.75E+11 | 2.09E-03 |
| 8.21E+11 | 2.07E-03 | 8.05E+06 | 4.43E-01 | 7.76E+11 | 2.08E-03 |
| 8.22E+11 | 2.06E-03 | 8.05E+06 | 4.41E-01 | 7.77E+11 | 2.07E-03 |
| 8.23E+11 | 2.05E-03 | 8.06E+06 | 4.39E-01 | 7.77E+11 | 2.06E-03 |
| 8.23E+11 | 2.04E-03 | 8.07E+06 | 4.37E-01 | 7.78E+11 | 2.05E-03 |
| 8.24E+11 | 2.03E-03 | 8.07E+06 | 4.36E-01 | 7.79E+11 | 2.04E-03 |
| 8.25E+11 | 2.02E-03 | 8.08E+06 | 4.33E-01 | 7.80E+11 | 2.03E-03 |
| 8.25E+11 | 2.01E-03 | 8.09E+06 | 4.31E-01 | 7.81E+11 | 2.02E-03 |
| 8.26E+11 | 2.00E-03 | 8.09E+06 | 4.29E-01 | 7.82E+11 | 2.01E-03 |
| 8.27E+11 | 1.99E-03 | 8.10E+06 | 4.27E-01 | 7.82E+11 | 2.00E-03 |
| 8.28E+11 | 1.98E-03 | 8.11E+06 | 4.25E-01 | 7.83E+11 | 1.99E-03 |
| 8.28E+11 | 1.97E-03 | 8.12E+06 | 4.23E-01 | 7.84E+11 | 1.98E-03 |
| 8.29E+11 | 1.96E-03 | 8.13E+06 | 4.21E-01 | 7.85E+11 | 1.97E-03 |
| 8.30E+11 | 1.95E-03 | 8.13E+06 | 4.18E-01 | 7.86E+11 | 1.96E-03 |
| 8.31E+11 | 1.94E-03 | 8.14E+06 | 4.16E-01 | 7.86E+11 | 1.95E-03 |
| 8.32E+11 | 1.93E-03 | 8.15E+06 | 4.14E-01 | 7.87E+11 | 1.94E-03 |
| 8.32E+11 | 1.92E-03 | 8.16E+06 | 4.12E-01 | 7.88E+11 | 1.93E-03 |
| 8.33E+11 | 1.91E-03 | 8.17E+06 | 4.10E-01 | 7.89E+11 | 1.92E-03 |
| 8.34E+11 | 1.91E-03 | 8.17E+06 | 4.08E-01 | 7.90E+11 | 1.91E-03 |
| 8.35E+11 | 1.90E-03 | 8.18E+06 | 4.06E-01 | 7.91E+11 | 1.90E-03 |
| 8.35E+11 | 1.89E-03 | 8.18E+06 | 4.04E-01 | 7.91E+11 | 1.89E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.36E+11 | 1.88E-03 | 8.19E+06 | 4.02E-01 | 7.92E+11 | 1.88E-03 |
| 8.37E+11 | 1.87E-03 | 8.20E+06 | 4.00E-01 | 7.93E+11 | 1.87E-03 |
| 8.38E+11 | 1.86E-03 | 8.21E+06 | 3.97E-01 | 7.94E+11 | 1.86E-03 |
| 8.38E+11 | 1.85E-03 | 8.22E+06 | 3.95E-01 | 7.95E+11 | 1.85E-03 |
| 8.39E+11 | 1.84E-03 | 8.22E+06 | 3.93E-01 | 7.96E+11 | 1.84E-03 |
| 8.40E+11 | 1.83E-03 | 8.23E+06 | 3.91E-01 | 7.97E+11 | 1.83E-03 |
| 8.41E+11 | 1.82E-03 | 8.24E+06 | 3.89E-01 | 7.98E+11 | 1.82E-03 |
| 8.42E+11 | 1.81E-03 | 8.25E+06 | 3.87E-01 | 7.99E+11 | 1.81E-03 |
| 8.42E+11 | 1.80E-03 | 8.25E+06 | 3.86E-01 | 8.00E+11 | 1.80E-03 |
| 8.43E+11 | 1.79E-03 | 8.26E+06 | 3.84E-01 | 8.00E+11 | 1.80E-03 |
| 8.44E+11 | 1.78E-03 | 8.27E+06 | 3.81E-01 | 8.01E+11 | 1.79E-03 |
| 8.44E+11 | 1.77E-03 | 8.28E+06 | 3.79E-01 | 8.02E+11 | 1.78E-03 |
| 8.45E+11 | 1.76E-03 | 8.28E+06 | 3.77E-01 | 8.02E+11 | 1.77E-03 |
| 8.46E+11 | 1.75E-03 | 8.29E+06 | 3.75E-01 | 8.03E+11 | 1.76E-03 |
| 8.47E+11 | 1.74E-03 | 8.30E+06 | 3.73E-01 | 8.04E+11 | 1.75E-03 |
| 8.48E+11 | 1.73E-03 | 8.31E+06 | 3.71E-01 | 8.05E+11 | 1.74E-03 |
| 8.49E+11 | 1.72E-03 | 8.32E+06 | 3.69E-01 | 8.06E+11 | 1.73E-03 |
| 8.50E+11 | 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.07E+11 | 1.72E-03 |
| 8.50E+11 | 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.08E+11 | 1.71E-03 |
| 8.50E+11 | 1.70E-03 | 8.33E+06 | 3.64E-01 | 8.09E+11 | 1.70E-03 |
| 8.51E+11 | 1.69E-03 | 8.34E+06 | 3.62E-01 | 8.10E+11 | 1.69E-03 |
| 8.52E+11 | 1.68E-03 | 8.35E+06 | 3.60E-01 | 8.10E+11 | 1.69E-03 |
| 8.53E+11 | 1.67E-03 | 8.36E+06 | 3.58E-01 | 8.11E+11 | 1.68E-03 |
| 8.54E+11 | 1.66E-03 | 8.37E+06 | 3.55E-01 | 8.12E+11 | 1.67E-03 |
| 8.55E+11 | 1.65E-03 | 8.38E+06 | 3.53E-01 | 8.13E+11 | 1.66E-03 |
| 8.55E+11 | 1.64E-03 | 8.38E+06 | 3.51E-01 | 8.14E+11 | 1.65E-03 |
| 8.56E+11 | 1.63E-03 | 8.39E+06 | 3.49E-01 | 8.15E+11 | 1.64E-03 |
| 8.57E+11 | 1.62E-03 | 8.40E+06 | 3.47E-01 | 8.16E+11 | 1.63E-03 |
| 8.57E+11 | 1.62E-03 | 8.40E+06 | 3.46E-01 | 8.17E+11 | 1.62E-03 |
| 8.58E+11 | 1.61E-03 | 8.41E+06 | 3.44E-01 | 8.17E+11 | 1.61E-03 |
| 8.59E+11 | 1.60E-03 | 8.42E+06 | 3.42E-01 | 8.18E+11 | 1.60E-03 |
| 8.60E+11 | 1.59E-03 | 8.43E+06 | 3.40E-01 | 8.19E+11 | 1.59E-03 |
| 8.61E+11 | 1.58E-03 | 8.44E+06 | 3.38E-01 | 8.20E+11 | 1.58E-03 |
| 8.62E+11 | 1.57E-03 | 8.45E+06 | 3.36E-01 | 8.21E+11 | 1.57E-03 |
| 8.63E+11 | 1.56E-03 | 8.46E+06 | 3.34E-01 | 8.22E+11 | 1.56E-03 |
| 8.64E+11 | 1.55E-03 | 8.46E+06 | 3.31E-01 | 8.23E+11 | 1.55E-03 |
| 8.65E+11 | 1.54E-03 | 8.47E+06 | 3.29E-01 | 8.24E+11 | 1.54E-03 |
| 8.65E+11 | 1.53E-03 | 8.48E+06 | 3.27E-01 | 8.25E+11 | 1.53E-03 |
| 8.66E+11 | 1.52E-03 | 8.49E+06 | 3.25E-01 | 8.26E+11 | 1.52E-03 |
| 8.67E+11 | 1.51E-03 | 8.50E+06 | 3.23E-01 | 8.27E+11 | 1.51E-03 |
| 8.68E+11 | 1.50E-03 | 8.51E+06 | 3.21E-01 | 8.28E+11 | 1.50E-03 |
| 8.69E+11 | 1.49E-03 | 8.52E+06 | 3.19E-01 | 8.29E+11 | 1.49E-03 |
| 8.70E+11 | 1.48E-03 | 8.53E+06 | 3.17E-01 | 8.30E+11 | 1.48E-03 |
| 8.71E+11 | 1.47E-03 | 8.53E+06 | 3.15E-01 | 8.31E+11 | 1.47E-03 |
| 8.72E+11 | 1.46E-03 | 8.54E+06 | 3.13E-01 | 8.32E+11 | 1.46E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.73E+11 | 1.45E-03 | 8.55E+06 | 3.10E-01 | 8.33E+11 | 1.45E-03 |
| 8.74E+11 | 1.44E-03 | 8.56E+06 | 3.08E-01 | 8.33E+11 | 1.45E-03 |
| 8.75E+11 | 1.43E-03 | 8.57E+06 | 3.06E-01 | 8.34E+11 | 1.44E-03 |
| 8.76E+11 | 1.42E-03 | 8.58E+06 | 3.04E-01 | 8.35E+11 | 1.43E-03 |
| 8.77E+11 | 1.41E-03 | 8.59E+06 | 3.02E-01 | 8.36E+11 | 1.42E-03 |
| 8.78E+11 | 1.40E-03 | 8.60E+06 | 3.00E-01 | 8.37E+11 | 1.41E-03 |
| 8.79E+11 | 1.39E-03 | 8.61E+06 | 2.98E-01 | 8.38E+11 | 1.40E-03 |
| 8.79E+11 | 1.39E-03 | 8.62E+06 | 2.97E-01 | 8.39E+11 | 1.39E-03 |
| 8.80E+11 | 1.38E-03 | 8.62E+06 | 2.95E-01 | 8.40E+11 | 1.38E-03 |
| 8.81E+11 | 1.37E-03 | 8.63E+06 | 2.93E-01 | 8.41E+11 | 1.37E-03 |
| 8.82E+11 | 1.36E-03 | 8.64E+06 | 2.90E-01 | 8.42E+11 | 1.36E-03 |
| 8.83E+11 | 1.35E-03 | 8.66E+06 | 2.88E-01 | 8.43E+11 | 1.35E-03 |
| 8.84E+11 | 1.34E-03 | 8.67E+06 | 2.86E-01 | 8.44E+11 | 1.34E-03 |
| 8.85E+11 | 1.33E-03 | 8.68E+06 | 2.84E-01 | 8.45E+11 | 1.33E-03 |
| 8.86E+11 | 1.32E-03 | 8.69E+06 | 2.82E-01 | 8.46E+11 | 1.32E-03 |
| 8.88E+11 | 1.31E-03 | 8.70E+06 | 2.80E-01 | 8.47E+11 | 1.31E-03 |
| 8.89E+11 | 1.30E-03 | 8.71E+06 | 2.78E-01 | 8.48E+11 | 1.31E-03 |
| 8.90E+11 | 1.29E-03 | 8.72E+06 | 2.75E-01 | 8.49E+11 | 1.30E-03 |
| 8.91E+11 | 1.28E-03 | 8.73E+06 | 2.73E-01 | 8.50E+11 | 1.29E-03 |
| 8.92E+11 | 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.51E+11 | 1.28E-03 |
| 8.92E+11 | 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.52E+11 | 1.27E-03 |
| 8.93E+11 | 1.26E-03 | 8.75E+06 | 2.69E-01 | 8.53E+11 | 1.26E-03 |
| 8.94E+11 | 1.25E-03 | 8.76E+06 | 2.67E-01 | 8.54E+11 | 1.25E-03 |
| 8.96E+11 | 1.24E-03 | 8.78E+06 | 2.65E-01 | 8.56E+11 | 1.24E-03 |
| 8.97E+11 | 1.23E-03 | 8.79E+06 | 2.63E-01 | 8.57E+11 | 1.23E-03 |
| 8.98E+11 | 1.22E-03 | 8.80E+06 | 2.60E-01 | 8.58E+11 | 1.22E-03 |
| 8.99E+11 | 1.21E-03 | 8.81E+06 | 2.59E-01 | 8.59E+11 | 1.21E-03 |
| 9.00E+11 | 1.20E-03 | 8.82E+06 | 2.57E-01 | 8.60E+11 | 1.20E-03 |
| 9.01E+11 | 1.19E-03 | 8.83E+06 | 2.55E-01 | 8.60E+11 | 1.20E-03 |
| 9.02E+11 | 1.18E-03 | 8.84E+06 | 2.53E-01 | 8.61E+11 | 1.19E-03 |
| 9.04E+11 | 1.17E-03 | 8.85E+06 | 2.51E-01 | 8.62E+11 | 1.18E-03 |
| 9.05E+11 | 1.16E-03 | 8.87E+06 | 2.49E-01 | 8.64E+11 | 1.17E-03 |
| 9.06E+11 | 1.15E-03 | 8.88E+06 | 2.47E-01 | 8.65E+11 | 1.16E-03 |
| 9.07E+11 | 1.14E-03 | 8.89E+06 | 2.45E-01 | 8.66E+11 | 1.15E-03 |
| 9.08E+11 | 1.13E-03 | 8.90E+06 | 2.43E-01 | 8.67E+11 | 1.14E-03 |
| 9.09E+11 | 1.12E-03 | 8.91E+06 | 2.40E-01 | 8.69E+11 | 1.13E-03 |
| 9.11E+11 | 1.11E-03 | 8.93E+06 | 2.38E-01 | 8.70E+11 | 1.12E-03 |
| 9.11E+11 | 1.11E-03 | 8.93E+06 | 2.37E-01 | 8.71E+11 | 1.11E-03 |
| 9.13E+11 | 1.10E-03 | 8.94E+06 | 2.35E-01 | 8.72E+11 | 1.10E-03 |
| 9.14E+11 | 1.09E-03 | 8.96E+06 | 2.33E-01 | 8.73E+11 | 1.09E-03 |
| 9.16E+11 | 1.08E-03 | 8.97E+06 | 2.31E-01 | 8.74E+11 | 1.08E-03 |
| 9.17E+11 | 1.07E-03 | 8.99E+06 | 2.29E-01 | 8.76E+11 | 1.07E-03 |
| 9.17E+11 | 1.07E-03 | 8.99E+06 | 2.28E-01 | 8.77E+11 | 1.06E-03 |
| 9.19E+11 | 1.06E-03 | 9.00E+06 | 2.26E-01 | 8.79E+11 | 1.05E-03 |
| 9.20E+11 | 1.05E-03 | 9.02E+06 | 2.24E-01 | 8.80E+11 | 1.05E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.21E+11 | 1.04E-03 | 9.03E+06 | 2.22E-01 | 8.81E+11 | 1.04E-03 |
| 9.23E+11 | 1.03E-03 | 9.04E+06 | 2.20E-01 | 8.83E+11 | 1.03E-03 |
| 9.24E+11 | 1.02E-03 | 9.05E+06 | 2.18E-01 | 8.84E+11 | 1.02E-03 |
| 9.25E+11 | 1.01E-03 | 9.07E+06 | 2.16E-01 | 8.85E+11 | 1.01E-03 |
| 9.27E+11 | 9.97E-04 | 9.08E+06 | 2.14E-01 | 8.86E+11 | 1.00E-03 |
| 9.28E+11 | 9.87E-04 | 9.10E+06 | 2.11E-01 | 8.87E+11 | 9.92E-04 |
| 9.29E+11 | 9.82E-04 | 9.10E+06 | 2.10E-01 | 8.89E+11 | 9.82E-04 |
| 9.30E+11 | 9.72E-04 | 9.12E+06 | 2.08E-01 | 8.91E+11 | 9.72E-04 |
| 9.32E+11 | 9.62E-04 | 9.13E+06 | 2.06E-01 | 8.92E+11 | 9.62E-04 |
| 9.33E+11 | 9.56E-04 | 9.14E+06 | 2.05E-01 | 8.94E+11 | 9.52E-04 |
| 9.34E+11 | 9.46E-04 | 9.16E+06 | 2.03E-01 | 8.96E+11 | 9.42E-04 |
| 9.36E+11 | 9.39E-04 | 9.17E+06 | 2.01E-01 | 8.96E+11 | 9.40E-04 |
| 9.38E+11 | 9.29E-04 | 9.19E+06 | 1.99E-01 | 8.97E+11 | 9.30E-04 |
| 9.40E+11 | 9.19E-04 | 9.21E+06 | 1.97E-01 | 8.98E+11 | 9.20E-04 |
| 9.42E+11 | 9.09E-04 | 9.23E+06 | 1.95E-01 | 9.00E+11 | 9.10E-04 |
| 9.46E+11 | 8.99E-04 | 9.27E+06 | 1.93E-01 | 9.02E+11 | 9.00E-04 |
| 9.47E+11 | 8.95E-04 | 9.28E+06 | 1.92E-01 | 9.03E+11 | 8.96E-04 |
| 9.51E+11 | 8.85E-04 | 9.32E+06 | 1.89E-01 | 9.04E+11 | 8.86E-04 |
| 9.54E+11 | 8.78E-04 | 9.35E+06 | 1.88E-01 | 9.06E+11 | 8.76E-04 |
| 9.56E+11 | 8.74E-04 | 9.37E+06 | 1.87E-01 | 9.07E+11 | 8.71E-04 |
| 9.70E+11 | 8.64E-04 | 9.50E+06 | 1.85E-01 | 9.08E+11 | 8.61E-04 |
| 9.80E+11 | 8.55E-04 | 9.60E+06 | 1.83E-01 | 9.10E+11 | 8.51E-04 |
| 9.84E+11 | 8.51E-04 | 9.65E+06 | 1.82E-01 | 9.11E+11 | 8.44E-04 |
| 9.86E+11 | 8.41E-04 | 9.66E+06 | 1.80E-01 | 9.12E+11 | 8.37E-04 |
| 9.86E+11 | 8.40E-04 | 9.66E+06 | 1.80E-01 | 9.13E+11 | 8.27E-04 |
| 9.85E+11 | 8.30E-04 | 9.65E+06 | 1.78E-01 | 9.15E+11 | 8.17E-04 |
| 9.84E+11 | 8.20E-04 | 9.64E+06 | 1.75E-01 | 9.15E+11 | 8.16E-04 |
| 9.83E+11 | 8.10E-04 | 9.63E+06 | 1.73E-01 | 9.17E+11 | 8.06E-04 |
| 9.81E+11 | 8.00E-04 | 9.62E+06 | 1.71E-01 | 9.19E+11 | 7.96E-04 |
| 9.80E+11 | 7.91E-04 | 9.61E+06 | 1.69E-01 | 9.20E+11 | 7.94E-04 |
| 9.79E+11 | 7.81E-04 | 9.59E+06 | 1.67E-01 | 9.22E+11 | 7.84E-04 |
| 9.77E+11 | 7.72E-04 | 9.58E+06 | 1.65E-01 | 9.23E+11 | 7.79E-04 |
| 9.75E+11 | 7.62E-04 | 9.56E+06 | 1.63E-01 | 9.26E+11 | 7.69E-04 |
| 9.73E+11 | 7.56E-04 | 9.54E+06 | 1.62E-01 | 9.28E+11 | 7.62E-04 |
| 9.73E+11 | 7.55E-04 | 9.54E+06 | 1.62E-01 | 9.33E+11 | 7.52E-04 |
| 9.69E+11 | 7.45E-04 | 9.50E+06 | 1.60E-01 | 9.37E+11 | 7.46E-04 |
| 9.65E+11 | 7.35E-04 | 9.45E+06 | 1.57E-01 | 9.40E+11 | 7.41E-04 |
| 9.63E+11 | 7.32E-04 | 9.44E+06 | 1.57E-01 | 9.51E+11 | 7.31E-04 |
| 9.59E+11 | 7.22E-04 | 9.40E+06 | 1.55E-01 | 9.57E+11 | 7.26E-04 |
| 9.55E+11 | 7.13E-04 | 9.35E+06 | 1.53E-01 | 9.58E+11 | 7.20E-04 |
| 9.51E+11 | 7.06E-04 | 9.32E+06 | 1.51E-01 | 9.59E+11 | 7.19E-04 |
| 9.46E+11 | 6.96E-04 | 9.27E+06 | 1.49E-01 | 9.58E+11 | 7.09E-04 |
| 9.41E+11 | 6.86E-04 | 9.22E+06 | 1.47E-01 | 9.55E+11 | 6.99E-04 |
| 9.38E+11 | 6.80E-04 | 9.19E+06 | 1.46E-01 | 9.51E+11 | 6.89E-04 |
| 9.35E+11 | 6.74E-04 | 9.16E+06 | 1.44E-01 | 9.51E+11 | 6.88E-04 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.32E+11 | 6.68E-04 | 9.13E+06 | 1.43E-01 | 9.47E+11 | 6.78E-04 |
| 9.27E+11 | 6.59E-04 | 9.08E+06 | 1.41E-01 | 9.43E+11 | 6.69E-04 |
| 9.22E+11 | 6.51E-04 | 9.04E+06 | 1.39E-01 | 9.40E+11 | 6.63E-04 |
| 9.19E+11 | 6.46E-04 | 9.01E+06 | 1.38E-01 | 9.36E+11 | 6.57E-04 |
| 9.15E+11 | 6.40E-04 | 8.97E+06 | 1.37E-01 | 9.30E+11 | 6.51E-04 |
| 9.11E+11 | 6.35E-04 | 8.92E+06 | 1.36E-01 | 9.20E+11 | 6.43E-04 |
| 9.02E+11 | 6.26E-04 | 8.84E+06 | 1.34E-01 | 9.16E+11 | 6.40E-04 |
| 8.94E+11 | 6.19E-04 | 8.76E+06 | 1.33E-01 | 9.02E+11 | 6.30E-04 |
| 8.86E+11 | 6.12E-04 | 8.68E+06 | 1.31E-01 | 8.88E+11 | 6.20E-04 |
| 8.77E+11 | 6.06E-04 | 8.60E+06 | 1.30E-01 | 8.74E+11 | 6.10E-04 |
| 8.69E+11 | 6.00E-04 | 8.52E+06 | 1.28E-01 | 8.59E+11 | 6.00E-04 |
| 8.55E+11 | 5.90E-04 | 8.37E+06 | 1.26E-01 | 8.45E+11 | 5.90E-04 |
| 8.40E+11 | 5.80E-04 | 8.23E+06 | 1.24E-01 | 8.31E+11 | 5.80E-04 |
| 8.26E+11 | 5.70E-04 | 8.09E+06 | 1.22E-01 | 8.16E+11 | 5.70E-04 |
| 8.11E+11 | 5.60E-04 | 7.95E+06 | 1.20E-01 | 8.02E+11 | 5.60E-04 |
| 7.97E+11 | 5.50E-04 | 7.81E+06 | 1.18E-01 | 7.88E+11 | 5.50E-04 |
| 7.82E+11 | 5.40E-04 | 7.66E+06 | 1.16E-01 | 7.73E+11 | 5.40E-04 |
| 7.68E+11 | 5.30E-04 | 7.52E+06 | 1.13E-01 | 7.59E+11 | 5.30E-04 |
| 7.53E+11 | 5.20E-04 | 7.38E+06 | 1.11E-01 | 7.45E+11 | 5.20E-04 |
| 7.39E+11 | 5.10E-04 | 7.24E+06 | 1.09E-01 | 7.30E+11 | 5.10E-04 |
| 7.24E+11 | 5.00E-04 | 7.10E+06 | 1.07E-01 | 7.16E+11 | 5.00E-04 |
| 7.10E+11 | 4.90E-04 | 6.96E+06 | 1.05E-01 | 7.02E+11 | 4.90E-04 |
| 6.95E+11 | 4.80E-04 | 6.81E+06 | 1.03E-01 | 6.88E+11 | 4.80E-04 |
| 6.81E+11 | 4.70E-04 | 6.67E+06 | 1.01E-01 | 6.73E+11 | 4.70E-04 |
| 6.66E+11 | 4.60E-04 | 6.53E+06 | 9.85E-02 | 6.59E+11 | 4.60E-04 |
| 6.52E+11 | 4.50E-04 | 6.39E+06 | 9.64E-02 | 6.45E+11 | 4.50E-04 |
| 6.37E+11 | 4.40E-04 | 6.25E+06 | 9.42E-02 | 6.30E+11 | 4.40E-04 |
| 6.23E+11 | 4.30E-04 | 6.10E+06 | 9.21E-02 | 6.16E+11 | 4.30E-04 |
| 6.08E+11 | 4.20E-04 | 5.96E+06 | 8.99E-02 | 6.02E+11 | 4.20E-04 |
| 5.94E+11 | 4.10E-04 | 5.82E+06 | 8.78E-02 | 5.87E+11 | 4.10E-04 |
| 5.79E+11 | 4.00E-04 | 5.68E+06 | 8.57E-02 | 5.73E+11 | 4.00E-04 |
| 5.65E+11 | 3.90E-04 | 5.54E+06 | 8.35E-02 | 5.59E+11 | 3.90E-04 |
| 5.50E+11 | 3.80E-04 | 5.39E+06 | 8.14E-02 | 5.44E+11 | 3.80E-04 |
| 5.36E+11 | 3.70E-04 | 5.25E+06 | 7.92E-02 | 5.30E+11 | 3.70E-04 |
| 5.21E+11 | 3.60E-04 | 5.11E+06 | 7.71E-02 | 5.16E+11 | 3.60E-04 |
| 5.07E+11 | 3.50E-04 | 4.97E+06 | 7.49E-02 | 5.01E+11 | 3.50E-04 |
| 4.93E+11 | 3.40E-04 | 4.83E+06 | 7.28E-02 | 4.87E+11 | 3.40E-04 |
| 4.78E+11 | 3.30E-04 | 4.68E+06 | 7.07E-02 | 4.73E+11 | 3.30E-04 |
| 4.64E+11 | 3.20E-04 | 4.54E+06 | 6.85E-02 | 4.58E+11 | 3.20E-04 |
| 4.49E+11 | 3.10E-04 | 4.40E+06 | 6.64E-02 | 4.44E+11 | 3.10E-04 |
| 4.35E+11 | 3.00E-04 | 4.26E+06 | 6.42E-02 | 4.30E+11 | 3.00E-04 |
| 4.20E+11 | 2.90E-04 | 4.12E+06 | 6.21E-02 | 4.15E+11 | 2.90E-04 |
| 4.06E+11 | 2.80E-04 | 3.97E+06 | 6.00E-02 | 4.01E+11 | 2.80E-04 |
| 3.91E+11 | 2.70E-04 | 3.83E+06 | 5.78E-02 | 3.87E+11 | 2.70E-04 |
| 3.77E+11 | 2.60E-04 | 3.69E+06 | 5.57E-02 | 3.72E+11 | 2.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.62E+11 | 2.50E-04 | 3.55E+06 | 5.35E-02 | 3.58E+11 | 2.50E-04 |
| 3.48E+11 | 2.40E-04 | 3.41E+06 | 5.14E-02 | 3.44E+11 | 2.40E-04 |
| 3.33E+11 | 2.30E-04 | 3.26E+06 | 4.93E-02 | 3.29E+11 | 2.30E-04 |
| 3.19E+11 | 2.20E-04 | 3.12E+06 | 4.71E-02 | 3.15E+11 | 2.20E-04 |
| 3.04E+11 | 2.10E-04 | 2.98E+06 | 4.50E-02 | 3.01E+11 | 2.10E-04 |
| 2.90E+11 | 2.00E-04 | 2.84E+06 | 4.28E-02 | 2.87E+11 | 2.00E-04 |
| 2.75E+11 | 1.90E-04 | 2.70E+06 | 4.07E-02 | 2.72E+11 | 1.90E-04 |
| 2.61E+11 | 1.80E-04 | 2.55E+06 | 3.85E-02 | 2.58E+11 | 1.80E-04 |
| 2.46E+11 | 1.70E-04 | 2.41E+06 | 3.64E-02 | 2.44E+11 | 1.70E-04 |
| 2.32E+11 | 1.60E-04 | 2.27E+06 | 3.43E-02 | 2.29E+11 | 1.60E-04 |
| 2.17E+11 | 1.50E-04 | 2.13E+06 | 3.21E-02 | 2.15E+11 | 1.50E-04 |
| 2.03E+11 | 1.40E-04 | 1.99E+06 | 3.00E-02 | 2.01E+11 | 1.40E-04 |
| 1.88E+11 | 1.30E-04 | 1.85E+06 | 2.78E-02 | 1.86E+11 | 1.30E-04 |
| 1.74E+11 | 1.20E-04 | 1.70E+06 | 2.57E-02 | 1.72E+11 | 1.20E-04 |
| 1.59E+11 | 1.10E-04 | 1.56E+06 | 2.36E-02 | 1.58E+11 | 1.10E-04 |
| 1.45E+11 | 1.00E-04 | 1.42E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 |
| 1.30E+11 | 9.00E-05 | 1.28E+06 | 1.93E-02 | 1.29E+11 | 9.00E-05 |
| 1.16E+11 | 8.00E-05 | 1.14E+06 | 1.71E-02 | 1.15E+11 | 8.00E-05 |
| 1.01E+11 | 7.00E-05 | 9.94E+05 | 1.50E-02 | 1.00E+11 | 7.00E-05 |
| 8.69E+10 | 6.00E-05 | 8.52E+05 | 1.28E-02 | 8.59E+10 | 6.00E-05 |
| 7.24E+10 | 5.00E-05 | 7.10E+05 | 1.07E-02 | 7.16E+10 | 5.00E-05 |
| 5.79E+10 | 4.00E-05 | 5.68E+05 | 8.57E-03 | 5.73E+10 | 4.00E-05 |
| 4.35E+10 | 3.00E-05 | 4.26E+05 | 6.42E-03 | 4.30E+10 | 3.00E-05 |
| 2.90E+10 | 2.00E-05 | 2.84E+05 | 4.28E-03 | 2.87E+10 | 2.00E-05 |
| 1.45E+10 | 1.00E-05 | 1.42E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 |
| 1.30E+10 | 9.00E-06 | 1.28E+05 | 1.93E-03 | 1.29E+10 | 9.00E-06 |
| 1.16E+10 | 8.00E-06 | 1.14E+05 | 1.71E-03 | 1.15E+10 | 8.00E-06 |
| 1.01E+10 | 7.00E-06 | 9.94E+04 | 1.50E-03 | 1.00E+10 | 7.00E-06 |
| 8.69E+09 | 6.00E-06 | 8.52E+04 | 1.28E-03 | 8.60E+09 | 6.00E-06 |
| 7.24E+09 | 5.00E-06 | 7.10E+04 | 1.07E-03 | 7.16E+09 | 5.00E-06 |
| 5.79E+09 | 4.00E-06 | 5.68E+04 | 8.57E-04 | 5.73E+09 | 4.00E-06 |
| 4.35E+09 | 3.00E-06 | 4.26E+04 | 6.42E-04 | 4.30E+09 | 3.00E-06 |
| 2.90E+09 | 2.00E-06 | 2.84E+04 | 4.28E-04 | 2.87E+09 | 2.00E-06 |
| 1.45E+09 | 1.00E-06 | 1.42E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.45E+09 | -1.00E-06 | -1.42E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 |
| -2.90E+09 | -2.00E-06 | -2.84E+04 | -4.28E-04 | -2.87E+09 | -2.00E-06 |
| -4.35E+09 | -3.00E-06 | -4.26E+04 | -6.42E-04 | -4.30E+09 | -3.00E-06 |
| -5.79E+09 | -4.00E-06 | -5.68E+04 | -8.57E-04 | -5.73E+09 | -4.00E-06 |
| -7.24E+09 | -5.00E-06 | -7.10E+04 | -1.07E-03 | -7.16E+09 | -5.00E-06 |
| -8.69E+09 | -6.00E-06 | -8.52E+04 | -1.28E-03 | -8.59E+09 | -6.00E-06 |
| -1.01E+10 | -7.00E-06 | -9.94E+04 | -1.50E-03 | -1.00E+10 | -7.00E-06 |
| -1.16E+10 | -8.00E-06 | -1.14E+05 | -1.71E-03 | -1.15E+10 | -8.00E-06 |
| -1.30E+10 | -9.00E-06 | -1.28E+05 | -1.93E-03 | -1.29E+10 | -9.00E-06 |
| -1.45E+10 | -1.00E-05 | -1.42E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.90E+10 | -2.00E-05 | -2.84E+05 | -4.28E-03 | -2.87E+10 | -2.00E-05 |
| -4.35E+10 | -3.00E-05 | -4.26E+05 | -6.42E-03 | -4.30E+10 | -3.00E-05 |
| -5.79E+10 | -4.00E-05 | -5.68E+05 | -8.57E-03 | -5.73E+10 | -4.00E-05 |
| -7.24E+10 | -5.00E-05 | -7.10E+05 | -1.07E-02 | -7.16E+10 | -5.00E-05 |
| -8.69E+10 | -6.00E-05 | -8.52E+05 | -1.28E-02 | -8.59E+10 | -6.00E-05 |
| -1.01E+11 | -7.00E-05 | -9.94E+05 | -1.50E-02 | -1.00E+11 | -7.00E-05 |
| -1.16E+11 | -8.00E-05 | -1.14E+06 | -1.71E-02 | -1.15E+11 | -8.00E-05 |
| -1.30E+11 | -9.00E-05 | -1.28E+06 | -1.93E-02 | -1.29E+11 | -9.00E-05 |
| -1.45E+11 | -1.00E-04 | -1.42E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 |
| -1.59E+11 | -1.10E-04 | -1.56E+06 | -2.36E-02 | -1.58E+11 | -1.10E-04 |
| -1.74E+11 | -1.20E-04 | -1.70E+06 | -2.57E-02 | -1.72E+11 | -1.20E-04 |
| -1.88E+11 | -1.30E-04 | -1.85E+06 | -2.78E-02 | -1.86E+11 | -1.30E-04 |
| -2.03E+11 | -1.40E-04 | -1.99E+06 | -3.00E-02 | -2.01E+11 | -1.40E-04 |
| -2.17E+11 | -1.50E-04 | -2.13E+06 | -3.21E-02 | -2.15E+11 | -1.50E-04 |
| -2.32E+11 | -1.60E-04 | -2.27E+06 | -3.43E-02 | -2.29E+11 | -1.60E-04 |
| -2.46E+11 | -1.70E-04 | -2.41E+06 | -3.64E-02 | -2.44E+11 | -1.70E-04 |
| -2.61E+11 | -1.80E-04 | -2.55E+06 | -3.85E-02 | -2.58E+11 | -1.80E-04 |
| -2.75E+11 | -1.90E-04 | -2.70E+06 | -4.07E-02 | -2.72E+11 | -1.90E-04 |
| -2.90E+11 | -2.00E-04 | -2.84E+06 | -4.28E-02 | -2.86E+11 | -2.00E-04 |
| -3.04E+11 | -2.10E-04 | -2.98E+06 | -4.50E-02 | -3.01E+11 | -2.10E-04 |
| -3.19E+11 | -2.20E-04 | -3.12E+06 | -4.71E-02 | -3.15E+11 | -2.20E-04 |
| -3.33E+11 | -2.30E-04 | -3.26E+06 | -4.93E-02 | -3.29E+11 | -2.30E-04 |
| -3.48E+11 | -2.40E-04 | -3.41E+06 | -5.14E-02 | -3.44E+11 | -2.40E-04 |
| -3.62E+11 | -2.50E-04 | -3.55E+06 | -5.35E-02 | -3.58E+11 | -2.50E-04 |
| -3.77E+11 | -2.60E-04 | -3.69E+06 | -5.57E-02 | -3.72E+11 | -2.60E-04 |
| -3.91E+11 | -2.70E-04 | -3.83E+06 | -5.78E-02 | -3.87E+11 | -2.70E-04 |
| -4.06E+11 | -2.80E-04 | -3.97E+06 | -6.00E-02 | -4.01E+11 | -2.80E-04 |
| -4.20E+11 | -2.90E-04 | -4.12E+06 | -6.21E-02 | -4.15E+11 | -2.90E-04 |
| -4.34E+11 | -3.00E-04 | -4.26E+06 | -6.42E-02 | -4.30E+11 | -3.00E-04 |
| -4.49E+11 | -3.10E-04 | -4.40E+06 | -6.64E-02 | -4.44E+11 | -3.10E-04 |
| -4.63E+11 | -3.20E-04 | -4.54E+06 | -6.85E-02 | -4.58E+11 | -3.20E-04 |
| -4.78E+11 | -3.30E-04 | -4.68E+06 | -7.07E-02 | -4.73E+11 | -3.30E-04 |
| -4.92E+11 | -3.40E-04 | -4.82E+06 | -7.28E-02 | -4.87E+11 | -3.40E-04 |
| -5.07E+11 | -3.50E-04 | -4.97E+06 | -7.49E-02 | -5.01E+11 | -3.50E-04 |
| -5.21E+11 | -3.60E-04 | -5.11E+06 | -7.71E-02 | -5.16E+11 | -3.60E-04 |
| -5.36E+11 | -3.70E-04 | -5.25E+06 | -7.92E-02 | -5.30E+11 | -3.70E-04 |
| -5.50E+11 | -3.80E-04 | -5.39E+06 | -8.14E-02 | -5.44E+11 | -3.80E-04 |
| -5.65E+11 | -3.90E-04 | -5.53E+06 | -8.35E-02 | -5.59E+11 | -3.90E-04 |
| -5.79E+11 | -4.00E-04 | -5.68E+06 | -8.57E-02 | -5.73E+11 | -4.00E-04 |
| -5.94E+11 | -4.10E-04 | -5.82E+06 | -8.78E-02 | -5.87E+11 | -4.10E-04 |
| -6.08E+11 | -4.20E-04 | -5.96E+06 | -8.99E-02 | -6.01E+11 | -4.20E-04 |
| -6.23E+11 | -4.30E-04 | -6.10E+06 | -9.21E-02 | -6.16E+11 | -4.30E-04 |
| -6.37E+11 | -4.40E-04 | -6.24E+06 | -9.42E-02 | -6.30E+11 | -4.40E-04 |
| -6.52E+11 | -4.50E-04 | -6.39E+06 | -9.64E-02 | -6.44E+11 | -4.50E-04 |
| -6.66E+11 | -4.60E-04 | -6.53E+06 | -9.85E-02 | -6.59E+11 | -4.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.81E+11 | -4.70E-04 | -6.67E+06 | -1.01E-01 | -6.73E+11 | -4.70E-04 |
| -6.95E+11 | -4.80E-04 | -6.81E+06 | -1.03E-01 | -6.87E+11 | -4.80E-04 |
| -7.10E+11 | -4.90E-04 | -6.95E+06 | -1.05E-01 | -7.02E+11 | -4.90E-04 |
| -7.24E+11 | -5.00E-04 | -7.09E+06 | -1.07E-01 | -7.16E+11 | -5.00E-04 |
| -7.38E+11 | -5.10E-04 | -7.24E+06 | -1.09E-01 | -7.30E+11 | -5.10E-04 |
| -7.53E+11 | -5.20E-04 | -7.38E+06 | -1.11E-01 | -7.45E+11 | -5.20E-04 |
| -7.67E+11 | -5.30E-04 | -7.52E+06 | -1.13E-01 | -7.59E+11 | -5.30E-04 |
| -7.82E+11 | -5.40E-04 | -7.66E+06 | -1.16E-01 | -7.73E+11 | -5.40E-04 |
| -7.96E+11 | -5.50E-04 | -7.80E+06 | -1.18E-01 | -7.88E+11 | -5.50E-04 |
| -8.10E+11 | -5.60E-04 | -7.94E+06 | -1.20E-01 | -8.02E+11 | -5.60E-04 |
| -8.15E+11 | -5.64E-04 | -7.99E+06 | -1.21E-01 | -8.16E+11 | -5.70E-04 |
| -8.29E+11 | -5.74E-04 | -8.13E+06 | -1.23E-01 | -8.30E+11 | -5.80E-04 |
| -8.40E+11 | -5.81E-04 | -8.23E+06 | -1.24E-01 | -8.45E+11 | -5.90E-04 |
| -8.46E+11 | -5.87E-04 | -8.29E+06 | -1.26E-01 | -8.57E+11 | -5.99E-04 |
| -8.52E+11 | -5.93E-04 | -8.35E+06 | -1.27E-01 | -8.70E+11 | -6.09E-04 |
| -8.57E+11 | -5.99E-04 | -8.39E+06 | -1.28E-01 | -8.82E+11 | -6.17E-04 |
| -8.60E+11 | -6.05E-04 | -8.43E+06 | -1.30E-01 | -8.89E+11 | -6.24E-04 |
| -8.62E+11 | -6.11E-04 | -8.45E+06 | -1.31E-01 | -8.95E+11 | -6.30E-04 |
| -8.63E+11 | -6.15E-04 | -8.46E+06 | -1.32E-01 | -9.00E+11 | -6.35E-04 |
| -8.65E+11 | -6.25E-04 | -8.47E+06 | -1.34E-01 | -9.05E+11 | -6.42E-04 |
| -8.66E+11 | -6.32E-04 | -8.48E+06 | -1.35E-01 | -9.08E+11 | -6.47E-04 |
| -8.66E+11 | -6.37E-04 | -8.49E+06 | -1.36E-01 | -9.10E+11 | -6.52E-04 |
| -8.66E+11 | -6.42E-04 | -8.49E+06 | -1.37E-01 | -9.12E+11 | -6.58E-04 |
| -8.67E+11 | -6.50E-04 | -8.50E+06 | -1.39E-01 | -9.13E+11 | -6.68E-04 |
| -8.67E+11 | -6.54E-04 | -8.50E+06 | -1.40E-01 | -9.14E+11 | -6.74E-04 |
| -8.67E+11 | -6.59E-04 | -8.50E+06 | -1.41E-01 | -9.15E+11 | -6.80E-04 |
| -8.67E+11 | -6.64E-04 | -8.49E+06 | -1.42E-01 | -9.16E+11 | -6.87E-04 |
| -8.66E+11 | -6.69E-04 | -8.49E+06 | -1.43E-01 | -9.16E+11 | -6.92E-04 |
| -8.64E+11 | -6.79E-04 | -8.47E+06 | -1.45E-01 | -9.16E+11 | -6.97E-04 |
| -8.60E+11 | -6.89E-04 | -8.43E+06 | -1.47E-01 | -9.16E+11 | -7.02E-04 |
| -8.53E+11 | -6.99E-04 | -8.35E+06 | -1.50E-01 | -9.15E+11 | -7.07E-04 |
| -8.51E+11 | -7.00E-04 | -8.34E+06 | -1.50E-01 | -9.14E+11 | -7.13E-04 |
| -8.39E+11 | -7.10E-04 | -8.22E+06 | -1.52E-01 | -9.11E+11 | -7.23E-04 |
| -8.38E+11 | -7.11E-04 | -8.21E+06 | -1.52E-01 | -9.05E+11 | -7.33E-04 |
| -8.23E+11 | -7.21E-04 | -8.07E+06 | -1.54E-01 | -8.96E+11 | -7.43E-04 |
| -8.13E+11 | -7.28E-04 | -7.97E+06 | -1.56E-01 | -8.94E+11 | -7.45E-04 |
| -8.02E+11 | -7.38E-04 | -7.85E+06 | -1.58E-01 | -8.79E+11 | -7.55E-04 |
| -7.99E+11 | -7.41E-04 | -7.83E+06 | -1.59E-01 | -8.76E+11 | -7.57E-04 |
| -7.90E+11 | -7.51E-04 | -7.74E+06 | -1.61E-01 | -8.61E+11 | -7.67E-04 |
| -7.83E+11 | -7.61E-04 | -7.68E+06 | -1.63E-01 | -8.52E+11 | -7.74E-04 |
| -7.83E+11 | -7.62E-04 | -7.67E+06 | -1.63E-01 | -8.42E+11 | -7.84E-04 |
| -7.77E+11 | -7.72E-04 | -7.61E+06 | -1.65E-01 | -8.37E+11 | -7.89E-04 |
| -7.73E+11 | -7.79E-04 | -7.58E+06 | -1.67E-01 | -8.29E+11 | -7.99E-04 |
| -7.68E+11 | -7.89E-04 | -7.53E+06 | -1.69E-01 | -8.23E+11 | -8.09E-04 |
| -7.64E+11 | -7.99E-04 | -7.49E+06 | -1.71E-01 | -8.22E+11 | -8.10E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -7.62E+11 | -8.04E-04 | -7.47E+06 | -1.72E-01 | -8.16E+11 | -8.20E-04 |
| -7.60E+11 | -8.10E-04 | -7.45E+06 | -1.73E-01 | -8.12E+11 | -8.30E-04 |
| -7.56E+11 | -8.20E-04 | -7.41E+06 | -1.75E-01 | -8.11E+11 | -8.31E-04 |
| -7.52E+11 | -8.30E-04 | -7.37E+06 | -1.78E-01 | -8.07E+11 | -8.41E-04 |
| -7.49E+11 | -8.40E-04 | -7.34E+06 | -1.80E-01 | -8.03E+11 | -8.51E-04 |
| -7.48E+11 | -8.42E-04 | -7.33E+06 | -1.80E-01 | -8.01E+11 | -8.55E-04 |
| -7.45E+11 | -8.52E-04 | -7.30E+06 | -1.82E-01 | -7.97E+11 | -8.64E-04 |
| -7.44E+11 | -8.54E-04 | -7.29E+06 | -1.83E-01 | -7.93E+11 | -8.74E-04 |
| -7.41E+11 | -8.64E-04 | -7.26E+06 | -1.85E-01 | -7.89E+11 | -8.84E-04 |
| -7.37E+11 | -8.74E-04 | -7.22E+06 | -1.87E-01 | -7.86E+11 | -8.94E-04 |
| -7.34E+11 | -8.84E-04 | -7.19E+06 | -1.89E-01 | -7.84E+11 | -9.00E-04 |
| -7.31E+11 | -8.94E-04 | -7.16E+06 | -1.91E-01 | -7.81E+11 | -9.09E-04 |
| -7.29E+11 | -9.00E-04 | -7.15E+06 | -1.93E-01 | -7.78E+11 | -9.19E-04 |
| -7.27E+11 | -9.09E-04 | -7.12E+06 | -1.95E-01 | -7.74E+11 | -9.29E-04 |
| -7.24E+11 | -9.19E-04 | -7.09E+06 | -1.97E-01 | -7.71E+11 | -9.39E-04 |
| -7.21E+11 | -9.29E-04 | -7.06E+06 | -1.99E-01 | -7.68E+11 | -9.49E-04 |
| -7.18E+11 | -9.39E-04 | -7.03E+06 | -2.01E-01 | -7.65E+11 | -9.59E-04 |
| -7.15E+11 | -9.49E-04 | -7.01E+06 | -2.03E-01 | -7.64E+11 | -9.62E-04 |
| -7.12E+11 | -9.59E-04 | -6.98E+06 | -2.05E-01 | -7.61E+11 | -9.72E-04 |
| -7.10E+11 | -9.68E-04 | -6.96E+06 | -2.07E-01 | -7.57E+11 | -9.82E-04 |
| -7.07E+11 | -9.78E-04 | -6.93E+06 | -2.09E-01 | -7.54E+11 | -9.92E-04 |
| -7.07E+11 | -9.78E-04 | -6.93E+06 | -2.09E-01 | -7.51E+11 | -1.00E-03 |
| -7.04E+11 | -9.88E-04 | -6.90E+06 | -2.12E-01 | -7.49E+11 | -1.01E-03 |
| -7.02E+11 | -9.98E-04 | -6.88E+06 | -2.14E-01 | -7.46E+11 | -1.02E-03 |
| -6.99E+11 | -1.01E-03 | -6.85E+06 | -2.16E-01 | -7.43E+11 | -1.03E-03 |
| -6.96E+11 | -1.02E-03 | -6.82E+06 | -2.18E-01 | -7.43E+11 | -1.03E-03 |
| -6.94E+11 | -1.03E-03 | -6.80E+06 | -2.20E-01 | -7.41E+11 | -1.04E-03 |
| -6.91E+11 | -1.04E-03 | -6.77E+06 | -2.22E-01 | -7.38E+11 | -1.05E-03 |
| -6.89E+11 | -1.05E-03 | -6.75E+06 | -2.24E-01 | -7.35E+11 | -1.06E-03 |
| -6.88E+11 | -1.05E-03 | -6.74E+06 | -2.25E-01 | -7.33E+11 | -1.07E-03 |
| -6.87E+11 | -1.06E-03 | -6.73E+06 | -2.26E-01 | -7.30E+11 | -1.08E-03 |
| -6.84E+11 | -1.07E-03 | -6.71E+06 | -2.28E-01 | -7.27E+11 | -1.09E-03 |
| -6.82E+11 | -1.08E-03 | -6.68E+06 | -2.30E-01 | -7.25E+11 | -1.10E-03 |
| -6.79E+11 | -1.09E-03 | -6.65E+06 | -2.33E-01 | -7.22E+11 | -1.11E-03 |
| -6.76E+11 | -1.10E-03 | -6.63E+06 | -2.35E-01 | -7.20E+11 | -1.12E-03 |
| -6.74E+11 | -1.11E-03 | -6.60E+06 | -2.37E-01 | -7.18E+11 | -1.13E-03 |
| -6.71E+11 | -1.12E-03 | -6.58E+06 | -2.39E-01 | -7.18E+11 | -1.13E-03 |
| -6.69E+11 | -1.13E-03 | -6.56E+06 | -2.41E-01 | -7.15E+11 | -1.14E-03 |
| -6.68E+11 | -1.13E-03 | -6.54E+06 | -2.42E-01 | -7.12E+11 | -1.15E-03 |
| -6.65E+11 | -1.14E-03 | -6.52E+06 | -2.45E-01 | -7.10E+11 | -1.16E-03 |
| -6.64E+11 | -1.15E-03 | -6.51E+06 | -2.45E-01 | -7.07E+11 | -1.17E-03 |
| -6.62E+11 | -1.16E-03 | -6.48E+06 | -2.47E-01 | -7.04E+11 | -1.18E-03 |
| -6.59E+11 | -1.17E-03 | -6.46E+06 | -2.49E-01 | -7.02E+11 | -1.19E-03 |
| -6.57E+11 | -1.18E-03 | -6.44E+06 | -2.52E-01 | -7.00E+11 | -1.20E-03 |
| -6.54E+11 | -1.19E-03 | -6.41E+06 | -2.54E-01 | -6.98E+11 | -1.21E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.52E+11 | -1.20E-03 | -6.39E+06 | -2.56E-01 | -6.96E+11 | -1.22E-03 |
| -6.50E+11 | -1.21E-03 | -6.37E+06 | -2.58E-01 | -6.93E+11 | -1.22E-03 |
| -6.48E+11 | -1.22E-03 | -6.35E+06 | -2.60E-01 | -6.91E+11 | -1.23E-03 |
| -6.45E+11 | -1.23E-03 | -6.32E+06 | -2.62E-01 | -6.88E+11 | -1.24E-03 |
| -6.45E+11 | -1.23E-03 | -6.32E+06 | -2.63E-01 | -6.86E+11 | -1.25E-03 |
| -6.43E+11 | -1.24E-03 | -6.30E+06 | -2.65E-01 | -6.83E+11 | -1.26E-03 |
| -6.40E+11 | -1.25E-03 | -6.27E+06 | -2.67E-01 | -6.81E+11 | -1.27E-03 |
| -6.40E+11 | -1.25E-03 | -6.27E+06 | -2.68E-01 | -6.79E+11 | -1.28E-03 |
| -6.37E+11 | -1.26E-03 | -6.24E+06 | -2.70E-01 | -6.77E+11 | -1.29E-03 |
| -6.35E+11 | -1.27E-03 | -6.22E+06 | -2.72E-01 | -6.74E+11 | -1.30E-03 |
| -6.33E+11 | -1.28E-03 | -6.20E+06 | -2.74E-01 | -6.74E+11 | -1.31E-03 |
| -6.31E+11 | -1.29E-03 | -6.18E+06 | -2.76E-01 | -6.72E+11 | -1.32E-03 |
| -6.28E+11 | -1.30E-03 | -6.16E+06 | -2.78E-01 | -6.69E+11 | -1.33E-03 |
| -6.26E+11 | -1.31E-03 | -6.14E+06 | -2.81E-01 | -6.67E+11 | -1.34E-03 |
| -6.24E+11 | -1.32E-03 | -6.12E+06 | -2.83E-01 | -6.65E+11 | -1.35E-03 |
| -6.22E+11 | -1.33E-03 | -6.10E+06 | -2.85E-01 | -6.63E+11 | -1.36E-03 |
| -6.22E+11 | -1.33E-03 | -6.09E+06 | -2.85E-01 | -6.60E+11 | -1.37E-03 |
| -6.20E+11 | -1.34E-03 | -6.07E+06 | -2.88E-01 | -6.58E+11 | -1.38E-03 |
| -6.18E+11 | -1.35E-03 | -6.05E+06 | -2.90E-01 | -6.56E+11 | -1.39E-03 |
| -6.16E+11 | -1.36E-03 | -6.03E+06 | -2.92E-01 | -6.54E+11 | -1.40E-03 |
| -6.14E+11 | -1.37E-03 | -6.01E+06 | -2.94E-01 | -6.52E+11 | -1.41E-03 |
| -6.12E+11 | -1.38E-03 | -5.99E+06 | -2.96E-01 | -6.50E+11 | -1.42E-03 |
| -6.11E+11 | -1.39E-03 | -5.99E+06 | -2.97E-01 | -6.49E+11 | -1.42E-03 |
| -6.09E+11 | -1.40E-03 | -5.97E+06 | -2.99E-01 | -6.47E+11 | -1.43E-03 |
| -6.07E+11 | -1.41E-03 | -5.95E+06 | -3.01E-01 | -6.45E+11 | -1.44E-03 |
| -6.05E+11 | -1.42E-03 | -5.93E+06 | -3.03E-01 | -6.43E+11 | -1.45E-03 |
| -6.03E+11 | -1.43E-03 | -5.91E+06 | -3.06E-01 | -6.41E+11 | -1.46E-03 |
| -6.01E+11 | -1.44E-03 | -5.89E+06 | -3.08E-01 | -6.39E+11 | -1.47E-03 |
| -5.99E+11 | -1.45E-03 | -5.87E+06 | -3.10E-01 | -6.37E+11 | -1.48E-03 |
| -5.98E+11 | -1.46E-03 | -5.86E+06 | -3.12E-01 | -6.37E+11 | -1.48E-03 |
| -5.96E+11 | -1.47E-03 | -5.84E+06 | -3.14E-01 | -6.35E+11 | -1.49E-03 |
| -5.94E+11 | -1.48E-03 | -5.82E+06 | -3.16E-01 | -6.33E+11 | -1.50E-03 |
| -5.92E+11 | -1.49E-03 | -5.80E+06 | -3.18E-01 | -6.31E+11 | -1.51E-03 |
| -5.90E+11 | -1.50E-03 | -5.79E+06 | -3.20E-01 | -6.29E+11 | -1.52E-03 |
| -5.89E+11 | -1.51E-03 | -5.77E+06 | -3.22E-01 | -6.27E+11 | -1.53E-03 |
| -5.87E+11 | -1.52E-03 | -5.75E+06 | -3.25E-01 | -6.25E+11 | -1.54E-03 |
| -5.85E+11 | -1.53E-03 | -5.73E+06 | -3.27E-01 | -6.24E+11 | -1.55E-03 |
| -5.83E+11 | -1.54E-03 | -5.72E+06 | -3.29E-01 | -6.22E+11 | -1.56E-03 |
| -5.82E+11 | -1.55E-03 | -5.70E+06 | -3.31E-01 | -6.20E+11 | -1.57E-03 |
| -5.80E+11 | -1.56E-03 | -5.69E+06 | -3.33E-01 | -6.18E+11 | -1.58E-03 |
| -5.79E+11 | -1.57E-03 | -5.67E+06 | -3.35E-01 | -6.17E+11 | -1.59E-03 |
| -5.78E+11 | -1.57E-03 | -5.67E+06 | -3.36E-01 | -6.15E+11 | -1.60E-03 |
| -5.77E+11 | -1.58E-03 | -5.65E+06 | -3.38E-01 | -6.13E+11 | -1.61E-03 |
| -5.75E+11 | -1.59E-03 | -5.64E+06 | -3.40E-01 | -6.11E+11 | -1.62E-03 |
| -5.74E+11 | -1.60E-03 | -5.62E+06 | -3.42E-01 | -6.10E+11 | -1.63E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.72E+11 | -1.61E-03 | -5.60E+06 | -3.44E-01 | -6.08E+11 | -1.64E-03 |
| -5.70E+11 | -1.62E-03 | -5.59E+06 | -3.46E-01 | -6.07E+11 | -1.65E-03 |
| -5.69E+11 | -1.63E-03 | -5.57E+06 | -3.49E-01 | -6.05E+11 | -1.66E-03 |
| -5.69E+11 | -1.63E-03 | -5.57E+06 | -3.49E-01 | -6.03E+11 | -1.67E-03 |
| -5.67E+11 | -1.64E-03 | -5.56E+06 | -3.51E-01 | -6.03E+11 | -1.68E-03 |
| -5.65E+11 | -1.65E-03 | -5.54E+06 | -3.53E-01 | -6.01E+11 | -1.69E-03 |
| -5.64E+11 | -1.66E-03 | -5.53E+06 | -3.55E-01 | -6.00E+11 | -1.70E-03 |
| -5.62E+11 | -1.67E-03 | -5.51E+06 | -3.57E-01 | -5.98E+11 | -1.71E-03 |
| -5.61E+11 | -1.68E-03 | -5.49E+06 | -3.60E-01 | -5.97E+11 | -1.72E-03 |
| -5.59E+11 | -1.69E-03 | -5.48E+06 | -3.62E-01 | -5.95E+11 | -1.73E-03 |
| -5.58E+11 | -1.70E-03 | -5.46E+06 | -3.64E-01 | -5.94E+11 | -1.74E-03 |
| -5.56E+11 | -1.71E-03 | -5.45E+06 | -3.66E-01 | -5.93E+11 | -1.74E-03 |
| -5.55E+11 | -1.72E-03 | -5.44E+06 | -3.68E-01 | -5.92E+11 | -1.75E-03 |
| -5.53E+11 | -1.73E-03 | -5.42E+06 | -3.70E-01 | -5.90E+11 | -1.76E-03 |
| -5.52E+11 | -1.74E-03 | -5.41E+06 | -3.72E-01 | -5.89E+11 | -1.77E-03 |
| -5.51E+11 | -1.75E-03 | -5.40E+06 | -3.75E-01 | -5.87E+11 | -1.78E-03 |
| -5.49E+11 | -1.76E-03 | -5.38E+06 | -3.77E-01 | -5.86E+11 | -1.79E-03 |
| -5.49E+11 | -1.76E-03 | -5.38E+06 | -3.77E-01 | -5.84E+11 | -1.80E-03 |
| -5.47E+11 | -1.77E-03 | -5.36E+06 | -3.79E-01 | -5.83E+11 | -1.81E-03 |
| -5.46E+11 | -1.78E-03 | -5.35E+06 | -3.82E-01 | -5.81E+11 | -1.82E-03 |
| -5.45E+11 | -1.79E-03 | -5.34E+06 | -3.84E-01 | -5.80E+11 | -1.83E-03 |
| -5.43E+11 | -1.80E-03 | -5.32E+06 | -3.86E-01 | -5.78E+11 | -1.84E-03 |
| -5.42E+11 | -1.81E-03 | -5.31E+06 | -3.88E-01 | -5.77E+11 | -1.85E-03 |
| -5.41E+11 | -1.82E-03 | -5.30E+06 | -3.90E-01 | -5.76E+11 | -1.86E-03 |
| -5.39E+11 | -1.83E-03 | -5.29E+06 | -3.92E-01 | -5.74E+11 | -1.87E-03 |
| -5.38E+11 | -1.84E-03 | -5.27E+06 | -3.94E-01 | -5.73E+11 | -1.88E-03 |
| -5.37E+11 | -1.85E-03 | -5.26E+06 | -3.96E-01 | -5.72E+11 | -1.88E-03 |
| -5.35E+11 | -1.86E-03 | -5.25E+06 | -3.99E-01 | -5.71E+11 | -1.89E-03 |
| -5.34E+11 | -1.87E-03 | -5.23E+06 | -4.01E-01 | -5.69E+11 | -1.90E-03 |
| -5.33E+11 | -1.88E-03 | -5.22E+06 | -4.03E-01 | -5.68E+11 | -1.91E-03 |
| -5.31E+11 | -1.89E-03 | -5.21E+06 | -4.05E-01 | -5.67E+11 | -1.92E-03 |
| -5.30E+11 | -1.90E-03 | -5.19E+06 | -4.07E-01 | -5.65E+11 | -1.93E-03 |
| -5.29E+11 | -1.91E-03 | -5.18E+06 | -4.09E-01 | -5.64E+11 | -1.94E-03 |
| -5.28E+11 | -1.92E-03 | -5.17E+06 | -4.11E-01 | -5.63E+11 | -1.95E-03 |
| -5.26E+11 | -1.93E-03 | -5.16E+06 | -4.13E-01 | -5.62E+11 | -1.96E-03 |
| -5.25E+11 | -1.94E-03 | -5.15E+06 | -4.16E-01 | -5.60E+11 | -1.97E-03 |
| -5.24E+11 | -1.95E-03 | -5.13E+06 | -4.18E-01 | -5.59E+11 | -1.98E-03 |
| -5.23E+11 | -1.96E-03 | -5.12E+06 | -4.20E-01 | -5.58E+11 | -1.99E-03 |
| -5.22E+11 | -1.97E-03 | -5.11E+06 | -4.22E-01 | -5.56E+11 | -2.00E-03 |
| -5.21E+11 | -1.98E-03 | -5.10E+06 | -4.24E-01 | -5.55E+11 | -2.01E-03 |
| -5.19E+11 | -1.99E-03 | -5.09E+06 | -4.26E-01 | -5.54E+11 | -2.02E-03 |
| -5.18E+11 | -2.00E-03 | -5.08E+06 | -4.28E-01 | -5.53E+11 | -2.03E-03 |
| -5.17E+11 | -2.01E-03 | -5.07E+06 | -4.31E-01 | -5.51E+11 | -2.04E-03 |
| -5.17E+11 | -2.01E-03 | -5.07E+06 | -4.31E-01 | -5.50E+11 | -2.05E-03 |
| -5.16E+11 | -2.02E-03 | -5.06E+06 | -4.33E-01 | -5.49E+11 | -2.06E-03 |

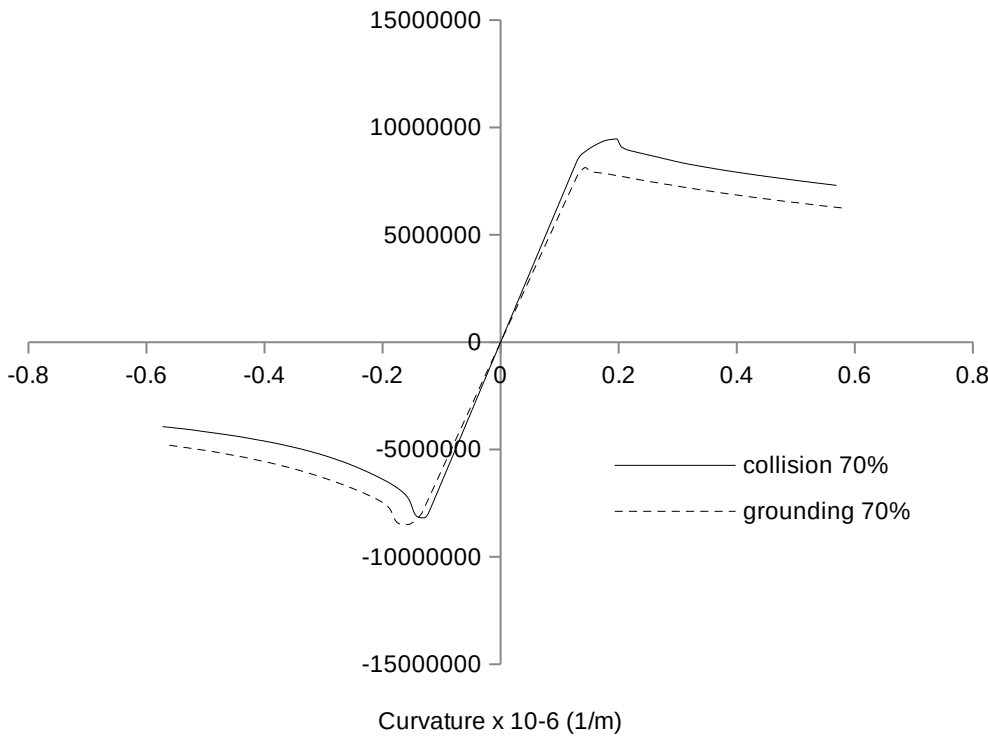
| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.15E+11 | -2.03E-03 | -5.05E+06 | -4.35E-01 | -5.48E+11 | -2.07E-03 |
| -5.14E+11 | -2.04E-03 | -5.04E+06 | -4.37E-01 | -5.47E+11 | -2.08E-03 |
| -5.13E+11 | -2.05E-03 | -5.02E+06 | -4.39E-01 | -5.46E+11 | -2.09E-03 |
| -5.12E+11 | -2.06E-03 | -5.01E+06 | -4.41E-01 | -5.45E+11 | -2.10E-03 |
| -5.10E+11 | -2.07E-03 | -5.00E+06 | -4.43E-01 | -5.43E+11 | -2.11E-03 |
| -5.09E+11 | -2.08E-03 | -4.99E+06 | -4.46E-01 | -5.42E+11 | -2.12E-03 |
| -5.08E+11 | -2.09E-03 | -4.98E+06 | -4.47E-01 | -5.41E+11 | -2.13E-03 |
| -5.07E+11 | -2.10E-03 | -4.97E+06 | -4.49E-01 | -5.40E+11 | -2.14E-03 |
| -5.06E+11 | -2.11E-03 | -4.96E+06 | -4.52E-01 | -5.39E+11 | -2.15E-03 |
| -5.05E+11 | -2.12E-03 | -4.95E+06 | -4.54E-01 | -5.38E+11 | -2.16E-03 |
| -5.04E+11 | -2.13E-03 | -4.94E+06 | -4.56E-01 | -5.37E+11 | -2.17E-03 |
| -5.03E+11 | -2.14E-03 | -4.93E+06 | -4.58E-01 | -5.36E+11 | -2.18E-03 |
| -5.02E+11 | -2.15E-03 | -4.92E+06 | -4.60E-01 | -5.35E+11 | -2.19E-03 |
| -5.01E+11 | -2.16E-03 | -4.91E+06 | -4.62E-01 | -5.34E+11 | -2.20E-03 |
| -5.00E+11 | -2.17E-03 | -4.90E+06 | -4.64E-01 | -5.33E+11 | -2.21E-03 |
| -4.99E+11 | -2.18E-03 | -4.89E+06 | -4.67E-01 | -5.32E+11 | -2.22E-03 |
| -4.98E+11 | -2.19E-03 | -4.88E+06 | -4.69E-01 | -5.31E+11 | -2.23E-03 |
| -4.97E+11 | -2.20E-03 | -4.87E+06 | -4.71E-01 | -5.30E+11 | -2.24E-03 |
| -4.96E+11 | -2.21E-03 | -4.86E+06 | -4.73E-01 | -5.29E+11 | -2.25E-03 |
| -4.95E+11 | -2.22E-03 | -4.85E+06 | -4.75E-01 | -5.28E+11 | -2.26E-03 |
| -4.94E+11 | -2.23E-03 | -4.84E+06 | -4.77E-01 | -5.27E+11 | -2.27E-03 |
| -4.93E+11 | -2.24E-03 | -4.83E+06 | -4.79E-01 | -5.26E+11 | -2.28E-03 |
| -4.92E+11 | -2.25E-03 | -4.82E+06 | -4.82E-01 | -5.25E+11 | -2.29E-03 |
| -4.91E+11 | -2.26E-03 | -4.81E+06 | -4.84E-01 | -5.24E+11 | -2.30E-03 |
| -4.90E+11 | -2.27E-03 | -4.80E+06 | -4.86E-01 | -5.23E+11 | -2.31E-03 |
| -4.89E+11 | -2.28E-03 | -4.79E+06 | -4.88E-01 | -5.22E+11 | -2.32E-03 |
| -4.88E+11 | -2.29E-03 | -4.78E+06 | -4.90E-01 | -5.21E+11 | -2.33E-03 |
| -4.87E+11 | -2.30E-03 | -4.78E+06 | -4.92E-01 | -5.20E+11 | -2.34E-03 |
| -4.86E+11 | -2.31E-03 | -4.77E+06 | -4.94E-01 | -5.19E+11 | -2.35E-03 |
| -4.86E+11 | -2.32E-03 | -4.76E+06 | -4.97E-01 | -5.18E+11 | -2.36E-03 |
| -4.85E+11 | -2.33E-03 | -4.75E+06 | -4.99E-01 | -5.17E+11 | -2.37E-03 |
| -4.84E+11 | -2.34E-03 | -4.74E+06 | -5.01E-01 | -5.16E+11 | -2.38E-03 |
| -4.84E+11 | -2.34E-03 | -4.74E+06 | -5.01E-01 | -5.15E+11 | -2.39E-03 |
| -4.83E+11 | -2.35E-03 | -4.73E+06 | -5.03E-01 | -5.14E+11 | -2.40E-03 |
| -4.82E+11 | -2.36E-03 | -4.72E+06 | -5.06E-01 | -5.13E+11 | -2.41E-03 |
| -4.81E+11 | -2.37E-03 | -4.71E+06 | -5.08E-01 | -5.12E+11 | -2.42E-03 |
| -4.80E+11 | -2.38E-03 | -4.71E+06 | -5.10E-01 | -5.12E+11 | -2.43E-03 |
| -4.79E+11 | -2.39E-03 | -4.70E+06 | -5.12E-01 | -5.11E+11 | -2.44E-03 |
| -4.79E+11 | -2.40E-03 | -4.69E+06 | -5.14E-01 | -5.10E+11 | -2.45E-03 |
| -4.78E+11 | -2.41E-03 | -4.68E+06 | -5.16E-01 | -5.09E+11 | -2.46E-03 |
| -4.77E+11 | -2.42E-03 | -4.67E+06 | -5.18E-01 | -5.08E+11 | -2.47E-03 |
| -4.76E+11 | -2.43E-03 | -4.66E+06 | -5.21E-01 | -5.07E+11 | -2.48E-03 |
| -4.76E+11 | -2.43E-03 | -4.66E+06 | -5.21E-01 | -5.07E+11 | -2.49E-03 |
| -4.75E+11 | -2.44E-03 | -4.66E+06 | -5.23E-01 | -5.06E+11 | -2.50E-03 |
| -4.74E+11 | -2.45E-03 | -4.65E+06 | -5.25E-01 | -5.05E+11 | -2.51E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.73E+11 | -2.46E-03 | -4.64E+06 | -5.27E-01 | -5.04E+11 | -2.52E-03 |
| -4.73E+11 | -2.47E-03 | -4.63E+06 | -5.29E-01 | -5.03E+11 | -2.53E-03 |
| -4.72E+11 | -2.48E-03 | -4.62E+06 | -5.31E-01 | -5.03E+11 | -2.54E-03 |
| -4.71E+11 | -2.49E-03 | -4.61E+06 | -5.33E-01 | -5.02E+11 | -2.55E-03 |
| -4.70E+11 | -2.50E-03 | -4.61E+06 | -5.35E-01 | -5.01E+11 | -2.56E-03 |
| -4.69E+11 | -2.51E-03 | -4.60E+06 | -5.37E-01 | -5.00E+11 | -2.57E-03 |
| -4.68E+11 | -2.52E-03 | -4.59E+06 | -5.39E-01 | -4.99E+11 | -2.58E-03 |
| -4.67E+11 | -2.53E-03 | -4.58E+06 | -5.42E-01 | -4.99E+11 | -2.59E-03 |
| -4.67E+11 | -2.54E-03 | -4.57E+06 | -5.44E-01 | -4.98E+11 | -2.60E-03 |
| -4.66E+11 | -2.55E-03 | -4.56E+06 | -5.46E-01 | -4.98E+11 | -2.60E-03 |
| -4.65E+11 | -2.56E-03 | -4.56E+06 | -5.48E-01 | -4.97E+11 | -2.61E-03 |
| -4.64E+11 | -2.57E-03 | -4.55E+06 | -5.50E-01 | -4.96E+11 | -2.62E-03 |
| -4.63E+11 | -2.58E-03 | -4.54E+06 | -5.52E-01 | -4.95E+11 | -2.63E-03 |
| -4.63E+11 | -2.59E-03 | -4.53E+06 | -5.54E-01 | -4.95E+11 | -2.64E-03 |
| -4.62E+11 | -2.60E-03 | -4.53E+06 | -5.57E-01 | -4.94E+11 | -2.65E-03 |
| -4.61E+11 | -2.61E-03 | -4.52E+06 | -5.59E-01 | -4.93E+11 | -2.66E-03 |
| -4.60E+11 | -2.62E-03 | -4.51E+06 | -5.61E-01 | -4.92E+11 | -2.67E-03 |
| -4.60E+11 | -2.63E-03 | -4.50E+06 | -5.63E-01 | -4.91E+11 | -2.68E-03 |
| -4.59E+11 | -2.64E-03 | -4.50E+06 | -5.65E-01 | -4.90E+11 | -2.69E-03 |

% kandas

70% tubrukan

| | 9.80E-06 | 1.00E-06 | 4670 | 9.80E-06 | 1.00E-06 |
|----------|----------|-----------|----------|----------|-----------|
| | Momen | Curvature | Rotasi | Momen | Curvature |
| 7.14E+06 | 7.14E+06 | 5.80E-01 | 7.45E+11 | 2.66E-03 | 7.30E+06 |
| 7.14E+06 | | | | | |
| 7.15E+06 | | | | | |
| 7.16E+06 | | | | | |
| 7.16E+06 | | | | | |
| 7.17E+06 | | | | | |
| 7.18E+06 | | | | | |
| 7.19E+06 | | | | | |
| 7.19E+06 | | | | | |
| 7.20E+06 | | | | | |
| 7.21E+06 | | | | | |
| 7.22E+06 | | | | | |
| 7.22E+06 | | | | | |
| 7.23E+06 | | | | | |
| 7.23E+06 | | | | | |
| 7.24E+06 | | | | | |
| 7.25E+06 | | | | | |
| 7.25E+06 | | | | | |
| 7.26E+06 | | | | | |
| 7.27E+06 | | | | | |
| 7.27E+06 | | | | | |
| 7.28E+06 | 7.28E+06 | 5.36E-01 | 7.60E+11 | 2.45E-03 | 7.45E+06 |
| 7.29E+06 | 7.29E+06 | 5.34E-01 | 7.61E+11 | 2.44E-03 | 7.46E+06 |
| 7.30E+06 | 7.30E+06 | 5.31E-01 | 7.62E+11 | 2.43E-03 | 7.46E+06 |
| 7.30E+06 | 7.30E+06 | 5.29E-01 | 7.62E+11 | 2.42E-03 | 7.47E+06 |
| 7.31E+06 | 7.31E+06 | 5.27E-01 | 7.63E+11 | 2.41E-03 | 7.48E+06 |
| 7.32E+06 | 7.32E+06 | 5.25E-01 | 7.64E+11 | 2.40E-03 | 7.49E+06 |
| 7.32E+06 | 7.32E+06 | 5.23E-01 | 7.65E+11 | 2.39E-03 | 7.49E+06 |
| 7.33E+06 | 7.33E+06 | 5.21E-01 | 7.65E+11 | 2.38E-03 | 7.50E+06 |
| 7.33E+06 | 7.33E+06 | 5.20E-01 | 7.66E+11 | 2.37E-03 | 7.51E+06 |
| 7.34E+06 | 7.34E+06 | 5.18E-01 | 7.67E+11 | 2.36E-03 | 7.51E+06 |
| 7.35E+06 | 7.35E+06 | 5.15E-01 | 7.68E+11 | 2.35E-03 | 7.52E+06 |
| 7.36E+06 | 7.36E+06 | 5.13E-01 | 7.68E+11 | 2.34E-03 | 7.53E+06 |
| 7.36E+06 | 7.36E+06 | 5.11E-01 | 7.69E+11 | 2.33E-03 | 7.54E+06 |
| 7.37E+06 | 7.37E+06 | 5.09E-01 | 7.70E+11 | 2.32E-03 | 7.55E+06 |
| 7.38E+06 | 7.38E+06 | 5.07E-01 | 7.71E+11 | 2.31E-03 | 7.55E+06 |
| 7.39E+06 | 7.39E+06 | 5.05E-01 | 7.72E+11 | 2.30E-03 | 7.56E+06 |
| 7.39E+06 | 7.39E+06 | 5.03E-01 | 7.72E+11 | 2.30E-03 | 7.57E+06 |
| 7.40E+06 | 7.40E+06 | 5.00E-01 | 7.73E+11 | 2.29E-03 | 7.57E+06 |
| 7.41E+06 | 7.41E+06 | 4.98E-01 | 7.74E+11 | 2.28E-03 | 7.58E+06 |



Curvature x 10⁻⁶ (1/m)

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.42E+06 | 4.96E-01 | 7.74E+11 | 2.27E-03 | 7.59E+06 | 4.86E-01 |
| 7.42E+06 | 4.94E-01 | 7.75E+11 | 2.26E-03 | 7.60E+06 | 4.84E-01 |
| 7.43E+06 | 4.92E-01 | 7.76E+11 | 2.25E-03 | 7.60E+06 | 4.81E-01 |
| 7.44E+06 | 4.90E-01 | 7.77E+11 | 2.24E-03 | 7.61E+06 | 4.79E-01 |
| 7.45E+06 | 4.88E-01 | 7.78E+11 | 2.23E-03 | 7.62E+06 | 4.77E-01 |
| 7.46E+06 | 4.86E-01 | 7.78E+11 | 2.22E-03 | 7.63E+06 | 4.75E-01 |
| 7.46E+06 | 4.84E-01 | 7.79E+11 | 2.21E-03 | 7.64E+06 | 4.73E-01 |
| 7.47E+06 | 4.81E-01 | 7.80E+11 | 2.20E-03 | 7.64E+06 | 4.71E-01 |
| 7.48E+06 | 4.79E-01 | 7.80E+11 | 2.20E-03 | 7.65E+06 | 4.70E-01 |
| 7.49E+06 | 4.77E-01 | 7.81E+11 | 2.19E-03 | 7.65E+06 | 4.68E-01 |
| 7.49E+06 | 4.75E-01 | 7.82E+11 | 2.18E-03 | 7.66E+06 | 4.66E-01 |
| 7.50E+06 | 4.73E-01 | 7.83E+11 | 2.17E-03 | 7.67E+06 | 4.64E-01 |
| 7.51E+06 | 4.71E-01 | 7.83E+11 | 2.16E-03 | 7.68E+06 | 4.62E-01 |
| 7.51E+06 | 4.69E-01 | 7.84E+11 | 2.15E-03 | 7.68E+06 | 4.60E-01 |
| 7.52E+06 | 4.66E-01 | 7.85E+11 | 2.14E-03 | 7.69E+06 | 4.58E-01 |
| 7.53E+06 | 4.64E-01 | 7.86E+11 | 2.13E-03 | 7.70E+06 | 4.55E-01 |
| 7.54E+06 | 4.62E-01 | 7.87E+11 | 2.12E-03 | 7.71E+06 | 4.53E-01 |
| 7.54E+06 | 4.60E-01 | 7.87E+11 | 2.11E-03 | 7.72E+06 | 4.51E-01 |
| 7.55E+06 | 4.58E-01 | 7.88E+11 | 2.10E-03 | 7.72E+06 | 4.49E-01 |
| 7.56E+06 | 4.56E-01 | 7.89E+11 | 2.09E-03 | 7.73E+06 | 4.47E-01 |
| 7.56E+06 | 4.55E-01 | 7.90E+11 | 2.08E-03 | 7.74E+06 | 4.45E-01 |
| 7.57E+06 | 4.53E-01 | 7.91E+11 | 2.07E-03 | 7.75E+06 | 4.43E-01 |
| 7.58E+06 | 4.51E-01 | 7.92E+11 | 2.06E-03 | 7.76E+06 | 4.40E-01 |
| 7.59E+06 | 4.49E-01 | 7.92E+11 | 2.05E-03 | 7.76E+06 | 4.38E-01 |
| 7.59E+06 | 4.47E-01 | 7.93E+11 | 2.04E-03 | 7.77E+06 | 4.36E-01 |
| 7.60E+06 | 4.45E-01 | 7.94E+11 | 2.03E-03 | 7.78E+06 | 4.34E-01 |
| 7.61E+06 | 4.43E-01 | 7.95E+11 | 2.02E-03 | 7.79E+06 | 4.32E-01 |
| 7.62E+06 | 4.40E-01 | 7.96E+11 | 2.01E-03 | 7.80E+06 | 4.30E-01 |
| 7.63E+06 | 4.38E-01 | 7.97E+11 | 2.00E-03 | 7.81E+06 | 4.28E-01 |
| 7.64E+06 | 4.36E-01 | 7.98E+11 | 1.99E-03 | 7.82E+06 | 4.25E-01 |
| 7.64E+06 | 4.34E-01 | 7.98E+11 | 1.98E-03 | 7.82E+06 | 4.23E-01 |
| 7.65E+06 | 4.32E-01 | 7.99E+11 | 1.98E-03 | 7.83E+06 | 4.23E-01 |
| 7.66E+06 | 4.30E-01 | 7.99E+11 | 1.97E-03 | 7.83E+06 | 4.21E-01 |
| 7.67E+06 | 4.28E-01 | 8.00E+11 | 1.96E-03 | 7.84E+06 | 4.19E-01 |
| 7.67E+06 | 4.26E-01 | 8.01E+11 | 1.95E-03 | 7.85E+06 | 4.16E-01 |
| 7.68E+06 | 4.24E-01 | 8.02E+11 | 1.94E-03 | 7.86E+06 | 4.14E-01 |
| 7.69E+06 | 4.22E-01 | 8.03E+11 | 1.93E-03 | 7.87E+06 | 4.12E-01 |
| 7.70E+06 | 4.20E-01 | 8.04E+11 | 1.92E-03 | 7.88E+06 | 4.10E-01 |
| 7.71E+06 | 4.18E-01 | 8.05E+11 | 1.91E-03 | 7.89E+06 | 4.08E-01 |
| 7.71E+06 | 4.15E-01 | 8.06E+11 | 1.90E-03 | 7.89E+06 | 4.06E-01 |
| 7.72E+06 | 4.13E-01 | 8.06E+11 | 1.89E-03 | 7.90E+06 | 4.04E-01 |
| 7.73E+06 | 4.11E-01 | 8.07E+11 | 1.88E-03 | 7.91E+06 | 4.01E-01 |
| 7.74E+06 | 4.09E-01 | 8.08E+11 | 1.87E-03 | 7.92E+06 | 4.00E-01 |
| 7.75E+06 | 4.07E-01 | 8.09E+11 | 1.86E-03 | 7.93E+06 | 3.98E-01 |
| 7.76E+06 | 4.05E-01 | 8.10E+11 | 1.85E-03 | 7.93E+06 | 3.96E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.76E+06 | 4.03E-01 | 8.11E+11 | 1.84E-03 | 7.94E+06 | 3.94E-01 |
| 7.77E+06 | 4.00E-01 | 8.12E+11 | 1.83E-03 | 7.95E+06 | 3.91E-01 |
| 7.78E+06 | 3.98E-01 | 8.12E+11 | 1.82E-03 | 7.96E+06 | 3.89E-01 |
| 7.79E+06 | 3.96E-01 | 8.13E+11 | 1.81E-03 | 7.97E+06 | 3.87E-01 |
| 7.80E+06 | 3.94E-01 | 8.14E+11 | 1.80E-03 | 7.98E+06 | 3.85E-01 |
| 7.81E+06 | 3.92E-01 | 8.15E+11 | 1.79E-03 | 7.99E+06 | 3.83E-01 |
| 7.82E+06 | 3.90E-01 | 8.16E+11 | 1.78E-03 | 8.00E+06 | 3.81E-01 |
| 7.83E+06 | 3.88E-01 | 8.17E+11 | 1.77E-03 | 8.01E+06 | 3.79E-01 |
| 7.84E+06 | 3.85E-01 | 8.18E+11 | 1.76E-03 | 8.02E+06 | 3.77E-01 |
| 7.84E+06 | 3.85E-01 | 8.19E+11 | 1.75E-03 | 8.03E+06 | 3.75E-01 |
| 7.85E+06 | 3.83E-01 | 8.20E+11 | 1.74E-03 | 8.04E+06 | 3.73E-01 |
| 7.85E+06 | 3.81E-01 | 8.21E+11 | 1.73E-03 | 8.04E+06 | 3.70E-01 |
| 7.86E+06 | 3.79E-01 | 8.22E+11 | 1.72E-03 | 8.05E+06 | 3.68E-01 |
| 7.87E+06 | 3.76E-01 | 8.23E+11 | 1.71E-03 | 8.06E+06 | 3.66E-01 |
| 7.88E+06 | 3.74E-01 | 8.23E+11 | 1.71E-03 | 8.07E+06 | 3.66E-01 |
| 7.89E+06 | 3.72E-01 | 8.24E+11 | 1.70E-03 | 8.08E+06 | 3.64E-01 |
| 7.90E+06 | 3.70E-01 | 8.25E+11 | 1.69E-03 | 8.08E+06 | 3.61E-01 |
| 7.91E+06 | 3.68E-01 | 8.26E+11 | 1.68E-03 | 8.09E+06 | 3.59E-01 |
| 7.92E+06 | 3.66E-01 | 8.27E+11 | 1.67E-03 | 8.10E+06 | 3.57E-01 |
| 7.93E+06 | 3.64E-01 | 8.28E+11 | 1.66E-03 | 8.12E+06 | 3.55E-01 |
| 7.93E+06 | 3.61E-01 | 8.29E+11 | 1.65E-03 | 8.13E+06 | 3.53E-01 |
| 7.94E+06 | 3.61E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 | 3.51E-01 |
| 7.94E+06 | 3.59E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 | 3.51E-01 |
| 7.95E+06 | 3.57E-01 | 8.31E+11 | 1.63E-03 | 8.14E+06 | 3.49E-01 |
| 7.96E+06 | 3.54E-01 | 8.32E+11 | 1.62E-03 | 8.15E+06 | 3.46E-01 |
| 7.97E+06 | 3.52E-01 | 8.33E+11 | 1.61E-03 | 8.17E+06 | 3.44E-01 |
| 7.98E+06 | 3.50E-01 | 8.34E+11 | 1.60E-03 | 8.18E+06 | 3.42E-01 |
| 7.99E+06 | 3.48E-01 | 8.35E+11 | 1.59E-03 | 8.19E+06 | 3.40E-01 |
| 8.00E+06 | 3.46E-01 | 8.36E+11 | 1.58E-03 | 8.20E+06 | 3.38E-01 |
| 8.01E+06 | 3.44E-01 | 8.38E+11 | 1.57E-03 | 8.21E+06 | 3.36E-01 |
| 8.02E+06 | 3.42E-01 | 8.38E+11 | 1.56E-03 | 8.21E+06 | 3.34E-01 |
| 8.03E+06 | 3.40E-01 | 8.39E+11 | 1.55E-03 | 8.23E+06 | 3.32E-01 |
| 8.04E+06 | 3.38E-01 | 8.41E+11 | 1.54E-03 | 8.24E+06 | 3.30E-01 |
| 8.04E+06 | 3.36E-01 | 8.42E+11 | 1.53E-03 | 8.25E+06 | 3.28E-01 |
| 8.05E+06 | 3.33E-01 | 8.43E+11 | 1.52E-03 | 8.26E+06 | 3.25E-01 |
| 8.06E+06 | 3.31E-01 | 8.44E+11 | 1.51E-03 | 8.27E+06 | 3.24E-01 |
| 8.07E+06 | 3.29E-01 | 8.45E+11 | 1.50E-03 | 8.28E+06 | 3.22E-01 |
| 8.08E+06 | 3.27E-01 | 8.46E+11 | 1.49E-03 | 8.29E+06 | 3.20E-01 |
| 8.09E+06 | 3.25E-01 | 8.47E+11 | 1.48E-03 | 8.30E+06 | 3.18E-01 |
| 8.10E+06 | 3.23E-01 | 8.48E+11 | 1.47E-03 | 8.31E+06 | 3.15E-01 |
| 8.11E+06 | 3.21E-01 | 8.49E+11 | 1.46E-03 | 8.32E+06 | 3.13E-01 |
| 8.12E+06 | 3.19E-01 | 8.50E+11 | 1.45E-03 | 8.33E+06 | 3.11E-01 |
| 8.13E+06 | 3.16E-01 | 8.52E+11 | 1.44E-03 | 8.34E+06 | 3.09E-01 |
| 8.14E+06 | 3.14E-01 | 8.52E+11 | 1.44E-03 | 8.35E+06 | 3.08E-01 |
| 8.15E+06 | 3.12E-01 | 8.53E+11 | 1.43E-03 | 8.36E+06 | 3.06E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.16E+06 | 3.10E-01 | 8.55E+11 | 1.42E-03 | 8.37E+06 | 3.04E-01 |
| 8.16E+06 | 3.09E-01 | 8.56E+11 | 1.41E-03 | 8.39E+06 | 3.02E-01 |
| 8.17E+06 | 3.07E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 | 3.00E-01 |
| 8.18E+06 | 3.05E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 | 3.00E-01 |
| 8.19E+06 | 3.03E-01 | 8.59E+11 | 1.39E-03 | 8.41E+06 | 2.98E-01 |
| 8.20E+06 | 3.01E-01 | 8.60E+11 | 1.38E-03 | 8.43E+06 | 2.96E-01 |
| 8.21E+06 | 2.99E-01 | 8.61E+11 | 1.37E-03 | 8.44E+06 | 2.93E-01 |
| 8.22E+06 | 2.97E-01 | 8.63E+11 | 1.36E-03 | 8.46E+06 | 2.91E-01 |
| 8.23E+06 | 2.94E-01 | 8.64E+11 | 1.35E-03 | 8.47E+06 | 2.89E-01 |
| 8.24E+06 | 2.92E-01 | 8.66E+11 | 1.34E-03 | 8.48E+06 | 2.87E-01 |
| 8.26E+06 | 2.90E-01 | 8.66E+11 | 1.34E-03 | 8.49E+06 | 2.87E-01 |
| 8.26E+06 | 2.90E-01 | 8.67E+11 | 1.33E-03 | 8.50E+06 | 2.84E-01 |
| 8.27E+06 | 2.88E-01 | 8.69E+11 | 1.32E-03 | 8.51E+06 | 2.82E-01 |
| 8.28E+06 | 2.85E-01 | 8.70E+11 | 1.31E-03 | 8.53E+06 | 2.80E-01 |
| 8.29E+06 | 2.83E-01 | 8.71E+11 | 1.30E-03 | 8.54E+06 | 2.78E-01 |
| 8.30E+06 | 2.81E-01 | 8.72E+11 | 1.30E-03 | 8.54E+06 | 2.78E-01 |
| 8.31E+06 | 2.80E-01 | 8.73E+11 | 1.29E-03 | 8.56E+06 | 2.75E-01 |
| 8.32E+06 | 2.78E-01 | 8.75E+11 | 1.28E-03 | 8.57E+06 | 2.73E-01 |
| 8.33E+06 | 2.76E-01 | 8.76E+11 | 1.27E-03 | 8.58E+06 | 2.71E-01 |
| 8.34E+06 | 2.73E-01 | 8.78E+11 | 1.26E-03 | 8.60E+06 | 2.69E-01 |
| 8.35E+06 | 2.71E-01 | 8.79E+11 | 1.25E-03 | 8.62E+06 | 2.67E-01 |
| 8.36E+06 | 2.69E-01 | 8.79E+11 | 1.24E-03 | 8.62E+06 | 2.66E-01 |
| 8.37E+06 | 2.67E-01 | 8.81E+11 | 1.23E-03 | 8.63E+06 | 2.64E-01 |
| 8.38E+06 | 2.65E-01 | 8.82E+11 | 1.22E-03 | 8.64E+06 | 2.62E-01 |
| 8.39E+06 | 2.63E-01 | 8.83E+11 | 1.21E-03 | 8.66E+06 | 2.60E-01 |
| 8.41E+06 | 2.61E-01 | 8.85E+11 | 1.20E-03 | 8.67E+06 | 2.58E-01 |
| 8.42E+06 | 2.59E-01 | 8.86E+11 | 1.20E-03 | 8.68E+06 | 2.56E-01 |
| 8.43E+06 | 2.57E-01 | 8.87E+11 | 1.19E-03 | 8.69E+06 | 2.54E-01 |
| 8.43E+06 | 2.57E-01 | 8.89E+11 | 1.18E-03 | 8.71E+06 | 2.52E-01 |
| 8.44E+06 | 2.55E-01 | 8.90E+11 | 1.17E-03 | 8.72E+06 | 2.50E-01 |
| 8.45E+06 | 2.52E-01 | 8.91E+11 | 1.16E-03 | 8.74E+06 | 2.48E-01 |
| 8.46E+06 | 2.50E-01 | 8.93E+11 | 1.15E-03 | 8.75E+06 | 2.46E-01 |
| 8.48E+06 | 2.48E-01 | 8.94E+11 | 1.14E-03 | 8.76E+06 | 2.44E-01 |
| 8.49E+06 | 2.46E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 | 2.42E-01 |
| 8.50E+06 | 2.44E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 | 2.41E-01 |
| 8.51E+06 | 2.42E-01 | 8.97E+11 | 1.12E-03 | 8.79E+06 | 2.39E-01 |
| 8.52E+06 | 2.40E-01 | 8.98E+11 | 1.11E-03 | 8.80E+06 | 2.37E-01 |
| 8.54E+06 | 2.38E-01 | 9.00E+11 | 1.10E-03 | 8.82E+06 | 2.34E-01 |
| 8.55E+06 | 2.36E-01 | 9.02E+11 | 1.09E-03 | 8.83E+06 | 2.32E-01 |
| 8.56E+06 | 2.34E-01 | 9.03E+11 | 1.08E-03 | 8.85E+06 | 2.30E-01 |
| 8.57E+06 | 2.32E-01 | 9.04E+11 | 1.07E-03 | 8.85E+06 | 2.29E-01 |
| 8.58E+06 | 2.30E-01 | 9.05E+11 | 1.06E-03 | 8.87E+06 | 2.27E-01 |
| 8.60E+06 | 2.28E-01 | 9.07E+11 | 1.05E-03 | 8.88E+06 | 2.25E-01 |
| 8.61E+06 | 2.26E-01 | 9.07E+11 | 1.04E-03 | 8.89E+06 | 2.24E-01 |
| 8.62E+06 | 2.24E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 | 2.21E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.64E+06 | 2.22E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 | 2.21E-01 |
| 8.65E+06 | 2.19E-01 | 9.11E+11 | 1.02E-03 | 8.92E+06 | 2.19E-01 |
| 8.66E+06 | 2.17E-01 | 9.12E+11 | 1.01E-03 | 8.94E+06 | 2.17E-01 |
| 8.67E+06 | 2.17E-01 | 9.14E+11 | 1.00E-03 | 8.96E+06 | 2.15E-01 |
| 8.68E+06 | 2.15E-01 | 9.16E+11 | 9.93E-04 | 8.98E+06 | 2.13E-01 |
| 8.70E+06 | 2.12E-01 | 9.19E+11 | 9.83E-04 | 9.01E+06 | 2.10E-01 |
| 8.71E+06 | 2.10E-01 | 9.20E+11 | 9.79E-04 | 9.02E+06 | 2.10E-01 |
| 8.73E+06 | 2.08E-01 | 9.23E+11 | 9.69E-04 | 9.05E+06 | 2.07E-01 |
| 8.74E+06 | 2.06E-01 | 9.24E+11 | 9.65E-04 | 9.06E+06 | 2.07E-01 |
| 8.76E+06 | 2.04E-01 | 9.27E+11 | 9.57E-04 | 9.09E+06 | 2.05E-01 |
| 8.78E+06 | 2.02E-01 | 9.29E+11 | 9.53E-04 | 9.11E+06 | 2.04E-01 |
| 8.78E+06 | 2.01E-01 | 9.40E+11 | 9.43E-04 | 9.21E+06 | 2.02E-01 |
| 8.79E+06 | 1.99E-01 | 9.53E+11 | 9.33E-04 | 9.34E+06 | 2.00E-01 |
| 8.80E+06 | 1.97E-01 | 9.54E+11 | 9.33E-04 | 9.35E+06 | 2.00E-01 |
| 8.82E+06 | 1.95E-01 | 9.65E+11 | 9.23E-04 | 9.45E+06 | 1.98E-01 |
| 8.84E+06 | 1.93E-01 | 9.66E+11 | 9.20E-04 | 9.47E+06 | 1.97E-01 |
| 8.84E+06 | 1.92E-01 | 9.66E+11 | 9.10E-04 | 9.46E+06 | 1.95E-01 |
| 8.86E+06 | 1.90E-01 | 9.65E+11 | 9.00E-04 | 9.46E+06 | 1.93E-01 |
| 8.88E+06 | 1.87E-01 | 9.65E+11 | 8.94E-04 | 9.46E+06 | 1.91E-01 |
| 8.88E+06 | 1.87E-01 | 9.64E+11 | 8.84E-04 | 9.45E+06 | 1.89E-01 |
| 8.90E+06 | 1.84E-01 | 9.63E+11 | 8.74E-04 | 9.44E+06 | 1.87E-01 |
| 8.91E+06 | 1.82E-01 | 9.63E+11 | 8.69E-04 | 9.44E+06 | 1.86E-01 |
| 8.92E+06 | 1.81E-01 | 9.62E+11 | 8.59E-04 | 9.43E+06 | 1.84E-01 |
| 8.93E+06 | 1.79E-01 | 9.61E+11 | 8.49E-04 | 9.42E+06 | 1.82E-01 |
| 8.95E+06 | 1.77E-01 | 9.61E+11 | 8.48E-04 | 9.42E+06 | 1.82E-01 |
| 8.97E+06 | 1.75E-01 | 9.60E+11 | 8.38E-04 | 9.41E+06 | 1.79E-01 |
| 8.97E+06 | 1.75E-01 | 9.58E+11 | 8.28E-04 | 9.39E+06 | 1.77E-01 |
| 8.98E+06 | 1.73E-01 | 9.56E+11 | 8.18E-04 | 9.37E+06 | 1.75E-01 |
| 9.01E+06 | 1.70E-01 | 9.55E+11 | 8.10E-04 | 9.35E+06 | 1.73E-01 |
| 9.01E+06 | 1.70E-01 | 9.52E+11 | 8.00E-04 | 9.33E+06 | 1.71E-01 |
| 9.03E+06 | 1.68E-01 | 9.49E+11 | 7.90E-04 | 9.30E+06 | 1.69E-01 |
| 9.05E+06 | 1.67E-01 | 9.47E+11 | 7.82E-04 | 9.28E+06 | 1.67E-01 |
| 9.07E+06 | 1.65E-01 | 9.44E+11 | 7.72E-04 | 9.25E+06 | 1.65E-01 |
| 9.10E+06 | 1.63E-01 | 9.41E+11 | 7.62E-04 | 9.22E+06 | 1.63E-01 |
| 9.14E+06 | 1.61E-01 | 9.38E+11 | 7.52E-04 | 9.19E+06 | 1.61E-01 |
| 9.18E+06 | 1.60E-01 | 9.34E+11 | 7.42E-04 | 9.16E+06 | 1.59E-01 |
| 9.21E+06 | 1.59E-01 | 9.32E+11 | 7.36E-04 | 9.14E+06 | 1.58E-01 |
| 9.32E+06 | 1.57E-01 | 9.29E+11 | 7.26E-04 | 9.10E+06 | 1.56E-01 |
| 9.37E+06 | 1.55E-01 | 9.25E+11 | 7.16E-04 | 9.07E+06 | 1.53E-01 |
| 9.39E+06 | 1.54E-01 | 9.21E+11 | 7.06E-04 | 9.03E+06 | 1.51E-01 |
| 9.40E+06 | 1.54E-01 | 9.18E+11 | 6.98E-04 | 9.00E+06 | 1.49E-01 |
| 9.38E+06 | 1.52E-01 | 9.16E+11 | 6.93E-04 | 8.98E+06 | 1.48E-01 |
| 9.36E+06 | 1.50E-01 | 9.12E+11 | 6.83E-04 | 8.94E+06 | 1.46E-01 |
| 9.32E+06 | 1.48E-01 | 9.08E+11 | 6.73E-04 | 8.90E+06 | 1.44E-01 |
| 9.32E+06 | 1.47E-01 | 9.05E+11 | 6.67E-04 | 8.87E+06 | 1.43E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.28E+06 | 1.45E-01 | 9.03E+11 | 6.62E-04 | 8.85E+06 | 1.42E-01 |
| 9.24E+06 | 1.43E-01 | 9.00E+11 | 6.57E-04 | 8.82E+06 | 1.41E-01 |
| 9.21E+06 | 1.42E-01 | 8.96E+11 | 6.48E-04 | 8.78E+06 | 1.39E-01 |
| 9.17E+06 | 1.41E-01 | 8.92E+11 | 6.40E-04 | 8.74E+06 | 1.37E-01 |
| 9.12E+06 | 1.39E-01 | 8.90E+11 | 6.35E-04 | 8.72E+06 | 1.36E-01 |
| 9.02E+06 | 1.38E-01 | 8.86E+11 | 6.30E-04 | 8.69E+06 | 1.35E-01 |
| 8.98E+06 | 1.37E-01 | 8.82E+11 | 6.25E-04 | 8.65E+06 | 1.34E-01 |
| 8.84E+06 | 1.35E-01 | 8.75E+11 | 6.16E-04 | 8.57E+06 | 1.32E-01 |
| 8.70E+06 | 1.33E-01 | 8.67E+11 | 6.10E-04 | 8.50E+06 | 1.31E-01 |
| 8.56E+06 | 1.31E-01 | 8.60E+11 | 6.03E-04 | 8.43E+06 | 1.29E-01 |
| 8.42E+06 | 1.28E-01 | 8.51E+11 | 5.97E-04 | 8.34E+06 | 1.28E-01 |
| 8.28E+06 | 1.26E-01 | 8.41E+11 | 5.90E-04 | 8.25E+06 | 1.26E-01 |
| 8.14E+06 | 1.24E-01 | 8.27E+11 | 5.80E-04 | 8.11E+06 | 1.24E-01 |
| 8.00E+06 | 1.22E-01 | 8.13E+11 | 5.70E-04 | 7.97E+06 | 1.22E-01 |
| 7.86E+06 | 1.20E-01 | 7.99E+11 | 5.60E-04 | 7.83E+06 | 1.20E-01 |
| 7.72E+06 | 1.18E-01 | 7.84E+11 | 5.50E-04 | 7.69E+06 | 1.18E-01 |
| 7.58E+06 | 1.16E-01 | 7.70E+11 | 5.40E-04 | 7.55E+06 | 1.16E-01 |
| 7.44E+06 | 1.13E-01 | 7.56E+11 | 5.30E-04 | 7.41E+06 | 1.13E-01 |
| 7.30E+06 | 1.11E-01 | 7.42E+11 | 5.20E-04 | 7.27E+06 | 1.11E-01 |
| 7.16E+06 | 1.09E-01 | 7.27E+11 | 5.10E-04 | 7.13E+06 | 1.09E-01 |
| 7.02E+06 | 1.07E-01 | 7.13E+11 | 5.00E-04 | 6.99E+06 | 1.07E-01 |
| 6.88E+06 | 1.05E-01 | 6.99E+11 | 4.90E-04 | 6.85E+06 | 1.05E-01 |
| 6.74E+06 | 1.03E-01 | 6.85E+11 | 4.80E-04 | 6.71E+06 | 1.03E-01 |
| 6.60E+06 | 1.01E-01 | 6.70E+11 | 4.70E-04 | 6.57E+06 | 1.01E-01 |
| 6.46E+06 | 9.85E-02 | 6.56E+11 | 4.60E-04 | 6.43E+06 | 9.85E-02 |
| 6.32E+06 | 9.64E-02 | 6.42E+11 | 4.50E-04 | 6.29E+06 | 9.64E-02 |
| 6.18E+06 | 9.42E-02 | 6.28E+11 | 4.40E-04 | 6.15E+06 | 9.42E-02 |
| 6.04E+06 | 9.21E-02 | 6.13E+11 | 4.30E-04 | 6.01E+06 | 9.21E-02 |
| 5.89E+06 | 8.99E-02 | 5.99E+11 | 4.20E-04 | 5.87E+06 | 8.99E-02 |
| 5.75E+06 | 8.78E-02 | 5.85E+11 | 4.10E-04 | 5.73E+06 | 8.78E-02 |
| 5.61E+06 | 8.57E-02 | 5.71E+11 | 4.00E-04 | 5.59E+06 | 8.57E-02 |
| 5.47E+06 | 8.35E-02 | 5.56E+11 | 3.90E-04 | 5.45E+06 | 8.35E-02 |
| 5.33E+06 | 8.14E-02 | 5.42E+11 | 3.80E-04 | 5.31E+06 | 8.14E-02 |
| 5.19E+06 | 7.92E-02 | 5.28E+11 | 3.70E-04 | 5.17E+06 | 7.92E-02 |
| 5.05E+06 | 7.71E-02 | 5.13E+11 | 3.60E-04 | 5.03E+06 | 7.71E-02 |
| 4.91E+06 | 7.49E-02 | 4.99E+11 | 3.50E-04 | 4.89E+06 | 7.49E-02 |
| 4.77E+06 | 7.28E-02 | 4.85E+11 | 3.40E-04 | 4.75E+06 | 7.28E-02 |
| 4.63E+06 | 7.07E-02 | 4.71E+11 | 3.30E-04 | 4.61E+06 | 7.07E-02 |
| 4.49E+06 | 6.85E-02 | 4.56E+11 | 3.20E-04 | 4.47E+06 | 6.85E-02 |
| 4.35E+06 | 6.64E-02 | 4.42E+11 | 3.10E-04 | 4.33E+06 | 6.64E-02 |
| 4.21E+06 | 6.42E-02 | 4.28E+11 | 3.00E-04 | 4.19E+06 | 6.42E-02 |
| 4.07E+06 | 6.21E-02 | 4.14E+11 | 2.90E-04 | 4.05E+06 | 6.21E-02 |
| 3.93E+06 | 6.00E-02 | 3.99E+11 | 2.80E-04 | 3.91E+06 | 6.00E-02 |
| 3.79E+06 | 5.78E-02 | 3.85E+11 | 2.70E-04 | 3.77E+06 | 5.78E-02 |
| 3.65E+06 | 5.57E-02 | 3.71E+11 | 2.60E-04 | 3.63E+06 | 5.57E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.51E+06 | 5.35E-02 | 3.57E+11 | 2.50E-04 | 3.49E+06 | 5.35E-02 |
| 3.37E+06 | 5.14E-02 | 3.42E+11 | 2.40E-04 | 3.35E+06 | 5.14E-02 |
| 3.23E+06 | 4.93E-02 | 3.28E+11 | 2.30E-04 | 3.21E+06 | 4.93E-02 |
| 3.09E+06 | 4.71E-02 | 3.14E+11 | 2.20E-04 | 3.08E+06 | 4.71E-02 |
| 2.95E+06 | 4.50E-02 | 3.00E+11 | 2.10E-04 | 2.94E+06 | 4.50E-02 |
| 2.81E+06 | 4.28E-02 | 2.85E+11 | 2.00E-04 | 2.79E+06 | 4.28E-02 |
| 2.67E+06 | 4.07E-02 | 2.71E+11 | 1.90E-04 | 2.66E+06 | 4.07E-02 |
| 2.53E+06 | 3.85E-02 | 2.57E+11 | 1.80E-04 | 2.52E+06 | 3.85E-02 |
| 2.39E+06 | 3.64E-02 | 2.43E+11 | 1.70E-04 | 2.38E+06 | 3.64E-02 |
| 2.25E+06 | 3.43E-02 | 2.28E+11 | 1.60E-04 | 2.24E+06 | 3.43E-02 |
| 2.11E+06 | 3.21E-02 | 2.14E+11 | 1.50E-04 | 2.10E+06 | 3.21E-02 |
| 1.96E+06 | 3.00E-02 | 2.00E+11 | 1.40E-04 | 1.96E+06 | 3.00E-02 |
| 1.82E+06 | 2.78E-02 | 1.85E+11 | 1.30E-04 | 1.82E+06 | 2.78E-02 |
| 1.68E+06 | 2.57E-02 | 1.71E+11 | 1.20E-04 | 1.68E+06 | 2.57E-02 |
| 1.54E+06 | 2.36E-02 | 1.57E+11 | 1.10E-04 | 1.54E+06 | 2.36E-02 |
| 1.40E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 | 1.40E+06 | 2.14E-02 |
| 1.26E+06 | 1.93E-02 | 1.28E+11 | 9.00E-05 | 1.26E+06 | 1.93E-02 |
| 1.12E+06 | 1.71E-02 | 1.14E+11 | 8.00E-05 | 1.12E+06 | 1.71E-02 |
| 9.83E+05 | 1.50E-02 | 9.98E+10 | 7.00E-05 | 9.78E+05 | 1.50E-02 |
| 8.42E+05 | 1.28E-02 | 8.56E+10 | 6.00E-05 | 8.39E+05 | 1.28E-02 |
| 7.02E+05 | 1.07E-02 | 7.13E+10 | 5.00E-05 | 6.99E+05 | 1.07E-02 |
| 5.61E+05 | 8.57E-03 | 5.71E+10 | 4.00E-05 | 5.59E+05 | 8.57E-03 |
| 4.21E+05 | 6.42E-03 | 4.28E+10 | 3.00E-05 | 4.19E+05 | 6.42E-03 |
| 2.81E+05 | 4.28E-03 | 2.85E+10 | 2.00E-05 | 2.79E+05 | 4.28E-03 |
| 1.40E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 | 1.40E+05 | 2.14E-03 |
| 1.26E+05 | 1.93E-03 | 1.28E+10 | 9.00E-06 | 1.26E+05 | 1.93E-03 |
| 1.12E+05 | 1.71E-03 | 1.14E+10 | 8.00E-06 | 1.12E+05 | 1.71E-03 |
| 9.83E+04 | 1.50E-03 | 9.98E+09 | 7.00E-06 | 9.78E+04 | 1.50E-03 |
| 8.42E+04 | 1.28E-03 | 8.56E+09 | 6.00E-06 | 8.39E+04 | 1.28E-03 |
| 7.02E+04 | 1.07E-03 | 7.13E+09 | 5.00E-06 | 6.99E+04 | 1.07E-03 |
| 5.62E+04 | 8.57E-04 | 5.71E+09 | 4.00E-06 | 5.59E+04 | 8.57E-04 |
| 4.21E+04 | 6.42E-04 | 4.28E+09 | 3.00E-06 | 4.19E+04 | 6.42E-04 |
| 2.81E+04 | 4.28E-04 | 2.85E+09 | 2.00E-06 | 2.80E+04 | 4.28E-04 |
| 1.40E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 | 1.40E+04 | 2.14E-04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.40E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 | -1.40E+04 | -2.14E-04 |
| -2.81E+04 | -4.28E-04 | -2.85E+09 | -2.00E-06 | -2.80E+04 | -4.28E-04 |
| -4.21E+04 | -6.42E-04 | -4.28E+09 | -3.00E-06 | -4.19E+04 | -6.42E-04 |
| -5.62E+04 | -8.57E-04 | -5.70E+09 | -4.00E-06 | -5.59E+04 | -8.57E-04 |
| -7.02E+04 | -1.07E-03 | -7.13E+09 | -5.00E-06 | -6.99E+04 | -1.07E-03 |
| -8.42E+04 | -1.28E-03 | -8.56E+09 | -6.00E-06 | -8.38E+04 | -1.28E-03 |
| -9.83E+04 | -1.50E-03 | -9.98E+09 | -7.00E-06 | -9.78E+04 | -1.50E-03 |
| -1.12E+05 | -1.71E-03 | -1.14E+10 | -8.00E-06 | -1.12E+05 | -1.71E-03 |
| -1.26E+05 | -1.93E-03 | -1.28E+10 | -9.00E-06 | -1.26E+05 | -1.93E-03 |
| -1.40E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 | -1.40E+05 | -2.14E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.81E+05 | -4.28E-03 | -2.85E+10 | -2.00E-05 | -2.79E+05 | -4.28E-03 |
| -4.21E+05 | -6.42E-03 | -4.28E+10 | -3.00E-05 | -4.19E+05 | -6.42E-03 |
| -5.61E+05 | -8.57E-03 | -5.70E+10 | -4.00E-05 | -5.59E+05 | -8.57E-03 |
| -7.02E+05 | -1.07E-02 | -7.13E+10 | -5.00E-05 | -6.99E+05 | -1.07E-02 |
| -8.42E+05 | -1.28E-02 | -8.56E+10 | -6.00E-05 | -8.38E+05 | -1.28E-02 |
| -9.83E+05 | -1.50E-02 | -9.98E+10 | -7.00E-05 | -9.78E+05 | -1.50E-02 |
| -1.12E+06 | -1.71E-02 | -1.14E+11 | -8.00E-05 | -1.12E+06 | -1.71E-02 |
| -1.26E+06 | -1.93E-02 | -1.28E+11 | -9.00E-05 | -1.26E+06 | -1.93E-02 |
| -1.40E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 | -1.40E+06 | -2.14E-02 |
| -1.54E+06 | -2.36E-02 | -1.57E+11 | -1.10E-04 | -1.54E+06 | -2.36E-02 |
| -1.68E+06 | -2.57E-02 | -1.71E+11 | -1.20E-04 | -1.68E+06 | -2.57E-02 |
| -1.82E+06 | -2.78E-02 | -1.85E+11 | -1.30E-04 | -1.82E+06 | -2.78E-02 |
| -1.96E+06 | -3.00E-02 | -2.00E+11 | -1.40E-04 | -1.96E+06 | -3.00E-02 |
| -2.11E+06 | -3.21E-02 | -2.14E+11 | -1.50E-04 | -2.10E+06 | -3.21E-02 |
| -2.25E+06 | -3.43E-02 | -2.28E+11 | -1.60E-04 | -2.24E+06 | -3.43E-02 |
| -2.39E+06 | -3.64E-02 | -2.42E+11 | -1.70E-04 | -2.38E+06 | -3.64E-02 |
| -2.53E+06 | -3.85E-02 | -2.57E+11 | -1.80E-04 | -2.51E+06 | -3.85E-02 |
| -2.67E+06 | -4.07E-02 | -2.71E+11 | -1.90E-04 | -2.65E+06 | -4.07E-02 |
| -2.81E+06 | -4.28E-02 | -2.85E+11 | -2.00E-04 | -2.79E+06 | -4.28E-02 |
| -2.95E+06 | -4.50E-02 | -2.99E+11 | -2.10E-04 | -2.93E+06 | -4.50E-02 |
| -3.09E+06 | -4.71E-02 | -3.14E+11 | -2.20E-04 | -3.07E+06 | -4.71E-02 |
| -3.23E+06 | -4.93E-02 | -3.28E+11 | -2.30E-04 | -3.21E+06 | -4.93E-02 |
| -3.37E+06 | -5.14E-02 | -3.42E+11 | -2.40E-04 | -3.35E+06 | -5.14E-02 |
| -3.51E+06 | -5.35E-02 | -3.56E+11 | -2.50E-04 | -3.49E+06 | -5.35E-02 |
| -3.65E+06 | -5.57E-02 | -3.71E+11 | -2.60E-04 | -3.63E+06 | -5.57E-02 |
| -3.79E+06 | -5.78E-02 | -3.85E+11 | -2.70E-04 | -3.77E+06 | -5.78E-02 |
| -3.93E+06 | -6.00E-02 | -3.99E+11 | -2.80E-04 | -3.91E+06 | -6.00E-02 |
| -4.07E+06 | -6.21E-02 | -4.14E+11 | -2.90E-04 | -4.05E+06 | -6.21E-02 |
| -4.21E+06 | -6.42E-02 | -4.28E+11 | -3.00E-04 | -4.19E+06 | -6.42E-02 |
| -4.35E+06 | -6.64E-02 | -4.42E+11 | -3.10E-04 | -4.33E+06 | -6.64E-02 |
| -4.49E+06 | -6.85E-02 | -4.56E+11 | -3.20E-04 | -4.47E+06 | -6.85E-02 |
| -4.63E+06 | -7.07E-02 | -4.71E+11 | -3.30E-04 | -4.61E+06 | -7.07E-02 |
| -4.77E+06 | -7.28E-02 | -4.85E+11 | -3.40E-04 | -4.75E+06 | -7.28E-02 |
| -4.91E+06 | -7.49E-02 | -4.99E+11 | -3.50E-04 | -4.89E+06 | -7.49E-02 |
| -5.05E+06 | -7.71E-02 | -5.13E+11 | -3.60E-04 | -5.03E+06 | -7.71E-02 |
| -5.19E+06 | -7.92E-02 | -5.28E+11 | -3.70E-04 | -5.17E+06 | -7.92E-02 |
| -5.33E+06 | -8.14E-02 | -5.42E+11 | -3.80E-04 | -5.31E+06 | -8.14E-02 |
| -5.47E+06 | -8.35E-02 | -5.56E+11 | -3.90E-04 | -5.45E+06 | -8.35E-02 |
| -5.61E+06 | -8.57E-02 | -5.70E+11 | -4.00E-04 | -5.59E+06 | -8.57E-02 |
| -5.75E+06 | -8.78E-02 | -5.85E+11 | -4.10E-04 | -5.73E+06 | -8.78E-02 |
| -5.89E+06 | -8.99E-02 | -5.99E+11 | -4.20E-04 | -5.87E+06 | -8.99E-02 |
| -6.03E+06 | -9.21E-02 | -6.13E+11 | -4.30E-04 | -6.01E+06 | -9.21E-02 |
| -6.17E+06 | -9.42E-02 | -6.27E+11 | -4.40E-04 | -6.15E+06 | -9.42E-02 |
| -6.32E+06 | -9.64E-02 | -6.42E+11 | -4.50E-04 | -6.29E+06 | -9.64E-02 |
| -6.46E+06 | -9.85E-02 | -6.56E+11 | -4.60E-04 | -6.43E+06 | -9.85E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.60E+06 | -1.01E-01 | -6.70E+11 | -4.70E-04 | -6.57E+06 | -1.01E-01 |
| -6.74E+06 | -1.03E-01 | -6.84E+11 | -4.80E-04 | -6.71E+06 | -1.03E-01 |
| -6.88E+06 | -1.05E-01 | -6.99E+11 | -4.90E-04 | -6.85E+06 | -1.05E-01 |
| -7.02E+06 | -1.07E-01 | -7.13E+11 | -5.00E-04 | -6.99E+06 | -1.07E-01 |
| -7.16E+06 | -1.09E-01 | -7.27E+11 | -5.10E-04 | -7.12E+06 | -1.09E-01 |
| -7.30E+06 | -1.11E-01 | -7.41E+11 | -5.20E-04 | -7.26E+06 | -1.11E-01 |
| -7.44E+06 | -1.13E-01 | -7.56E+11 | -5.30E-04 | -7.40E+06 | -1.13E-01 |
| -7.58E+06 | -1.16E-01 | -7.70E+11 | -5.40E-04 | -7.54E+06 | -1.16E-01 |
| -7.72E+06 | -1.18E-01 | -7.84E+11 | -5.50E-04 | -7.68E+06 | -1.18E-01 |
| -7.86E+06 | -1.20E-01 | -7.91E+11 | -5.55E-04 | -7.75E+06 | -1.19E-01 |
| -8.00E+06 | -1.22E-01 | -8.04E+11 | -5.65E-04 | -7.88E+06 | -1.21E-01 |
| -8.14E+06 | -1.24E-01 | -8.14E+11 | -5.73E-04 | -7.98E+06 | -1.23E-01 |
| -8.28E+06 | -1.26E-01 | -8.20E+11 | -5.78E-04 | -8.04E+06 | -1.24E-01 |
| -8.39E+06 | -1.28E-01 | -8.26E+11 | -5.84E-04 | -8.09E+06 | -1.25E-01 |
| -8.53E+06 | -1.30E-01 | -8.30E+11 | -5.90E-04 | -8.13E+06 | -1.26E-01 |
| -8.64E+06 | -1.32E-01 | -8.33E+11 | -5.95E-04 | -8.16E+06 | -1.27E-01 |
| -8.72E+06 | -1.34E-01 | -8.35E+11 | -6.01E-04 | -8.18E+06 | -1.29E-01 |
| -8.77E+06 | -1.35E-01 | -8.35E+11 | -6.05E-04 | -8.18E+06 | -1.30E-01 |
| -8.82E+06 | -1.36E-01 | -8.35E+11 | -6.15E-04 | -8.18E+06 | -1.32E-01 |
| -8.87E+06 | -1.37E-01 | -8.35E+11 | -6.21E-04 | -8.18E+06 | -1.33E-01 |
| -8.90E+06 | -1.39E-01 | -8.35E+11 | -6.25E-04 | -8.18E+06 | -1.34E-01 |
| -8.92E+06 | -1.40E-01 | -8.35E+11 | -6.30E-04 | -8.18E+06 | -1.35E-01 |
| -8.93E+06 | -1.41E-01 | -8.34E+11 | -6.37E-04 | -8.18E+06 | -1.36E-01 |
| -8.95E+06 | -1.43E-01 | -8.34E+11 | -6.41E-04 | -8.17E+06 | -1.37E-01 |
| -8.96E+06 | -1.44E-01 | -8.33E+11 | -6.46E-04 | -8.17E+06 | -1.38E-01 |
| -8.97E+06 | -1.46E-01 | -8.32E+11 | -6.51E-04 | -8.16E+06 | -1.39E-01 |
| -8.97E+06 | -1.47E-01 | -8.29E+11 | -6.61E-04 | -8.13E+06 | -1.41E-01 |
| -8.97E+06 | -1.48E-01 | -8.24E+11 | -6.71E-04 | -8.08E+06 | -1.44E-01 |
| -8.98E+06 | -1.49E-01 | -8.16E+11 | -6.81E-04 | -8.00E+06 | -1.46E-01 |
| -8.97E+06 | -1.50E-01 | -8.14E+11 | -6.83E-04 | -7.97E+06 | -1.46E-01 |
| -8.97E+06 | -1.51E-01 | -8.00E+11 | -6.92E-04 | -7.84E+06 | -1.48E-01 |
| -8.96E+06 | -1.53E-01 | -7.82E+11 | -7.02E-04 | -7.66E+06 | -1.50E-01 |
| -8.92E+06 | -1.55E-01 | -7.73E+11 | -7.08E-04 | -7.57E+06 | -1.51E-01 |
| -8.87E+06 | -1.57E-01 | -7.58E+11 | -7.18E-04 | -7.43E+06 | -1.54E-01 |
| -8.78E+06 | -1.59E-01 | -7.57E+11 | -7.18E-04 | -7.42E+06 | -1.54E-01 |
| -8.76E+06 | -1.60E-01 | -7.46E+11 | -7.28E-04 | -7.31E+06 | -1.56E-01 |
| -8.62E+06 | -1.62E-01 | -7.37E+11 | -7.37E-04 | -7.22E+06 | -1.58E-01 |
| -8.59E+06 | -1.62E-01 | -7.30E+11 | -7.47E-04 | -7.15E+06 | -1.60E-01 |
| -8.44E+06 | -1.64E-01 | -7.27E+11 | -7.52E-04 | -7.12E+06 | -1.61E-01 |
| -8.35E+06 | -1.66E-01 | -7.20E+11 | -7.62E-04 | -7.06E+06 | -1.63E-01 |
| -8.25E+06 | -1.68E-01 | -7.15E+11 | -7.72E-04 | -7.00E+06 | -1.65E-01 |
| -8.20E+06 | -1.69E-01 | -7.13E+11 | -7.75E-04 | -6.99E+06 | -1.66E-01 |
| -8.12E+06 | -1.71E-01 | -7.08E+11 | -7.85E-04 | -6.94E+06 | -1.68E-01 |
| -8.06E+06 | -1.73E-01 | -7.03E+11 | -7.95E-04 | -6.89E+06 | -1.70E-01 |
| -8.06E+06 | -1.74E-01 | -6.99E+11 | -8.05E-04 | -6.85E+06 | -1.72E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.00E+06 | -1.76E-01 | -6.98E+11 | -8.07E-04 | -6.84E+06 | -1.73E-01 |
| -7.95E+06 | -1.78E-01 | -6.93E+11 | -8.17E-04 | -6.79E+06 | -1.75E-01 |
| -7.95E+06 | -1.78E-01 | -6.92E+11 | -8.20E-04 | -6.78E+06 | -1.76E-01 |
| -7.91E+06 | -1.80E-01 | -6.88E+11 | -8.30E-04 | -6.74E+06 | -1.78E-01 |
| -7.87E+06 | -1.82E-01 | -6.84E+11 | -8.40E-04 | -6.70E+06 | -1.80E-01 |
| -7.85E+06 | -1.83E-01 | -6.80E+11 | -8.50E-04 | -6.66E+06 | -1.82E-01 |
| -7.81E+06 | -1.85E-01 | -6.77E+11 | -8.59E-04 | -6.63E+06 | -1.84E-01 |
| -7.77E+06 | -1.87E-01 | -6.73E+11 | -8.69E-04 | -6.60E+06 | -1.86E-01 |
| -7.74E+06 | -1.89E-01 | -6.73E+11 | -8.70E-04 | -6.59E+06 | -1.86E-01 |
| -7.70E+06 | -1.91E-01 | -6.69E+11 | -8.80E-04 | -6.56E+06 | -1.88E-01 |
| -7.68E+06 | -1.93E-01 | -6.66E+11 | -8.90E-04 | -6.53E+06 | -1.91E-01 |
| -7.65E+06 | -1.95E-01 | -6.63E+11 | -9.00E-04 | -6.49E+06 | -1.93E-01 |
| -7.62E+06 | -1.97E-01 | -6.59E+11 | -9.10E-04 | -6.46E+06 | -1.95E-01 |
| -7.59E+06 | -1.99E-01 | -6.56E+11 | -9.20E-04 | -6.43E+06 | -1.97E-01 |
| -7.55E+06 | -2.01E-01 | -6.56E+11 | -9.21E-04 | -6.43E+06 | -1.97E-01 |
| -7.52E+06 | -2.03E-01 | -6.53E+11 | -9.31E-04 | -6.40E+06 | -1.99E-01 |
| -7.50E+06 | -2.05E-01 | -6.52E+11 | -9.34E-04 | -6.39E+06 | -2.00E-01 |
| -7.49E+06 | -2.06E-01 | -6.49E+11 | -9.44E-04 | -6.36E+06 | -2.02E-01 |
| -7.45E+06 | -2.08E-01 | -6.46E+11 | -9.54E-04 | -6.33E+06 | -2.04E-01 |
| -7.42E+06 | -2.10E-01 | -6.43E+11 | -9.64E-04 | -6.30E+06 | -2.06E-01 |
| -7.39E+06 | -2.12E-01 | -6.40E+11 | -9.74E-04 | -6.27E+06 | -2.09E-01 |
| -7.36E+06 | -2.15E-01 | -6.37E+11 | -9.84E-04 | -6.24E+06 | -2.11E-01 |
| -7.34E+06 | -2.17E-01 | -6.34E+11 | -9.94E-04 | -6.21E+06 | -2.13E-01 |
| -7.31E+06 | -2.19E-01 | -6.32E+11 | -1.00E-03 | -6.20E+06 | -2.14E-01 |
| -7.28E+06 | -2.21E-01 | -6.29E+11 | -1.01E-03 | -6.17E+06 | -2.16E-01 |
| -7.28E+06 | -2.21E-01 | -6.26E+11 | -1.02E-03 | -6.14E+06 | -2.18E-01 |
| -7.26E+06 | -2.23E-01 | -6.23E+11 | -1.03E-03 | -6.11E+06 | -2.21E-01 |
| -7.23E+06 | -2.25E-01 | -6.20E+11 | -1.04E-03 | -6.08E+06 | -2.23E-01 |
| -7.21E+06 | -2.27E-01 | -6.18E+11 | -1.05E-03 | -6.05E+06 | -2.25E-01 |
| -7.18E+06 | -2.29E-01 | -6.15E+11 | -1.06E-03 | -6.03E+06 | -2.27E-01 |
| -7.15E+06 | -2.31E-01 | -6.12E+11 | -1.07E-03 | -6.00E+06 | -2.29E-01 |
| -7.12E+06 | -2.33E-01 | -6.11E+11 | -1.08E-03 | -5.99E+06 | -2.30E-01 |
| -7.10E+06 | -2.36E-01 | -6.09E+11 | -1.08E-03 | -5.97E+06 | -2.32E-01 |
| -7.08E+06 | -2.38E-01 | -6.06E+11 | -1.09E-03 | -5.94E+06 | -2.34E-01 |
| -7.06E+06 | -2.39E-01 | -6.04E+11 | -1.10E-03 | -5.91E+06 | -2.36E-01 |
| -7.04E+06 | -2.41E-01 | -6.01E+11 | -1.11E-03 | -5.89E+06 | -2.39E-01 |
| -7.03E+06 | -2.42E-01 | -5.98E+11 | -1.12E-03 | -5.86E+06 | -2.41E-01 |
| -7.01E+06 | -2.44E-01 | -5.96E+11 | -1.13E-03 | -5.84E+06 | -2.43E-01 |
| -6.98E+06 | -2.46E-01 | -5.93E+11 | -1.14E-03 | -5.81E+06 | -2.45E-01 |
| -6.95E+06 | -2.48E-01 | -5.91E+11 | -1.15E-03 | -5.79E+06 | -2.47E-01 |
| -6.93E+06 | -2.50E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 | -2.49E-01 |
| -6.90E+06 | -2.52E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 | -2.49E-01 |
| -6.88E+06 | -2.54E-01 | -5.86E+11 | -1.17E-03 | -5.74E+06 | -2.51E-01 |
| -6.86E+06 | -2.57E-01 | -5.84E+11 | -1.18E-03 | -5.73E+06 | -2.53E-01 |
| -6.84E+06 | -2.58E-01 | -5.82E+11 | -1.19E-03 | -5.70E+06 | -2.55E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.82E+06 | -2.60E-01 | -5.80E+11 | -1.20E-03 | -5.68E+06 | -2.57E-01 |
| -6.79E+06 | -2.62E-01 | -5.77E+11 | -1.21E-03 | -5.66E+06 | -2.59E-01 |
| -6.77E+06 | -2.64E-01 | -5.75E+11 | -1.22E-03 | -5.63E+06 | -2.61E-01 |
| -6.74E+06 | -2.66E-01 | -5.73E+11 | -1.23E-03 | -5.61E+06 | -2.63E-01 |
| -6.72E+06 | -2.69E-01 | -5.70E+11 | -1.24E-03 | -5.59E+06 | -2.66E-01 |
| -6.70E+06 | -2.71E-01 | -5.68E+11 | -1.25E-03 | -5.57E+06 | -2.68E-01 |
| -6.67E+06 | -2.73E-01 | -5.66E+11 | -1.26E-03 | -5.55E+06 | -2.70E-01 |
| -6.65E+06 | -2.75E-01 | -5.66E+11 | -1.26E-03 | -5.54E+06 | -2.70E-01 |
| -6.63E+06 | -2.77E-01 | -5.64E+11 | -1.27E-03 | -5.52E+06 | -2.72E-01 |
| -6.61E+06 | -2.79E-01 | -5.62E+11 | -1.28E-03 | -5.50E+06 | -2.75E-01 |
| -6.60E+06 | -2.80E-01 | -5.59E+11 | -1.29E-03 | -5.48E+06 | -2.77E-01 |
| -6.58E+06 | -2.82E-01 | -5.57E+11 | -1.30E-03 | -5.46E+06 | -2.79E-01 |
| -6.56E+06 | -2.84E-01 | -5.56E+11 | -1.31E-03 | -5.45E+06 | -2.80E-01 |
| -6.54E+06 | -2.86E-01 | -5.54E+11 | -1.32E-03 | -5.43E+06 | -2.82E-01 |
| -6.51E+06 | -2.88E-01 | -5.52E+11 | -1.33E-03 | -5.41E+06 | -2.84E-01 |
| -6.49E+06 | -2.90E-01 | -5.50E+11 | -1.34E-03 | -5.39E+06 | -2.87E-01 |
| -6.47E+06 | -2.93E-01 | -5.48E+11 | -1.35E-03 | -5.37E+06 | -2.89E-01 |
| -6.45E+06 | -2.95E-01 | -5.46E+11 | -1.36E-03 | -5.35E+06 | -2.91E-01 |
| -6.43E+06 | -2.97E-01 | -5.44E+11 | -1.37E-03 | -5.33E+06 | -2.93E-01 |
| -6.41E+06 | -2.99E-01 | -5.42E+11 | -1.38E-03 | -5.31E+06 | -2.95E-01 |
| -6.39E+06 | -3.01E-01 | -5.41E+11 | -1.39E-03 | -5.30E+06 | -2.97E-01 |
| -6.37E+06 | -3.03E-01 | -5.39E+11 | -1.40E-03 | -5.28E+06 | -2.99E-01 |
| -6.36E+06 | -3.04E-01 | -5.37E+11 | -1.41E-03 | -5.26E+06 | -3.01E-01 |
| -6.34E+06 | -3.06E-01 | -5.35E+11 | -1.42E-03 | -5.24E+06 | -3.03E-01 |
| -6.32E+06 | -3.08E-01 | -5.33E+11 | -1.43E-03 | -5.23E+06 | -3.05E-01 |
| -6.30E+06 | -3.10E-01 | -5.32E+11 | -1.44E-03 | -5.21E+06 | -3.07E-01 |
| -6.28E+06 | -3.13E-01 | -5.30E+11 | -1.45E-03 | -5.19E+06 | -3.10E-01 |
| -6.26E+06 | -3.15E-01 | -5.28E+11 | -1.46E-03 | -5.18E+06 | -3.12E-01 |
| -6.24E+06 | -3.17E-01 | -5.27E+11 | -1.47E-03 | -5.16E+06 | -3.14E-01 |
| -6.24E+06 | -3.18E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 | -3.16E-01 |
| -6.22E+06 | -3.20E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 | -3.16E-01 |
| -6.20E+06 | -3.22E-01 | -5.23E+11 | -1.49E-03 | -5.12E+06 | -3.19E-01 |
| -6.18E+06 | -3.24E-01 | -5.21E+11 | -1.50E-03 | -5.11E+06 | -3.21E-01 |
| -6.17E+06 | -3.26E-01 | -5.20E+11 | -1.51E-03 | -5.09E+06 | -3.23E-01 |
| -6.15E+06 | -3.28E-01 | -5.18E+11 | -1.52E-03 | -5.08E+06 | -3.25E-01 |
| -6.13E+06 | -3.30E-01 | -5.16E+11 | -1.53E-03 | -5.06E+06 | -3.27E-01 |
| -6.11E+06 | -3.33E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 | -3.29E-01 |
| -6.10E+06 | -3.34E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 | -3.30E-01 |
| -6.08E+06 | -3.37E-01 | -5.13E+11 | -1.55E-03 | -5.03E+06 | -3.32E-01 |
| -6.06E+06 | -3.39E-01 | -5.11E+11 | -1.56E-03 | -5.01E+06 | -3.34E-01 |
| -6.04E+06 | -3.41E-01 | -5.10E+11 | -1.57E-03 | -5.00E+06 | -3.36E-01 |
| -6.03E+06 | -3.43E-01 | -5.08E+11 | -1.58E-03 | -4.98E+06 | -3.38E-01 |
| -6.01E+06 | -3.45E-01 | -5.07E+11 | -1.59E-03 | -4.97E+06 | -3.40E-01 |
| -5.99E+06 | -3.47E-01 | -5.05E+11 | -1.60E-03 | -4.95E+06 | -3.42E-01 |
| -5.98E+06 | -3.49E-01 | -5.04E+11 | -1.61E-03 | -4.94E+06 | -3.45E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.96E+06 | -3.52E-01 | -5.02E+11 | -1.62E-03 | -4.92E+06 | -3.47E-01 |
| -5.94E+06 | -3.54E-01 | -5.01E+11 | -1.63E-03 | -4.91E+06 | -3.49E-01 |
| -5.93E+06 | -3.56E-01 | -5.00E+11 | -1.64E-03 | -4.90E+06 | -3.51E-01 |
| -5.91E+06 | -3.58E-01 | -4.98E+11 | -1.65E-03 | -4.88E+06 | -3.53E-01 |
| -5.91E+06 | -3.59E-01 | -4.97E+11 | -1.66E-03 | -4.87E+06 | -3.55E-01 |
| -5.89E+06 | -3.61E-01 | -4.96E+11 | -1.66E-03 | -4.86E+06 | -3.56E-01 |
| -5.88E+06 | -3.63E-01 | -4.95E+11 | -1.67E-03 | -4.85E+06 | -3.58E-01 |
| -5.86E+06 | -3.65E-01 | -4.94E+11 | -1.68E-03 | -4.84E+06 | -3.60E-01 |
| -5.85E+06 | -3.67E-01 | -4.92E+11 | -1.69E-03 | -4.82E+06 | -3.62E-01 |
| -5.83E+06 | -3.69E-01 | -4.91E+11 | -1.70E-03 | -4.81E+06 | -3.64E-01 |
| -5.82E+06 | -3.72E-01 | -4.90E+11 | -1.71E-03 | -4.80E+06 | -3.67E-01 |
| -5.81E+06 | -3.72E-01 | -4.88E+11 | -1.72E-03 | -4.79E+06 | -3.69E-01 |
| -5.80E+06 | -3.74E-01 | -4.87E+11 | -1.73E-03 | -4.77E+06 | -3.71E-01 |
| -5.78E+06 | -3.76E-01 | -4.86E+11 | -1.74E-03 | -4.76E+06 | -3.73E-01 |
| -5.77E+06 | -3.78E-01 | -4.85E+11 | -1.75E-03 | -4.75E+06 | -3.75E-01 |
| -5.75E+06 | -3.81E-01 | -4.83E+11 | -1.76E-03 | -4.74E+06 | -3.77E-01 |
| -5.74E+06 | -3.83E-01 | -4.82E+11 | -1.77E-03 | -4.72E+06 | -3.79E-01 |
| -5.72E+06 | -3.85E-01 | -4.81E+11 | -1.78E-03 | -4.71E+06 | -3.81E-01 |
| -5.71E+06 | -3.87E-01 | -4.79E+11 | -1.79E-03 | -4.70E+06 | -3.84E-01 |
| -5.69E+06 | -3.89E-01 | -4.78E+11 | -1.80E-03 | -4.69E+06 | -3.86E-01 |
| -5.68E+06 | -3.91E-01 | -4.77E+11 | -1.81E-03 | -4.67E+06 | -3.88E-01 |
| -5.67E+06 | -3.93E-01 | -4.76E+11 | -1.82E-03 | -4.66E+06 | -3.90E-01 |
| -5.65E+06 | -3.96E-01 | -4.75E+11 | -1.83E-03 | -4.65E+06 | -3.92E-01 |
| -5.64E+06 | -3.98E-01 | -4.74E+11 | -1.84E-03 | -4.64E+06 | -3.94E-01 |
| -5.63E+06 | -4.00E-01 | -4.72E+11 | -1.85E-03 | -4.63E+06 | -3.96E-01 |
| -5.62E+06 | -4.02E-01 | -4.71E+11 | -1.86E-03 | -4.62E+06 | -3.99E-01 |
| -5.61E+06 | -4.03E-01 | -4.70E+11 | -1.87E-03 | -4.61E+06 | -4.01E-01 |
| -5.59E+06 | -4.06E-01 | -4.69E+11 | -1.88E-03 | -4.60E+06 | -4.03E-01 |
| -5.58E+06 | -4.08E-01 | -4.68E+11 | -1.89E-03 | -4.59E+06 | -4.05E-01 |
| -5.57E+06 | -4.10E-01 | -4.67E+11 | -1.90E-03 | -4.58E+06 | -4.07E-01 |
| -5.55E+06 | -4.12E-01 | -4.66E+11 | -1.91E-03 | -4.57E+06 | -4.09E-01 |
| -5.54E+06 | -4.14E-01 | -4.65E+11 | -1.92E-03 | -4.56E+06 | -4.11E-01 |
| -5.53E+06 | -4.16E-01 | -4.64E+11 | -1.93E-03 | -4.55E+06 | -4.13E-01 |
| -5.52E+06 | -4.18E-01 | -4.63E+11 | -1.94E-03 | -4.53E+06 | -4.15E-01 |
| -5.50E+06 | -4.20E-01 | -4.62E+11 | -1.95E-03 | -4.52E+06 | -4.18E-01 |
| -5.49E+06 | -4.22E-01 | -4.61E+11 | -1.96E-03 | -4.51E+06 | -4.20E-01 |
| -5.48E+06 | -4.25E-01 | -4.60E+11 | -1.97E-03 | -4.50E+06 | -4.22E-01 |
| -5.47E+06 | -4.27E-01 | -4.59E+11 | -1.98E-03 | -4.50E+06 | -4.24E-01 |
| -5.45E+06 | -4.29E-01 | -4.58E+11 | -1.99E-03 | -4.48E+06 | -4.26E-01 |
| -5.44E+06 | -4.31E-01 | -4.57E+11 | -2.00E-03 | -4.47E+06 | -4.28E-01 |
| -5.43E+06 | -4.33E-01 | -4.55E+11 | -2.01E-03 | -4.46E+06 | -4.30E-01 |
| -5.42E+06 | -4.35E-01 | -4.54E+11 | -2.02E-03 | -4.45E+06 | -4.32E-01 |
| -5.40E+06 | -4.37E-01 | -4.53E+11 | -2.03E-03 | -4.44E+06 | -4.34E-01 |
| -5.39E+06 | -4.40E-01 | -4.52E+11 | -2.04E-03 | -4.43E+06 | -4.37E-01 |
| -5.38E+06 | -4.42E-01 | -4.51E+11 | -2.05E-03 | -4.42E+06 | -4.39E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.37E+06 | -4.44E-01 | -4.50E+11 | -2.06E-03 | -4.41E+06 | -4.41E-01 |
| -5.36E+06 | -4.46E-01 | -4.49E+11 | -2.07E-03 | -4.40E+06 | -4.43E-01 |
| -5.35E+06 | -4.48E-01 | -4.48E+11 | -2.08E-03 | -4.39E+06 | -4.45E-01 |
| -5.34E+06 | -4.50E-01 | -4.47E+11 | -2.09E-03 | -4.38E+06 | -4.47E-01 |
| -5.33E+06 | -4.52E-01 | -4.46E+11 | -2.10E-03 | -4.37E+06 | -4.49E-01 |
| -5.32E+06 | -4.55E-01 | -4.45E+11 | -2.11E-03 | -4.36E+06 | -4.52E-01 |
| -5.30E+06 | -4.57E-01 | -4.44E+11 | -2.12E-03 | -4.36E+06 | -4.54E-01 |
| -5.29E+06 | -4.59E-01 | -4.44E+11 | -2.13E-03 | -4.35E+06 | -4.56E-01 |
| -5.29E+06 | -4.61E-01 | -4.43E+11 | -2.14E-03 | -4.34E+06 | -4.58E-01 |
| -5.28E+06 | -4.63E-01 | -4.42E+11 | -2.15E-03 | -4.33E+06 | -4.60E-01 |
| -5.26E+06 | -4.65E-01 | -4.41E+11 | -2.16E-03 | -4.32E+06 | -4.62E-01 |
| -5.25E+06 | -4.67E-01 | -4.40E+11 | -2.17E-03 | -4.31E+06 | -4.64E-01 |
| -5.24E+06 | -4.70E-01 | -4.39E+11 | -2.18E-03 | -4.30E+06 | -4.67E-01 |
| -5.23E+06 | -4.72E-01 | -4.38E+11 | -2.19E-03 | -4.30E+06 | -4.69E-01 |
| -5.22E+06 | -4.74E-01 | -4.37E+11 | -2.20E-03 | -4.29E+06 | -4.71E-01 |
| -5.21E+06 | -4.76E-01 | -4.37E+11 | -2.21E-03 | -4.28E+06 | -4.73E-01 |
| -5.20E+06 | -4.78E-01 | -4.36E+11 | -2.22E-03 | -4.27E+06 | -4.75E-01 |
| -5.19E+06 | -4.80E-01 | -4.35E+11 | -2.23E-03 | -4.26E+06 | -4.77E-01 |
| -5.18E+06 | -4.82E-01 | -4.34E+11 | -2.24E-03 | -4.26E+06 | -4.79E-01 |
| -5.17E+06 | -4.84E-01 | -4.33E+11 | -2.25E-03 | -4.25E+06 | -4.81E-01 |
| -5.16E+06 | -4.86E-01 | -4.33E+11 | -2.26E-03 | -4.24E+06 | -4.83E-01 |
| -5.15E+06 | -4.88E-01 | -4.32E+11 | -2.27E-03 | -4.23E+06 | -4.85E-01 |
| -5.14E+06 | -4.91E-01 | -4.31E+11 | -2.28E-03 | -4.22E+06 | -4.87E-01 |
| -5.13E+06 | -4.93E-01 | -4.30E+11 | -2.29E-03 | -4.21E+06 | -4.90E-01 |
| -5.12E+06 | -4.95E-01 | -4.29E+11 | -2.30E-03 | -4.21E+06 | -4.92E-01 |
| -5.11E+06 | -4.97E-01 | -4.29E+11 | -2.31E-03 | -4.20E+06 | -4.94E-01 |
| -5.10E+06 | -4.99E-01 | -4.28E+11 | -2.31E-03 | -4.20E+06 | -4.94E-01 |
| -5.09E+06 | -5.01E-01 | -4.28E+11 | -2.32E-03 | -4.19E+06 | -4.96E-01 |
| -5.08E+06 | -5.03E-01 | -4.27E+11 | -2.33E-03 | -4.18E+06 | -4.99E-01 |
| -5.07E+06 | -5.06E-01 | -4.26E+11 | -2.34E-03 | -4.17E+06 | -5.01E-01 |
| -5.06E+06 | -5.08E-01 | -4.25E+11 | -2.35E-03 | -4.17E+06 | -5.02E-01 |
| -5.06E+06 | -5.10E-01 | -4.25E+11 | -2.36E-03 | -4.16E+06 | -5.04E-01 |
| -5.05E+06 | -5.12E-01 | -4.24E+11 | -2.37E-03 | -4.15E+06 | -5.06E-01 |
| -5.04E+06 | -5.14E-01 | -4.23E+11 | -2.38E-03 | -4.14E+06 | -5.09E-01 |
| -5.03E+06 | -5.16E-01 | -4.22E+11 | -2.39E-03 | -4.13E+06 | -5.11E-01 |
| -5.02E+06 | -5.18E-01 | -4.21E+11 | -2.40E-03 | -4.13E+06 | -5.13E-01 |
| -5.01E+06 | -5.21E-01 | -4.20E+11 | -2.41E-03 | -4.12E+06 | -5.15E-01 |
| -5.00E+06 | -5.23E-01 | -4.19E+11 | -2.42E-03 | -4.11E+06 | -5.17E-01 |
| -5.00E+06 | -5.25E-01 | -4.19E+11 | -2.43E-03 | -4.10E+06 | -5.19E-01 |
| -4.99E+06 | -5.27E-01 | -4.18E+11 | -2.44E-03 | -4.09E+06 | -5.21E-01 |
| -4.98E+06 | -5.29E-01 | -4.17E+11 | -2.45E-03 | -4.09E+06 | -5.24E-01 |
| -4.97E+06 | -5.31E-01 | -4.16E+11 | -2.46E-03 | -4.08E+06 | -5.26E-01 |
| -4.96E+06 | -5.33E-01 | -4.16E+11 | -2.47E-03 | -4.07E+06 | -5.28E-01 |
| -4.96E+06 | -5.36E-01 | -4.15E+11 | -2.48E-03 | -4.06E+06 | -5.30E-01 |
| -4.95E+06 | -5.37E-01 | -4.14E+11 | -2.49E-03 | -4.06E+06 | -5.32E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.94E+06 | -5.39E-01 | -4.13E+11 | -2.50E-03 | -4.05E+06 | -5.34E-01 |
| -4.93E+06 | -5.42E-01 | -4.13E+11 | -2.51E-03 | -4.04E+06 | -5.36E-01 |
| -4.93E+06 | -5.44E-01 | -4.12E+11 | -2.52E-03 | -4.04E+06 | -5.39E-01 |
| -4.92E+06 | -5.46E-01 | -4.11E+11 | -2.53E-03 | -4.03E+06 | -5.41E-01 |
| -4.91E+06 | -5.48E-01 | -4.11E+11 | -2.54E-03 | -4.02E+06 | -5.43E-01 |
| -4.90E+06 | -5.50E-01 | -4.10E+11 | -2.55E-03 | -4.02E+06 | -5.45E-01 |
| -4.89E+06 | -5.52E-01 | -4.09E+11 | -2.56E-03 | -4.01E+06 | -5.47E-01 |
| -4.89E+06 | -5.54E-01 | -4.09E+11 | -2.57E-03 | -4.00E+06 | -5.49E-01 |
| -4.88E+06 | -5.57E-01 | -4.08E+11 | -2.58E-03 | -4.00E+06 | -5.51E-01 |
| -4.88E+06 | -5.57E-01 | -4.07E+11 | -2.59E-03 | -3.99E+06 | -5.54E-01 |
| -4.87E+06 | -5.59E-01 | -4.07E+11 | -2.60E-03 | -3.98E+06 | -5.56E-01 |
| -4.86E+06 | -5.61E-01 | -4.06E+11 | -2.61E-03 | -3.98E+06 | -5.58E-01 |
| -4.85E+06 | -5.63E-01 | -4.05E+11 | -2.62E-03 | -3.97E+06 | -5.60E-01 |
| -4.85E+06 | -5.65E-01 | -4.05E+11 | -2.63E-03 | -3.97E+06 | -5.62E-01 |
| -4.84E+06 | -5.67E-01 | -4.04E+11 | -2.64E-03 | -3.96E+06 | -5.64E-01 |
| -4.83E+06 | -5.70E-01 | -4.03E+11 | -2.65E-03 | -3.95E+06 | -5.66E-01 |
| -4.82E+06 | -5.72E-01 | -4.03E+11 | -2.66E-03 | -3.95E+06 | -5.69E-01 |
| -4.81E+06 | -5.74E-01 | -4.02E+11 | -2.67E-03 | -3.94E+06 | -5.71E-01 |
| -4.80E+06 | -5.76E-01 | -4.02E+11 | -2.68E-03 | -3.93E+06 | -5.73E-01 |

70% kandas

| | 4670 | 9.80E-06 | 1.00E-06 |
|--------------|---------------|--------------|------------------|
| Momen | Rotasi | Momen | Curvature |
| 6.38E+11 | 2.70E-03 | 6.26E+06 | 5.78E-01 |
| 6.39E+11 | 2.69E-03 | 6.26E+06 | 5.76E-01 |
| 6.40E+11 | 2.68E-03 | 6.27E+06 | 5.73E-01 |
| 6.40E+11 | 2.67E-03 | 6.27E+06 | 5.71E-01 |
| 6.41E+11 | 2.66E-03 | 6.28E+06 | 5.69E-01 |
| 6.41E+11 | 2.65E-03 | 6.29E+06 | 5.67E-01 |
| 6.42E+11 | 2.64E-03 | 6.29E+06 | 5.65E-01 |
| 6.43E+11 | 2.63E-03 | 6.30E+06 | 5.63E-01 |
| 6.43E+11 | 2.62E-03 | 6.30E+06 | 5.61E-01 |
| 6.44E+11 | 2.61E-03 | 6.31E+06 | 5.58E-01 |
| 6.45E+11 | 2.60E-03 | 6.32E+06 | 5.56E-01 |
| 6.45E+11 | 2.59E-03 | 6.32E+06 | 5.54E-01 |
| 6.46E+11 | 2.58E-03 | 6.33E+06 | 5.52E-01 |
| 6.47E+11 | 2.57E-03 | 6.34E+06 | 5.50E-01 |
| 6.47E+11 | 2.56E-03 | 6.34E+06 | 5.48E-01 |
| 6.48E+11 | 2.55E-03 | 6.35E+06 | 5.46E-01 |
| 6.49E+11 | 2.54E-03 | 6.36E+06 | 5.43E-01 |
| 6.49E+11 | 2.53E-03 | 6.36E+06 | 5.41E-01 |
| 6.50E+11 | 2.52E-03 | 6.37E+06 | 5.39E-01 |
| 6.51E+11 | 2.51E-03 | 6.38E+06 | 5.37E-01 |
| 6.51E+11 | 2.50E-03 | 6.38E+06 | 5.35E-01 |
| 6.52E+11 | 2.49E-03 | 6.39E+06 | 5.33E-01 |
| 6.53E+11 | 2.48E-03 | 6.40E+06 | 5.31E-01 |
| 6.54E+11 | 2.47E-03 | 6.41E+06 | 5.28E-01 |
| 6.54E+11 | 2.46E-03 | 6.41E+06 | 5.26E-01 |
| 6.55E+11 | 2.45E-03 | 6.42E+06 | 5.24E-01 |
| 6.56E+11 | 2.44E-03 | 6.43E+06 | 5.22E-01 |
| 6.57E+11 | 2.43E-03 | 6.44E+06 | 5.20E-01 |
| 6.58E+11 | 2.42E-03 | 6.44E+06 | 5.18E-01 |
| 6.58E+11 | 2.41E-03 | 6.45E+06 | 5.16E-01 |
| 6.59E+11 | 2.40E-03 | 6.46E+06 | 5.13E-01 |
| 6.60E+11 | 2.39E-03 | 6.46E+06 | 5.12E-01 |
| 6.60E+11 | 2.38E-03 | 6.47E+06 | 5.09E-01 |
| 6.61E+11 | 2.37E-03 | 6.48E+06 | 5.07E-01 |
| 6.62E+11 | 2.36E-03 | 6.48E+06 | 5.05E-01 |
| 6.62E+11 | 2.35E-03 | 6.49E+06 | 5.03E-01 |
| 6.63E+11 | 2.34E-03 | 6.50E+06 | 5.01E-01 |
| 6.64E+11 | 2.33E-03 | 6.51E+06 | 4.99E-01 |
| 6.65E+11 | 2.32E-03 | 6.51E+06 | 4.97E-01 |
| 6.65E+11 | 2.31E-03 | 6.52E+06 | 4.94E-01 |

| | | | |
|----------|----------|----------|----------|
| 6.66E+11 | 2.30E-03 | 6.53E+06 | 4.92E-01 |
| 6.67E+11 | 2.29E-03 | 6.53E+06 | 4.90E-01 |
| 6.67E+11 | 2.29E-03 | 6.54E+06 | 4.89E-01 |
| 6.68E+11 | 2.28E-03 | 6.54E+06 | 4.87E-01 |
| 6.68E+11 | 2.27E-03 | 6.55E+06 | 4.85E-01 |
| 6.69E+11 | 2.26E-03 | 6.56E+06 | 4.83E-01 |
| 6.70E+11 | 2.25E-03 | 6.56E+06 | 4.81E-01 |
| 6.71E+11 | 2.24E-03 | 6.57E+06 | 4.79E-01 |
| 6.71E+11 | 2.23E-03 | 6.58E+06 | 4.76E-01 |
| 6.72E+11 | 2.22E-03 | 6.59E+06 | 4.74E-01 |
| 6.73E+11 | 2.21E-03 | 6.59E+06 | 4.72E-01 |
| 6.74E+11 | 2.20E-03 | 6.60E+06 | 4.70E-01 |
| 6.74E+11 | 2.19E-03 | 6.61E+06 | 4.68E-01 |
| 6.75E+11 | 2.18E-03 | 6.62E+06 | 4.66E-01 |
| 6.76E+11 | 2.17E-03 | 6.62E+06 | 4.64E-01 |
| 6.77E+11 | 2.16E-03 | 6.63E+06 | 4.61E-01 |
| 6.77E+11 | 2.15E-03 | 6.64E+06 | 4.59E-01 |
| 6.78E+11 | 2.14E-03 | 6.65E+06 | 4.57E-01 |
| 6.79E+11 | 2.13E-03 | 6.65E+06 | 4.55E-01 |
| 6.80E+11 | 2.12E-03 | 6.66E+06 | 4.53E-01 |
| 6.81E+11 | 2.11E-03 | 6.67E+06 | 4.51E-01 |
| 6.81E+11 | 2.10E-03 | 6.68E+06 | 4.49E-01 |
| 6.82E+11 | 2.09E-03 | 6.68E+06 | 4.47E-01 |
| 6.83E+11 | 2.08E-03 | 6.69E+06 | 4.45E-01 |
| 6.84E+11 | 2.07E-03 | 6.70E+06 | 4.43E-01 |
| 6.84E+11 | 2.06E-03 | 6.71E+06 | 4.40E-01 |
| 6.85E+11 | 2.05E-03 | 6.71E+06 | 4.38E-01 |
| 6.86E+11 | 2.04E-03 | 6.72E+06 | 4.36E-01 |
| 6.87E+11 | 2.03E-03 | 6.73E+06 | 4.34E-01 |
| 6.87E+11 | 2.02E-03 | 6.74E+06 | 4.32E-01 |
| 6.88E+11 | 2.01E-03 | 6.74E+06 | 4.30E-01 |
| 6.89E+11 | 2.00E-03 | 6.75E+06 | 4.28E-01 |
| 6.90E+11 | 1.99E-03 | 6.76E+06 | 4.25E-01 |
| 6.90E+11 | 1.98E-03 | 6.76E+06 | 4.23E-01 |
| 6.91E+11 | 1.97E-03 | 6.77E+06 | 4.21E-01 |
| 6.92E+11 | 1.96E-03 | 6.78E+06 | 4.19E-01 |
| 6.92E+11 | 1.95E-03 | 6.78E+06 | 4.18E-01 |
| 6.93E+11 | 1.94E-03 | 6.79E+06 | 4.16E-01 |
| 6.94E+11 | 1.93E-03 | 6.80E+06 | 4.14E-01 |
| 6.95E+11 | 1.92E-03 | 6.81E+06 | 4.12E-01 |
| 6.96E+11 | 1.91E-03 | 6.82E+06 | 4.10E-01 |
| 6.97E+11 | 1.90E-03 | 6.83E+06 | 4.07E-01 |
| 6.97E+11 | 1.89E-03 | 6.83E+06 | 4.05E-01 |
| 6.98E+11 | 1.88E-03 | 6.84E+06 | 4.03E-01 |
| 6.99E+11 | 1.87E-03 | 6.85E+06 | 4.01E-01 |

| | | | |
|----------|----------|----------|----------|
| 7.00E+11 | 1.86E-03 | 6.86E+06 | 3.99E-01 |
| 7.01E+11 | 1.85E-03 | 6.87E+06 | 3.97E-01 |
| 7.02E+11 | 1.84E-03 | 6.88E+06 | 3.95E-01 |
| 7.02E+11 | 1.83E-03 | 6.88E+06 | 3.93E-01 |
| 7.03E+11 | 1.82E-03 | 6.89E+06 | 3.90E-01 |
| 7.04E+11 | 1.81E-03 | 6.90E+06 | 3.88E-01 |
| 7.05E+11 | 1.80E-03 | 6.91E+06 | 3.86E-01 |
| 7.06E+11 | 1.79E-03 | 6.91E+06 | 3.84E-01 |
| 7.06E+11 | 1.78E-03 | 6.92E+06 | 3.82E-01 |
| 7.07E+11 | 1.77E-03 | 6.93E+06 | 3.80E-01 |
| 7.08E+11 | 1.76E-03 | 6.94E+06 | 3.78E-01 |
| 7.09E+11 | 1.75E-03 | 6.95E+06 | 3.75E-01 |
| 7.10E+11 | 1.74E-03 | 6.96E+06 | 3.73E-01 |
| 7.11E+11 | 1.73E-03 | 6.96E+06 | 3.71E-01 |
| 7.12E+11 | 1.72E-03 | 6.97E+06 | 3.69E-01 |
| 7.12E+11 | 1.72E-03 | 6.98E+06 | 3.69E-01 |
| 7.13E+11 | 1.71E-03 | 6.98E+06 | 3.66E-01 |
| 7.14E+11 | 1.70E-03 | 6.99E+06 | 3.64E-01 |
| 7.15E+11 | 1.69E-03 | 7.00E+06 | 3.62E-01 |
| 7.16E+11 | 1.68E-03 | 7.01E+06 | 3.60E-01 |
| 7.17E+11 | 1.67E-03 | 7.02E+06 | 3.58E-01 |
| 7.17E+11 | 1.66E-03 | 7.03E+06 | 3.56E-01 |
| 7.18E+11 | 1.65E-03 | 7.04E+06 | 3.54E-01 |
| 7.19E+11 | 1.64E-03 | 7.04E+06 | 3.52E-01 |
| 7.20E+11 | 1.63E-03 | 7.05E+06 | 3.50E-01 |
| 7.20E+11 | 1.62E-03 | 7.06E+06 | 3.48E-01 |
| 7.21E+11 | 1.61E-03 | 7.07E+06 | 3.46E-01 |
| 7.22E+11 | 1.60E-03 | 7.08E+06 | 3.43E-01 |
| 7.23E+11 | 1.59E-03 | 7.09E+06 | 3.41E-01 |
| 7.24E+11 | 1.58E-03 | 7.09E+06 | 3.39E-01 |
| 7.25E+11 | 1.57E-03 | 7.10E+06 | 3.37E-01 |
| 7.26E+11 | 1.56E-03 | 7.11E+06 | 3.35E-01 |
| 7.27E+11 | 1.55E-03 | 7.12E+06 | 3.33E-01 |
| 7.28E+11 | 1.54E-03 | 7.13E+06 | 3.31E-01 |
| 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 7.30E+11 | 1.52E-03 | 7.15E+06 | 3.26E-01 |
| 7.31E+11 | 1.51E-03 | 7.16E+06 | 3.24E-01 |
| 7.32E+11 | 1.50E-03 | 7.17E+06 | 3.22E-01 |
| 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.20E-01 |
| 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.19E-01 |
| 7.34E+11 | 1.48E-03 | 7.19E+06 | 3.17E-01 |
| 7.35E+11 | 1.47E-03 | 7.20E+06 | 3.15E-01 |
| 7.36E+11 | 1.46E-03 | 7.21E+06 | 3.13E-01 |
| 7.37E+11 | 1.45E-03 | 7.22E+06 | 3.11E-01 |

| | | | |
|----------|----------|----------|----------|
| 7.37E+11 | 1.44E-03 | 7.23E+06 | 3.09E-01 |
| 7.38E+11 | 1.43E-03 | 7.24E+06 | 3.06E-01 |
| 7.39E+11 | 1.42E-03 | 7.25E+06 | 3.04E-01 |
| 7.41E+11 | 1.41E-03 | 7.26E+06 | 3.02E-01 |
| 7.42E+11 | 1.40E-03 | 7.27E+06 | 3.00E-01 |
| 7.43E+11 | 1.39E-03 | 7.28E+06 | 2.98E-01 |
| 7.43E+11 | 1.38E-03 | 7.28E+06 | 2.96E-01 |
| 7.44E+11 | 1.37E-03 | 7.30E+06 | 2.94E-01 |
| 7.45E+11 | 1.36E-03 | 7.30E+06 | 2.92E-01 |
| 7.46E+11 | 1.35E-03 | 7.31E+06 | 2.90E-01 |
| 7.47E+11 | 1.35E-03 | 7.32E+06 | 2.88E-01 |
| 7.48E+11 | 1.34E-03 | 7.33E+06 | 2.86E-01 |
| 7.49E+11 | 1.33E-03 | 7.34E+06 | 2.85E-01 |
| 7.49E+11 | 1.32E-03 | 7.34E+06 | 2.82E-01 |
| 7.50E+11 | 1.31E-03 | 7.35E+06 | 2.80E-01 |
| 7.51E+11 | 1.30E-03 | 7.36E+06 | 2.78E-01 |
| 7.52E+11 | 1.29E-03 | 7.37E+06 | 2.76E-01 |
| 7.54E+11 | 1.28E-03 | 7.38E+06 | 2.74E-01 |
| 7.55E+11 | 1.27E-03 | 7.39E+06 | 2.72E-01 |
| 7.56E+11 | 1.26E-03 | 7.40E+06 | 2.70E-01 |
| 7.56E+11 | 1.26E-03 | 7.41E+06 | 2.69E-01 |
| 7.57E+11 | 1.25E-03 | 7.42E+06 | 2.67E-01 |
| 7.58E+11 | 1.24E-03 | 7.43E+06 | 2.65E-01 |
| 7.59E+11 | 1.23E-03 | 7.44E+06 | 2.63E-01 |
| 7.60E+11 | 1.22E-03 | 7.44E+06 | 2.61E-01 |
| 7.61E+11 | 1.21E-03 | 7.45E+06 | 2.59E-01 |
| 7.61E+11 | 1.20E-03 | 7.46E+06 | 2.57E-01 |
| 7.62E+11 | 1.19E-03 | 7.47E+06 | 2.54E-01 |
| 7.64E+11 | 1.18E-03 | 7.48E+06 | 2.52E-01 |
| 7.65E+11 | 1.17E-03 | 7.49E+06 | 2.50E-01 |
| 7.66E+11 | 1.16E-03 | 7.50E+06 | 2.48E-01 |
| 7.67E+11 | 1.15E-03 | 7.52E+06 | 2.46E-01 |
| 7.68E+11 | 1.14E-03 | 7.53E+06 | 2.44E-01 |
| 7.69E+11 | 1.13E-03 | 7.54E+06 | 2.42E-01 |
| 7.70E+11 | 1.12E-03 | 7.54E+06 | 2.40E-01 |
| 7.71E+11 | 1.11E-03 | 7.55E+06 | 2.38E-01 |
| 7.72E+11 | 1.10E-03 | 7.56E+06 | 2.36E-01 |
| 7.73E+11 | 1.09E-03 | 7.57E+06 | 2.34E-01 |
| 7.74E+11 | 1.08E-03 | 7.58E+06 | 2.32E-01 |
| 7.75E+11 | 1.07E-03 | 7.59E+06 | 2.30E-01 |
| 7.76E+11 | 1.06E-03 | 7.61E+06 | 2.28E-01 |
| 7.77E+11 | 1.05E-03 | 7.62E+06 | 2.26E-01 |
| 7.78E+11 | 1.04E-03 | 7.63E+06 | 2.24E-01 |
| 7.79E+11 | 1.04E-03 | 7.63E+06 | 2.23E-01 |
| 7.80E+11 | 1.03E-03 | 7.64E+06 | 2.21E-01 |

| | | | |
|----------|----------|----------|----------|
| 7.81E+11 | 1.02E-03 | 7.65E+06 | 2.19E-01 |
| 7.82E+11 | 1.01E-03 | 7.66E+06 | 2.16E-01 |
| 7.83E+11 | 1.00E-03 | 7.67E+06 | 2.14E-01 |
| 7.83E+11 | 1.00E-03 | 7.68E+06 | 2.14E-01 |
| 7.84E+11 | 9.90E-04 | 7.69E+06 | 2.12E-01 |
| 7.85E+11 | 9.80E-04 | 7.70E+06 | 2.10E-01 |
| 7.86E+11 | 9.70E-04 | 7.71E+06 | 2.08E-01 |
| 7.87E+11 | 9.60E-04 | 7.71E+06 | 2.06E-01 |
| 7.88E+11 | 9.50E-04 | 7.72E+06 | 2.04E-01 |
| 7.89E+11 | 9.40E-04 | 7.74E+06 | 2.01E-01 |
| 7.91E+11 | 9.30E-04 | 7.75E+06 | 1.99E-01 |
| 7.91E+11 | 9.26E-04 | 7.75E+06 | 1.98E-01 |
| 7.92E+11 | 9.16E-04 | 7.76E+06 | 1.96E-01 |
| 7.93E+11 | 9.06E-04 | 7.77E+06 | 1.94E-01 |
| 7.94E+11 | 8.99E-04 | 7.78E+06 | 1.93E-01 |
| 7.95E+11 | 8.89E-04 | 7.79E+06 | 1.90E-01 |
| 7.96E+11 | 8.79E-04 | 7.80E+06 | 1.88E-01 |
| 7.97E+11 | 8.69E-04 | 7.81E+06 | 1.86E-01 |
| 7.97E+11 | 8.68E-04 | 7.81E+06 | 1.86E-01 |
| 7.98E+11 | 8.58E-04 | 7.82E+06 | 1.84E-01 |
| 7.99E+11 | 8.48E-04 | 7.83E+06 | 1.81E-01 |
| 8.00E+11 | 8.45E-04 | 7.84E+06 | 1.81E-01 |
| 8.00E+11 | 8.35E-04 | 7.84E+06 | 1.79E-01 |
| 8.01E+11 | 8.25E-04 | 7.85E+06 | 1.77E-01 |
| 8.02E+11 | 8.15E-04 | 7.86E+06 | 1.75E-01 |
| 8.03E+11 | 8.09E-04 | 7.87E+06 | 1.73E-01 |
| 8.04E+11 | 7.99E-04 | 7.88E+06 | 1.71E-01 |
| 8.04E+11 | 7.96E-04 | 7.88E+06 | 1.70E-01 |
| 8.05E+11 | 7.86E-04 | 7.88E+06 | 1.68E-01 |
| 8.06E+11 | 7.76E-04 | 7.89E+06 | 1.66E-01 |
| 8.06E+11 | 7.74E-04 | 7.89E+06 | 1.66E-01 |
| 8.06E+11 | 7.64E-04 | 7.90E+06 | 1.64E-01 |
| 8.07E+11 | 7.54E-04 | 7.90E+06 | 1.61E-01 |
| 8.07E+11 | 7.45E-04 | 7.91E+06 | 1.60E-01 |
| 8.09E+11 | 7.35E-04 | 7.93E+06 | 1.57E-01 |
| 8.10E+11 | 7.25E-04 | 7.94E+06 | 1.55E-01 |
| 8.10E+11 | 7.24E-04 | 7.94E+06 | 1.55E-01 |
| 8.12E+11 | 7.14E-04 | 7.96E+06 | 1.53E-01 |
| 8.14E+11 | 7.07E-04 | 7.98E+06 | 1.51E-01 |
| 8.18E+11 | 6.97E-04 | 8.02E+06 | 1.49E-01 |
| 8.20E+11 | 6.93E-04 | 8.03E+06 | 1.48E-01 |
| 8.23E+11 | 6.88E-04 | 8.06E+06 | 1.47E-01 |
| 8.28E+11 | 6.79E-04 | 8.12E+06 | 1.45E-01 |
| 8.29E+11 | 6.78E-04 | 8.12E+06 | 1.45E-01 |
| 8.30E+11 | 6.68E-04 | 8.13E+06 | 1.43E-01 |

| | | | |
|----------|----------|----------|----------|
| 8.30E+11 | 6.66E-04 | 8.13E+06 | 1.43E-01 |
| 8.26E+11 | 6.56E-04 | 8.10E+06 | 1.41E-01 |
| 8.26E+11 | 6.55E-04 | 8.09E+06 | 1.40E-01 |
| 8.20E+11 | 6.45E-04 | 8.04E+06 | 1.38E-01 |
| 8.15E+11 | 6.36E-04 | 7.98E+06 | 1.36E-01 |
| 8.10E+11 | 6.28E-04 | 7.94E+06 | 1.34E-01 |
| 8.07E+11 | 6.22E-04 | 7.90E+06 | 1.33E-01 |
| 8.02E+11 | 6.16E-04 | 7.86E+06 | 1.32E-01 |
| 8.01E+11 | 6.15E-04 | 7.84E+06 | 1.32E-01 |
| 7.88E+11 | 6.05E-04 | 7.72E+06 | 1.29E-01 |
| 7.82E+11 | 6.00E-04 | 7.66E+06 | 1.28E-01 |
| 7.69E+11 | 5.90E-04 | 7.54E+06 | 1.26E-01 |
| 7.56E+11 | 5.80E-04 | 7.41E+06 | 1.24E-01 |
| 7.43E+11 | 5.70E-04 | 7.28E+06 | 1.22E-01 |
| 7.30E+11 | 5.60E-04 | 7.16E+06 | 1.20E-01 |
| 7.17E+11 | 5.50E-04 | 7.03E+06 | 1.18E-01 |
| 7.04E+11 | 5.40E-04 | 6.90E+06 | 1.16E-01 |
| 6.91E+11 | 5.30E-04 | 6.77E+06 | 1.13E-01 |
| 6.78E+11 | 5.20E-04 | 6.65E+06 | 1.11E-01 |
| 6.65E+11 | 5.10E-04 | 6.52E+06 | 1.09E-01 |
| 6.52E+11 | 5.00E-04 | 6.39E+06 | 1.07E-01 |
| 6.39E+11 | 4.90E-04 | 6.26E+06 | 1.05E-01 |
| 6.26E+11 | 4.80E-04 | 6.13E+06 | 1.03E-01 |
| 6.13E+11 | 4.70E-04 | 6.01E+06 | 1.01E-01 |
| 6.00E+11 | 4.60E-04 | 5.88E+06 | 9.85E-02 |
| 5.87E+11 | 4.50E-04 | 5.75E+06 | 9.64E-02 |
| 5.74E+11 | 4.40E-04 | 5.62E+06 | 9.42E-02 |
| 5.61E+11 | 4.30E-04 | 5.50E+06 | 9.21E-02 |
| 5.48E+11 | 4.20E-04 | 5.37E+06 | 8.99E-02 |
| 5.35E+11 | 4.10E-04 | 5.24E+06 | 8.78E-02 |
| 5.22E+11 | 4.00E-04 | 5.11E+06 | 8.57E-02 |
| 5.09E+11 | 3.90E-04 | 4.98E+06 | 8.35E-02 |
| 4.96E+11 | 3.80E-04 | 4.86E+06 | 8.14E-02 |
| 4.83E+11 | 3.70E-04 | 4.73E+06 | 7.92E-02 |
| 4.70E+11 | 3.60E-04 | 4.60E+06 | 7.71E-02 |
| 4.56E+11 | 3.50E-04 | 4.47E+06 | 7.49E-02 |
| 4.43E+11 | 3.40E-04 | 4.35E+06 | 7.28E-02 |
| 4.30E+11 | 3.30E-04 | 4.22E+06 | 7.07E-02 |
| 4.17E+11 | 3.20E-04 | 4.09E+06 | 6.85E-02 |
| 4.04E+11 | 3.10E-04 | 3.96E+06 | 6.64E-02 |
| 3.91E+11 | 3.00E-04 | 3.83E+06 | 6.42E-02 |
| 3.78E+11 | 2.90E-04 | 3.71E+06 | 6.21E-02 |
| 3.65E+11 | 2.80E-04 | 3.58E+06 | 6.00E-02 |
| 3.52E+11 | 2.70E-04 | 3.45E+06 | 5.78E-02 |
| 3.39E+11 | 2.60E-04 | 3.32E+06 | 5.57E-02 |

| | | | |
|-----------|-----------|-----------|-----------|
| 3.26E+11 | 2.50E-04 | 3.19E+06 | 5.35E-02 |
| 3.13E+11 | 2.40E-04 | 3.07E+06 | 5.14E-02 |
| 3.00E+11 | 2.30E-04 | 2.94E+06 | 4.93E-02 |
| 2.87E+11 | 2.20E-04 | 2.81E+06 | 4.71E-02 |
| 2.74E+11 | 2.10E-04 | 2.68E+06 | 4.50E-02 |
| 2.61E+11 | 2.00E-04 | 2.56E+06 | 4.28E-02 |
| 2.48E+11 | 1.90E-04 | 2.43E+06 | 4.07E-02 |
| 2.35E+11 | 1.80E-04 | 2.30E+06 | 3.85E-02 |
| 2.22E+11 | 1.70E-04 | 2.17E+06 | 3.64E-02 |
| 2.09E+11 | 1.60E-04 | 2.05E+06 | 3.43E-02 |
| 1.96E+11 | 1.50E-04 | 1.92E+06 | 3.21E-02 |
| 1.83E+11 | 1.40E-04 | 1.79E+06 | 3.00E-02 |
| 1.70E+11 | 1.30E-04 | 1.66E+06 | 2.78E-02 |
| 1.57E+11 | 1.20E-04 | 1.53E+06 | 2.57E-02 |
| 1.44E+11 | 1.10E-04 | 1.41E+06 | 2.36E-02 |
| 1.30E+11 | 1.00E-04 | 1.28E+06 | 2.14E-02 |
| 1.17E+11 | 9.00E-05 | 1.15E+06 | 1.93E-02 |
| 1.04E+11 | 8.00E-05 | 1.02E+06 | 1.71E-02 |
| 9.13E+10 | 7.00E-05 | 8.95E+05 | 1.50E-02 |
| 7.83E+10 | 6.00E-05 | 7.67E+05 | 1.28E-02 |
| 6.52E+10 | 5.00E-05 | 6.39E+05 | 1.07E-02 |
| 5.22E+10 | 4.00E-05 | 5.11E+05 | 8.57E-03 |
| 3.91E+10 | 3.00E-05 | 3.83E+05 | 6.42E-03 |
| 2.61E+10 | 2.00E-05 | 2.56E+05 | 4.28E-03 |
| 1.30E+10 | 1.00E-05 | 1.28E+05 | 2.14E-03 |
| 1.17E+10 | 9.00E-06 | 1.15E+05 | 1.93E-03 |
| 1.04E+10 | 8.00E-06 | 1.02E+05 | 1.71E-03 |
| 9.13E+09 | 7.00E-06 | 8.95E+04 | 1.50E-03 |
| 7.83E+09 | 6.00E-06 | 7.67E+04 | 1.28E-03 |
| 6.52E+09 | 5.00E-06 | 6.39E+04 | 1.07E-03 |
| 5.22E+09 | 4.00E-06 | 5.11E+04 | 8.57E-04 |
| 3.91E+09 | 3.00E-06 | 3.83E+04 | 6.42E-04 |
| 2.61E+09 | 2.00E-06 | 2.56E+04 | 4.28E-04 |
| 1.31E+09 | 1.00E-06 | 1.28E+04 | 2.14E-04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.31E+09 | -1.00E-06 | -1.28E+04 | -2.14E-04 |
| -2.61E+09 | -2.00E-06 | -2.56E+04 | -4.28E-04 |
| -3.91E+09 | -3.00E-06 | -3.84E+04 | -6.42E-04 |
| -5.22E+09 | -4.00E-06 | -5.11E+04 | -8.57E-04 |
| -6.52E+09 | -5.00E-06 | -6.39E+04 | -1.07E-03 |
| -7.83E+09 | -6.00E-06 | -7.67E+04 | -1.28E-03 |
| -9.13E+09 | -7.00E-06 | -8.95E+04 | -1.50E-03 |
| -1.04E+10 | -8.00E-06 | -1.02E+05 | -1.71E-03 |
| -1.17E+10 | -9.00E-06 | -1.15E+05 | -1.93E-03 |
| -1.30E+10 | -1.00E-05 | -1.28E+05 | -2.14E-03 |

| | | | |
|-----------|-----------|-----------|-----------|
| -2.61E+10 | -2.00E-05 | -2.56E+05 | -4.28E-03 |
| -3.91E+10 | -3.00E-05 | -3.83E+05 | -6.42E-03 |
| -5.22E+10 | -4.00E-05 | -5.11E+05 | -8.57E-03 |
| -6.52E+10 | -5.00E-05 | -6.39E+05 | -1.07E-02 |
| -7.83E+10 | -6.00E-05 | -7.67E+05 | -1.28E-02 |
| -9.13E+10 | -7.00E-05 | -8.95E+05 | -1.50E-02 |
| -1.04E+11 | -8.00E-05 | -1.02E+06 | -1.71E-02 |
| -1.17E+11 | -9.00E-05 | -1.15E+06 | -1.93E-02 |
| -1.30E+11 | -1.00E-04 | -1.28E+06 | -2.14E-02 |
| -1.44E+11 | -1.10E-04 | -1.41E+06 | -2.36E-02 |
| -1.57E+11 | -1.20E-04 | -1.53E+06 | -2.57E-02 |
| -1.70E+11 | -1.30E-04 | -1.66E+06 | -2.78E-02 |
| -1.83E+11 | -1.40E-04 | -1.79E+06 | -3.00E-02 |
| -1.96E+11 | -1.50E-04 | -1.92E+06 | -3.21E-02 |
| -2.09E+11 | -1.60E-04 | -2.05E+06 | -3.43E-02 |
| -2.22E+11 | -1.70E-04 | -2.17E+06 | -3.64E-02 |
| -2.35E+11 | -1.80E-04 | -2.30E+06 | -3.85E-02 |
| -2.48E+11 | -1.90E-04 | -2.43E+06 | -4.07E-02 |
| -2.61E+11 | -2.00E-04 | -2.56E+06 | -4.28E-02 |
| -2.74E+11 | -2.10E-04 | -2.68E+06 | -4.50E-02 |
| -2.87E+11 | -2.20E-04 | -2.81E+06 | -4.71E-02 |
| -3.00E+11 | -2.30E-04 | -2.94E+06 | -4.93E-02 |
| -3.13E+11 | -2.40E-04 | -3.07E+06 | -5.14E-02 |
| -3.26E+11 | -2.50E-04 | -3.20E+06 | -5.35E-02 |
| -3.39E+11 | -2.60E-04 | -3.32E+06 | -5.57E-02 |
| -3.52E+11 | -2.70E-04 | -3.45E+06 | -5.78E-02 |
| -3.65E+11 | -2.80E-04 | -3.58E+06 | -6.00E-02 |
| -3.78E+11 | -2.90E-04 | -3.71E+06 | -6.21E-02 |
| -3.91E+11 | -3.00E-04 | -3.83E+06 | -6.42E-02 |
| -4.04E+11 | -3.10E-04 | -3.96E+06 | -6.64E-02 |
| -4.17E+11 | -3.20E-04 | -4.09E+06 | -6.85E-02 |
| -4.30E+11 | -3.30E-04 | -4.22E+06 | -7.07E-02 |
| -4.43E+11 | -3.40E-04 | -4.35E+06 | -7.28E-02 |
| -4.57E+11 | -3.50E-04 | -4.47E+06 | -7.49E-02 |
| -4.70E+11 | -3.60E-04 | -4.60E+06 | -7.71E-02 |
| -4.83E+11 | -3.70E-04 | -4.73E+06 | -7.92E-02 |
| -4.96E+11 | -3.80E-04 | -4.86E+06 | -8.14E-02 |
| -5.09E+11 | -3.90E-04 | -4.98E+06 | -8.35E-02 |
| -5.22E+11 | -4.00E-04 | -5.11E+06 | -8.57E-02 |
| -5.35E+11 | -4.10E-04 | -5.24E+06 | -8.78E-02 |
| -5.48E+11 | -4.20E-04 | -5.37E+06 | -8.99E-02 |
| -5.61E+11 | -4.30E-04 | -5.50E+06 | -9.21E-02 |
| -5.74E+11 | -4.40E-04 | -5.62E+06 | -9.42E-02 |
| -5.87E+11 | -4.50E-04 | -5.75E+06 | -9.64E-02 |
| -6.00E+11 | -4.60E-04 | -5.88E+06 | -9.85E-02 |

| | | | |
|-----------|-----------|-----------|-----------|
| -6.13E+11 | -4.70E-04 | -6.01E+06 | -1.01E-01 |
| -6.26E+11 | -4.80E-04 | -6.13E+06 | -1.03E-01 |
| -6.39E+11 | -4.90E-04 | -6.26E+06 | -1.05E-01 |
| -6.52E+11 | -5.00E-04 | -6.39E+06 | -1.07E-01 |
| -6.65E+11 | -5.10E-04 | -6.52E+06 | -1.09E-01 |
| -6.78E+11 | -5.20E-04 | -6.65E+06 | -1.11E-01 |
| -6.91E+11 | -5.30E-04 | -6.77E+06 | -1.13E-01 |
| -7.04E+11 | -5.40E-04 | -6.90E+06 | -1.16E-01 |
| -7.17E+11 | -5.50E-04 | -7.03E+06 | -1.18E-01 |
| -7.30E+11 | -5.60E-04 | -7.16E+06 | -1.20E-01 |
| -7.43E+11 | -5.70E-04 | -7.28E+06 | -1.22E-01 |
| -7.56E+11 | -5.80E-04 | -7.41E+06 | -1.24E-01 |
| -7.69E+11 | -5.90E-04 | -7.54E+06 | -1.26E-01 |
| -7.82E+11 | -6.00E-04 | -7.67E+06 | -1.28E-01 |
| -7.95E+11 | -6.10E-04 | -7.79E+06 | -1.31E-01 |
| -8.04E+11 | -6.17E-04 | -7.88E+06 | -1.32E-01 |
| -8.15E+11 | -6.25E-04 | -7.99E+06 | -1.34E-01 |
| -8.19E+11 | -6.31E-04 | -8.03E+06 | -1.35E-01 |
| -8.25E+11 | -6.40E-04 | -8.08E+06 | -1.37E-01 |
| -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.37E+11 | -6.58E-04 | -8.21E+06 | -1.41E-01 |
| -8.41E+11 | -6.64E-04 | -8.24E+06 | -1.42E-01 |
| -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.51E+11 | -6.83E-04 | -8.34E+06 | -1.46E-01 |
| -8.56E+11 | -6.92E-04 | -8.38E+06 | -1.48E-01 |
| -8.59E+11 | -7.02E-04 | -8.42E+06 | -1.50E-01 |
| -8.63E+11 | -7.12E-04 | -8.45E+06 | -1.53E-01 |
| -8.63E+11 | -7.13E-04 | -8.46E+06 | -1.53E-01 |
| -8.65E+11 | -7.20E-04 | -8.48E+06 | -1.54E-01 |
| -8.66E+11 | -7.27E-04 | -8.49E+06 | -1.56E-01 |
| -8.67E+11 | -7.33E-04 | -8.49E+06 | -1.57E-01 |
| -8.67E+11 | -7.43E-04 | -8.49E+06 | -1.59E-01 |
| -8.67E+11 | -7.53E-04 | -8.49E+06 | -1.61E-01 |
| -8.67E+11 | -7.61E-04 | -8.49E+06 | -1.63E-01 |
| -8.67E+11 | -7.68E-04 | -8.49E+06 | -1.64E-01 |
| -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.66E+11 | -7.85E-04 | -8.48E+06 | -1.68E-01 |
| -8.65E+11 | -7.92E-04 | -8.48E+06 | -1.69E-01 |
| -8.64E+11 | -7.99E-04 | -8.47E+06 | -1.71E-01 |
| -8.62E+11 | -8.06E-04 | -8.45E+06 | -1.73E-01 |
| -8.60E+11 | -8.15E-04 | -8.42E+06 | -1.74E-01 |
| -8.56E+11 | -8.22E-04 | -8.38E+06 | -1.76E-01 |

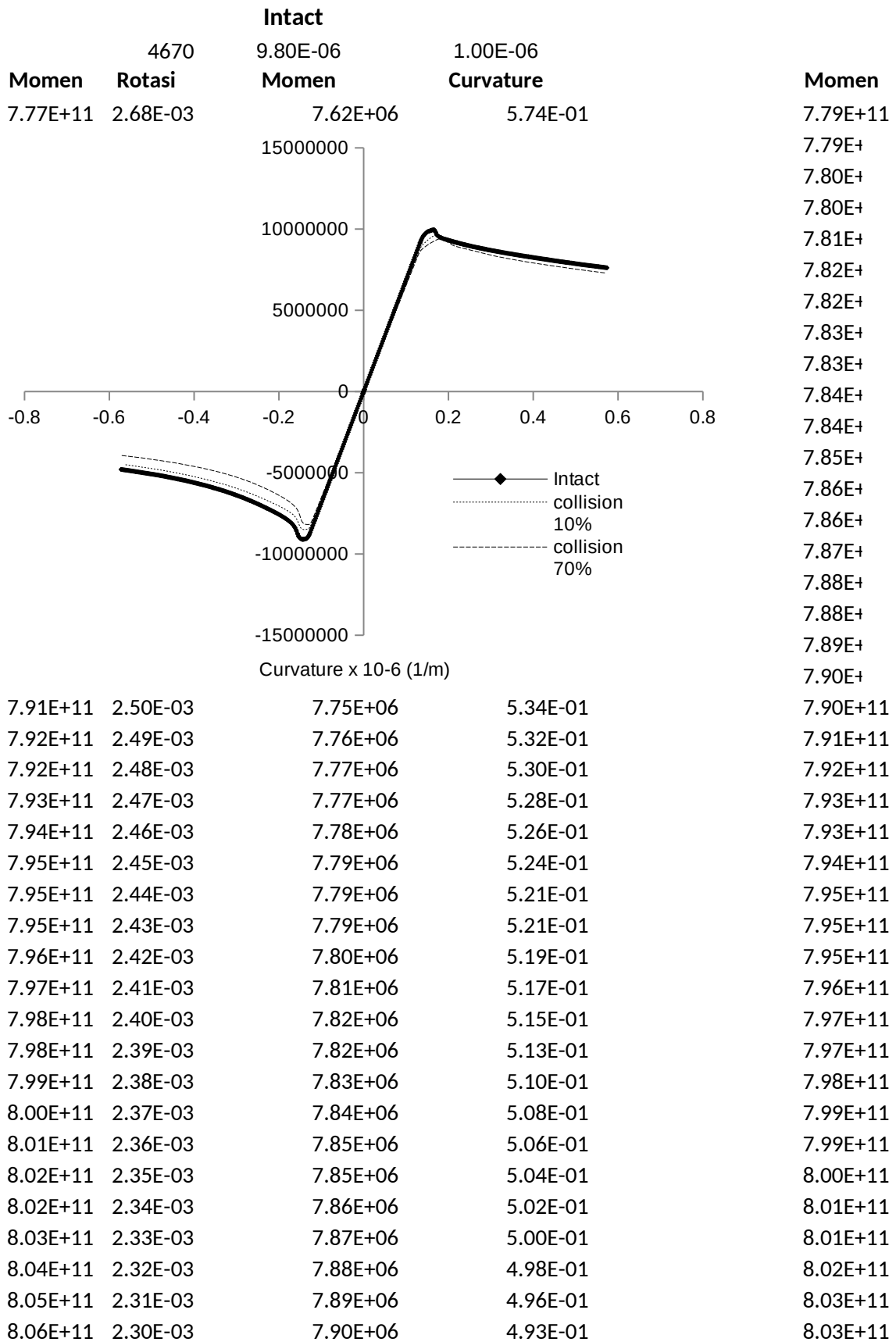
| | | | |
|-----------|-----------|-----------|-----------|
| -8.48E+11 | -8.32E-04 | -8.31E+06 | -1.78E-01 |
| -8.37E+11 | -8.42E-04 | -8.20E+06 | -1.80E-01 |
| -8.31E+11 | -8.47E-04 | -8.14E+06 | -1.81E-01 |
| -8.16E+11 | -8.57E-04 | -7.99E+06 | -1.84E-01 |
| -8.11E+11 | -8.61E-04 | -7.95E+06 | -1.84E-01 |
| -7.98E+11 | -8.71E-04 | -7.82E+06 | -1.86E-01 |
| -7.93E+11 | -8.77E-04 | -7.77E+06 | -1.88E-01 |
| -7.85E+11 | -8.87E-04 | -7.69E+06 | -1.90E-01 |
| -7.79E+11 | -8.97E-04 | -7.63E+06 | -1.92E-01 |
| -7.78E+11 | -8.98E-04 | -7.63E+06 | -1.92E-01 |
| -7.73E+11 | -9.08E-04 | -7.58E+06 | -1.94E-01 |
| -7.69E+11 | -9.18E-04 | -7.54E+06 | -1.97E-01 |
| -7.68E+11 | -9.22E-04 | -7.52E+06 | -1.97E-01 |
| -7.63E+11 | -9.32E-04 | -7.48E+06 | -1.99E-01 |
| -7.60E+11 | -9.42E-04 | -7.44E+06 | -2.02E-01 |
| -7.57E+11 | -9.50E-04 | -7.41E+06 | -2.03E-01 |
| -7.53E+11 | -9.60E-04 | -7.38E+06 | -2.06E-01 |
| -7.50E+11 | -9.70E-04 | -7.35E+06 | -2.08E-01 |
| -7.48E+11 | -9.77E-04 | -7.33E+06 | -2.09E-01 |
| -7.45E+11 | -9.87E-04 | -7.30E+06 | -2.11E-01 |
| -7.42E+11 | -9.95E-04 | -7.27E+06 | -2.13E-01 |
| -7.39E+11 | -1.01E-03 | -7.24E+06 | -2.15E-01 |
| -7.36E+11 | -1.02E-03 | -7.21E+06 | -2.17E-01 |
| -7.33E+11 | -1.03E-03 | -7.19E+06 | -2.19E-01 |
| -7.33E+11 | -1.03E-03 | -7.18E+06 | -2.20E-01 |
| -7.30E+11 | -1.04E-03 | -7.16E+06 | -2.22E-01 |
| -7.28E+11 | -1.05E-03 | -7.13E+06 | -2.24E-01 |
| -7.25E+11 | -1.06E-03 | -7.11E+06 | -2.26E-01 |
| -7.22E+11 | -1.07E-03 | -7.08E+06 | -2.28E-01 |
| -7.20E+11 | -1.08E-03 | -7.05E+06 | -2.30E-01 |
| -7.17E+11 | -1.09E-03 | -7.02E+06 | -2.33E-01 |
| -7.14E+11 | -1.10E-03 | -7.00E+06 | -2.35E-01 |
| -7.12E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.11E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.09E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.08E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.07E+11 | -1.13E-03 | -6.92E+06 | -2.41E-01 |
| -7.04E+11 | -1.14E-03 | -6.90E+06 | -2.43E-01 |
| -7.01E+11 | -1.15E-03 | -6.87E+06 | -2.46E-01 |
| -6.99E+11 | -1.16E-03 | -6.85E+06 | -2.48E-01 |
| -6.96E+11 | -1.17E-03 | -6.82E+06 | -2.50E-01 |
| -6.94E+11 | -1.18E-03 | -6.80E+06 | -2.52E-01 |
| -6.92E+11 | -1.19E-03 | -6.78E+06 | -2.54E-01 |
| -6.89E+11 | -1.20E-03 | -6.76E+06 | -2.56E-01 |
| -6.89E+11 | -1.20E-03 | -6.75E+06 | -2.57E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -6.87E+11 | -1.21E-03 | -6.73E+06 | -2.59E-01 |
| -6.85E+11 | -1.22E-03 | -6.72E+06 | -2.60E-01 |
| -6.84E+11 | -1.22E-03 | -6.70E+06 | -2.62E-01 |
| -6.81E+11 | -1.23E-03 | -6.67E+06 | -2.64E-01 |
| -6.79E+11 | -1.24E-03 | -6.65E+06 | -2.66E-01 |
| -6.76E+11 | -1.25E-03 | -6.63E+06 | -2.68E-01 |
| -6.74E+11 | -1.26E-03 | -6.61E+06 | -2.70E-01 |
| -6.72E+11 | -1.27E-03 | -6.58E+06 | -2.73E-01 |
| -6.70E+11 | -1.28E-03 | -6.56E+06 | -2.75E-01 |
| -6.68E+11 | -1.29E-03 | -6.54E+06 | -2.77E-01 |
| -6.66E+11 | -1.30E-03 | -6.52E+06 | -2.79E-01 |
| -6.64E+11 | -1.31E-03 | -6.50E+06 | -2.81E-01 |
| -6.63E+11 | -1.32E-03 | -6.50E+06 | -2.82E-01 |
| -6.61E+11 | -1.33E-03 | -6.48E+06 | -2.84E-01 |
| -6.59E+11 | -1.34E-03 | -6.46E+06 | -2.86E-01 |
| -6.57E+11 | -1.35E-03 | -6.43E+06 | -2.88E-01 |
| -6.54E+11 | -1.36E-03 | -6.41E+06 | -2.90E-01 |
| -6.52E+11 | -1.37E-03 | -6.39E+06 | -2.92E-01 |
| -6.50E+11 | -1.38E-03 | -6.37E+06 | -2.94E-01 |
| -6.48E+11 | -1.39E-03 | -6.35E+06 | -2.97E-01 |
| -6.46E+11 | -1.40E-03 | -6.33E+06 | -2.99E-01 |
| -6.44E+11 | -1.41E-03 | -6.31E+06 | -3.01E-01 |
| -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.03E-01 |
| -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.04E-01 |
| -6.40E+11 | -1.43E-03 | -6.27E+06 | -3.06E-01 |
| -6.39E+11 | -1.43E-03 | -6.26E+06 | -3.07E-01 |
| -6.37E+11 | -1.44E-03 | -6.24E+06 | -3.09E-01 |
| -6.35E+11 | -1.45E-03 | -6.22E+06 | -3.11E-01 |
| -6.33E+11 | -1.46E-03 | -6.21E+06 | -3.13E-01 |
| -6.31E+11 | -1.47E-03 | -6.19E+06 | -3.15E-01 |
| -6.31E+11 | -1.48E-03 | -6.18E+06 | -3.16E-01 |
| -6.29E+11 | -1.49E-03 | -6.16E+06 | -3.18E-01 |
| -6.27E+11 | -1.50E-03 | -6.14E+06 | -3.20E-01 |
| -6.25E+11 | -1.51E-03 | -6.12E+06 | -3.22E-01 |
| -6.23E+11 | -1.52E-03 | -6.11E+06 | -3.24E-01 |
| -6.21E+11 | -1.53E-03 | -6.09E+06 | -3.27E-01 |
| -6.20E+11 | -1.54E-03 | -6.07E+06 | -3.29E-01 |
| -6.18E+11 | -1.55E-03 | -6.05E+06 | -3.31E-01 |
| -6.16E+11 | -1.56E-03 | -6.04E+06 | -3.33E-01 |
| -6.15E+11 | -1.57E-03 | -6.02E+06 | -3.35E-01 |
| -6.14E+11 | -1.57E-03 | -6.02E+06 | -3.36E-01 |
| -6.12E+11 | -1.58E-03 | -6.00E+06 | -3.38E-01 |
| -6.10E+11 | -1.59E-03 | -5.98E+06 | -3.40E-01 |
| -6.09E+11 | -1.60E-03 | -5.96E+06 | -3.42E-01 |
| -6.07E+11 | -1.61E-03 | -5.95E+06 | -3.45E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -6.05E+11 | -1.62E-03 | -5.93E+06 | -3.47E-01 |
| -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -6.02E+11 | -1.64E-03 | -5.90E+06 | -3.51E-01 |
| -6.00E+11 | -1.65E-03 | -5.88E+06 | -3.53E-01 |
| -5.98E+11 | -1.66E-03 | -5.86E+06 | -3.55E-01 |
| -5.97E+11 | -1.67E-03 | -5.85E+06 | -3.57E-01 |
| -5.95E+11 | -1.68E-03 | -5.83E+06 | -3.60E-01 |
| -5.94E+11 | -1.69E-03 | -5.82E+06 | -3.62E-01 |
| -5.92E+11 | -1.70E-03 | -5.80E+06 | -3.64E-01 |
| -5.91E+11 | -1.71E-03 | -5.79E+06 | -3.66E-01 |
| -5.89E+11 | -1.72E-03 | -5.77E+06 | -3.68E-01 |
| -5.88E+11 | -1.73E-03 | -5.77E+06 | -3.69E-01 |
| -5.87E+11 | -1.74E-03 | -5.75E+06 | -3.72E-01 |
| -5.85E+11 | -1.75E-03 | -5.74E+06 | -3.74E-01 |
| -5.84E+11 | -1.76E-03 | -5.72E+06 | -3.76E-01 |
| -5.82E+11 | -1.77E-03 | -5.71E+06 | -3.78E-01 |
| -5.81E+11 | -1.78E-03 | -5.69E+06 | -3.80E-01 |
| -5.79E+11 | -1.79E-03 | -5.68E+06 | -3.82E-01 |
| -5.78E+11 | -1.80E-03 | -5.66E+06 | -3.84E-01 |
| -5.76E+11 | -1.81E-03 | -5.65E+06 | -3.87E-01 |
| -5.75E+11 | -1.82E-03 | -5.64E+06 | -3.89E-01 |
| -5.74E+11 | -1.83E-03 | -5.62E+06 | -3.91E-01 |
| -5.73E+11 | -1.83E-03 | -5.61E+06 | -3.93E-01 |
| -5.71E+11 | -1.84E-03 | -5.60E+06 | -3.95E-01 |
| -5.70E+11 | -1.85E-03 | -5.59E+06 | -3.97E-01 |
| -5.69E+11 | -1.86E-03 | -5.57E+06 | -3.99E-01 |
| -5.67E+11 | -1.87E-03 | -5.56E+06 | -4.01E-01 |
| -5.66E+11 | -1.88E-03 | -5.55E+06 | -4.03E-01 |
| -5.65E+11 | -1.89E-03 | -5.53E+06 | -4.05E-01 |
| -5.63E+11 | -1.90E-03 | -5.52E+06 | -4.07E-01 |
| -5.62E+11 | -1.91E-03 | -5.51E+06 | -4.10E-01 |
| -5.61E+11 | -1.92E-03 | -5.50E+06 | -4.12E-01 |
| -5.61E+11 | -1.93E-03 | -5.49E+06 | -4.12E-01 |
| -5.59E+11 | -1.94E-03 | -5.48E+06 | -4.14E-01 |
| -5.58E+11 | -1.95E-03 | -5.47E+06 | -4.16E-01 |
| -5.57E+11 | -1.96E-03 | -5.45E+06 | -4.19E-01 |
| -5.55E+11 | -1.97E-03 | -5.44E+06 | -4.21E-01 |
| -5.54E+11 | -1.98E-03 | -5.43E+06 | -4.23E-01 |
| -5.53E+11 | -1.99E-03 | -5.42E+06 | -4.25E-01 |
| -5.51E+11 | -2.00E-03 | -5.40E+06 | -4.27E-01 |
| -5.50E+11 | -2.01E-03 | -5.39E+06 | -4.29E-01 |
| -5.49E+11 | -2.02E-03 | -5.38E+06 | -4.31E-01 |
| -5.48E+11 | -2.03E-03 | -5.37E+06 | -4.34E-01 |
| -5.47E+11 | -2.04E-03 | -5.36E+06 | -4.36E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -5.46E+11 | -2.05E-03 | -5.35E+06 | -4.38E-01 |
| -5.44E+11 | -2.06E-03 | -5.34E+06 | -4.40E-01 |
| -5.43E+11 | -2.07E-03 | -5.32E+06 | -4.42E-01 |
| -5.42E+11 | -2.08E-03 | -5.31E+06 | -4.44E-01 |
| -5.41E+11 | -2.09E-03 | -5.30E+06 | -4.46E-01 |
| -5.40E+11 | -2.10E-03 | -5.29E+06 | -4.49E-01 |
| -5.39E+11 | -2.11E-03 | -5.28E+06 | -4.51E-01 |
| -5.38E+11 | -2.12E-03 | -5.27E+06 | -4.53E-01 |
| -5.37E+11 | -2.13E-03 | -5.26E+06 | -4.55E-01 |
| -5.36E+11 | -2.14E-03 | -5.25E+06 | -4.57E-01 |
| -5.35E+11 | -2.15E-03 | -5.24E+06 | -4.59E-01 |
| -5.34E+11 | -2.16E-03 | -5.23E+06 | -4.61E-01 |
| -5.32E+11 | -2.17E-03 | -5.22E+06 | -4.64E-01 |
| -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.30E+11 | -2.19E-03 | -5.20E+06 | -4.68E-01 |
| -5.29E+11 | -2.20E-03 | -5.19E+06 | -4.70E-01 |
| -5.28E+11 | -2.21E-03 | -5.17E+06 | -4.72E-01 |
| -5.27E+11 | -2.22E-03 | -5.16E+06 | -4.75E-01 |
| -5.26E+11 | -2.23E-03 | -5.15E+06 | -4.77E-01 |
| -5.25E+11 | -2.24E-03 | -5.14E+06 | -4.79E-01 |
| -5.24E+11 | -2.25E-03 | -5.13E+06 | -4.81E-01 |
| -5.23E+11 | -2.26E-03 | -5.12E+06 | -4.83E-01 |
| -5.21E+11 | -2.27E-03 | -5.11E+06 | -4.85E-01 |
| -5.20E+11 | -2.28E-03 | -5.10E+06 | -4.87E-01 |
| -5.19E+11 | -2.29E-03 | -5.09E+06 | -4.90E-01 |
| -5.19E+11 | -2.30E-03 | -5.08E+06 | -4.92E-01 |
| -5.18E+11 | -2.31E-03 | -5.07E+06 | -4.94E-01 |
| -5.17E+11 | -2.32E-03 | -5.06E+06 | -4.96E-01 |
| -5.16E+11 | -2.33E-03 | -5.05E+06 | -4.98E-01 |
| -5.15E+11 | -2.34E-03 | -5.05E+06 | -5.00E-01 |
| -5.14E+11 | -2.35E-03 | -5.04E+06 | -5.02E-01 |
| -5.13E+11 | -2.36E-03 | -5.03E+06 | -5.04E-01 |
| -5.12E+11 | -2.37E-03 | -5.02E+06 | -5.07E-01 |
| -5.11E+11 | -2.38E-03 | -5.01E+06 | -5.09E-01 |
| -5.10E+11 | -2.39E-03 | -5.00E+06 | -5.11E-01 |
| -5.10E+11 | -2.40E-03 | -4.99E+06 | -5.13E-01 |
| -5.09E+11 | -2.41E-03 | -4.99E+06 | -5.15E-01 |
| -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.17E-01 |
| -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.18E-01 |
| -5.07E+11 | -2.43E-03 | -4.97E+06 | -5.20E-01 |
| -5.06E+11 | -2.44E-03 | -4.96E+06 | -5.22E-01 |
| -5.05E+11 | -2.45E-03 | -4.95E+06 | -5.24E-01 |
| -5.04E+11 | -2.46E-03 | -4.94E+06 | -5.26E-01 |
| -5.03E+11 | -2.47E-03 | -4.93E+06 | -5.28E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -5.02E+11 | -2.48E-03 | -4.92E+06 | -5.30E-01 |
| -5.02E+11 | -2.49E-03 | -4.92E+06 | -5.33E-01 |
| -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -5.00E+11 | -2.51E-03 | -4.90E+06 | -5.37E-01 |
| -4.99E+11 | -2.52E-03 | -4.89E+06 | -5.39E-01 |
| -4.98E+11 | -2.53E-03 | -4.88E+06 | -5.41E-01 |
| -4.97E+11 | -2.54E-03 | -4.87E+06 | -5.43E-01 |
| -4.96E+11 | -2.55E-03 | -4.86E+06 | -5.46E-01 |
| -4.95E+11 | -2.56E-03 | -4.85E+06 | -5.48E-01 |
| -4.95E+11 | -2.57E-03 | -4.85E+06 | -5.50E-01 |
| -4.94E+11 | -2.58E-03 | -4.84E+06 | -5.52E-01 |
| -4.93E+11 | -2.59E-03 | -4.83E+06 | -5.54E-01 |
| -4.92E+11 | -2.60E-03 | -4.82E+06 | -5.56E-01 |
| -4.91E+11 | -2.61E-03 | -4.81E+06 | -5.58E-01 |
| -4.91E+11 | -2.62E-03 | -4.81E+06 | -5.61E-01 |
| -4.90E+11 | -2.63E-03 | -4.80E+06 | -5.63E-01 |
| -4.89E+11 | -2.64E-03 | -4.79E+06 | -5.65E-01 |
| -4.88E+11 | -2.65E-03 | -4.78E+06 | -5.67E-01 |



| | | | | |
|----------|----------|----------|----------|----------|
| 8.07E+11 | 2.29E-03 | 7.90E+06 | 4.91E-01 | 8.04E+11 |
| 8.07E+11 | 2.28E-03 | 7.91E+06 | 4.89E-01 | 8.05E+11 |
| 8.08E+11 | 2.28E-03 | 7.91E+06 | 4.88E-01 | 8.05E+11 |
| 8.08E+11 | 2.27E-03 | 7.92E+06 | 4.86E-01 | 8.06E+11 |
| 8.09E+11 | 2.26E-03 | 7.93E+06 | 4.84E-01 | 8.06E+11 |
| 8.10E+11 | 2.25E-03 | 7.94E+06 | 4.82E-01 | 8.07E+11 |
| 8.11E+11 | 2.24E-03 | 7.94E+06 | 4.80E-01 | 8.08E+11 |
| 8.11E+11 | 2.23E-03 | 7.95E+06 | 4.78E-01 | 8.09E+11 |
| 8.12E+11 | 2.22E-03 | 7.96E+06 | 4.76E-01 | 8.09E+11 |
| 8.13E+11 | 2.21E-03 | 7.97E+06 | 4.73E-01 | 8.10E+11 |
| 8.14E+11 | 2.20E-03 | 7.97E+06 | 4.71E-01 | 8.11E+11 |
| 8.15E+11 | 2.19E-03 | 7.98E+06 | 4.69E-01 | 8.12E+11 |
| 8.15E+11 | 2.18E-03 | 7.99E+06 | 4.67E-01 | 8.12E+11 |
| 8.16E+11 | 2.17E-03 | 8.00E+06 | 4.65E-01 | 8.13E+11 |
| 8.17E+11 | 2.16E-03 | 8.01E+06 | 4.63E-01 | 8.14E+11 |
| 8.18E+11 | 2.15E-03 | 8.01E+06 | 4.61E-01 | 8.15E+11 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 8.15E+11 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 8.16E+11 |
| 8.19E+11 | 2.13E-03 | 8.03E+06 | 4.56E-01 | 8.16E+11 |
| 8.20E+11 | 2.12E-03 | 8.04E+06 | 4.54E-01 | 8.17E+11 |
| 8.21E+11 | 2.11E-03 | 8.05E+06 | 4.52E-01 | 8.18E+11 |
| 8.22E+11 | 2.10E-03 | 8.05E+06 | 4.50E-01 | 8.18E+11 |
| 8.23E+11 | 2.09E-03 | 8.06E+06 | 4.48E-01 | 8.19E+11 |
| 8.24E+11 | 2.08E-03 | 8.07E+06 | 4.45E-01 | 8.20E+11 |
| 8.25E+11 | 2.07E-03 | 8.08E+06 | 4.43E-01 | 8.20E+11 |
| 8.25E+11 | 2.06E-03 | 8.09E+06 | 4.41E-01 | 8.21E+11 |
| 8.26E+11 | 2.05E-03 | 8.10E+06 | 4.39E-01 | 8.22E+11 |
| 8.27E+11 | 2.04E-03 | 8.11E+06 | 4.37E-01 | 8.23E+11 |
| 8.28E+11 | 2.03E-03 | 8.12E+06 | 4.35E-01 | 8.23E+11 |
| 8.29E+11 | 2.02E-03 | 8.12E+06 | 4.33E-01 | 8.24E+11 |
| 8.30E+11 | 2.01E-03 | 8.13E+06 | 4.31E-01 | 8.25E+11 |
| 8.30E+11 | 2.00E-03 | 8.14E+06 | 4.29E-01 | 8.25E+11 |
| 8.31E+11 | 1.99E-03 | 8.14E+06 | 4.27E-01 | 8.26E+11 |
| 8.32E+11 | 1.98E-03 | 8.15E+06 | 4.25E-01 | 8.27E+11 |
| 8.33E+11 | 1.97E-03 | 8.16E+06 | 4.23E-01 | 8.28E+11 |
| 8.34E+11 | 1.96E-03 | 8.17E+06 | 4.21E-01 | 8.28E+11 |
| 8.35E+11 | 1.95E-03 | 8.18E+06 | 4.18E-01 | 8.29E+11 |
| 8.35E+11 | 1.94E-03 | 8.19E+06 | 4.16E-01 | 8.30E+11 |
| 8.36E+11 | 1.93E-03 | 8.20E+06 | 4.14E-01 | 8.31E+11 |
| 8.37E+11 | 1.92E-03 | 8.20E+06 | 4.12E-01 | 8.32E+11 |
| 8.38E+11 | 1.91E-03 | 8.21E+06 | 4.10E-01 | 8.32E+11 |
| 8.39E+11 | 1.91E-03 | 8.22E+06 | 4.08E-01 | 8.33E+11 |
| 8.40E+11 | 1.90E-03 | 8.23E+06 | 4.06E-01 | 8.34E+11 |
| 8.40E+11 | 1.89E-03 | 8.24E+06 | 4.04E-01 | 8.35E+11 |
| 8.41E+11 | 1.88E-03 | 8.24E+06 | 4.01E-01 | 8.35E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 8.42E+11 | 1.87E-03 | 8.25E+06 | 3.99E-01 | 8.36E+11 |
| 8.43E+11 | 1.86E-03 | 8.26E+06 | 3.97E-01 | 8.37E+11 |
| 8.44E+11 | 1.85E-03 | 8.27E+06 | 3.95E-01 | 8.38E+11 |
| 8.45E+11 | 1.84E-03 | 8.28E+06 | 3.93E-01 | 8.38E+11 |
| 8.46E+11 | 1.83E-03 | 8.29E+06 | 3.91E-01 | 8.39E+11 |
| 8.47E+11 | 1.82E-03 | 8.30E+06 | 3.89E-01 | 8.40E+11 |
| 8.47E+11 | 1.81E-03 | 8.30E+06 | 3.88E-01 | 8.41E+11 |
| 8.48E+11 | 1.80E-03 | 8.31E+06 | 3.86E-01 | 8.42E+11 |
| 8.49E+11 | 1.79E-03 | 8.32E+06 | 3.84E-01 | 8.42E+11 |
| 8.50E+11 | 1.78E-03 | 8.33E+06 | 3.82E-01 | 8.43E+11 |
| 8.50E+11 | 1.77E-03 | 8.33E+06 | 3.79E-01 | 8.44E+11 |
| 8.51E+11 | 1.76E-03 | 8.34E+06 | 3.77E-01 | 8.44E+11 |
| 8.52E+11 | 1.75E-03 | 8.35E+06 | 3.75E-01 | 8.45E+11 |
| 8.53E+11 | 1.74E-03 | 8.36E+06 | 3.73E-01 | 8.46E+11 |
| 8.54E+11 | 1.73E-03 | 8.37E+06 | 3.71E-01 | 8.47E+11 |
| 8.55E+11 | 1.72E-03 | 8.38E+06 | 3.69E-01 | 8.48E+11 |
| 8.56E+11 | 1.71E-03 | 8.39E+06 | 3.67E-01 | 8.49E+11 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.50E+11 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.50E+11 |
| 8.58E+11 | 1.69E-03 | 8.41E+06 | 3.62E-01 | 8.50E+11 |
| 8.59E+11 | 1.68E-03 | 8.42E+06 | 3.60E-01 | 8.51E+11 |
| 8.60E+11 | 1.67E-03 | 8.43E+06 | 3.58E-01 | 8.52E+11 |
| 8.61E+11 | 1.66E-03 | 8.44E+06 | 3.56E-01 | 8.53E+11 |
| 8.62E+11 | 1.65E-03 | 8.45E+06 | 3.54E-01 | 8.54E+11 |
| 8.63E+11 | 1.64E-03 | 8.46E+06 | 3.52E-01 | 8.55E+11 |
| 8.64E+11 | 1.63E-03 | 8.47E+06 | 3.49E-01 | 8.55E+11 |
| 8.65E+11 | 1.62E-03 | 8.48E+06 | 3.47E-01 | 8.56E+11 |
| 8.66E+11 | 1.61E-03 | 8.48E+06 | 3.46E-01 | 8.57E+11 |
| 8.66E+11 | 1.60E-03 | 8.49E+06 | 3.43E-01 | 8.57E+11 |
| 8.67E+11 | 1.59E-03 | 8.50E+06 | 3.41E-01 | 8.58E+11 |
| 8.68E+11 | 1.58E-03 | 8.51E+06 | 3.39E-01 | 8.59E+11 |
| 8.69E+11 | 1.57E-03 | 8.52E+06 | 3.37E-01 | 8.60E+11 |
| 8.70E+11 | 1.56E-03 | 8.53E+06 | 3.35E-01 | 8.61E+11 |
| 8.71E+11 | 1.55E-03 | 8.54E+06 | 3.33E-01 | 8.62E+11 |
| 8.72E+11 | 1.54E-03 | 8.55E+06 | 3.31E-01 | 8.63E+11 |
| 8.73E+11 | 1.53E-03 | 8.56E+06 | 3.28E-01 | 8.64E+11 |
| 8.74E+11 | 1.52E-03 | 8.57E+06 | 3.26E-01 | 8.65E+11 |
| 8.75E+11 | 1.52E-03 | 8.58E+06 | 3.24E-01 | 8.65E+11 |
| 8.76E+11 | 1.51E-03 | 8.59E+06 | 3.22E-01 | 8.66E+11 |
| 8.77E+11 | 1.50E-03 | 8.60E+06 | 3.20E-01 | 8.67E+11 |
| 8.79E+11 | 1.49E-03 | 8.61E+06 | 3.18E-01 | 8.68E+11 |
| 8.80E+11 | 1.48E-03 | 8.62E+06 | 3.16E-01 | 8.69E+11 |
| 8.81E+11 | 1.47E-03 | 8.63E+06 | 3.14E-01 | 8.70E+11 |
| 8.81E+11 | 1.46E-03 | 8.63E+06 | 3.13E-01 | 8.71E+11 |
| 8.82E+11 | 1.45E-03 | 8.64E+06 | 3.11E-01 | 8.72E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 8.83E+11 | 1.44E-03 | 8.65E+06 | 3.09E-01 | 8.73E+11 |
| 8.84E+11 | 1.43E-03 | 8.66E+06 | 3.07E-01 | 8.74E+11 |
| 8.85E+11 | 1.42E-03 | 8.67E+06 | 3.05E-01 | 8.75E+11 |
| 8.86E+11 | 1.41E-03 | 8.68E+06 | 3.03E-01 | 8.76E+11 |
| 8.87E+11 | 1.40E-03 | 8.69E+06 | 3.01E-01 | 8.77E+11 |
| 8.88E+11 | 1.39E-03 | 8.70E+06 | 2.99E-01 | 8.78E+11 |
| 8.89E+11 | 1.38E-03 | 8.71E+06 | 2.96E-01 | 8.79E+11 |
| 8.90E+11 | 1.38E-03 | 8.72E+06 | 2.96E-01 | 8.79E+11 |
| 8.91E+11 | 1.37E-03 | 8.73E+06 | 2.93E-01 | 8.80E+11 |
| 8.92E+11 | 1.36E-03 | 8.74E+06 | 2.91E-01 | 8.81E+11 |
| 8.93E+11 | 1.35E-03 | 8.75E+06 | 2.89E-01 | 8.82E+11 |
| 8.94E+11 | 1.34E-03 | 8.76E+06 | 2.87E-01 | 8.83E+11 |
| 8.95E+11 | 1.33E-03 | 8.77E+06 | 2.85E-01 | 8.84E+11 |
| 8.96E+11 | 1.33E-03 | 8.78E+06 | 2.84E-01 | 8.85E+11 |
| 8.97E+11 | 1.32E-03 | 8.79E+06 | 2.82E-01 | 8.86E+11 |
| 8.98E+11 | 1.31E-03 | 8.80E+06 | 2.80E-01 | 8.88E+11 |
| 8.99E+11 | 1.30E-03 | 8.81E+06 | 2.78E-01 | 8.89E+11 |
| 9.00E+11 | 1.29E-03 | 8.82E+06 | 2.76E-01 | 8.90E+11 |
| 9.02E+11 | 1.28E-03 | 8.83E+06 | 2.73E-01 | 8.91E+11 |
| 9.02E+11 | 1.27E-03 | 8.84E+06 | 2.73E-01 | 8.92E+11 |
| 9.03E+11 | 1.26E-03 | 8.85E+06 | 2.71E-01 | 8.92E+11 |
| 9.04E+11 | 1.25E-03 | 8.86E+06 | 2.69E-01 | 8.93E+11 |
| 9.05E+11 | 1.24E-03 | 8.87E+06 | 2.66E-01 | 8.94E+11 |
| 9.07E+11 | 1.23E-03 | 8.89E+06 | 2.64E-01 | 8.96E+11 |
| 9.08E+11 | 1.22E-03 | 8.90E+06 | 2.62E-01 | 8.97E+11 |
| 9.09E+11 | 1.21E-03 | 8.91E+06 | 2.60E-01 | 8.98E+11 |
| 9.10E+11 | 1.21E-03 | 8.92E+06 | 2.58E-01 | 8.99E+11 |
| 9.11E+11 | 1.20E-03 | 8.93E+06 | 2.56E-01 | 9.00E+11 |
| 9.13E+11 | 1.19E-03 | 8.95E+06 | 2.54E-01 | 9.01E+11 |
| 9.14E+11 | 1.18E-03 | 8.96E+06 | 2.52E-01 | 9.02E+11 |
| 9.16E+11 | 1.17E-03 | 8.97E+06 | 2.49E-01 | 9.04E+11 |
| 9.17E+11 | 1.16E-03 | 8.98E+06 | 2.48E-01 | 9.05E+11 |
| 9.18E+11 | 1.15E-03 | 9.00E+06 | 2.45E-01 | 9.06E+11 |
| 9.20E+11 | 1.14E-03 | 9.01E+06 | 2.43E-01 | 9.07E+11 |
| 9.21E+11 | 1.13E-03 | 9.03E+06 | 2.41E-01 | 9.08E+11 |
| 9.22E+11 | 1.12E-03 | 9.04E+06 | 2.39E-01 | 9.09E+11 |
| 9.23E+11 | 1.11E-03 | 9.05E+06 | 2.38E-01 | 9.11E+11 |
| 9.24E+11 | 1.10E-03 | 9.06E+06 | 2.36E-01 | 9.11E+11 |
| 9.26E+11 | 1.09E-03 | 9.07E+06 | 2.34E-01 | 9.13E+11 |
| 9.27E+11 | 1.08E-03 | 9.09E+06 | 2.31E-01 | 9.14E+11 |
| 9.29E+11 | 1.07E-03 | 9.10E+06 | 2.29E-01 | 9.16E+11 |
| 9.30E+11 | 1.06E-03 | 9.11E+06 | 2.27E-01 | 9.17E+11 |
| 9.32E+11 | 1.05E-03 | 9.13E+06 | 2.25E-01 | 9.17E+11 |
| 9.33E+11 | 1.04E-03 | 9.15E+06 | 2.23E-01 | 9.19E+11 |
| 9.35E+11 | 1.03E-03 | 9.16E+06 | 2.21E-01 | 9.20E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 9.35E+11 | 1.03E-03 | 9.17E+06 | 2.20E-01 | 9.21E+11 |
| 9.37E+11 | 1.02E-03 | 9.18E+06 | 2.18E-01 | 9.23E+11 |
| 9.38E+11 | 1.01E-03 | 9.19E+06 | 2.16E-01 | 9.24E+11 |
| 9.40E+11 | 9.99E-04 | 9.21E+06 | 2.14E-01 | 9.25E+11 |
| 9.42E+11 | 9.89E-04 | 9.23E+06 | 2.12E-01 | 9.27E+11 |
| 9.42E+11 | 9.87E-04 | 9.23E+06 | 2.11E-01 | 9.28E+11 |
| 9.43E+11 | 9.77E-04 | 9.25E+06 | 2.09E-01 | 9.29E+11 |
| 9.45E+11 | 9.67E-04 | 9.26E+06 | 2.07E-01 | 9.30E+11 |
| 9.47E+11 | 9.57E-04 | 9.28E+06 | 2.05E-01 | 9.32E+11 |
| 9.48E+11 | 9.49E-04 | 9.29E+06 | 2.03E-01 | 9.33E+11 |
| 9.50E+11 | 9.39E-04 | 9.31E+06 | 2.01E-01 | 9.34E+11 |
| 9.52E+11 | 9.29E-04 | 9.33E+06 | 1.99E-01 | 9.36E+11 |
| 9.53E+11 | 9.21E-04 | 9.34E+06 | 1.97E-01 | 9.38E+11 |
| 9.54E+11 | 9.11E-04 | 9.35E+06 | 1.95E-01 | 9.40E+11 |
| 9.56E+11 | 9.01E-04 | 9.37E+06 | 1.93E-01 | 9.42E+11 |
| 9.58E+11 | 8.91E-04 | 9.39E+06 | 1.91E-01 | 9.46E+11 |
| 9.58E+11 | 8.88E-04 | 9.39E+06 | 1.90E-01 | 9.47E+11 |
| 9.60E+11 | 8.78E-04 | 9.41E+06 | 1.88E-01 | 9.51E+11 |
| 9.62E+11 | 8.68E-04 | 9.43E+06 | 1.86E-01 | 9.54E+11 |
| 9.63E+11 | 8.65E-04 | 9.44E+06 | 1.85E-01 | 9.56E+11 |
| 9.65E+11 | 8.55E-04 | 9.46E+06 | 1.83E-01 | 9.70E+11 |
| 9.67E+11 | 8.46E-04 | 9.48E+06 | 1.81E-01 | 9.80E+11 |
| 9.70E+11 | 8.36E-04 | 9.51E+06 | 1.79E-01 | 9.84E+11 |
| 9.73E+11 | 8.28E-04 | 9.53E+06 | 1.77E-01 | 9.86E+11 |
| 9.77E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.86E+11 |
| 9.78E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.85E+11 |
| 9.83E+11 | 8.08E-04 | 9.63E+06 | 1.73E-01 | 9.84E+11 |
| 9.85E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.83E+11 |
| 9.86E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.81E+11 |
| 9.99E+11 | 7.94E-04 | 9.79E+06 | 1.70E-01 | 9.80E+11 |
| 1.00E+12 | 7.90E-04 | 9.84E+06 | 1.69E-01 | 9.79E+11 |
| 1.01E+12 | 7.82E-04 | 9.94E+06 | 1.67E-01 | 9.77E+11 |
| 1.02E+12 | 7.76E-04 | 9.96E+06 | 1.66E-01 | 9.75E+11 |
| 1.02E+12 | 7.66E-04 | 9.95E+06 | 1.64E-01 | 9.73E+11 |
| 1.02E+12 | 7.60E-04 | 9.95E+06 | 1.63E-01 | 9.73E+11 |
| 1.01E+12 | 7.50E-04 | 9.94E+06 | 1.61E-01 | 9.69E+11 |
| 1.01E+12 | 7.45E-04 | 9.92E+06 | 1.60E-01 | 9.65E+11 |
| 1.01E+12 | 7.35E-04 | 9.91E+06 | 1.57E-01 | 9.63E+11 |
| 1.01E+12 | 7.29E-04 | 9.89E+06 | 1.56E-01 | 9.59E+11 |
| 1.01E+12 | 7.19E-04 | 9.87E+06 | 1.54E-01 | 9.55E+11 |
| 1.01E+12 | 7.09E-04 | 9.85E+06 | 1.52E-01 | 9.51E+11 |
| 1.00E+12 | 7.01E-04 | 9.83E+06 | 1.50E-01 | 9.46E+11 |
| 1.00E+12 | 6.94E-04 | 9.80E+06 | 1.49E-01 | 9.41E+11 |
| 9.97E+11 | 6.88E-04 | 9.77E+06 | 1.47E-01 | 9.38E+11 |
| 9.91E+11 | 6.78E-04 | 9.71E+06 | 1.45E-01 | 9.35E+11 |

| | | | | |
|----------|----------|----------|----------|----------|
| 9.86E+11 | 6.69E-04 | 9.66E+06 | 1.43E-01 | 9.32E+11 |
| 9.82E+11 | 6.64E-04 | 9.63E+06 | 1.42E-01 | 9.27E+11 |
| 9.78E+11 | 6.58E-04 | 9.58E+06 | 1.41E-01 | 9.22E+11 |
| 9.73E+11 | 6.52E-04 | 9.53E+06 | 1.40E-01 | 9.19E+11 |
| 9.63E+11 | 6.43E-04 | 9.43E+06 | 1.38E-01 | 9.15E+11 |
| 9.54E+11 | 6.35E-04 | 9.35E+06 | 1.36E-01 | 9.11E+11 |
| 9.45E+11 | 6.28E-04 | 9.26E+06 | 1.35E-01 | 9.02E+11 |
| 9.35E+11 | 6.21E-04 | 9.16E+06 | 1.33E-01 | 8.94E+11 |
| 9.33E+11 | 6.20E-04 | 9.14E+06 | 1.33E-01 | 8.86E+11 |
| 9.18E+11 | 6.10E-04 | 8.99E+06 | 1.31E-01 | 8.77E+11 |
| 9.03E+11 | 6.00E-04 | 8.85E+06 | 1.28E-01 | 8.69E+11 |
| 8.88E+11 | 5.90E-04 | 8.70E+06 | 1.26E-01 | 8.55E+11 |
| 8.73E+11 | 5.80E-04 | 8.55E+06 | 1.24E-01 | 8.40E+11 |
| 8.58E+11 | 5.70E-04 | 8.40E+06 | 1.22E-01 | 8.26E+11 |
| 8.43E+11 | 5.60E-04 | 8.26E+06 | 1.20E-01 | 8.11E+11 |
| 8.28E+11 | 5.50E-04 | 8.11E+06 | 1.18E-01 | 7.97E+11 |
| 8.13E+11 | 5.40E-04 | 7.96E+06 | 1.16E-01 | 7.82E+11 |
| 7.98E+11 | 5.30E-04 | 7.82E+06 | 1.13E-01 | 7.68E+11 |
| 7.82E+11 | 5.20E-04 | 7.67E+06 | 1.11E-01 | 7.53E+11 |
| 7.67E+11 | 5.10E-04 | 7.52E+06 | 1.09E-01 | 7.39E+11 |
| 7.52E+11 | 5.00E-04 | 7.37E+06 | 1.07E-01 | 7.24E+11 |
| 7.37E+11 | 4.90E-04 | 7.23E+06 | 1.05E-01 | 7.10E+11 |
| 7.22E+11 | 4.80E-04 | 7.08E+06 | 1.03E-01 | 6.95E+11 |
| 7.07E+11 | 4.70E-04 | 6.93E+06 | 1.01E-01 | 6.81E+11 |
| 6.92E+11 | 4.60E-04 | 6.78E+06 | 9.85E-02 | 6.66E+11 |
| 6.77E+11 | 4.50E-04 | 6.64E+06 | 9.64E-02 | 6.52E+11 |
| 6.62E+11 | 4.40E-04 | 6.49E+06 | 9.42E-02 | 6.37E+11 |
| 6.47E+11 | 4.30E-04 | 6.34E+06 | 9.21E-02 | 6.23E+11 |
| 6.32E+11 | 4.20E-04 | 6.19E+06 | 8.99E-02 | 6.08E+11 |
| 6.17E+11 | 4.10E-04 | 6.05E+06 | 8.78E-02 | 5.94E+11 |
| 6.02E+11 | 4.00E-04 | 5.90E+06 | 8.57E-02 | 5.79E+11 |
| 5.87E+11 | 3.90E-04 | 5.75E+06 | 8.35E-02 | 5.65E+11 |
| 5.72E+11 | 3.80E-04 | 5.60E+06 | 8.14E-02 | 5.50E+11 |
| 5.57E+11 | 3.70E-04 | 5.46E+06 | 7.92E-02 | 5.36E+11 |
| 5.42E+11 | 3.60E-04 | 5.31E+06 | 7.71E-02 | 5.21E+11 |
| 5.27E+11 | 3.50E-04 | 5.16E+06 | 7.49E-02 | 5.07E+11 |
| 5.12E+11 | 3.40E-04 | 5.01E+06 | 7.28E-02 | 4.93E+11 |
| 4.97E+11 | 3.30E-04 | 4.87E+06 | 7.07E-02 | 4.78E+11 |
| 4.82E+11 | 3.20E-04 | 4.72E+06 | 6.85E-02 | 4.64E+11 |
| 4.67E+11 | 3.10E-04 | 4.57E+06 | 6.64E-02 | 4.49E+11 |
| 4.51E+11 | 3.00E-04 | 4.42E+06 | 6.42E-02 | 4.35E+11 |
| 4.36E+11 | 2.90E-04 | 4.28E+06 | 6.21E-02 | 4.20E+11 |
| 4.21E+11 | 2.80E-04 | 4.13E+06 | 6.00E-02 | 4.06E+11 |
| 4.06E+11 | 2.70E-04 | 3.98E+06 | 5.78E-02 | 3.91E+11 |
| 3.91E+11 | 2.60E-04 | 3.83E+06 | 5.57E-02 | 3.77E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 3.76E+11 | 2.50E-04 | 3.69E+06 | 5.35E-02 | 3.62E+11 |
| 3.61E+11 | 2.40E-04 | 3.54E+06 | 5.14E-02 | 3.48E+11 |
| 3.46E+11 | 2.30E-04 | 3.39E+06 | 4.93E-02 | 3.33E+11 |
| 3.31E+11 | 2.20E-04 | 3.24E+06 | 4.71E-02 | 3.19E+11 |
| 3.16E+11 | 2.10E-04 | 3.10E+06 | 4.50E-02 | 3.04E+11 |
| 3.01E+11 | 2.00E-04 | 2.95E+06 | 4.28E-02 | 2.90E+11 |
| 2.86E+11 | 1.90E-04 | 2.80E+06 | 4.07E-02 | 2.75E+11 |
| 2.71E+11 | 1.80E-04 | 2.65E+06 | 3.85E-02 | 2.61E+11 |
| 2.56E+11 | 1.70E-04 | 2.51E+06 | 3.64E-02 | 2.46E+11 |
| 2.41E+11 | 1.60E-04 | 2.36E+06 | 3.43E-02 | 2.32E+11 |
| 2.26E+11 | 1.50E-04 | 2.21E+06 | 3.21E-02 | 2.17E+11 |
| 2.11E+11 | 1.40E-04 | 2.06E+06 | 3.00E-02 | 2.03E+11 |
| 1.96E+11 | 1.30E-04 | 1.92E+06 | 2.78E-02 | 1.88E+11 |
| 1.81E+11 | 1.20E-04 | 1.77E+06 | 2.57E-02 | 1.74E+11 |
| 1.66E+11 | 1.10E-04 | 1.62E+06 | 2.36E-02 | 1.59E+11 |
| 1.51E+11 | 1.00E-04 | 1.47E+06 | 2.14E-02 | 1.45E+11 |
| 1.35E+11 | 9.00E-05 | 1.33E+06 | 1.93E-02 | 1.30E+11 |
| 1.20E+11 | 8.00E-05 | 1.18E+06 | 1.71E-02 | 1.16E+11 |
| 1.05E+11 | 7.00E-05 | 1.03E+06 | 1.50E-02 | 1.01E+11 |
| 9.03E+10 | 6.00E-05 | 8.85E+05 | 1.28E-02 | 8.69E+10 |
| 7.52E+10 | 5.00E-05 | 7.37E+05 | 1.07E-02 | 7.24E+10 |
| 6.02E+10 | 4.00E-05 | 5.90E+05 | 8.57E-03 | 5.79E+10 |
| 4.51E+10 | 3.00E-05 | 4.42E+05 | 6.42E-03 | 4.35E+10 |
| 3.01E+10 | 2.00E-05 | 2.95E+05 | 4.28E-03 | 2.90E+10 |
| 1.51E+10 | 1.00E-05 | 1.47E+05 | 2.14E-03 | 1.45E+10 |
| 1.35E+10 | 9.00E-06 | 1.33E+05 | 1.93E-03 | 1.30E+10 |
| 1.20E+10 | 8.00E-06 | 1.18E+05 | 1.71E-03 | 1.16E+10 |
| 1.05E+10 | 7.00E-06 | 1.03E+05 | 1.50E-03 | 1.01E+10 |
| 9.03E+09 | 6.00E-06 | 8.85E+04 | 1.28E-03 | 8.69E+09 |
| 7.53E+09 | 5.00E-06 | 7.37E+04 | 1.07E-03 | 7.24E+09 |
| 6.02E+09 | 4.00E-06 | 5.90E+04 | 8.57E-04 | 5.79E+09 |
| 4.52E+09 | 3.00E-06 | 4.42E+04 | 6.42E-04 | 4.35E+09 |
| 3.01E+09 | 2.00E-06 | 2.95E+04 | 4.28E-04 | 2.90E+09 |
| 1.51E+09 | 1.00E-06 | 1.47E+04 | 2.14E-04 | 1.45E+09 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.51E+09 | -1.00E-06 | -1.47E+04 | -2.14E-04 | -1.45E+09 |
| -3.01E+09 | -2.00E-06 | -2.95E+04 | -4.28E-04 | -2.90E+09 |
| -4.52E+09 | -3.00E-06 | -4.42E+04 | -6.42E-04 | -4.35E+09 |
| -6.02E+09 | -4.00E-06 | -5.90E+04 | -8.57E-04 | -5.79E+09 |
| -7.52E+09 | -5.00E-06 | -7.37E+04 | -1.07E-03 | -7.24E+09 |
| -9.03E+09 | -6.00E-06 | -8.85E+04 | -1.28E-03 | -8.69E+09 |
| -1.05E+10 | -7.00E-06 | -1.03E+05 | -1.50E-03 | -1.01E+10 |
| -1.20E+10 | -8.00E-06 | -1.18E+05 | -1.71E-03 | -1.16E+10 |
| -1.35E+10 | -9.00E-06 | -1.33E+05 | -1.93E-03 | -1.30E+10 |
| -1.51E+10 | -1.00E-05 | -1.47E+05 | -2.14E-03 | -1.45E+10 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -3.01E+10 | -2.00E-05 | -2.95E+05 | -4.28E-03 | -2.90E+10 |
| -4.51E+10 | -3.00E-05 | -4.42E+05 | -6.42E-03 | -4.35E+10 |
| -6.02E+10 | -4.00E-05 | -5.90E+05 | -8.57E-03 | -5.79E+10 |
| -7.52E+10 | -5.00E-05 | -7.37E+05 | -1.07E-02 | -7.24E+10 |
| -9.03E+10 | -6.00E-05 | -8.85E+05 | -1.28E-02 | -8.69E+10 |
| -1.05E+11 | -7.00E-05 | -1.03E+06 | -1.50E-02 | -1.01E+11 |
| -1.20E+11 | -8.00E-05 | -1.18E+06 | -1.71E-02 | -1.16E+11 |
| -1.35E+11 | -9.00E-05 | -1.33E+06 | -1.93E-02 | -1.30E+11 |
| -1.51E+11 | -1.00E-04 | -1.47E+06 | -2.14E-02 | -1.45E+11 |
| -1.66E+11 | -1.10E-04 | -1.62E+06 | -2.36E-02 | -1.59E+11 |
| -1.81E+11 | -1.20E-04 | -1.77E+06 | -2.57E-02 | -1.74E+11 |
| -1.96E+11 | -1.30E-04 | -1.92E+06 | -2.78E-02 | -1.88E+11 |
| -2.11E+11 | -1.40E-04 | -2.06E+06 | -3.00E-02 | -2.03E+11 |
| -2.26E+11 | -1.50E-04 | -2.21E+06 | -3.21E-02 | -2.17E+11 |
| -2.41E+11 | -1.60E-04 | -2.36E+06 | -3.43E-02 | -2.32E+11 |
| -2.56E+11 | -1.70E-04 | -2.51E+06 | -3.64E-02 | -2.46E+11 |
| -2.71E+11 | -1.80E-04 | -2.65E+06 | -3.85E-02 | -2.61E+11 |
| -2.86E+11 | -1.90E-04 | -2.80E+06 | -4.07E-02 | -2.75E+11 |
| -3.01E+11 | -2.00E-04 | -2.95E+06 | -4.28E-02 | -2.90E+11 |
| -3.16E+11 | -2.10E-04 | -3.10E+06 | -4.50E-02 | -3.04E+11 |
| -3.31E+11 | -2.20E-04 | -3.24E+06 | -4.71E-02 | -3.19E+11 |
| -3.46E+11 | -2.30E-04 | -3.39E+06 | -4.93E-02 | -3.33E+11 |
| -3.61E+11 | -2.40E-04 | -3.54E+06 | -5.14E-02 | -3.48E+11 |
| -3.76E+11 | -2.50E-04 | -3.69E+06 | -5.35E-02 | -3.62E+11 |
| -3.91E+11 | -2.60E-04 | -3.83E+06 | -5.57E-02 | -3.77E+11 |
| -4.06E+11 | -2.70E-04 | -3.98E+06 | -5.78E-02 | -3.91E+11 |
| -4.21E+11 | -2.80E-04 | -4.13E+06 | -6.00E-02 | -4.06E+11 |
| -4.36E+11 | -2.90E-04 | -4.28E+06 | -6.21E-02 | -4.20E+11 |
| -4.51E+11 | -3.00E-04 | -4.42E+06 | -6.42E-02 | -4.34E+11 |
| -4.66E+11 | -3.10E-04 | -4.57E+06 | -6.64E-02 | -4.49E+11 |
| -4.81E+11 | -3.20E-04 | -4.72E+06 | -6.85E-02 | -4.63E+11 |
| -4.97E+11 | -3.30E-04 | -4.87E+06 | -7.07E-02 | -4.78E+11 |
| -5.12E+11 | -3.40E-04 | -5.01E+06 | -7.28E-02 | -4.92E+11 |
| -5.27E+11 | -3.50E-04 | -5.16E+06 | -7.49E-02 | -5.07E+11 |
| -5.42E+11 | -3.60E-04 | -5.31E+06 | -7.71E-02 | -5.21E+11 |
| -5.57E+11 | -3.70E-04 | -5.45E+06 | -7.92E-02 | -5.36E+11 |
| -5.72E+11 | -3.80E-04 | -5.60E+06 | -8.14E-02 | -5.50E+11 |
| -5.87E+11 | -3.90E-04 | -5.75E+06 | -8.35E-02 | -5.65E+11 |
| -6.02E+11 | -4.00E-04 | -5.90E+06 | -8.57E-02 | -5.79E+11 |
| -6.17E+11 | -4.10E-04 | -6.04E+06 | -8.78E-02 | -5.94E+11 |
| -6.32E+11 | -4.20E-04 | -6.19E+06 | -8.99E-02 | -6.08E+11 |
| -6.47E+11 | -4.30E-04 | -6.34E+06 | -9.21E-02 | -6.23E+11 |
| -6.62E+11 | -4.40E-04 | -6.49E+06 | -9.42E-02 | -6.37E+11 |
| -6.77E+11 | -4.50E-04 | -6.63E+06 | -9.64E-02 | -6.52E+11 |
| -6.92E+11 | -4.60E-04 | -6.78E+06 | -9.85E-02 | -6.66E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -7.07E+11 | -4.70E-04 | -6.93E+06 | -1.01E-01 | -6.81E+11 |
| -7.22E+11 | -4.80E-04 | -7.08E+06 | -1.03E-01 | -6.95E+11 |
| -7.37E+11 | -4.90E-04 | -7.22E+06 | -1.05E-01 | -7.10E+11 |
| -7.52E+11 | -5.00E-04 | -7.37E+06 | -1.07E-01 | -7.24E+11 |
| -7.67E+11 | -5.10E-04 | -7.52E+06 | -1.09E-01 | -7.38E+11 |
| -7.82E+11 | -5.20E-04 | -7.67E+06 | -1.11E-01 | -7.53E+11 |
| -7.97E+11 | -5.30E-04 | -7.81E+06 | -1.13E-01 | -7.67E+11 |
| -8.12E+11 | -5.40E-04 | -7.96E+06 | -1.16E-01 | -7.82E+11 |
| -8.27E+11 | -5.50E-04 | -8.11E+06 | -1.18E-01 | -7.96E+11 |
| -8.42E+11 | -5.60E-04 | -8.25E+06 | -1.20E-01 | -8.10E+11 |
| -8.57E+11 | -5.70E-04 | -8.40E+06 | -1.22E-01 | -8.15E+11 |
| -8.70E+11 | -5.78E-04 | -8.52E+06 | -1.24E-01 | -8.29E+11 |
| -8.84E+11 | -5.88E-04 | -8.66E+06 | -1.26E-01 | -8.40E+11 |
| -8.95E+11 | -5.96E-04 | -8.77E+06 | -1.28E-01 | -8.46E+11 |
| -9.03E+11 | -6.03E-04 | -8.85E+06 | -1.29E-01 | -8.52E+11 |
| -9.09E+11 | -6.09E-04 | -8.91E+06 | -1.30E-01 | -8.57E+11 |
| -9.15E+11 | -6.16E-04 | -8.97E+06 | -1.32E-01 | -8.60E+11 |
| -9.20E+11 | -6.22E-04 | -9.01E+06 | -1.33E-01 | -8.62E+11 |
| -9.23E+11 | -6.28E-04 | -9.04E+06 | -1.34E-01 | -8.63E+11 |
| -9.24E+11 | -6.33E-04 | -9.05E+06 | -1.36E-01 | -8.65E+11 |
| -9.25E+11 | -6.43E-04 | -9.07E+06 | -1.38E-01 | -8.66E+11 |
| -9.27E+11 | -6.50E-04 | -9.08E+06 | -1.39E-01 | -8.66E+11 |
| -9.28E+11 | -6.57E-04 | -9.09E+06 | -1.41E-01 | -8.66E+11 |
| -9.28E+11 | -6.63E-04 | -9.09E+06 | -1.42E-01 | -8.67E+11 |
| -9.28E+11 | -6.68E-04 | -9.10E+06 | -1.43E-01 | -8.67E+11 |
| -9.28E+11 | -6.72E-04 | -9.10E+06 | -1.44E-01 | -8.67E+11 |
| -9.28E+11 | -6.77E-04 | -9.09E+06 | -1.45E-01 | -8.67E+11 |
| -9.27E+11 | -6.83E-04 | -9.09E+06 | -1.46E-01 | -8.66E+11 |
| -9.27E+11 | -6.87E-04 | -9.08E+06 | -1.47E-01 | -8.64E+11 |
| -9.24E+11 | -6.97E-04 | -9.05E+06 | -1.49E-01 | -8.60E+11 |
| -9.18E+11 | -7.07E-04 | -9.00E+06 | -1.51E-01 | -8.53E+11 |
| -9.10E+11 | -7.17E-04 | -8.92E+06 | -1.54E-01 | -8.51E+11 |
| -9.08E+11 | -7.18E-04 | -8.90E+06 | -1.54E-01 | -8.39E+11 |
| -8.95E+11 | -7.28E-04 | -8.77E+06 | -1.56E-01 | -8.38E+11 |
| -8.93E+11 | -7.30E-04 | -8.75E+06 | -1.56E-01 | -8.23E+11 |
| -8.77E+11 | -7.40E-04 | -8.60E+06 | -1.58E-01 | -8.13E+11 |
| -8.67E+11 | -7.47E-04 | -8.50E+06 | -1.60E-01 | -8.02E+11 |
| -8.55E+11 | -7.57E-04 | -8.38E+06 | -1.62E-01 | -7.99E+11 |
| -8.52E+11 | -7.60E-04 | -8.35E+06 | -1.63E-01 | -7.90E+11 |
| -8.43E+11 | -7.70E-04 | -8.26E+06 | -1.65E-01 | -7.83E+11 |
| -8.36E+11 | -7.80E-04 | -8.19E+06 | -1.67E-01 | -7.83E+11 |
| -8.35E+11 | -7.81E-04 | -8.19E+06 | -1.67E-01 | -7.77E+11 |
| -8.29E+11 | -7.91E-04 | -8.12E+06 | -1.69E-01 | -7.73E+11 |
| -8.25E+11 | -8.00E-04 | -8.08E+06 | -1.71E-01 | -7.68E+11 |
| -8.19E+11 | -8.10E-04 | -8.03E+06 | -1.73E-01 | -7.64E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -8.15E+11 | -8.20E-04 | -7.99E+06 | -1.75E-01 | -7.62E+11 |
| -8.13E+11 | -8.24E-04 | -7.97E+06 | -1.76E-01 | -7.60E+11 |
| -8.10E+11 | -8.31E-04 | -7.94E+06 | -1.78E-01 | -7.56E+11 |
| -8.06E+11 | -8.41E-04 | -7.89E+06 | -1.80E-01 | -7.52E+11 |
| -8.02E+11 | -8.51E-04 | -7.85E+06 | -1.82E-01 | -7.49E+11 |
| -7.98E+11 | -8.61E-04 | -7.82E+06 | -1.84E-01 | -7.48E+11 |
| -7.96E+11 | -8.64E-04 | -7.80E+06 | -1.85E-01 | -7.45E+11 |
| -7.93E+11 | -8.74E-04 | -7.77E+06 | -1.87E-01 | -7.44E+11 |
| -7.93E+11 | -8.75E-04 | -7.77E+06 | -1.87E-01 | -7.41E+11 |
| -7.89E+11 | -8.85E-04 | -7.73E+06 | -1.89E-01 | -7.37E+11 |
| -7.85E+11 | -8.95E-04 | -7.70E+06 | -1.92E-01 | -7.34E+11 |
| -7.82E+11 | -9.05E-04 | -7.66E+06 | -1.94E-01 | -7.31E+11 |
| -7.78E+11 | -9.15E-04 | -7.63E+06 | -1.96E-01 | -7.29E+11 |
| -7.76E+11 | -9.23E-04 | -7.60E+06 | -1.98E-01 | -7.27E+11 |
| -7.74E+11 | -9.30E-04 | -7.58E+06 | -1.99E-01 | -7.24E+11 |
| -7.71E+11 | -9.40E-04 | -7.55E+06 | -2.01E-01 | -7.21E+11 |
| -7.67E+11 | -9.50E-04 | -7.52E+06 | -2.03E-01 | -7.18E+11 |
| -7.64E+11 | -9.60E-04 | -7.49E+06 | -2.06E-01 | -7.15E+11 |
| -7.61E+11 | -9.70E-04 | -7.46E+06 | -2.08E-01 | -7.12E+11 |
| -7.58E+11 | -9.80E-04 | -7.43E+06 | -2.10E-01 | -7.10E+11 |
| -7.55E+11 | -9.90E-04 | -7.40E+06 | -2.12E-01 | -7.07E+11 |
| -7.55E+11 | -9.92E-04 | -7.40E+06 | -2.12E-01 | -7.07E+11 |
| -7.52E+11 | -1.00E-03 | -7.37E+06 | -2.14E-01 | -7.04E+11 |
| -7.50E+11 | -1.01E-03 | -7.35E+06 | -2.16E-01 | -7.02E+11 |
| -7.46E+11 | -1.02E-03 | -7.31E+06 | -2.18E-01 | -6.99E+11 |
| -7.44E+11 | -1.03E-03 | -7.29E+06 | -2.21E-01 | -6.96E+11 |
| -7.41E+11 | -1.04E-03 | -7.26E+06 | -2.23E-01 | -6.94E+11 |
| -7.38E+11 | -1.05E-03 | -7.23E+06 | -2.25E-01 | -6.91E+11 |
| -7.35E+11 | -1.06E-03 | -7.20E+06 | -2.27E-01 | -6.89E+11 |
| -7.33E+11 | -1.07E-03 | -7.18E+06 | -2.29E-01 | -6.88E+11 |
| -7.32E+11 | -1.07E-03 | -7.17E+06 | -2.30E-01 | -6.87E+11 |
| -7.30E+11 | -1.08E-03 | -7.15E+06 | -2.31E-01 | -6.84E+11 |
| -7.27E+11 | -1.09E-03 | -7.12E+06 | -2.33E-01 | -6.82E+11 |
| -7.24E+11 | -1.10E-03 | -7.10E+06 | -2.36E-01 | -6.79E+11 |
| -7.21E+11 | -1.11E-03 | -7.07E+06 | -2.38E-01 | -6.76E+11 |
| -7.19E+11 | -1.12E-03 | -7.04E+06 | -2.40E-01 | -6.74E+11 |
| -7.16E+11 | -1.13E-03 | -7.02E+06 | -2.42E-01 | -6.71E+11 |
| -7.13E+11 | -1.14E-03 | -6.99E+06 | -2.44E-01 | -6.69E+11 |
| -7.11E+11 | -1.15E-03 | -6.97E+06 | -2.46E-01 | -6.68E+11 |
| -7.09E+11 | -1.16E-03 | -6.95E+06 | -2.48E-01 | -6.65E+11 |
| -7.07E+11 | -1.17E-03 | -6.93E+06 | -2.50E-01 | -6.64E+11 |
| -7.06E+11 | -1.17E-03 | -6.91E+06 | -2.51E-01 | -6.62E+11 |
| -7.03E+11 | -1.18E-03 | -6.89E+06 | -2.53E-01 | -6.59E+11 |
| -7.00E+11 | -1.19E-03 | -6.86E+06 | -2.55E-01 | -6.57E+11 |
| -6.98E+11 | -1.20E-03 | -6.84E+06 | -2.57E-01 | -6.54E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -6.95E+11 | -1.21E-03 | -6.81E+06 | -2.59E-01 | -6.52E+11 |
| -6.93E+11 | -1.22E-03 | -6.79E+06 | -2.61E-01 | -6.50E+11 |
| -6.90E+11 | -1.23E-03 | -6.76E+06 | -2.64E-01 | -6.48E+11 |
| -6.88E+11 | -1.24E-03 | -6.74E+06 | -2.66E-01 | -6.45E+11 |
| -6.86E+11 | -1.25E-03 | -6.72E+06 | -2.68E-01 | -6.45E+11 |
| -6.85E+11 | -1.25E-03 | -6.71E+06 | -2.68E-01 | -6.43E+11 |
| -6.83E+11 | -1.26E-03 | -6.69E+06 | -2.70E-01 | -6.40E+11 |
| -6.80E+11 | -1.27E-03 | -6.67E+06 | -2.73E-01 | -6.40E+11 |
| -6.79E+11 | -1.28E-03 | -6.66E+06 | -2.74E-01 | -6.37E+11 |
| -6.77E+11 | -1.29E-03 | -6.63E+06 | -2.76E-01 | -6.35E+11 |
| -6.74E+11 | -1.30E-03 | -6.61E+06 | -2.78E-01 | -6.33E+11 |
| -6.72E+11 | -1.31E-03 | -6.58E+06 | -2.80E-01 | -6.31E+11 |
| -6.70E+11 | -1.32E-03 | -6.56E+06 | -2.82E-01 | -6.28E+11 |
| -6.67E+11 | -1.33E-03 | -6.54E+06 | -2.84E-01 | -6.26E+11 |
| -6.65E+11 | -1.34E-03 | -6.52E+06 | -2.87E-01 | -6.24E+11 |
| -6.63E+11 | -1.35E-03 | -6.50E+06 | -2.89E-01 | -6.22E+11 |
| -6.61E+11 | -1.36E-03 | -6.48E+06 | -2.91E-01 | -6.22E+11 |
| -6.61E+11 | -1.36E-03 | -6.47E+06 | -2.91E-01 | -6.20E+11 |
| -6.58E+11 | -1.37E-03 | -6.45E+06 | -2.93E-01 | -6.18E+11 |
| -6.56E+11 | -1.38E-03 | -6.43E+06 | -2.96E-01 | -6.16E+11 |
| -6.54E+11 | -1.39E-03 | -6.41E+06 | -2.98E-01 | -6.14E+11 |
| -6.52E+11 | -1.40E-03 | -6.39E+06 | -3.00E-01 | -6.12E+11 |
| -6.50E+11 | -1.41E-03 | -6.37E+06 | -3.02E-01 | -6.11E+11 |
| -6.48E+11 | -1.42E-03 | -6.35E+06 | -3.03E-01 | -6.09E+11 |
| -6.46E+11 | -1.43E-03 | -6.33E+06 | -3.05E-01 | -6.07E+11 |
| -6.44E+11 | -1.44E-03 | -6.31E+06 | -3.07E-01 | -6.05E+11 |
| -6.42E+11 | -1.45E-03 | -6.29E+06 | -3.10E-01 | -6.03E+11 |
| -6.40E+11 | -1.46E-03 | -6.27E+06 | -3.12E-01 | -6.01E+11 |
| -6.38E+11 | -1.47E-03 | -6.26E+06 | -3.14E-01 | -5.99E+11 |
| -6.36E+11 | -1.48E-03 | -6.24E+06 | -3.16E-01 | -5.98E+11 |
| -6.35E+11 | -1.49E-03 | -6.22E+06 | -3.18E-01 | -5.96E+11 |
| -6.33E+11 | -1.50E-03 | -6.20E+06 | -3.20E-01 | -5.94E+11 |
| -6.31E+11 | -1.51E-03 | -6.18E+06 | -3.22E-01 | -5.92E+11 |
| -6.29E+11 | -1.52E-03 | -6.16E+06 | -3.24E-01 | -5.90E+11 |
| -6.27E+11 | -1.53E-03 | -6.15E+06 | -3.27E-01 | -5.89E+11 |
| -6.25E+11 | -1.54E-03 | -6.13E+06 | -3.29E-01 | -5.87E+11 |
| -6.23E+11 | -1.55E-03 | -6.11E+06 | -3.31E-01 | -5.85E+11 |
| -6.22E+11 | -1.56E-03 | -6.09E+06 | -3.33E-01 | -5.83E+11 |
| -6.20E+11 | -1.57E-03 | -6.07E+06 | -3.35E-01 | -5.82E+11 |
| -6.18E+11 | -1.58E-03 | -6.06E+06 | -3.37E-01 | -5.80E+11 |
| -6.16E+11 | -1.59E-03 | -6.04E+06 | -3.39E-01 | -5.79E+11 |
| -6.15E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -5.78E+11 |
| -6.14E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -5.77E+11 |
| -6.12E+11 | -1.61E-03 | -6.00E+06 | -3.45E-01 | -5.75E+11 |
| -6.11E+11 | -1.62E-03 | -5.98E+06 | -3.47E-01 | -5.74E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -6.09E+11 | -1.63E-03 | -5.97E+06 | -3.49E-01 | -5.72E+11 |
| -6.07E+11 | -1.64E-03 | -5.95E+06 | -3.51E-01 | -5.70E+11 |
| -6.06E+11 | -1.65E-03 | -5.93E+06 | -3.53E-01 | -5.69E+11 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -5.69E+11 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -5.67E+11 |
| -6.02E+11 | -1.67E-03 | -5.90E+06 | -3.58E-01 | -5.65E+11 |
| -6.01E+11 | -1.68E-03 | -5.88E+06 | -3.60E-01 | -5.64E+11 |
| -5.99E+11 | -1.69E-03 | -5.87E+06 | -3.62E-01 | -5.62E+11 |
| -5.97E+11 | -1.70E-03 | -5.85E+06 | -3.64E-01 | -5.61E+11 |
| -5.96E+11 | -1.71E-03 | -5.84E+06 | -3.66E-01 | -5.59E+11 |
| -5.94E+11 | -1.72E-03 | -5.82E+06 | -3.68E-01 | -5.58E+11 |
| -5.92E+11 | -1.73E-03 | -5.80E+06 | -3.70E-01 | -5.56E+11 |
| -5.91E+11 | -1.74E-03 | -5.79E+06 | -3.73E-01 | -5.55E+11 |
| -5.89E+11 | -1.75E-03 | -5.78E+06 | -3.75E-01 | -5.53E+11 |
| -5.88E+11 | -1.76E-03 | -5.76E+06 | -3.77E-01 | -5.52E+11 |
| -5.86E+11 | -1.77E-03 | -5.75E+06 | -3.79E-01 | -5.51E+11 |
| -5.85E+11 | -1.78E-03 | -5.73E+06 | -3.81E-01 | -5.49E+11 |
| -5.84E+11 | -1.79E-03 | -5.72E+06 | -3.83E-01 | -5.49E+11 |
| -5.83E+11 | -1.80E-03 | -5.71E+06 | -3.85E-01 | -5.47E+11 |
| -5.81E+11 | -1.81E-03 | -5.70E+06 | -3.87E-01 | -5.46E+11 |
| -5.80E+11 | -1.82E-03 | -5.68E+06 | -3.89E-01 | -5.45E+11 |
| -5.78E+11 | -1.83E-03 | -5.67E+06 | -3.91E-01 | -5.43E+11 |
| -5.77E+11 | -1.84E-03 | -5.65E+06 | -3.93E-01 | -5.42E+11 |
| -5.76E+11 | -1.85E-03 | -5.64E+06 | -3.96E-01 | -5.41E+11 |
| -5.74E+11 | -1.86E-03 | -5.63E+06 | -3.98E-01 | -5.39E+11 |
| -5.73E+11 | -1.87E-03 | -5.62E+06 | -3.99E-01 | -5.38E+11 |
| -5.72E+11 | -1.88E-03 | -5.60E+06 | -4.01E-01 | -5.37E+11 |
| -5.70E+11 | -1.89E-03 | -5.59E+06 | -4.04E-01 | -5.35E+11 |
| -5.69E+11 | -1.90E-03 | -5.57E+06 | -4.06E-01 | -5.34E+11 |
| -5.67E+11 | -1.91E-03 | -5.56E+06 | -4.08E-01 | -5.33E+11 |
| -5.66E+11 | -1.92E-03 | -5.55E+06 | -4.10E-01 | -5.31E+11 |
| -5.65E+11 | -1.93E-03 | -5.53E+06 | -4.12E-01 | -5.30E+11 |
| -5.63E+11 | -1.94E-03 | -5.52E+06 | -4.14E-01 | -5.29E+11 |
| -5.62E+11 | -1.95E-03 | -5.51E+06 | -4.16E-01 | -5.28E+11 |
| -5.61E+11 | -1.96E-03 | -5.49E+06 | -4.19E-01 | -5.26E+11 |
| -5.59E+11 | -1.97E-03 | -5.48E+06 | -4.21E-01 | -5.25E+11 |
| -5.58E+11 | -1.98E-03 | -5.47E+06 | -4.23E-01 | -5.24E+11 |
| -5.57E+11 | -1.99E-03 | -5.46E+06 | -4.25E-01 | -5.23E+11 |
| -5.56E+11 | -2.00E-03 | -5.45E+06 | -4.27E-01 | -5.22E+11 |
| -5.55E+11 | -2.01E-03 | -5.43E+06 | -4.29E-01 | -5.21E+11 |
| -5.53E+11 | -2.02E-03 | -5.42E+06 | -4.31E-01 | -5.19E+11 |
| -5.52E+11 | -2.03E-03 | -5.41E+06 | -4.34E-01 | -5.18E+11 |
| -5.51E+11 | -2.04E-03 | -5.40E+06 | -4.36E-01 | -5.17E+11 |
| -5.50E+11 | -2.05E-03 | -5.39E+06 | -4.38E-01 | -5.17E+11 |
| -5.49E+11 | -2.05E-03 | -5.38E+06 | -4.39E-01 | -5.16E+11 |

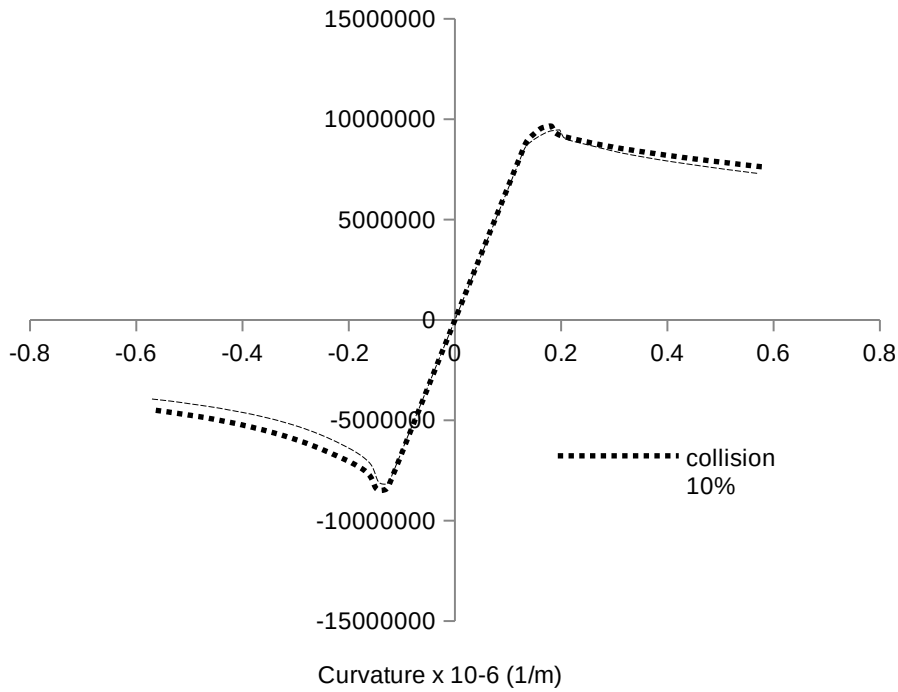
| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -5.48E+11 | -2.06E-03 | -5.37E+06 | -4.41E-01 | -5.15E+11 |
| -5.47E+11 | -2.07E-03 | -5.36E+06 | -4.43E-01 | -5.14E+11 |
| -5.46E+11 | -2.08E-03 | -5.35E+06 | -4.45E-01 | -5.13E+11 |
| -5.45E+11 | -2.09E-03 | -5.34E+06 | -4.47E-01 | -5.12E+11 |
| -5.44E+11 | -2.10E-03 | -5.33E+06 | -4.49E-01 | -5.10E+11 |
| -5.42E+11 | -2.11E-03 | -5.31E+06 | -4.52E-01 | -5.09E+11 |
| -5.41E+11 | -2.12E-03 | -5.30E+06 | -4.54E-01 | -5.08E+11 |
| -5.40E+11 | -2.13E-03 | -5.30E+06 | -4.55E-01 | -5.07E+11 |
| -5.39E+11 | -2.14E-03 | -5.28E+06 | -4.58E-01 | -5.06E+11 |
| -5.38E+11 | -2.15E-03 | -5.27E+06 | -4.60E-01 | -5.05E+11 |
| -5.37E+11 | -2.16E-03 | -5.26E+06 | -4.62E-01 | -5.04E+11 |
| -5.36E+11 | -2.17E-03 | -5.25E+06 | -4.64E-01 | -5.03E+11 |
| -5.35E+11 | -2.18E-03 | -5.24E+06 | -4.66E-01 | -5.02E+11 |
| -5.34E+11 | -2.19E-03 | -5.23E+06 | -4.68E-01 | -5.01E+11 |
| -5.33E+11 | -2.20E-03 | -5.22E+06 | -4.70E-01 | -5.00E+11 |
| -5.31E+11 | -2.21E-03 | -5.21E+06 | -4.73E-01 | -4.99E+11 |
| -5.30E+11 | -2.22E-03 | -5.20E+06 | -4.75E-01 | -4.98E+11 |
| -5.29E+11 | -2.23E-03 | -5.19E+06 | -4.77E-01 | -4.97E+11 |
| -5.28E+11 | -2.24E-03 | -5.18E+06 | -4.79E-01 | -4.96E+11 |
| -5.27E+11 | -2.25E-03 | -5.16E+06 | -4.81E-01 | -4.95E+11 |
| -5.26E+11 | -2.26E-03 | -5.15E+06 | -4.83E-01 | -4.94E+11 |
| -5.25E+11 | -2.27E-03 | -5.15E+06 | -4.85E-01 | -4.93E+11 |
| -5.24E+11 | -2.28E-03 | -5.14E+06 | -4.88E-01 | -4.92E+11 |
| -5.23E+11 | -2.29E-03 | -5.13E+06 | -4.90E-01 | -4.91E+11 |
| -5.22E+11 | -2.30E-03 | -5.12E+06 | -4.92E-01 | -4.90E+11 |
| -5.21E+11 | -2.31E-03 | -5.11E+06 | -4.94E-01 | -4.89E+11 |
| -5.20E+11 | -2.32E-03 | -5.10E+06 | -4.96E-01 | -4.88E+11 |
| -5.19E+11 | -2.33E-03 | -5.09E+06 | -4.98E-01 | -4.87E+11 |
| -5.19E+11 | -2.34E-03 | -5.08E+06 | -5.00E-01 | -4.86E+11 |
| -5.18E+11 | -2.35E-03 | -5.07E+06 | -5.03E-01 | -4.86E+11 |
| -5.17E+11 | -2.36E-03 | -5.06E+06 | -5.05E-01 | -4.85E+11 |
| -5.16E+11 | -2.37E-03 | -5.06E+06 | -5.07E-01 | -4.84E+11 |
| -5.15E+11 | -2.38E-03 | -5.05E+06 | -5.09E-01 | -4.84E+11 |
| -5.14E+11 | -2.39E-03 | -5.04E+06 | -5.11E-01 | -4.83E+11 |
| -5.14E+11 | -2.40E-03 | -5.03E+06 | -5.13E-01 | -4.82E+11 |
| -5.13E+11 | -2.41E-03 | -5.02E+06 | -5.15E-01 | -4.81E+11 |
| -5.12E+11 | -2.42E-03 | -5.01E+06 | -5.17E-01 | -4.80E+11 |
| -5.11E+11 | -2.43E-03 | -5.00E+06 | -5.19E-01 | -4.79E+11 |
| -5.10E+11 | -2.44E-03 | -5.00E+06 | -5.21E-01 | -4.79E+11 |
| -5.09E+11 | -2.45E-03 | -4.99E+06 | -5.24E-01 | -4.78E+11 |
| -5.08E+11 | -2.46E-03 | -4.98E+06 | -5.26E-01 | -4.77E+11 |
| -5.07E+11 | -2.47E-03 | -4.97E+06 | -5.28E-01 | -4.76E+11 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -4.76E+11 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -4.75E+11 |
| -5.05E+11 | -2.49E-03 | -4.95E+06 | -5.32E-01 | -4.74E+11 |

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| -5.05E+11 | -2.50E-03 | -4.94E+06 | -5.34E-01 | -4.73E+11 |
| -5.04E+11 | -2.51E-03 | -4.94E+06 | -5.36E-01 | -4.73E+11 |
| -5.03E+11 | -2.51E-03 | -4.93E+06 | -5.38E-01 | -4.72E+11 |
| -5.02E+11 | -2.52E-03 | -4.92E+06 | -5.40E-01 | -4.71E+11 |
| -5.01E+11 | -2.53E-03 | -4.91E+06 | -5.42E-01 | -4.70E+11 |
| -5.00E+11 | -2.54E-03 | -4.90E+06 | -5.45E-01 | -4.69E+11 |
| -4.99E+11 | -2.55E-03 | -4.89E+06 | -5.47E-01 | -4.68E+11 |
| -4.98E+11 | -2.56E-03 | -4.88E+06 | -5.49E-01 | -4.67E+11 |
| -4.98E+11 | -2.57E-03 | -4.88E+06 | -5.51E-01 | -4.67E+11 |
| -4.97E+11 | -2.58E-03 | -4.87E+06 | -5.53E-01 | -4.66E+11 |
| -4.96E+11 | -2.59E-03 | -4.86E+06 | -5.55E-01 | -4.65E+11 |
| -4.95E+11 | -2.60E-03 | -4.85E+06 | -5.57E-01 | -4.64E+11 |
| -4.94E+11 | -2.61E-03 | -4.84E+06 | -5.60E-01 | -4.63E+11 |
| -4.93E+11 | -2.62E-03 | -4.84E+06 | -5.62E-01 | -4.63E+11 |
| -4.93E+11 | -2.63E-03 | -4.83E+06 | -5.64E-01 | -4.62E+11 |
| -4.92E+11 | -2.64E-03 | -4.82E+06 | -5.66E-01 | -4.61E+11 |
| -4.91E+11 | -2.65E-03 | -4.81E+06 | -5.68E-01 | -4.60E+11 |
| -4.90E+11 | -2.66E-03 | -4.80E+06 | -5.70E-01 | -4.60E+11 |
| -4.89E+11 | -2.67E-03 | -4.80E+06 | -5.72E-01 | -4.59E+11 |

10% tubrukan

70% tubrukan

| 4670 | 9.80E-06 | 1.00E-06 | | | 4670 | 9.80E-06 |
|----------|----------|-----------|--|----------|----------|----------|
| Rotasi | Momen | Curvature | | Momen | Rotasi | Momen |
| 2.70E-03 | 7.63E+06 | 5.78E-01 | | 7.45E+11 | 2.66E-03 | 7.30E+06 |
| | | | | | E-03 | 7.31E+06 |
| | | | | | E-03 | 7.32E+06 |
| | | | | | E-03 | 7.32E+06 |
| | | | | | E-03 | 7.33E+06 |
| | | | | | E-03 | 7.34E+06 |
| | | | | | E-03 | 7.35E+06 |
| | | | | | E-03 | 7.35E+06 |
| | | | | | E-03 | 7.36E+06 |
| | | | | | E-03 | 7.37E+06 |
| | | | | | E-03 | 7.37E+06 |
| | | | | | E-03 | 7.38E+06 |
| | | | | | E-03 | 7.39E+06 |
| | | | | | E-03 | 7.39E+06 |
| | | | | | E-03 | 7.40E+06 |
| | | | | | E-03 | 7.41E+06 |
| | | | | | E-03 | 7.41E+06 |
| | | | | | E-03 | 7.42E+06 |
| | | | | | E-03 | 7.43E+06 |
| 2.51E-03 | 7.74E+06 | 5.38E-01 | | 7.59E+11 | 2.47E-03 | 7.44E+06 |
| 2.50E-03 | 7.75E+06 | 5.36E-01 | | 7.60E+11 | 2.46E-03 | 7.45E+06 |
| 2.49E-03 | 7.76E+06 | 5.34E-01 | | 7.60E+11 | 2.45E-03 | 7.45E+06 |
| 2.48E-03 | 7.77E+06 | 5.32E-01 | | 7.61E+11 | 2.44E-03 | 7.46E+06 |
| 2.47E-03 | 7.77E+06 | 5.30E-01 | | 7.62E+11 | 2.43E-03 | 7.46E+06 |
| 2.46E-03 | 7.78E+06 | 5.28E-01 | | 7.62E+11 | 2.42E-03 | 7.47E+06 |
| 2.45E-03 | 7.79E+06 | 5.25E-01 | | 7.63E+11 | 2.41E-03 | 7.48E+06 |
| 2.45E-03 | 7.79E+06 | 5.25E-01 | | 7.64E+11 | 2.40E-03 | 7.49E+06 |
| 2.44E-03 | 7.79E+06 | 5.23E-01 | | 7.65E+11 | 2.39E-03 | 7.49E+06 |
| 2.43E-03 | 7.80E+06 | 5.21E-01 | | 7.65E+11 | 2.38E-03 | 7.50E+06 |
| 2.42E-03 | 7.81E+06 | 5.19E-01 | | 7.66E+11 | 2.37E-03 | 7.51E+06 |
| 2.41E-03 | 7.81E+06 | 5.17E-01 | | 7.67E+11 | 2.36E-03 | 7.51E+06 |
| 2.40E-03 | 7.82E+06 | 5.15E-01 | | 7.68E+11 | 2.35E-03 | 7.52E+06 |
| 2.39E-03 | 7.83E+06 | 5.13E-01 | | 7.68E+11 | 2.34E-03 | 7.53E+06 |
| 2.38E-03 | 7.83E+06 | 5.10E-01 | | 7.69E+11 | 2.33E-03 | 7.54E+06 |
| 2.37E-03 | 7.84E+06 | 5.08E-01 | | 7.70E+11 | 2.32E-03 | 7.55E+06 |
| 2.36E-03 | 7.85E+06 | 5.06E-01 | | 7.71E+11 | 2.31E-03 | 7.55E+06 |
| 2.35E-03 | 7.85E+06 | 5.04E-01 | | 7.72E+11 | 2.30E-03 | 7.56E+06 |
| 2.34E-03 | 7.86E+06 | 5.02E-01 | | 7.72E+11 | 2.30E-03 | 7.57E+06 |
| 2.33E-03 | 7.87E+06 | 5.00E-01 | | 7.73E+11 | 2.29E-03 | 7.57E+06 |
| 2.32E-03 | 7.87E+06 | 4.98E-01 | | 7.74E+11 | 2.28E-03 | 7.58E+06 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 2.32E-03 | 7.88E+06 | 4.96E-01 | 7.74E+11 | 2.27E-03 | 7.59E+06 |
| 2.31E-03 | 7.88E+06 | 4.94E-01 | 7.75E+11 | 2.26E-03 | 7.60E+06 |
| 2.30E-03 | 7.89E+06 | 4.91E-01 | 7.76E+11 | 2.25E-03 | 7.60E+06 |
| 2.29E-03 | 7.90E+06 | 4.89E-01 | 7.77E+11 | 2.24E-03 | 7.61E+06 |
| 2.28E-03 | 7.90E+06 | 4.87E-01 | 7.78E+11 | 2.23E-03 | 7.62E+06 |
| 2.27E-03 | 7.91E+06 | 4.85E-01 | 7.78E+11 | 2.22E-03 | 7.63E+06 |
| 2.26E-03 | 7.92E+06 | 4.83E-01 | 7.79E+11 | 2.21E-03 | 7.64E+06 |
| 2.25E-03 | 7.92E+06 | 4.81E-01 | 7.80E+11 | 2.20E-03 | 7.64E+06 |
| 2.24E-03 | 7.93E+06 | 4.79E-01 | 7.80E+11 | 2.20E-03 | 7.65E+06 |
| 2.23E-03 | 7.94E+06 | 4.76E-01 | 7.81E+11 | 2.19E-03 | 7.65E+06 |
| 2.22E-03 | 7.94E+06 | 4.74E-01 | 7.82E+11 | 2.18E-03 | 7.66E+06 |
| 2.21E-03 | 7.95E+06 | 4.72E-01 | 7.83E+11 | 2.17E-03 | 7.67E+06 |
| 2.20E-03 | 7.96E+06 | 4.70E-01 | 7.83E+11 | 2.16E-03 | 7.68E+06 |
| 2.19E-03 | 7.97E+06 | 4.68E-01 | 7.84E+11 | 2.15E-03 | 7.68E+06 |
| 2.18E-03 | 7.98E+06 | 4.66E-01 | 7.85E+11 | 2.14E-03 | 7.69E+06 |
| 2.17E-03 | 7.98E+06 | 4.64E-01 | 7.86E+11 | 2.13E-03 | 7.70E+06 |
| 2.16E-03 | 7.99E+06 | 4.63E-01 | 7.87E+11 | 2.12E-03 | 7.71E+06 |
| 2.15E-03 | 7.99E+06 | 4.61E-01 | 7.87E+11 | 2.11E-03 | 7.72E+06 |
| 2.14E-03 | 8.00E+06 | 4.58E-01 | 7.88E+11 | 2.10E-03 | 7.72E+06 |
| 2.13E-03 | 8.00E+06 | 4.56E-01 | 7.89E+11 | 2.09E-03 | 7.73E+06 |
| 2.12E-03 | 8.01E+06 | 4.54E-01 | 7.90E+11 | 2.08E-03 | 7.74E+06 |
| 2.11E-03 | 8.02E+06 | 4.52E-01 | 7.91E+11 | 2.07E-03 | 7.75E+06 |
| 2.10E-03 | 8.03E+06 | 4.50E-01 | 7.92E+11 | 2.06E-03 | 7.76E+06 |
| 2.09E-03 | 8.03E+06 | 4.48E-01 | 7.92E+11 | 2.05E-03 | 7.76E+06 |
| 2.08E-03 | 8.04E+06 | 4.46E-01 | 7.93E+11 | 2.04E-03 | 7.77E+06 |
| 2.07E-03 | 8.05E+06 | 4.43E-01 | 7.94E+11 | 2.03E-03 | 7.78E+06 |
| 2.06E-03 | 8.05E+06 | 4.41E-01 | 7.95E+11 | 2.02E-03 | 7.79E+06 |
| 2.05E-03 | 8.06E+06 | 4.39E-01 | 7.96E+11 | 2.01E-03 | 7.80E+06 |
| 2.04E-03 | 8.07E+06 | 4.37E-01 | 7.97E+11 | 2.00E-03 | 7.81E+06 |
| 2.03E-03 | 8.07E+06 | 4.36E-01 | 7.98E+11 | 1.99E-03 | 7.82E+06 |
| 2.02E-03 | 8.08E+06 | 4.33E-01 | 7.98E+11 | 1.98E-03 | 7.82E+06 |
| 2.01E-03 | 8.09E+06 | 4.31E-01 | 7.99E+11 | 1.98E-03 | 7.83E+06 |
| 2.00E-03 | 8.09E+06 | 4.29E-01 | 7.99E+11 | 1.97E-03 | 7.83E+06 |
| 1.99E-03 | 8.10E+06 | 4.27E-01 | 8.00E+11 | 1.96E-03 | 7.84E+06 |
| 1.98E-03 | 8.11E+06 | 4.25E-01 | 8.01E+11 | 1.95E-03 | 7.85E+06 |
| 1.97E-03 | 8.12E+06 | 4.23E-01 | 8.02E+11 | 1.94E-03 | 7.86E+06 |
| 1.96E-03 | 8.13E+06 | 4.21E-01 | 8.03E+11 | 1.93E-03 | 7.87E+06 |
| 1.95E-03 | 8.13E+06 | 4.18E-01 | 8.04E+11 | 1.92E-03 | 7.88E+06 |
| 1.94E-03 | 8.14E+06 | 4.16E-01 | 8.05E+11 | 1.91E-03 | 7.89E+06 |
| 1.93E-03 | 8.15E+06 | 4.14E-01 | 8.06E+11 | 1.90E-03 | 7.89E+06 |
| 1.92E-03 | 8.16E+06 | 4.12E-01 | 8.06E+11 | 1.89E-03 | 7.90E+06 |
| 1.91E-03 | 8.17E+06 | 4.10E-01 | 8.07E+11 | 1.88E-03 | 7.91E+06 |
| 1.91E-03 | 8.17E+06 | 4.08E-01 | 8.08E+11 | 1.87E-03 | 7.92E+06 |
| 1.90E-03 | 8.18E+06 | 4.06E-01 | 8.09E+11 | 1.86E-03 | 7.93E+06 |
| 1.89E-03 | 8.18E+06 | 4.04E-01 | 8.10E+11 | 1.85E-03 | 7.93E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 1.88E-03 | 8.19E+06 | 4.02E-01 | 8.11E+11 | 1.84E-03 | 7.94E+06 |
| 1.87E-03 | 8.20E+06 | 4.00E-01 | 8.12E+11 | 1.83E-03 | 7.95E+06 |
| 1.86E-03 | 8.21E+06 | 3.97E-01 | 8.12E+11 | 1.82E-03 | 7.96E+06 |
| 1.85E-03 | 8.22E+06 | 3.95E-01 | 8.13E+11 | 1.81E-03 | 7.97E+06 |
| 1.84E-03 | 8.22E+06 | 3.93E-01 | 8.14E+11 | 1.80E-03 | 7.98E+06 |
| 1.83E-03 | 8.23E+06 | 3.91E-01 | 8.15E+11 | 1.79E-03 | 7.99E+06 |
| 1.82E-03 | 8.24E+06 | 3.89E-01 | 8.16E+11 | 1.78E-03 | 8.00E+06 |
| 1.81E-03 | 8.25E+06 | 3.87E-01 | 8.17E+11 | 1.77E-03 | 8.01E+06 |
| 1.80E-03 | 8.25E+06 | 3.86E-01 | 8.18E+11 | 1.76E-03 | 8.02E+06 |
| 1.79E-03 | 8.26E+06 | 3.84E-01 | 8.19E+11 | 1.75E-03 | 8.03E+06 |
| 1.78E-03 | 8.27E+06 | 3.81E-01 | 8.20E+11 | 1.74E-03 | 8.04E+06 |
| 1.77E-03 | 8.28E+06 | 3.79E-01 | 8.21E+11 | 1.73E-03 | 8.04E+06 |
| 1.76E-03 | 8.28E+06 | 3.77E-01 | 8.22E+11 | 1.72E-03 | 8.05E+06 |
| 1.75E-03 | 8.29E+06 | 3.75E-01 | 8.23E+11 | 1.71E-03 | 8.06E+06 |
| 1.74E-03 | 8.30E+06 | 3.73E-01 | 8.23E+11 | 1.71E-03 | 8.07E+06 |
| 1.73E-03 | 8.31E+06 | 3.71E-01 | 8.24E+11 | 1.70E-03 | 8.08E+06 |
| 1.72E-03 | 8.32E+06 | 3.69E-01 | 8.25E+11 | 1.69E-03 | 8.08E+06 |
| 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.26E+11 | 1.68E-03 | 8.09E+06 |
| 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.27E+11 | 1.67E-03 | 8.10E+06 |
| 1.70E-03 | 8.33E+06 | 3.64E-01 | 8.28E+11 | 1.66E-03 | 8.12E+06 |
| 1.69E-03 | 8.34E+06 | 3.62E-01 | 8.29E+11 | 1.65E-03 | 8.13E+06 |
| 1.68E-03 | 8.35E+06 | 3.60E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 |
| 1.67E-03 | 8.36E+06 | 3.58E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 |
| 1.66E-03 | 8.37E+06 | 3.55E-01 | 8.31E+11 | 1.63E-03 | 8.14E+06 |
| 1.65E-03 | 8.38E+06 | 3.53E-01 | 8.32E+11 | 1.62E-03 | 8.15E+06 |
| 1.64E-03 | 8.38E+06 | 3.51E-01 | 8.33E+11 | 1.61E-03 | 8.17E+06 |
| 1.63E-03 | 8.39E+06 | 3.49E-01 | 8.34E+11 | 1.60E-03 | 8.18E+06 |
| 1.62E-03 | 8.40E+06 | 3.47E-01 | 8.35E+11 | 1.59E-03 | 8.19E+06 |
| 1.62E-03 | 8.40E+06 | 3.46E-01 | 8.36E+11 | 1.58E-03 | 8.20E+06 |
| 1.61E-03 | 8.41E+06 | 3.44E-01 | 8.38E+11 | 1.57E-03 | 8.21E+06 |
| 1.60E-03 | 8.42E+06 | 3.42E-01 | 8.38E+11 | 1.56E-03 | 8.21E+06 |
| 1.59E-03 | 8.43E+06 | 3.40E-01 | 8.39E+11 | 1.55E-03 | 8.23E+06 |
| 1.58E-03 | 8.44E+06 | 3.38E-01 | 8.41E+11 | 1.54E-03 | 8.24E+06 |
| 1.57E-03 | 8.45E+06 | 3.36E-01 | 8.42E+11 | 1.53E-03 | 8.25E+06 |
| 1.56E-03 | 8.46E+06 | 3.34E-01 | 8.43E+11 | 1.52E-03 | 8.26E+06 |
| 1.55E-03 | 8.46E+06 | 3.31E-01 | 8.44E+11 | 1.51E-03 | 8.27E+06 |
| 1.54E-03 | 8.47E+06 | 3.29E-01 | 8.45E+11 | 1.50E-03 | 8.28E+06 |
| 1.53E-03 | 8.48E+06 | 3.27E-01 | 8.46E+11 | 1.49E-03 | 8.29E+06 |
| 1.52E-03 | 8.49E+06 | 3.25E-01 | 8.47E+11 | 1.48E-03 | 8.30E+06 |
| 1.51E-03 | 8.50E+06 | 3.23E-01 | 8.48E+11 | 1.47E-03 | 8.31E+06 |
| 1.50E-03 | 8.51E+06 | 3.21E-01 | 8.49E+11 | 1.46E-03 | 8.32E+06 |
| 1.49E-03 | 8.52E+06 | 3.19E-01 | 8.50E+11 | 1.45E-03 | 8.33E+06 |
| 1.48E-03 | 8.53E+06 | 3.17E-01 | 8.52E+11 | 1.44E-03 | 8.34E+06 |
| 1.47E-03 | 8.53E+06 | 3.15E-01 | 8.52E+11 | 1.44E-03 | 8.35E+06 |
| 1.46E-03 | 8.54E+06 | 3.13E-01 | 8.53E+11 | 1.43E-03 | 8.36E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 1.45E-03 | 8.55E+06 | 3.10E-01 | 8.55E+11 | 1.42E-03 | 8.37E+06 |
| 1.44E-03 | 8.56E+06 | 3.08E-01 | 8.56E+11 | 1.41E-03 | 8.39E+06 |
| 1.43E-03 | 8.57E+06 | 3.06E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 |
| 1.42E-03 | 8.58E+06 | 3.04E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 |
| 1.41E-03 | 8.59E+06 | 3.02E-01 | 8.59E+11 | 1.39E-03 | 8.41E+06 |
| 1.40E-03 | 8.60E+06 | 3.00E-01 | 8.60E+11 | 1.38E-03 | 8.43E+06 |
| 1.39E-03 | 8.61E+06 | 2.98E-01 | 8.61E+11 | 1.37E-03 | 8.44E+06 |
| 1.39E-03 | 8.62E+06 | 2.97E-01 | 8.63E+11 | 1.36E-03 | 8.46E+06 |
| 1.38E-03 | 8.62E+06 | 2.95E-01 | 8.64E+11 | 1.35E-03 | 8.47E+06 |
| 1.37E-03 | 8.63E+06 | 2.93E-01 | 8.66E+11 | 1.34E-03 | 8.48E+06 |
| 1.36E-03 | 8.64E+06 | 2.90E-01 | 8.66E+11 | 1.34E-03 | 8.49E+06 |
| 1.35E-03 | 8.66E+06 | 2.88E-01 | 8.67E+11 | 1.33E-03 | 8.50E+06 |
| 1.34E-03 | 8.67E+06 | 2.86E-01 | 8.69E+11 | 1.32E-03 | 8.51E+06 |
| 1.33E-03 | 8.68E+06 | 2.84E-01 | 8.70E+11 | 1.31E-03 | 8.53E+06 |
| 1.32E-03 | 8.69E+06 | 2.82E-01 | 8.71E+11 | 1.30E-03 | 8.54E+06 |
| 1.31E-03 | 8.70E+06 | 2.80E-01 | 8.72E+11 | 1.30E-03 | 8.54E+06 |
| 1.30E-03 | 8.71E+06 | 2.78E-01 | 8.73E+11 | 1.29E-03 | 8.56E+06 |
| 1.29E-03 | 8.72E+06 | 2.75E-01 | 8.75E+11 | 1.28E-03 | 8.57E+06 |
| 1.28E-03 | 8.73E+06 | 2.73E-01 | 8.76E+11 | 1.27E-03 | 8.58E+06 |
| 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.78E+11 | 1.26E-03 | 8.60E+06 |
| 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.79E+11 | 1.25E-03 | 8.62E+06 |
| 1.26E-03 | 8.75E+06 | 2.69E-01 | 8.79E+11 | 1.24E-03 | 8.62E+06 |
| 1.25E-03 | 8.76E+06 | 2.67E-01 | 8.81E+11 | 1.23E-03 | 8.63E+06 |
| 1.24E-03 | 8.78E+06 | 2.65E-01 | 8.82E+11 | 1.22E-03 | 8.64E+06 |
| 1.23E-03 | 8.79E+06 | 2.63E-01 | 8.83E+11 | 1.21E-03 | 8.66E+06 |
| 1.22E-03 | 8.80E+06 | 2.60E-01 | 8.85E+11 | 1.20E-03 | 8.67E+06 |
| 1.21E-03 | 8.81E+06 | 2.59E-01 | 8.86E+11 | 1.20E-03 | 8.68E+06 |
| 1.20E-03 | 8.82E+06 | 2.57E-01 | 8.87E+11 | 1.19E-03 | 8.69E+06 |
| 1.19E-03 | 8.83E+06 | 2.55E-01 | 8.89E+11 | 1.18E-03 | 8.71E+06 |
| 1.18E-03 | 8.84E+06 | 2.53E-01 | 8.90E+11 | 1.17E-03 | 8.72E+06 |
| 1.17E-03 | 8.85E+06 | 2.51E-01 | 8.91E+11 | 1.16E-03 | 8.74E+06 |
| 1.16E-03 | 8.87E+06 | 2.49E-01 | 8.93E+11 | 1.15E-03 | 8.75E+06 |
| 1.15E-03 | 8.88E+06 | 2.47E-01 | 8.94E+11 | 1.14E-03 | 8.76E+06 |
| 1.14E-03 | 8.89E+06 | 2.45E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 |
| 1.13E-03 | 8.90E+06 | 2.43E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 |
| 1.12E-03 | 8.91E+06 | 2.40E-01 | 8.97E+11 | 1.12E-03 | 8.79E+06 |
| 1.11E-03 | 8.93E+06 | 2.38E-01 | 8.98E+11 | 1.11E-03 | 8.80E+06 |
| 1.11E-03 | 8.93E+06 | 2.37E-01 | 9.00E+11 | 1.10E-03 | 8.82E+06 |
| 1.10E-03 | 8.94E+06 | 2.35E-01 | 9.02E+11 | 1.09E-03 | 8.83E+06 |
| 1.09E-03 | 8.96E+06 | 2.33E-01 | 9.03E+11 | 1.08E-03 | 8.85E+06 |
| 1.08E-03 | 8.97E+06 | 2.31E-01 | 9.04E+11 | 1.07E-03 | 8.85E+06 |
| 1.07E-03 | 8.99E+06 | 2.29E-01 | 9.05E+11 | 1.06E-03 | 8.87E+06 |
| 1.07E-03 | 8.99E+06 | 2.28E-01 | 9.07E+11 | 1.05E-03 | 8.88E+06 |
| 1.06E-03 | 9.00E+06 | 2.26E-01 | 9.07E+11 | 1.04E-03 | 8.89E+06 |
| 1.05E-03 | 9.02E+06 | 2.24E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 1.04E-03 | 9.03E+06 | 2.22E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 |
| 1.03E-03 | 9.04E+06 | 2.20E-01 | 9.11E+11 | 1.02E-03 | 8.92E+06 |
| 1.02E-03 | 9.05E+06 | 2.18E-01 | 9.12E+11 | 1.01E-03 | 8.94E+06 |
| 1.01E-03 | 9.07E+06 | 2.16E-01 | 9.14E+11 | 1.00E-03 | 8.96E+06 |
| 9.97E-04 | 9.08E+06 | 2.14E-01 | 9.16E+11 | 9.93E-04 | 8.98E+06 |
| 9.87E-04 | 9.10E+06 | 2.11E-01 | 9.19E+11 | 9.83E-04 | 9.01E+06 |
| 9.82E-04 | 9.10E+06 | 2.10E-01 | 9.20E+11 | 9.79E-04 | 9.02E+06 |
| 9.72E-04 | 9.12E+06 | 2.08E-01 | 9.23E+11 | 9.69E-04 | 9.05E+06 |
| 9.62E-04 | 9.13E+06 | 2.06E-01 | 9.24E+11 | 9.65E-04 | 9.06E+06 |
| 9.56E-04 | 9.14E+06 | 2.05E-01 | 9.27E+11 | 9.57E-04 | 9.09E+06 |
| 9.46E-04 | 9.16E+06 | 2.03E-01 | 9.29E+11 | 9.53E-04 | 9.11E+06 |
| 9.39E-04 | 9.17E+06 | 2.01E-01 | 9.40E+11 | 9.43E-04 | 9.21E+06 |
| 9.29E-04 | 9.19E+06 | 1.99E-01 | 9.53E+11 | 9.33E-04 | 9.34E+06 |
| 9.19E-04 | 9.21E+06 | 1.97E-01 | 9.54E+11 | 9.33E-04 | 9.35E+06 |
| 9.09E-04 | 9.23E+06 | 1.95E-01 | 9.65E+11 | 9.23E-04 | 9.45E+06 |
| 8.99E-04 | 9.27E+06 | 1.93E-01 | 9.66E+11 | 9.20E-04 | 9.47E+06 |
| 8.95E-04 | 9.28E+06 | 1.92E-01 | 9.66E+11 | 9.10E-04 | 9.46E+06 |
| 8.85E-04 | 9.32E+06 | 1.89E-01 | 9.65E+11 | 9.00E-04 | 9.46E+06 |
| 8.78E-04 | 9.35E+06 | 1.88E-01 | 9.65E+11 | 8.94E-04 | 9.46E+06 |
| 8.74E-04 | 9.37E+06 | 1.87E-01 | 9.64E+11 | 8.84E-04 | 9.45E+06 |
| 8.64E-04 | 9.50E+06 | 1.85E-01 | 9.63E+11 | 8.74E-04 | 9.44E+06 |
| 8.55E-04 | 9.60E+06 | 1.83E-01 | 9.63E+11 | 8.69E-04 | 9.44E+06 |
| 8.51E-04 | 9.65E+06 | 1.82E-01 | 9.62E+11 | 8.59E-04 | 9.43E+06 |
| 8.41E-04 | 9.66E+06 | 1.80E-01 | 9.61E+11 | 8.49E-04 | 9.42E+06 |
| 8.40E-04 | 9.66E+06 | 1.80E-01 | 9.61E+11 | 8.48E-04 | 9.42E+06 |
| 8.30E-04 | 9.65E+06 | 1.78E-01 | 9.60E+11 | 8.38E-04 | 9.41E+06 |
| 8.20E-04 | 9.64E+06 | 1.75E-01 | 9.58E+11 | 8.28E-04 | 9.39E+06 |
| 8.10E-04 | 9.63E+06 | 1.73E-01 | 9.56E+11 | 8.18E-04 | 9.37E+06 |
| 8.00E-04 | 9.62E+06 | 1.71E-01 | 9.55E+11 | 8.10E-04 | 9.35E+06 |
| 7.91E-04 | 9.61E+06 | 1.69E-01 | 9.52E+11 | 8.00E-04 | 9.33E+06 |
| 7.81E-04 | 9.59E+06 | 1.67E-01 | 9.49E+11 | 7.90E-04 | 9.30E+06 |
| 7.72E-04 | 9.58E+06 | 1.65E-01 | 9.47E+11 | 7.82E-04 | 9.28E+06 |
| 7.62E-04 | 9.56E+06 | 1.63E-01 | 9.44E+11 | 7.72E-04 | 9.25E+06 |
| 7.56E-04 | 9.54E+06 | 1.62E-01 | 9.41E+11 | 7.62E-04 | 9.22E+06 |
| 7.55E-04 | 9.54E+06 | 1.62E-01 | 9.38E+11 | 7.52E-04 | 9.19E+06 |
| 7.45E-04 | 9.50E+06 | 1.60E-01 | 9.34E+11 | 7.42E-04 | 9.16E+06 |
| 7.35E-04 | 9.45E+06 | 1.57E-01 | 9.32E+11 | 7.36E-04 | 9.14E+06 |
| 7.32E-04 | 9.44E+06 | 1.57E-01 | 9.29E+11 | 7.26E-04 | 9.10E+06 |
| 7.22E-04 | 9.40E+06 | 1.55E-01 | 9.25E+11 | 7.16E-04 | 9.07E+06 |
| 7.13E-04 | 9.35E+06 | 1.53E-01 | 9.21E+11 | 7.06E-04 | 9.03E+06 |
| 7.06E-04 | 9.32E+06 | 1.51E-01 | 9.18E+11 | 6.98E-04 | 9.00E+06 |
| 6.96E-04 | 9.27E+06 | 1.49E-01 | 9.16E+11 | 6.93E-04 | 8.98E+06 |
| 6.86E-04 | 9.22E+06 | 1.47E-01 | 9.12E+11 | 6.83E-04 | 8.94E+06 |
| 6.80E-04 | 9.19E+06 | 1.46E-01 | 9.08E+11 | 6.73E-04 | 8.90E+06 |
| 6.74E-04 | 9.16E+06 | 1.44E-01 | 9.05E+11 | 6.67E-04 | 8.87E+06 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 6.68E-04 | 9.13E+06 | 1.43E-01 | 9.03E+11 | 6.62E-04 | 8.85E+06 |
| 6.59E-04 | 9.08E+06 | 1.41E-01 | 9.00E+11 | 6.57E-04 | 8.82E+06 |
| 6.51E-04 | 9.04E+06 | 1.39E-01 | 8.96E+11 | 6.48E-04 | 8.78E+06 |
| 6.46E-04 | 9.01E+06 | 1.38E-01 | 8.92E+11 | 6.40E-04 | 8.74E+06 |
| 6.40E-04 | 8.97E+06 | 1.37E-01 | 8.90E+11 | 6.35E-04 | 8.72E+06 |
| 6.35E-04 | 8.92E+06 | 1.36E-01 | 8.86E+11 | 6.30E-04 | 8.69E+06 |
| 6.26E-04 | 8.84E+06 | 1.34E-01 | 8.82E+11 | 6.25E-04 | 8.65E+06 |
| 6.19E-04 | 8.76E+06 | 1.33E-01 | 8.75E+11 | 6.16E-04 | 8.57E+06 |
| 6.12E-04 | 8.68E+06 | 1.31E-01 | 8.67E+11 | 6.10E-04 | 8.50E+06 |
| 6.06E-04 | 8.60E+06 | 1.30E-01 | 8.60E+11 | 6.03E-04 | 8.43E+06 |
| 6.00E-04 | 8.52E+06 | 1.28E-01 | 8.51E+11 | 5.97E-04 | 8.34E+06 |
| 5.90E-04 | 8.37E+06 | 1.26E-01 | 8.41E+11 | 5.90E-04 | 8.25E+06 |
| 5.80E-04 | 8.23E+06 | 1.24E-01 | 8.27E+11 | 5.80E-04 | 8.11E+06 |
| 5.70E-04 | 8.09E+06 | 1.22E-01 | 8.13E+11 | 5.70E-04 | 7.97E+06 |
| 5.60E-04 | 7.95E+06 | 1.20E-01 | 7.99E+11 | 5.60E-04 | 7.83E+06 |
| 5.50E-04 | 7.81E+06 | 1.18E-01 | 7.84E+11 | 5.50E-04 | 7.69E+06 |
| 5.40E-04 | 7.66E+06 | 1.16E-01 | 7.70E+11 | 5.40E-04 | 7.55E+06 |
| 5.30E-04 | 7.52E+06 | 1.13E-01 | 7.56E+11 | 5.30E-04 | 7.41E+06 |
| 5.20E-04 | 7.38E+06 | 1.11E-01 | 7.42E+11 | 5.20E-04 | 7.27E+06 |
| 5.10E-04 | 7.24E+06 | 1.09E-01 | 7.27E+11 | 5.10E-04 | 7.13E+06 |
| 5.00E-04 | 7.10E+06 | 1.07E-01 | 7.13E+11 | 5.00E-04 | 6.99E+06 |
| 4.90E-04 | 6.96E+06 | 1.05E-01 | 6.99E+11 | 4.90E-04 | 6.85E+06 |
| 4.80E-04 | 6.81E+06 | 1.03E-01 | 6.85E+11 | 4.80E-04 | 6.71E+06 |
| 4.70E-04 | 6.67E+06 | 1.01E-01 | 6.70E+11 | 4.70E-04 | 6.57E+06 |
| 4.60E-04 | 6.53E+06 | 9.85E-02 | 6.56E+11 | 4.60E-04 | 6.43E+06 |
| 4.50E-04 | 6.39E+06 | 9.64E-02 | 6.42E+11 | 4.50E-04 | 6.29E+06 |
| 4.40E-04 | 6.25E+06 | 9.42E-02 | 6.28E+11 | 4.40E-04 | 6.15E+06 |
| 4.30E-04 | 6.10E+06 | 9.21E-02 | 6.13E+11 | 4.30E-04 | 6.01E+06 |
| 4.20E-04 | 5.96E+06 | 8.99E-02 | 5.99E+11 | 4.20E-04 | 5.87E+06 |
| 4.10E-04 | 5.82E+06 | 8.78E-02 | 5.85E+11 | 4.10E-04 | 5.73E+06 |
| 4.00E-04 | 5.68E+06 | 8.57E-02 | 5.71E+11 | 4.00E-04 | 5.59E+06 |
| 3.90E-04 | 5.54E+06 | 8.35E-02 | 5.56E+11 | 3.90E-04 | 5.45E+06 |
| 3.80E-04 | 5.39E+06 | 8.14E-02 | 5.42E+11 | 3.80E-04 | 5.31E+06 |
| 3.70E-04 | 5.25E+06 | 7.92E-02 | 5.28E+11 | 3.70E-04 | 5.17E+06 |
| 3.60E-04 | 5.11E+06 | 7.71E-02 | 5.13E+11 | 3.60E-04 | 5.03E+06 |
| 3.50E-04 | 4.97E+06 | 7.49E-02 | 4.99E+11 | 3.50E-04 | 4.89E+06 |
| 3.40E-04 | 4.83E+06 | 7.28E-02 | 4.85E+11 | 3.40E-04 | 4.75E+06 |
| 3.30E-04 | 4.68E+06 | 7.07E-02 | 4.71E+11 | 3.30E-04 | 4.61E+06 |
| 3.20E-04 | 4.54E+06 | 6.85E-02 | 4.56E+11 | 3.20E-04 | 4.47E+06 |
| 3.10E-04 | 4.40E+06 | 6.64E-02 | 4.42E+11 | 3.10E-04 | 4.33E+06 |
| 3.00E-04 | 4.26E+06 | 6.42E-02 | 4.28E+11 | 3.00E-04 | 4.19E+06 |
| 2.90E-04 | 4.12E+06 | 6.21E-02 | 4.14E+11 | 2.90E-04 | 4.05E+06 |
| 2.80E-04 | 3.97E+06 | 6.00E-02 | 3.99E+11 | 2.80E-04 | 3.91E+06 |
| 2.70E-04 | 3.83E+06 | 5.78E-02 | 3.85E+11 | 2.70E-04 | 3.77E+06 |
| 2.60E-04 | 3.69E+06 | 5.57E-02 | 3.71E+11 | 2.60E-04 | 3.63E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 2.50E-04 | 3.55E+06 | 5.35E-02 | 3.57E+11 | 2.50E-04 | 3.49E+06 |
| 2.40E-04 | 3.41E+06 | 5.14E-02 | 3.42E+11 | 2.40E-04 | 3.35E+06 |
| 2.30E-04 | 3.26E+06 | 4.93E-02 | 3.28E+11 | 2.30E-04 | 3.21E+06 |
| 2.20E-04 | 3.12E+06 | 4.71E-02 | 3.14E+11 | 2.20E-04 | 3.08E+06 |
| 2.10E-04 | 2.98E+06 | 4.50E-02 | 3.00E+11 | 2.10E-04 | 2.94E+06 |
| 2.00E-04 | 2.84E+06 | 4.28E-02 | 2.85E+11 | 2.00E-04 | 2.79E+06 |
| 1.90E-04 | 2.70E+06 | 4.07E-02 | 2.71E+11 | 1.90E-04 | 2.66E+06 |
| 1.80E-04 | 2.55E+06 | 3.85E-02 | 2.57E+11 | 1.80E-04 | 2.52E+06 |
| 1.70E-04 | 2.41E+06 | 3.64E-02 | 2.43E+11 | 1.70E-04 | 2.38E+06 |
| 1.60E-04 | 2.27E+06 | 3.43E-02 | 2.28E+11 | 1.60E-04 | 2.24E+06 |
| 1.50E-04 | 2.13E+06 | 3.21E-02 | 2.14E+11 | 1.50E-04 | 2.10E+06 |
| 1.40E-04 | 1.99E+06 | 3.00E-02 | 2.00E+11 | 1.40E-04 | 1.96E+06 |
| 1.30E-04 | 1.85E+06 | 2.78E-02 | 1.85E+11 | 1.30E-04 | 1.82E+06 |
| 1.20E-04 | 1.70E+06 | 2.57E-02 | 1.71E+11 | 1.20E-04 | 1.68E+06 |
| 1.10E-04 | 1.56E+06 | 2.36E-02 | 1.57E+11 | 1.10E-04 | 1.54E+06 |
| 1.00E-04 | 1.42E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 | 1.40E+06 |
| 9.00E-05 | 1.28E+06 | 1.93E-02 | 1.28E+11 | 9.00E-05 | 1.26E+06 |
| 8.00E-05 | 1.14E+06 | 1.71E-02 | 1.14E+11 | 8.00E-05 | 1.12E+06 |
| 7.00E-05 | 9.94E+05 | 1.50E-02 | 9.98E+10 | 7.00E-05 | 9.78E+05 |
| 6.00E-05 | 8.52E+05 | 1.28E-02 | 8.56E+10 | 6.00E-05 | 8.39E+05 |
| 5.00E-05 | 7.10E+05 | 1.07E-02 | 7.13E+10 | 5.00E-05 | 6.99E+05 |
| 4.00E-05 | 5.68E+05 | 8.57E-03 | 5.71E+10 | 4.00E-05 | 5.59E+05 |
| 3.00E-05 | 4.26E+05 | 6.42E-03 | 4.28E+10 | 3.00E-05 | 4.19E+05 |
| 2.00E-05 | 2.84E+05 | 4.28E-03 | 2.85E+10 | 2.00E-05 | 2.79E+05 |
| 1.00E-05 | 1.42E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 | 1.40E+05 |
| 9.00E-06 | 1.28E+05 | 1.93E-03 | 1.28E+10 | 9.00E-06 | 1.26E+05 |
| 8.00E-06 | 1.14E+05 | 1.71E-03 | 1.14E+10 | 8.00E-06 | 1.12E+05 |
| 7.00E-06 | 9.94E+04 | 1.50E-03 | 9.98E+09 | 7.00E-06 | 9.78E+04 |
| 6.00E-06 | 8.52E+04 | 1.28E-03 | 8.56E+09 | 6.00E-06 | 8.39E+04 |
| 5.00E-06 | 7.10E+04 | 1.07E-03 | 7.13E+09 | 5.00E-06 | 6.99E+04 |
| 4.00E-06 | 5.68E+04 | 8.57E-04 | 5.71E+09 | 4.00E-06 | 5.59E+04 |
| 3.00E-06 | 4.26E+04 | 6.42E-04 | 4.28E+09 | 3.00E-06 | 4.19E+04 |
| 2.00E-06 | 2.84E+04 | 4.28E-04 | 2.85E+09 | 2.00E-06 | 2.80E+04 |
| 1.00E-06 | 1.42E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 | 1.40E+04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.00E-06 | -1.42E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 | -1.40E+04 |
| -2.00E-06 | -2.84E+04 | -4.28E-04 | -2.85E+09 | -2.00E-06 | -2.80E+04 |
| -3.00E-06 | -4.26E+04 | -6.42E-04 | -4.28E+09 | -3.00E-06 | -4.19E+04 |
| -4.00E-06 | -5.68E+04 | -8.57E-04 | -5.70E+09 | -4.00E-06 | -5.59E+04 |
| -5.00E-06 | -7.10E+04 | -1.07E-03 | -7.13E+09 | -5.00E-06 | -6.99E+04 |
| -6.00E-06 | -8.52E+04 | -1.28E-03 | -8.56E+09 | -6.00E-06 | -8.38E+04 |
| -7.00E-06 | -9.94E+04 | -1.50E-03 | -9.98E+09 | -7.00E-06 | -9.78E+04 |
| -8.00E-06 | -1.14E+05 | -1.71E-03 | -1.14E+10 | -8.00E-06 | -1.12E+05 |
| -9.00E-06 | -1.28E+05 | -1.93E-03 | -1.28E+10 | -9.00E-06 | -1.26E+05 |
| -1.00E-05 | -1.42E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 | -1.40E+05 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.00E-05 | -2.84E+05 | -4.28E-03 | -2.85E+10 | -2.00E-05 | -2.79E+05 |
| -3.00E-05 | -4.26E+05 | -6.42E-03 | -4.28E+10 | -3.00E-05 | -4.19E+05 |
| -4.00E-05 | -5.68E+05 | -8.57E-03 | -5.70E+10 | -4.00E-05 | -5.59E+05 |
| -5.00E-05 | -7.10E+05 | -1.07E-02 | -7.13E+10 | -5.00E-05 | -6.99E+05 |
| -6.00E-05 | -8.52E+05 | -1.28E-02 | -8.56E+10 | -6.00E-05 | -8.38E+05 |
| -7.00E-05 | -9.94E+05 | -1.50E-02 | -9.98E+10 | -7.00E-05 | -9.78E+05 |
| -8.00E-05 | -1.14E+06 | -1.71E-02 | -1.14E+11 | -8.00E-05 | -1.12E+06 |
| -9.00E-05 | -1.28E+06 | -1.93E-02 | -1.28E+11 | -9.00E-05 | -1.26E+06 |
| -1.00E-04 | -1.42E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 | -1.40E+06 |
| -1.10E-04 | -1.56E+06 | -2.36E-02 | -1.57E+11 | -1.10E-04 | -1.54E+06 |
| -1.20E-04 | -1.70E+06 | -2.57E-02 | -1.71E+11 | -1.20E-04 | -1.68E+06 |
| -1.30E-04 | -1.85E+06 | -2.78E-02 | -1.85E+11 | -1.30E-04 | -1.82E+06 |
| -1.40E-04 | -1.99E+06 | -3.00E-02 | -2.00E+11 | -1.40E-04 | -1.96E+06 |
| -1.50E-04 | -2.13E+06 | -3.21E-02 | -2.14E+11 | -1.50E-04 | -2.10E+06 |
| -1.60E-04 | -2.27E+06 | -3.43E-02 | -2.28E+11 | -1.60E-04 | -2.24E+06 |
| -1.70E-04 | -2.41E+06 | -3.64E-02 | -2.42E+11 | -1.70E-04 | -2.38E+06 |
| -1.80E-04 | -2.55E+06 | -3.85E-02 | -2.57E+11 | -1.80E-04 | -2.51E+06 |
| -1.90E-04 | -2.70E+06 | -4.07E-02 | -2.71E+11 | -1.90E-04 | -2.65E+06 |
| -2.00E-04 | -2.84E+06 | -4.28E-02 | -2.85E+11 | -2.00E-04 | -2.79E+06 |
| -2.10E-04 | -2.98E+06 | -4.50E-02 | -2.99E+11 | -2.10E-04 | -2.93E+06 |
| -2.20E-04 | -3.12E+06 | -4.71E-02 | -3.14E+11 | -2.20E-04 | -3.07E+06 |
| -2.30E-04 | -3.26E+06 | -4.93E-02 | -3.28E+11 | -2.30E-04 | -3.21E+06 |
| -2.40E-04 | -3.41E+06 | -5.14E-02 | -3.42E+11 | -2.40E-04 | -3.35E+06 |
| -2.50E-04 | -3.55E+06 | -5.35E-02 | -3.56E+11 | -2.50E-04 | -3.49E+06 |
| -2.60E-04 | -3.69E+06 | -5.57E-02 | -3.71E+11 | -2.60E-04 | -3.63E+06 |
| -2.70E-04 | -3.83E+06 | -5.78E-02 | -3.85E+11 | -2.70E-04 | -3.77E+06 |
| -2.80E-04 | -3.97E+06 | -6.00E-02 | -3.99E+11 | -2.80E-04 | -3.91E+06 |
| -2.90E-04 | -4.12E+06 | -6.21E-02 | -4.14E+11 | -2.90E-04 | -4.05E+06 |
| -3.00E-04 | -4.26E+06 | -6.42E-02 | -4.28E+11 | -3.00E-04 | -4.19E+06 |
| -3.10E-04 | -4.40E+06 | -6.64E-02 | -4.42E+11 | -3.10E-04 | -4.33E+06 |
| -3.20E-04 | -4.54E+06 | -6.85E-02 | -4.56E+11 | -3.20E-04 | -4.47E+06 |
| -3.30E-04 | -4.68E+06 | -7.07E-02 | -4.71E+11 | -3.30E-04 | -4.61E+06 |
| -3.40E-04 | -4.82E+06 | -7.28E-02 | -4.85E+11 | -3.40E-04 | -4.75E+06 |
| -3.50E-04 | -4.97E+06 | -7.49E-02 | -4.99E+11 | -3.50E-04 | -4.89E+06 |
| -3.60E-04 | -5.11E+06 | -7.71E-02 | -5.13E+11 | -3.60E-04 | -5.03E+06 |
| -3.70E-04 | -5.25E+06 | -7.92E-02 | -5.28E+11 | -3.70E-04 | -5.17E+06 |
| -3.80E-04 | -5.39E+06 | -8.14E-02 | -5.42E+11 | -3.80E-04 | -5.31E+06 |
| -3.90E-04 | -5.53E+06 | -8.35E-02 | -5.56E+11 | -3.90E-04 | -5.45E+06 |
| -4.00E-04 | -5.68E+06 | -8.57E-02 | -5.70E+11 | -4.00E-04 | -5.59E+06 |
| -4.10E-04 | -5.82E+06 | -8.78E-02 | -5.85E+11 | -4.10E-04 | -5.73E+06 |
| -4.20E-04 | -5.96E+06 | -8.99E-02 | -5.99E+11 | -4.20E-04 | -5.87E+06 |
| -4.30E-04 | -6.10E+06 | -9.21E-02 | -6.13E+11 | -4.30E-04 | -6.01E+06 |
| -4.40E-04 | -6.24E+06 | -9.42E-02 | -6.27E+11 | -4.40E-04 | -6.15E+06 |
| -4.50E-04 | -6.39E+06 | -9.64E-02 | -6.42E+11 | -4.50E-04 | -6.29E+06 |
| -4.60E-04 | -6.53E+06 | -9.85E-02 | -6.56E+11 | -4.60E-04 | -6.43E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.70E-04 | -6.67E+06 | -1.01E-01 | -6.70E+11 | -4.70E-04 | -6.57E+06 |
| -4.80E-04 | -6.81E+06 | -1.03E-01 | -6.84E+11 | -4.80E-04 | -6.71E+06 |
| -4.90E-04 | -6.95E+06 | -1.05E-01 | -6.99E+11 | -4.90E-04 | -6.85E+06 |
| -5.00E-04 | -7.09E+06 | -1.07E-01 | -7.13E+11 | -5.00E-04 | -6.99E+06 |
| -5.10E-04 | -7.24E+06 | -1.09E-01 | -7.27E+11 | -5.10E-04 | -7.12E+06 |
| -5.20E-04 | -7.38E+06 | -1.11E-01 | -7.41E+11 | -5.20E-04 | -7.26E+06 |
| -5.30E-04 | -7.52E+06 | -1.13E-01 | -7.56E+11 | -5.30E-04 | -7.40E+06 |
| -5.40E-04 | -7.66E+06 | -1.16E-01 | -7.70E+11 | -5.40E-04 | -7.54E+06 |
| -5.50E-04 | -7.80E+06 | -1.18E-01 | -7.84E+11 | -5.50E-04 | -7.68E+06 |
| -5.60E-04 | -7.94E+06 | -1.20E-01 | -7.91E+11 | -5.55E-04 | -7.75E+06 |
| -5.64E-04 | -7.99E+06 | -1.21E-01 | -8.04E+11 | -5.65E-04 | -7.88E+06 |
| -5.74E-04 | -8.13E+06 | -1.23E-01 | -8.14E+11 | -5.73E-04 | -7.98E+06 |
| -5.81E-04 | -8.23E+06 | -1.24E-01 | -8.20E+11 | -5.78E-04 | -8.04E+06 |
| -5.87E-04 | -8.29E+06 | -1.26E-01 | -8.26E+11 | -5.84E-04 | -8.09E+06 |
| -5.93E-04 | -8.35E+06 | -1.27E-01 | -8.30E+11 | -5.90E-04 | -8.13E+06 |
| -5.99E-04 | -8.39E+06 | -1.28E-01 | -8.33E+11 | -5.95E-04 | -8.16E+06 |
| -6.05E-04 | -8.43E+06 | -1.30E-01 | -8.35E+11 | -6.01E-04 | -8.18E+06 |
| -6.11E-04 | -8.45E+06 | -1.31E-01 | -8.35E+11 | -6.05E-04 | -8.18E+06 |
| -6.15E-04 | -8.46E+06 | -1.32E-01 | -8.35E+11 | -6.15E-04 | -8.18E+06 |
| -6.25E-04 | -8.47E+06 | -1.34E-01 | -8.35E+11 | -6.21E-04 | -8.18E+06 |
| -6.32E-04 | -8.48E+06 | -1.35E-01 | -8.35E+11 | -6.25E-04 | -8.18E+06 |
| -6.37E-04 | -8.49E+06 | -1.36E-01 | -8.35E+11 | -6.30E-04 | -8.18E+06 |
| -6.42E-04 | -8.49E+06 | -1.37E-01 | -8.34E+11 | -6.37E-04 | -8.18E+06 |
| -6.50E-04 | -8.50E+06 | -1.39E-01 | -8.34E+11 | -6.41E-04 | -8.17E+06 |
| -6.54E-04 | -8.50E+06 | -1.40E-01 | -8.33E+11 | -6.46E-04 | -8.17E+06 |
| -6.59E-04 | -8.50E+06 | -1.41E-01 | -8.32E+11 | -6.51E-04 | -8.16E+06 |
| -6.64E-04 | -8.49E+06 | -1.42E-01 | -8.29E+11 | -6.61E-04 | -8.13E+06 |
| -6.69E-04 | -8.49E+06 | -1.43E-01 | -8.24E+11 | -6.71E-04 | -8.08E+06 |
| -6.79E-04 | -8.47E+06 | -1.45E-01 | -8.16E+11 | -6.81E-04 | -8.00E+06 |
| -6.89E-04 | -8.43E+06 | -1.47E-01 | -8.14E+11 | -6.83E-04 | -7.97E+06 |
| -6.99E-04 | -8.35E+06 | -1.50E-01 | -8.00E+11 | -6.92E-04 | -7.84E+06 |
| -7.00E-04 | -8.34E+06 | -1.50E-01 | -7.82E+11 | -7.02E-04 | -7.66E+06 |
| -7.10E-04 | -8.22E+06 | -1.52E-01 | -7.73E+11 | -7.08E-04 | -7.57E+06 |
| -7.11E-04 | -8.21E+06 | -1.52E-01 | -7.58E+11 | -7.18E-04 | -7.43E+06 |
| -7.21E-04 | -8.07E+06 | -1.54E-01 | -7.57E+11 | -7.18E-04 | -7.42E+06 |
| -7.28E-04 | -7.97E+06 | -1.56E-01 | -7.46E+11 | -7.28E-04 | -7.31E+06 |
| -7.38E-04 | -7.85E+06 | -1.58E-01 | -7.37E+11 | -7.37E-04 | -7.22E+06 |
| -7.41E-04 | -7.83E+06 | -1.59E-01 | -7.30E+11 | -7.47E-04 | -7.15E+06 |
| -7.51E-04 | -7.74E+06 | -1.61E-01 | -7.27E+11 | -7.52E-04 | -7.12E+06 |
| -7.61E-04 | -7.68E+06 | -1.63E-01 | -7.20E+11 | -7.62E-04 | -7.06E+06 |
| -7.62E-04 | -7.67E+06 | -1.63E-01 | -7.15E+11 | -7.72E-04 | -7.00E+06 |
| -7.72E-04 | -7.61E+06 | -1.65E-01 | -7.13E+11 | -7.75E-04 | -6.99E+06 |
| -7.79E-04 | -7.58E+06 | -1.67E-01 | -7.08E+11 | -7.85E-04 | -6.94E+06 |
| -7.89E-04 | -7.53E+06 | -1.69E-01 | -7.03E+11 | -7.95E-04 | -6.89E+06 |
| -7.99E-04 | -7.49E+06 | -1.71E-01 | -6.99E+11 | -8.05E-04 | -6.85E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.04E-04 | -7.47E+06 | -1.72E-01 | -6.98E+11 | -8.07E-04 | -6.84E+06 |
| -8.10E-04 | -7.45E+06 | -1.73E-01 | -6.93E+11 | -8.17E-04 | -6.79E+06 |
| -8.20E-04 | -7.41E+06 | -1.75E-01 | -6.92E+11 | -8.20E-04 | -6.78E+06 |
| -8.30E-04 | -7.37E+06 | -1.78E-01 | -6.88E+11 | -8.30E-04 | -6.74E+06 |
| -8.40E-04 | -7.34E+06 | -1.80E-01 | -6.84E+11 | -8.40E-04 | -6.70E+06 |
| -8.42E-04 | -7.33E+06 | -1.80E-01 | -6.80E+11 | -8.50E-04 | -6.66E+06 |
| -8.52E-04 | -7.30E+06 | -1.82E-01 | -6.77E+11 | -8.59E-04 | -6.63E+06 |
| -8.54E-04 | -7.29E+06 | -1.83E-01 | -6.73E+11 | -8.69E-04 | -6.60E+06 |
| -8.64E-04 | -7.26E+06 | -1.85E-01 | -6.73E+11 | -8.70E-04 | -6.59E+06 |
| -8.74E-04 | -7.22E+06 | -1.87E-01 | -6.69E+11 | -8.80E-04 | -6.56E+06 |
| -8.84E-04 | -7.19E+06 | -1.89E-01 | -6.66E+11 | -8.90E-04 | -6.53E+06 |
| -8.94E-04 | -7.16E+06 | -1.91E-01 | -6.63E+11 | -9.00E-04 | -6.49E+06 |
| -9.00E-04 | -7.15E+06 | -1.93E-01 | -6.59E+11 | -9.10E-04 | -6.46E+06 |
| -9.09E-04 | -7.12E+06 | -1.95E-01 | -6.56E+11 | -9.20E-04 | -6.43E+06 |
| -9.19E-04 | -7.09E+06 | -1.97E-01 | -6.56E+11 | -9.21E-04 | -6.43E+06 |
| -9.29E-04 | -7.06E+06 | -1.99E-01 | -6.53E+11 | -9.31E-04 | -6.40E+06 |
| -9.39E-04 | -7.03E+06 | -2.01E-01 | -6.52E+11 | -9.34E-04 | -6.39E+06 |
| -9.49E-04 | -7.01E+06 | -2.03E-01 | -6.49E+11 | -9.44E-04 | -6.36E+06 |
| -9.59E-04 | -6.98E+06 | -2.05E-01 | -6.46E+11 | -9.54E-04 | -6.33E+06 |
| -9.68E-04 | -6.96E+06 | -2.07E-01 | -6.43E+11 | -9.64E-04 | -6.30E+06 |
| -9.78E-04 | -6.93E+06 | -2.09E-01 | -6.40E+11 | -9.74E-04 | -6.27E+06 |
| -9.78E-04 | -6.93E+06 | -2.09E-01 | -6.37E+11 | -9.84E-04 | -6.24E+06 |
| -9.88E-04 | -6.90E+06 | -2.12E-01 | -6.34E+11 | -9.94E-04 | -6.21E+06 |
| -9.98E-04 | -6.88E+06 | -2.14E-01 | -6.32E+11 | -1.00E-03 | -6.20E+06 |
| -1.01E-03 | -6.85E+06 | -2.16E-01 | -6.29E+11 | -1.01E-03 | -6.17E+06 |
| -1.02E-03 | -6.82E+06 | -2.18E-01 | -6.26E+11 | -1.02E-03 | -6.14E+06 |
| -1.03E-03 | -6.80E+06 | -2.20E-01 | -6.23E+11 | -1.03E-03 | -6.11E+06 |
| -1.04E-03 | -6.77E+06 | -2.22E-01 | -6.20E+11 | -1.04E-03 | -6.08E+06 |
| -1.05E-03 | -6.75E+06 | -2.24E-01 | -6.18E+11 | -1.05E-03 | -6.05E+06 |
| -1.05E-03 | -6.74E+06 | -2.25E-01 | -6.15E+11 | -1.06E-03 | -6.03E+06 |
| -1.06E-03 | -6.73E+06 | -2.26E-01 | -6.12E+11 | -1.07E-03 | -6.00E+06 |
| -1.07E-03 | -6.71E+06 | -2.28E-01 | -6.11E+11 | -1.08E-03 | -5.99E+06 |
| -1.08E-03 | -6.68E+06 | -2.30E-01 | -6.09E+11 | -1.08E-03 | -5.97E+06 |
| -1.09E-03 | -6.65E+06 | -2.33E-01 | -6.06E+11 | -1.09E-03 | -5.94E+06 |
| -1.10E-03 | -6.63E+06 | -2.35E-01 | -6.04E+11 | -1.10E-03 | -5.91E+06 |
| -1.11E-03 | -6.60E+06 | -2.37E-01 | -6.01E+11 | -1.11E-03 | -5.89E+06 |
| -1.12E-03 | -6.58E+06 | -2.39E-01 | -5.98E+11 | -1.12E-03 | -5.86E+06 |
| -1.13E-03 | -6.56E+06 | -2.41E-01 | -5.96E+11 | -1.13E-03 | -5.84E+06 |
| -1.13E-03 | -6.54E+06 | -2.42E-01 | -5.93E+11 | -1.14E-03 | -5.81E+06 |
| -1.14E-03 | -6.52E+06 | -2.45E-01 | -5.91E+11 | -1.15E-03 | -5.79E+06 |
| -1.15E-03 | -6.51E+06 | -2.45E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 |
| -1.16E-03 | -6.48E+06 | -2.47E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 |
| -1.17E-03 | -6.46E+06 | -2.49E-01 | -5.86E+11 | -1.17E-03 | -5.74E+06 |
| -1.18E-03 | -6.44E+06 | -2.52E-01 | -5.84E+11 | -1.18E-03 | -5.73E+06 |
| -1.19E-03 | -6.41E+06 | -2.54E-01 | -5.82E+11 | -1.19E-03 | -5.70E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -1.20E-03 | -6.39E+06 | -2.56E-01 | -5.80E+11 | -1.20E-03 | -5.68E+06 |
| -1.21E-03 | -6.37E+06 | -2.58E-01 | -5.77E+11 | -1.21E-03 | -5.66E+06 |
| -1.22E-03 | -6.35E+06 | -2.60E-01 | -5.75E+11 | -1.22E-03 | -5.63E+06 |
| -1.23E-03 | -6.32E+06 | -2.62E-01 | -5.73E+11 | -1.23E-03 | -5.61E+06 |
| -1.23E-03 | -6.32E+06 | -2.63E-01 | -5.70E+11 | -1.24E-03 | -5.59E+06 |
| -1.24E-03 | -6.30E+06 | -2.65E-01 | -5.68E+11 | -1.25E-03 | -5.57E+06 |
| -1.25E-03 | -6.27E+06 | -2.67E-01 | -5.66E+11 | -1.26E-03 | -5.55E+06 |
| -1.25E-03 | -6.27E+06 | -2.68E-01 | -5.66E+11 | -1.26E-03 | -5.54E+06 |
| -1.26E-03 | -6.24E+06 | -2.70E-01 | -5.64E+11 | -1.27E-03 | -5.52E+06 |
| -1.27E-03 | -6.22E+06 | -2.72E-01 | -5.62E+11 | -1.28E-03 | -5.50E+06 |
| -1.28E-03 | -6.20E+06 | -2.74E-01 | -5.59E+11 | -1.29E-03 | -5.48E+06 |
| -1.29E-03 | -6.18E+06 | -2.76E-01 | -5.57E+11 | -1.30E-03 | -5.46E+06 |
| -1.30E-03 | -6.16E+06 | -2.78E-01 | -5.56E+11 | -1.31E-03 | -5.45E+06 |
| -1.31E-03 | -6.14E+06 | -2.81E-01 | -5.54E+11 | -1.32E-03 | -5.43E+06 |
| -1.32E-03 | -6.12E+06 | -2.83E-01 | -5.52E+11 | -1.33E-03 | -5.41E+06 |
| -1.33E-03 | -6.10E+06 | -2.85E-01 | -5.50E+11 | -1.34E-03 | -5.39E+06 |
| -1.33E-03 | -6.09E+06 | -2.85E-01 | -5.48E+11 | -1.35E-03 | -5.37E+06 |
| -1.34E-03 | -6.07E+06 | -2.88E-01 | -5.46E+11 | -1.36E-03 | -5.35E+06 |
| -1.35E-03 | -6.05E+06 | -2.90E-01 | -5.44E+11 | -1.37E-03 | -5.33E+06 |
| -1.36E-03 | -6.03E+06 | -2.92E-01 | -5.42E+11 | -1.38E-03 | -5.31E+06 |
| -1.37E-03 | -6.01E+06 | -2.94E-01 | -5.41E+11 | -1.39E-03 | -5.30E+06 |
| -1.38E-03 | -5.99E+06 | -2.96E-01 | -5.39E+11 | -1.40E-03 | -5.28E+06 |
| -1.39E-03 | -5.99E+06 | -2.97E-01 | -5.37E+11 | -1.41E-03 | -5.26E+06 |
| -1.40E-03 | -5.97E+06 | -2.99E-01 | -5.35E+11 | -1.42E-03 | -5.24E+06 |
| -1.41E-03 | -5.95E+06 | -3.01E-01 | -5.33E+11 | -1.43E-03 | -5.23E+06 |
| -1.42E-03 | -5.93E+06 | -3.03E-01 | -5.32E+11 | -1.44E-03 | -5.21E+06 |
| -1.43E-03 | -5.91E+06 | -3.06E-01 | -5.30E+11 | -1.45E-03 | -5.19E+06 |
| -1.44E-03 | -5.89E+06 | -3.08E-01 | -5.28E+11 | -1.46E-03 | -5.18E+06 |
| -1.45E-03 | -5.87E+06 | -3.10E-01 | -5.27E+11 | -1.47E-03 | -5.16E+06 |
| -1.46E-03 | -5.86E+06 | -3.12E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 |
| -1.47E-03 | -5.84E+06 | -3.14E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 |
| -1.48E-03 | -5.82E+06 | -3.16E-01 | -5.23E+11 | -1.49E-03 | -5.12E+06 |
| -1.49E-03 | -5.80E+06 | -3.18E-01 | -5.21E+11 | -1.50E-03 | -5.11E+06 |
| -1.50E-03 | -5.79E+06 | -3.20E-01 | -5.20E+11 | -1.51E-03 | -5.09E+06 |
| -1.51E-03 | -5.77E+06 | -3.22E-01 | -5.18E+11 | -1.52E-03 | -5.08E+06 |
| -1.52E-03 | -5.75E+06 | -3.25E-01 | -5.16E+11 | -1.53E-03 | -5.06E+06 |
| -1.53E-03 | -5.73E+06 | -3.27E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 |
| -1.54E-03 | -5.72E+06 | -3.29E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 |
| -1.55E-03 | -5.70E+06 | -3.31E-01 | -5.13E+11 | -1.55E-03 | -5.03E+06 |
| -1.56E-03 | -5.69E+06 | -3.33E-01 | -5.11E+11 | -1.56E-03 | -5.01E+06 |
| -1.57E-03 | -5.67E+06 | -3.35E-01 | -5.10E+11 | -1.57E-03 | -5.00E+06 |
| -1.57E-03 | -5.67E+06 | -3.36E-01 | -5.08E+11 | -1.58E-03 | -4.98E+06 |
| -1.58E-03 | -5.65E+06 | -3.38E-01 | -5.07E+11 | -1.59E-03 | -4.97E+06 |
| -1.59E-03 | -5.64E+06 | -3.40E-01 | -5.05E+11 | -1.60E-03 | -4.95E+06 |
| -1.60E-03 | -5.62E+06 | -3.42E-01 | -5.04E+11 | -1.61E-03 | -4.94E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -1.61E-03 | -5.60E+06 | -3.44E-01 | -5.02E+11 | -1.62E-03 | -4.92E+06 |
| -1.62E-03 | -5.59E+06 | -3.46E-01 | -5.01E+11 | -1.63E-03 | -4.91E+06 |
| -1.63E-03 | -5.57E+06 | -3.49E-01 | -5.00E+11 | -1.64E-03 | -4.90E+06 |
| -1.63E-03 | -5.57E+06 | -3.49E-01 | -4.98E+11 | -1.65E-03 | -4.88E+06 |
| -1.64E-03 | -5.56E+06 | -3.51E-01 | -4.97E+11 | -1.66E-03 | -4.87E+06 |
| -1.65E-03 | -5.54E+06 | -3.53E-01 | -4.96E+11 | -1.66E-03 | -4.86E+06 |
| -1.66E-03 | -5.53E+06 | -3.55E-01 | -4.95E+11 | -1.67E-03 | -4.85E+06 |
| -1.67E-03 | -5.51E+06 | -3.57E-01 | -4.94E+11 | -1.68E-03 | -4.84E+06 |
| -1.68E-03 | -5.49E+06 | -3.60E-01 | -4.92E+11 | -1.69E-03 | -4.82E+06 |
| -1.69E-03 | -5.48E+06 | -3.62E-01 | -4.91E+11 | -1.70E-03 | -4.81E+06 |
| -1.70E-03 | -5.46E+06 | -3.64E-01 | -4.90E+11 | -1.71E-03 | -4.80E+06 |
| -1.71E-03 | -5.45E+06 | -3.66E-01 | -4.88E+11 | -1.72E-03 | -4.79E+06 |
| -1.72E-03 | -5.44E+06 | -3.68E-01 | -4.87E+11 | -1.73E-03 | -4.77E+06 |
| -1.73E-03 | -5.42E+06 | -3.70E-01 | -4.86E+11 | -1.74E-03 | -4.76E+06 |
| -1.74E-03 | -5.41E+06 | -3.72E-01 | -4.85E+11 | -1.75E-03 | -4.75E+06 |
| -1.75E-03 | -5.40E+06 | -3.75E-01 | -4.83E+11 | -1.76E-03 | -4.74E+06 |
| -1.76E-03 | -5.38E+06 | -3.77E-01 | -4.82E+11 | -1.77E-03 | -4.72E+06 |
| -1.76E-03 | -5.38E+06 | -3.77E-01 | -4.81E+11 | -1.78E-03 | -4.71E+06 |
| -1.77E-03 | -5.36E+06 | -3.79E-01 | -4.79E+11 | -1.79E-03 | -4.70E+06 |
| -1.78E-03 | -5.35E+06 | -3.82E-01 | -4.78E+11 | -1.80E-03 | -4.69E+06 |
| -1.79E-03 | -5.34E+06 | -3.84E-01 | -4.77E+11 | -1.81E-03 | -4.67E+06 |
| -1.80E-03 | -5.32E+06 | -3.86E-01 | -4.76E+11 | -1.82E-03 | -4.66E+06 |
| -1.81E-03 | -5.31E+06 | -3.88E-01 | -4.75E+11 | -1.83E-03 | -4.65E+06 |
| -1.82E-03 | -5.30E+06 | -3.90E-01 | -4.74E+11 | -1.84E-03 | -4.64E+06 |
| -1.83E-03 | -5.29E+06 | -3.92E-01 | -4.72E+11 | -1.85E-03 | -4.63E+06 |
| -1.84E-03 | -5.27E+06 | -3.94E-01 | -4.71E+11 | -1.86E-03 | -4.62E+06 |
| -1.85E-03 | -5.26E+06 | -3.96E-01 | -4.70E+11 | -1.87E-03 | -4.61E+06 |
| -1.86E-03 | -5.25E+06 | -3.99E-01 | -4.69E+11 | -1.88E-03 | -4.60E+06 |
| -1.87E-03 | -5.23E+06 | -4.01E-01 | -4.68E+11 | -1.89E-03 | -4.59E+06 |
| -1.88E-03 | -5.22E+06 | -4.03E-01 | -4.67E+11 | -1.90E-03 | -4.58E+06 |
| -1.89E-03 | -5.21E+06 | -4.05E-01 | -4.66E+11 | -1.91E-03 | -4.57E+06 |
| -1.90E-03 | -5.19E+06 | -4.07E-01 | -4.65E+11 | -1.92E-03 | -4.56E+06 |
| -1.91E-03 | -5.18E+06 | -4.09E-01 | -4.64E+11 | -1.93E-03 | -4.55E+06 |
| -1.92E-03 | -5.17E+06 | -4.11E-01 | -4.63E+11 | -1.94E-03 | -4.53E+06 |
| -1.93E-03 | -5.16E+06 | -4.13E-01 | -4.62E+11 | -1.95E-03 | -4.52E+06 |
| -1.94E-03 | -5.15E+06 | -4.16E-01 | -4.61E+11 | -1.96E-03 | -4.51E+06 |
| -1.95E-03 | -5.13E+06 | -4.18E-01 | -4.60E+11 | -1.97E-03 | -4.50E+06 |
| -1.96E-03 | -5.12E+06 | -4.20E-01 | -4.59E+11 | -1.98E-03 | -4.50E+06 |
| -1.97E-03 | -5.11E+06 | -4.22E-01 | -4.58E+11 | -1.99E-03 | -4.48E+06 |
| -1.98E-03 | -5.10E+06 | -4.24E-01 | -4.57E+11 | -2.00E-03 | -4.47E+06 |
| -1.99E-03 | -5.09E+06 | -4.26E-01 | -4.55E+11 | -2.01E-03 | -4.46E+06 |
| -2.00E-03 | -5.08E+06 | -4.28E-01 | -4.54E+11 | -2.02E-03 | -4.45E+06 |
| -2.01E-03 | -5.07E+06 | -4.31E-01 | -4.53E+11 | -2.03E-03 | -4.44E+06 |
| -2.01E-03 | -5.07E+06 | -4.31E-01 | -4.52E+11 | -2.04E-03 | -4.43E+06 |
| -2.02E-03 | -5.06E+06 | -4.33E-01 | -4.51E+11 | -2.05E-03 | -4.42E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.03E-03 | -5.05E+06 | -4.35E-01 | -4.50E+11 | -2.06E-03 | -4.41E+06 |
| -2.04E-03 | -5.04E+06 | -4.37E-01 | -4.49E+11 | -2.07E-03 | -4.40E+06 |
| -2.05E-03 | -5.02E+06 | -4.39E-01 | -4.48E+11 | -2.08E-03 | -4.39E+06 |
| -2.06E-03 | -5.01E+06 | -4.41E-01 | -4.47E+11 | -2.09E-03 | -4.38E+06 |
| -2.07E-03 | -5.00E+06 | -4.43E-01 | -4.46E+11 | -2.10E-03 | -4.37E+06 |
| -2.08E-03 | -4.99E+06 | -4.46E-01 | -4.45E+11 | -2.11E-03 | -4.36E+06 |
| -2.09E-03 | -4.98E+06 | -4.47E-01 | -4.44E+11 | -2.12E-03 | -4.36E+06 |
| -2.10E-03 | -4.97E+06 | -4.49E-01 | -4.44E+11 | -2.13E-03 | -4.35E+06 |
| -2.11E-03 | -4.96E+06 | -4.52E-01 | -4.43E+11 | -2.14E-03 | -4.34E+06 |
| -2.12E-03 | -4.95E+06 | -4.54E-01 | -4.42E+11 | -2.15E-03 | -4.33E+06 |
| -2.13E-03 | -4.94E+06 | -4.56E-01 | -4.41E+11 | -2.16E-03 | -4.32E+06 |
| -2.14E-03 | -4.93E+06 | -4.58E-01 | -4.40E+11 | -2.17E-03 | -4.31E+06 |
| -2.15E-03 | -4.92E+06 | -4.60E-01 | -4.39E+11 | -2.18E-03 | -4.30E+06 |
| -2.16E-03 | -4.91E+06 | -4.62E-01 | -4.38E+11 | -2.19E-03 | -4.30E+06 |
| -2.17E-03 | -4.90E+06 | -4.64E-01 | -4.37E+11 | -2.20E-03 | -4.29E+06 |
| -2.18E-03 | -4.89E+06 | -4.67E-01 | -4.37E+11 | -2.21E-03 | -4.28E+06 |
| -2.19E-03 | -4.88E+06 | -4.69E-01 | -4.36E+11 | -2.22E-03 | -4.27E+06 |
| -2.20E-03 | -4.87E+06 | -4.71E-01 | -4.35E+11 | -2.23E-03 | -4.26E+06 |
| -2.21E-03 | -4.86E+06 | -4.73E-01 | -4.34E+11 | -2.24E-03 | -4.26E+06 |
| -2.22E-03 | -4.85E+06 | -4.75E-01 | -4.33E+11 | -2.25E-03 | -4.25E+06 |
| -2.23E-03 | -4.84E+06 | -4.77E-01 | -4.33E+11 | -2.26E-03 | -4.24E+06 |
| -2.24E-03 | -4.83E+06 | -4.79E-01 | -4.32E+11 | -2.27E-03 | -4.23E+06 |
| -2.25E-03 | -4.82E+06 | -4.82E-01 | -4.31E+11 | -2.28E-03 | -4.22E+06 |
| -2.26E-03 | -4.81E+06 | -4.84E-01 | -4.30E+11 | -2.29E-03 | -4.21E+06 |
| -2.27E-03 | -4.80E+06 | -4.86E-01 | -4.29E+11 | -2.30E-03 | -4.21E+06 |
| -2.28E-03 | -4.79E+06 | -4.88E-01 | -4.29E+11 | -2.31E-03 | -4.20E+06 |
| -2.29E-03 | -4.78E+06 | -4.90E-01 | -4.28E+11 | -2.31E-03 | -4.20E+06 |
| -2.30E-03 | -4.78E+06 | -4.92E-01 | -4.28E+11 | -2.32E-03 | -4.19E+06 |
| -2.31E-03 | -4.77E+06 | -4.94E-01 | -4.27E+11 | -2.33E-03 | -4.18E+06 |
| -2.32E-03 | -4.76E+06 | -4.97E-01 | -4.26E+11 | -2.34E-03 | -4.17E+06 |
| -2.33E-03 | -4.75E+06 | -4.99E-01 | -4.25E+11 | -2.35E-03 | -4.17E+06 |
| -2.34E-03 | -4.74E+06 | -5.01E-01 | -4.25E+11 | -2.36E-03 | -4.16E+06 |
| -2.34E-03 | -4.74E+06 | -5.01E-01 | -4.24E+11 | -2.37E-03 | -4.15E+06 |
| -2.35E-03 | -4.73E+06 | -5.03E-01 | -4.23E+11 | -2.38E-03 | -4.14E+06 |
| -2.36E-03 | -4.72E+06 | -5.06E-01 | -4.22E+11 | -2.39E-03 | -4.13E+06 |
| -2.37E-03 | -4.71E+06 | -5.08E-01 | -4.21E+11 | -2.40E-03 | -4.13E+06 |
| -2.38E-03 | -4.71E+06 | -5.10E-01 | -4.20E+11 | -2.41E-03 | -4.12E+06 |
| -2.39E-03 | -4.70E+06 | -5.12E-01 | -4.19E+11 | -2.42E-03 | -4.11E+06 |
| -2.40E-03 | -4.69E+06 | -5.14E-01 | -4.19E+11 | -2.43E-03 | -4.10E+06 |
| -2.41E-03 | -4.68E+06 | -5.16E-01 | -4.18E+11 | -2.44E-03 | -4.09E+06 |
| -2.42E-03 | -4.67E+06 | -5.18E-01 | -4.17E+11 | -2.45E-03 | -4.09E+06 |
| -2.43E-03 | -4.66E+06 | -5.21E-01 | -4.16E+11 | -2.46E-03 | -4.08E+06 |
| -2.43E-03 | -4.66E+06 | -5.21E-01 | -4.16E+11 | -2.47E-03 | -4.07E+06 |
| -2.44E-03 | -4.66E+06 | -5.23E-01 | -4.15E+11 | -2.48E-03 | -4.06E+06 |
| -2.45E-03 | -4.65E+06 | -5.25E-01 | -4.14E+11 | -2.49E-03 | -4.06E+06 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.46E-03 | -4.64E+06 | -5.27E-01 | -4.13E+11 | -2.50E-03 | -4.05E+06 |
| -2.47E-03 | -4.63E+06 | -5.29E-01 | -4.13E+11 | -2.51E-03 | -4.04E+06 |
| -2.48E-03 | -4.62E+06 | -5.31E-01 | -4.12E+11 | -2.52E-03 | -4.04E+06 |
| -2.49E-03 | -4.61E+06 | -5.33E-01 | -4.11E+11 | -2.53E-03 | -4.03E+06 |
| -2.50E-03 | -4.61E+06 | -5.35E-01 | -4.11E+11 | -2.54E-03 | -4.02E+06 |
| -2.51E-03 | -4.60E+06 | -5.37E-01 | -4.10E+11 | -2.55E-03 | -4.02E+06 |
| -2.52E-03 | -4.59E+06 | -5.39E-01 | -4.09E+11 | -2.56E-03 | -4.01E+06 |
| -2.53E-03 | -4.58E+06 | -5.42E-01 | -4.09E+11 | -2.57E-03 | -4.00E+06 |
| -2.54E-03 | -4.57E+06 | -5.44E-01 | -4.08E+11 | -2.58E-03 | -4.00E+06 |
| -2.55E-03 | -4.56E+06 | -5.46E-01 | -4.07E+11 | -2.59E-03 | -3.99E+06 |
| -2.56E-03 | -4.56E+06 | -5.48E-01 | -4.07E+11 | -2.60E-03 | -3.98E+06 |
| -2.57E-03 | -4.55E+06 | -5.50E-01 | -4.06E+11 | -2.61E-03 | -3.98E+06 |
| -2.58E-03 | -4.54E+06 | -5.52E-01 | -4.05E+11 | -2.62E-03 | -3.97E+06 |
| -2.59E-03 | -4.53E+06 | -5.54E-01 | -4.05E+11 | -2.63E-03 | -3.97E+06 |
| -2.60E-03 | -4.53E+06 | -5.57E-01 | -4.04E+11 | -2.64E-03 | -3.96E+06 |
| -2.61E-03 | -4.52E+06 | -5.59E-01 | -4.03E+11 | -2.65E-03 | -3.95E+06 |
| -2.62E-03 | -4.51E+06 | -5.61E-01 | -4.03E+11 | -2.66E-03 | -3.95E+06 |
| -2.63E-03 | -4.50E+06 | -5.63E-01 | -4.02E+11 | -2.67E-03 | -3.94E+06 |
| -2.64E-03 | -4.50E+06 | -5.65E-01 | -4.02E+11 | -2.68E-03 | -3.93E+06 |

1.00E-06

Curvature

5.69E-01
5.67E-01
5.65E-01
5.63E-01
5.60E-01
5.58E-01
5.56E-01
5.54E-01
5.52E-01
5.50E-01
5.48E-01
5.46E-01
5.43E-01
5.41E-01
5.39E-01
5.37E-01
5.35E-01
5.33E-01
5.31E-01
5.28E-01
5.26E-01
5.24E-01
5.22E-01
5.21E-01
5.19E-01
5.17E-01
5.15E-01
5.12E-01
5.10E-01
5.08E-01
5.06E-01
5.04E-01
5.02E-01
5.00E-01
4.97E-01
4.95E-01
4.93E-01
4.92E-01
4.90E-01
4.88E-01

4.86E-01
4.84E-01
4.81E-01
4.79E-01
4.77E-01
4.75E-01
4.73E-01
4.71E-01
4.70E-01
4.68E-01
4.66E-01
4.64E-01
4.62E-01
4.60E-01
4.58E-01
4.55E-01
4.53E-01
4.51E-01
4.49E-01
4.47E-01
4.45E-01
4.43E-01
4.40E-01
4.38E-01
4.36E-01
4.34E-01
4.32E-01
4.30E-01
4.28E-01
4.25E-01
4.23E-01
4.23E-01
4.21E-01
4.19E-01
4.16E-01
4.14E-01
4.12E-01
4.10E-01
4.08E-01
4.06E-01
4.04E-01
4.01E-01
4.00E-01
3.98E-01
3.96E-01

3.94E-01
3.91E-01
3.89E-01
3.87E-01
3.85E-01
3.83E-01
3.81E-01
3.79E-01
3.77E-01
3.75E-01
3.73E-01
3.70E-01
3.68E-01
3.66E-01
3.66E-01
3.64E-01
3.61E-01
3.59E-01
3.57E-01
3.55E-01
3.53E-01
3.51E-01
3.51E-01
3.49E-01
3.46E-01
3.44E-01
3.42E-01
3.40E-01
3.38E-01
3.36E-01
3.34E-01
3.32E-01
3.30E-01
3.28E-01
3.25E-01
3.24E-01
3.22E-01
3.20E-01
3.18E-01
3.15E-01
3.13E-01
3.11E-01
3.09E-01
3.08E-01
3.06E-01

3.04E-01
3.02E-01
3.00E-01
3.00E-01
2.98E-01
2.96E-01
2.93E-01
2.91E-01
2.89E-01
2.87E-01
2.87E-01
2.84E-01
2.82E-01
2.80E-01
2.78E-01
2.78E-01
2.75E-01
2.73E-01
2.71E-01
2.69E-01
2.67E-01
2.66E-01
2.64E-01
2.62E-01
2.60E-01
2.58E-01
2.56E-01
2.54E-01
2.52E-01
2.50E-01
2.48E-01
2.46E-01
2.44E-01
2.42E-01
2.41E-01
2.39E-01
2.37E-01
2.34E-01
2.32E-01
2.30E-01
2.29E-01
2.27E-01
2.25E-01
2.24E-01
2.21E-01

2.21E-01
2.19E-01
2.17E-01
2.15E-01
2.13E-01
2.10E-01
2.10E-01
2.07E-01
2.07E-01
2.05E-01
2.04E-01
2.02E-01
2.00E-01
2.00E-01
1.98E-01
1.97E-01
1.95E-01
1.93E-01
1.91E-01
1.89E-01
1.87E-01
1.86E-01
1.84E-01
1.82E-01
1.82E-01
1.79E-01
1.77E-01
1.75E-01
1.73E-01
1.71E-01
1.69E-01
1.67E-01
1.65E-01
1.63E-01
1.61E-01
1.59E-01
1.58E-01
1.56E-01
1.53E-01
1.51E-01
1.49E-01
1.48E-01
1.46E-01
1.44E-01
1.43E-01

1.42E-01
1.41E-01
1.39E-01
1.37E-01
1.36E-01
1.35E-01
1.34E-01
1.32E-01
1.31E-01
1.29E-01
1.28E-01
1.26E-01
1.24E-01
1.22E-01
1.20E-01
1.18E-01
1.16E-01
1.13E-01
1.11E-01
1.09E-01
1.07E-01
1.05E-01
1.03E-01
1.01E-01
9.85E-02
9.64E-02
9.42E-02
9.21E-02
8.99E-02
8.78E-02
8.57E-02
8.35E-02
8.14E-02
7.92E-02
7.71E-02
7.49E-02
7.28E-02
7.07E-02
6.85E-02
6.64E-02
6.42E-02
6.21E-02
6.00E-02
5.78E-02
5.57E-02

5.35E-02
5.14E-02
4.93E-02
4.71E-02
4.50E-02
4.28E-02
4.07E-02
3.85E-02
3.64E-02
3.43E-02
3.21E-02
3.00E-02
2.78E-02
2.57E-02
2.36E-02
2.14E-02
1.93E-02
1.71E-02
1.50E-02
1.28E-02
1.07E-02
8.57E-03
6.42E-03
4.28E-03
2.14E-03
1.93E-03
1.71E-03
1.50E-03
1.28E-03
1.07E-03
8.57E-04
6.42E-04
4.28E-04
2.14E-04
0.00E+00
-2.14E-04
-4.28E-04
-6.42E-04
-8.57E-04
-1.07E-03
-1.28E-03
-1.50E-03
-1.71E-03
-1.93E-03
-2.14E-03

-4.28E-03
-6.42E-03
-8.57E-03
-1.07E-02
-1.28E-02
-1.50E-02
-1.71E-02
-1.93E-02
-2.14E-02
-2.36E-02
-2.57E-02
-2.78E-02
-3.00E-02
-3.21E-02
-3.43E-02
-3.64E-02
-3.85E-02
-4.07E-02
-4.28E-02
-4.50E-02
-4.71E-02
-4.93E-02
-5.14E-02
-5.35E-02
-5.57E-02
-5.78E-02
-6.00E-02
-6.21E-02
-6.42E-02
-6.64E-02
-6.85E-02
-7.07E-02
-7.28E-02
-7.49E-02
-7.71E-02
-7.92E-02
-8.14E-02
-8.35E-02
-8.57E-02
-8.78E-02
-8.99E-02
-9.21E-02
-9.42E-02
-9.64E-02
-9.85E-02

-1.01E-01
-1.03E-01
-1.05E-01
-1.07E-01
-1.09E-01
-1.11E-01
-1.13E-01
-1.16E-01
-1.18E-01
-1.19E-01
-1.21E-01
-1.23E-01
-1.24E-01
-1.25E-01
-1.26E-01
-1.27E-01
-1.29E-01
-1.30E-01
-1.32E-01
-1.33E-01
-1.34E-01
-1.35E-01
-1.36E-01
-1.37E-01
-1.38E-01
-1.39E-01
-1.41E-01
-1.44E-01
-1.46E-01
-1.46E-01
-1.48E-01
-1.50E-01
-1.51E-01
-1.54E-01
-1.54E-01
-1.56E-01
-1.58E-01
-1.60E-01
-1.61E-01
-1.63E-01
-1.65E-01
-1.66E-01
-1.68E-01
-1.70E-01
-1.72E-01

-1.73E-01
-1.75E-01
-1.76E-01
-1.78E-01
-1.80E-01
-1.82E-01
-1.84E-01
-1.86E-01
-1.86E-01
-1.88E-01
-1.91E-01
-1.93E-01
-1.95E-01
-1.97E-01
-1.97E-01
-1.99E-01
-2.00E-01
-2.02E-01
-2.04E-01
-2.06E-01
-2.09E-01
-2.11E-01
-2.13E-01
-2.14E-01
-2.16E-01
-2.18E-01
-2.21E-01
-2.23E-01
-2.25E-01
-2.27E-01
-2.29E-01
-2.30E-01
-2.32E-01
-2.34E-01
-2.36E-01
-2.39E-01
-2.41E-01
-2.43E-01
-2.45E-01
-2.47E-01
-2.49E-01
-2.49E-01
-2.51E-01
-2.53E-01
-2.55E-01

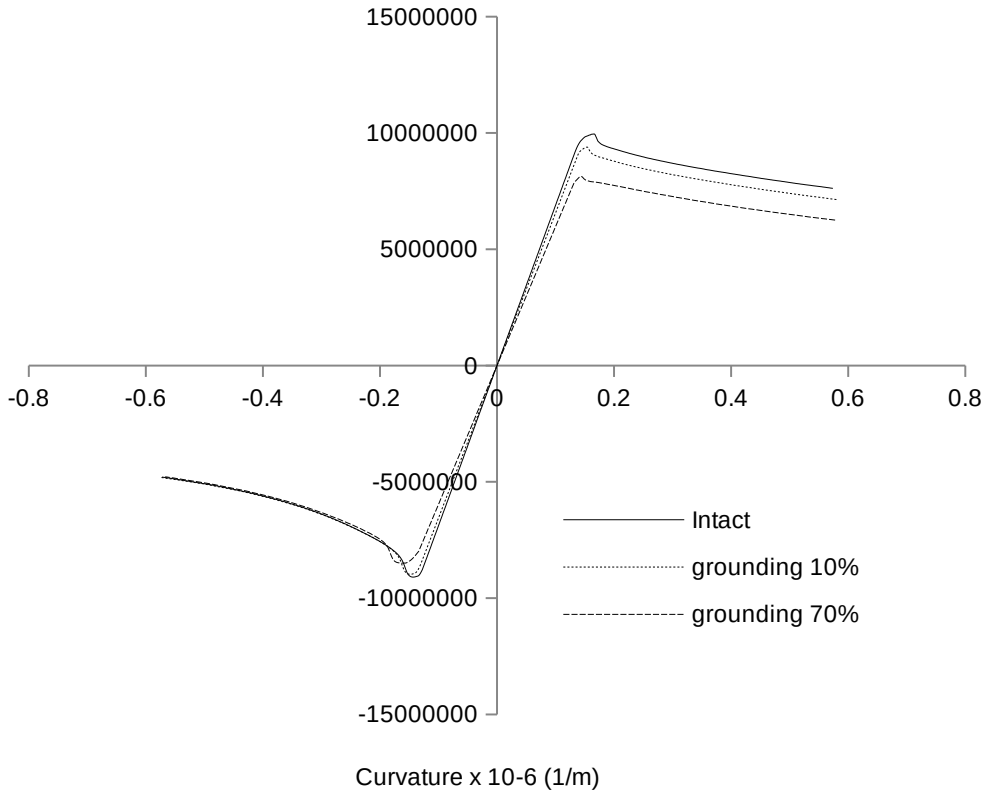
-2.57E-01
-2.59E-01
-2.61E-01
-2.63E-01
-2.66E-01
-2.68E-01
-2.70E-01
-2.70E-01
-2.72E-01
-2.75E-01
-2.77E-01
-2.79E-01
-2.80E-01
-2.82E-01
-2.84E-01
-2.87E-01
-2.89E-01
-2.91E-01
-2.93E-01
-2.95E-01
-2.97E-01
-2.99E-01
-3.01E-01
-3.03E-01
-3.05E-01
-3.07E-01
-3.10E-01
-3.12E-01
-3.14E-01
-3.16E-01
-3.16E-01
-3.19E-01
-3.21E-01
-3.23E-01
-3.25E-01
-3.27E-01
-3.29E-01
-3.30E-01
-3.32E-01
-3.34E-01
-3.36E-01
-3.38E-01
-3.40E-01
-3.42E-01
-3.45E-01

-3.47E-01
-3.49E-01
-3.51E-01
-3.53E-01
-3.55E-01
-3.56E-01
-3.58E-01
-3.60E-01
-3.62E-01
-3.64E-01
-3.67E-01
-3.69E-01
-3.71E-01
-3.73E-01
-3.75E-01
-3.77E-01
-3.79E-01
-3.81E-01
-3.84E-01
-3.86E-01
-3.88E-01
-3.90E-01
-3.92E-01
-3.94E-01
-3.96E-01
-3.99E-01
-4.01E-01
-4.03E-01
-4.05E-01
-4.07E-01
-4.09E-01
-4.11E-01
-4.13E-01
-4.15E-01
-4.18E-01
-4.20E-01
-4.22E-01
-4.24E-01
-4.26E-01
-4.28E-01
-4.30E-01
-4.32E-01
-4.34E-01
-4.37E-01
-4.39E-01

-4.41E-01
-4.43E-01
-4.45E-01
-4.47E-01
-4.49E-01
-4.52E-01
-4.54E-01
-4.56E-01
-4.58E-01
-4.60E-01
-4.62E-01
-4.64E-01
-4.67E-01
-4.69E-01
-4.71E-01
-4.73E-01
-4.75E-01
-4.77E-01
-4.79E-01
-4.81E-01
-4.83E-01
-4.85E-01
-4.87E-01
-4.90E-01
-4.92E-01
-4.94E-01
-4.94E-01
-4.96E-01
-4.99E-01
-5.01E-01
-5.02E-01
-5.04E-01
-5.06E-01
-5.09E-01
-5.11E-01
-5.13E-01
-5.15E-01
-5.17E-01
-5.19E-01
-5.21E-01
-5.24E-01
-5.26E-01
-5.28E-01
-5.30E-01
-5.32E-01

-5.34E-01
-5.36E-01
-5.39E-01
-5.41E-01
-5.43E-01
-5.45E-01
-5.47E-01
-5.49E-01
-5.51E-01
-5.54E-01
-5.56E-01
-5.58E-01
-5.60E-01
-5.62E-01
-5.64E-01
-5.66E-01
-5.69E-01
-5.71E-01
-5.73E-01

| Intact | | | | 10% | |
|----------|----------|----------|-----------|----------|----------|
| | 4670 | 9.80E-06 | 1.00E-06 | | 4670 |
| Momen | Rotasi | Momen | Curvature | Momen | Rotasi |
| 7.77E+11 | 2.68E-03 | 7.62E+06 | 5.74E-01 | 7.28E+11 | 2.71E-03 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.93E+11 | 2.47E-03 | 7.77E+06 | 5.28E-01 | 7.44E+11 | 2.49E-03 |
| 7.94E+11 | 2.46E-03 | 7.78E+06 | 5.26E-01 | 7.44E+11 | 2.48E-03 |
| 7.95E+11 | 2.45E-03 | 7.79E+06 | 5.24E-01 | 7.45E+11 | 2.47E-03 |
| 7.95E+11 | 2.44E-03 | 7.79E+06 | 5.21E-01 | 7.46E+11 | 2.46E-03 |
| 7.95E+11 | 2.43E-03 | 7.79E+06 | 5.21E-01 | 7.47E+11 | 2.45E-03 |
| 7.96E+11 | 2.42E-03 | 7.80E+06 | 5.19E-01 | 7.47E+11 | 2.44E-03 |
| 7.97E+11 | 2.41E-03 | 7.81E+06 | 5.17E-01 | 7.48E+11 | 2.43E-03 |
| 7.98E+11 | 2.40E-03 | 7.82E+06 | 5.15E-01 | 7.48E+11 | 2.43E-03 |
| 7.98E+11 | 2.39E-03 | 7.82E+06 | 5.13E-01 | 7.49E+11 | 2.42E-03 |
| 7.99E+11 | 2.38E-03 | 7.83E+06 | 5.10E-01 | 7.50E+11 | 2.41E-03 |
| 8.00E+11 | 2.37E-03 | 7.84E+06 | 5.08E-01 | 7.51E+11 | 2.40E-03 |
| 8.01E+11 | 2.36E-03 | 7.85E+06 | 5.06E-01 | 7.51E+11 | 2.39E-03 |
| 8.02E+11 | 2.35E-03 | 7.85E+06 | 5.04E-01 | 7.52E+11 | 2.38E-03 |
| 8.02E+11 | 2.34E-03 | 7.86E+06 | 5.02E-01 | 7.53E+11 | 2.37E-03 |
| 8.03E+11 | 2.33E-03 | 7.87E+06 | 5.00E-01 | 7.54E+11 | 2.36E-03 |
| 8.04E+11 | 2.32E-03 | 7.88E+06 | 4.98E-01 | 7.54E+11 | 2.35E-03 |
| 8.05E+11 | 2.31E-03 | 7.89E+06 | 4.96E-01 | 7.55E+11 | 2.34E-03 |
| 8.06E+11 | 2.30E-03 | 7.90E+06 | 4.93E-01 | 7.56E+11 | 2.33E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.07E+11 | 2.29E-03 | 7.90E+06 | 4.91E-01 | 7.57E+11 | 2.32E-03 |
| 8.07E+11 | 2.28E-03 | 7.91E+06 | 4.89E-01 | 7.58E+11 | 2.31E-03 |
| 8.08E+11 | 2.28E-03 | 7.91E+06 | 4.88E-01 | 7.58E+11 | 2.30E-03 |
| 8.08E+11 | 2.27E-03 | 7.92E+06 | 4.86E-01 | 7.59E+11 | 2.29E-03 |
| 8.09E+11 | 2.26E-03 | 7.93E+06 | 4.84E-01 | 7.60E+11 | 2.28E-03 |
| 8.10E+11 | 2.25E-03 | 7.94E+06 | 4.82E-01 | 7.61E+11 | 2.27E-03 |
| 8.11E+11 | 2.24E-03 | 7.94E+06 | 4.80E-01 | 7.62E+11 | 2.26E-03 |
| 8.11E+11 | 2.23E-03 | 7.95E+06 | 4.78E-01 | 7.62E+11 | 2.25E-03 |
| 8.12E+11 | 2.22E-03 | 7.96E+06 | 4.76E-01 | 7.63E+11 | 2.24E-03 |
| 8.13E+11 | 2.21E-03 | 7.97E+06 | 4.73E-01 | 7.64E+11 | 2.23E-03 |
| 8.14E+11 | 2.20E-03 | 7.97E+06 | 4.71E-01 | 7.65E+11 | 2.22E-03 |
| 8.15E+11 | 2.19E-03 | 7.98E+06 | 4.69E-01 | 7.65E+11 | 2.21E-03 |
| 8.15E+11 | 2.18E-03 | 7.99E+06 | 4.67E-01 | 7.66E+11 | 2.20E-03 |
| 8.16E+11 | 2.17E-03 | 8.00E+06 | 4.65E-01 | 7.67E+11 | 2.19E-03 |
| 8.17E+11 | 2.16E-03 | 8.01E+06 | 4.63E-01 | 7.68E+11 | 2.18E-03 |
| 8.18E+11 | 2.15E-03 | 8.01E+06 | 4.61E-01 | 7.68E+11 | 2.17E-03 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 7.69E+11 | 2.16E-03 |
| 8.19E+11 | 2.14E-03 | 8.02E+06 | 4.58E-01 | 7.70E+11 | 2.15E-03 |
| 8.19E+11 | 2.13E-03 | 8.03E+06 | 4.56E-01 | 7.71E+11 | 2.14E-03 |
| 8.20E+11 | 2.12E-03 | 8.04E+06 | 4.54E-01 | 7.71E+11 | 2.13E-03 |
| 8.21E+11 | 2.11E-03 | 8.05E+06 | 4.52E-01 | 7.72E+11 | 2.13E-03 |
| 8.22E+11 | 2.10E-03 | 8.05E+06 | 4.50E-01 | 7.72E+11 | 2.12E-03 |
| 8.23E+11 | 2.09E-03 | 8.06E+06 | 4.48E-01 | 7.73E+11 | 2.11E-03 |
| 8.24E+11 | 2.08E-03 | 8.07E+06 | 4.45E-01 | 7.74E+11 | 2.10E-03 |
| 8.25E+11 | 2.07E-03 | 8.08E+06 | 4.43E-01 | 7.75E+11 | 2.09E-03 |
| 8.25E+11 | 2.06E-03 | 8.09E+06 | 4.41E-01 | 7.76E+11 | 2.08E-03 |
| 8.26E+11 | 2.05E-03 | 8.10E+06 | 4.39E-01 | 7.77E+11 | 2.07E-03 |
| 8.27E+11 | 2.04E-03 | 8.11E+06 | 4.37E-01 | 7.77E+11 | 2.06E-03 |
| 8.28E+11 | 2.03E-03 | 8.12E+06 | 4.35E-01 | 7.78E+11 | 2.05E-03 |
| 8.29E+11 | 2.02E-03 | 8.12E+06 | 4.33E-01 | 7.79E+11 | 2.04E-03 |
| 8.30E+11 | 2.01E-03 | 8.13E+06 | 4.31E-01 | 7.80E+11 | 2.03E-03 |
| 8.30E+11 | 2.00E-03 | 8.14E+06 | 4.29E-01 | 7.81E+11 | 2.02E-03 |
| 8.31E+11 | 1.99E-03 | 8.14E+06 | 4.27E-01 | 7.82E+11 | 2.01E-03 |
| 8.32E+11 | 1.98E-03 | 8.15E+06 | 4.25E-01 | 7.82E+11 | 2.00E-03 |
| 8.33E+11 | 1.97E-03 | 8.16E+06 | 4.23E-01 | 7.83E+11 | 1.99E-03 |
| 8.34E+11 | 1.96E-03 | 8.17E+06 | 4.21E-01 | 7.84E+11 | 1.98E-03 |
| 8.35E+11 | 1.95E-03 | 8.18E+06 | 4.18E-01 | 7.85E+11 | 1.97E-03 |
| 8.35E+11 | 1.94E-03 | 8.19E+06 | 4.16E-01 | 7.86E+11 | 1.96E-03 |
| 8.36E+11 | 1.93E-03 | 8.20E+06 | 4.14E-01 | 7.86E+11 | 1.95E-03 |
| 8.37E+11 | 1.92E-03 | 8.20E+06 | 4.12E-01 | 7.87E+11 | 1.94E-03 |
| 8.38E+11 | 1.91E-03 | 8.21E+06 | 4.10E-01 | 7.88E+11 | 1.93E-03 |
| 8.39E+11 | 1.91E-03 | 8.22E+06 | 4.08E-01 | 7.89E+11 | 1.92E-03 |
| 8.40E+11 | 1.90E-03 | 8.23E+06 | 4.06E-01 | 7.90E+11 | 1.91E-03 |
| 8.40E+11 | 1.89E-03 | 8.24E+06 | 4.04E-01 | 7.91E+11 | 1.90E-03 |
| 8.41E+11 | 1.88E-03 | 8.24E+06 | 4.01E-01 | 7.91E+11 | 1.89E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.42E+11 | 1.87E-03 | 8.25E+06 | 3.99E-01 | 7.92E+11 | 1.88E-03 |
| 8.43E+11 | 1.86E-03 | 8.26E+06 | 3.97E-01 | 7.93E+11 | 1.87E-03 |
| 8.44E+11 | 1.85E-03 | 8.27E+06 | 3.95E-01 | 7.94E+11 | 1.86E-03 |
| 8.45E+11 | 1.84E-03 | 8.28E+06 | 3.93E-01 | 7.95E+11 | 1.85E-03 |
| 8.46E+11 | 1.83E-03 | 8.29E+06 | 3.91E-01 | 7.96E+11 | 1.84E-03 |
| 8.47E+11 | 1.82E-03 | 8.30E+06 | 3.89E-01 | 7.97E+11 | 1.83E-03 |
| 8.47E+11 | 1.81E-03 | 8.30E+06 | 3.88E-01 | 7.98E+11 | 1.82E-03 |
| 8.48E+11 | 1.80E-03 | 8.31E+06 | 3.86E-01 | 7.99E+11 | 1.81E-03 |
| 8.49E+11 | 1.79E-03 | 8.32E+06 | 3.84E-01 | 8.00E+11 | 1.80E-03 |
| 8.50E+11 | 1.78E-03 | 8.33E+06 | 3.82E-01 | 8.00E+11 | 1.80E-03 |
| 8.50E+11 | 1.77E-03 | 8.33E+06 | 3.79E-01 | 8.01E+11 | 1.79E-03 |
| 8.51E+11 | 1.76E-03 | 8.34E+06 | 3.77E-01 | 8.02E+11 | 1.78E-03 |
| 8.52E+11 | 1.75E-03 | 8.35E+06 | 3.75E-01 | 8.02E+11 | 1.77E-03 |
| 8.53E+11 | 1.74E-03 | 8.36E+06 | 3.73E-01 | 8.03E+11 | 1.76E-03 |
| 8.54E+11 | 1.73E-03 | 8.37E+06 | 3.71E-01 | 8.04E+11 | 1.75E-03 |
| 8.55E+11 | 1.72E-03 | 8.38E+06 | 3.69E-01 | 8.05E+11 | 1.74E-03 |
| 8.56E+11 | 1.71E-03 | 8.39E+06 | 3.67E-01 | 8.06E+11 | 1.73E-03 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.07E+11 | 1.72E-03 |
| 8.57E+11 | 1.70E-03 | 8.40E+06 | 3.64E-01 | 8.08E+11 | 1.71E-03 |
| 8.58E+11 | 1.69E-03 | 8.41E+06 | 3.62E-01 | 8.09E+11 | 1.70E-03 |
| 8.59E+11 | 1.68E-03 | 8.42E+06 | 3.60E-01 | 8.10E+11 | 1.69E-03 |
| 8.60E+11 | 1.67E-03 | 8.43E+06 | 3.58E-01 | 8.10E+11 | 1.69E-03 |
| 8.61E+11 | 1.66E-03 | 8.44E+06 | 3.56E-01 | 8.11E+11 | 1.68E-03 |
| 8.62E+11 | 1.65E-03 | 8.45E+06 | 3.54E-01 | 8.12E+11 | 1.67E-03 |
| 8.63E+11 | 1.64E-03 | 8.46E+06 | 3.52E-01 | 8.13E+11 | 1.66E-03 |
| 8.64E+11 | 1.63E-03 | 8.47E+06 | 3.49E-01 | 8.14E+11 | 1.65E-03 |
| 8.65E+11 | 1.62E-03 | 8.48E+06 | 3.47E-01 | 8.15E+11 | 1.64E-03 |
| 8.66E+11 | 1.61E-03 | 8.48E+06 | 3.46E-01 | 8.16E+11 | 1.63E-03 |
| 8.66E+11 | 1.60E-03 | 8.49E+06 | 3.43E-01 | 8.17E+11 | 1.62E-03 |
| 8.67E+11 | 1.59E-03 | 8.50E+06 | 3.41E-01 | 8.17E+11 | 1.61E-03 |
| 8.68E+11 | 1.58E-03 | 8.51E+06 | 3.39E-01 | 8.18E+11 | 1.60E-03 |
| 8.69E+11 | 1.57E-03 | 8.52E+06 | 3.37E-01 | 8.19E+11 | 1.59E-03 |
| 8.70E+11 | 1.56E-03 | 8.53E+06 | 3.35E-01 | 8.20E+11 | 1.58E-03 |
| 8.71E+11 | 1.55E-03 | 8.54E+06 | 3.33E-01 | 8.21E+11 | 1.57E-03 |
| 8.72E+11 | 1.54E-03 | 8.55E+06 | 3.31E-01 | 8.22E+11 | 1.56E-03 |
| 8.73E+11 | 1.53E-03 | 8.56E+06 | 3.28E-01 | 8.23E+11 | 1.55E-03 |
| 8.74E+11 | 1.52E-03 | 8.57E+06 | 3.26E-01 | 8.24E+11 | 1.54E-03 |
| 8.75E+11 | 1.52E-03 | 8.58E+06 | 3.24E-01 | 8.25E+11 | 1.53E-03 |
| 8.76E+11 | 1.51E-03 | 8.59E+06 | 3.22E-01 | 8.26E+11 | 1.52E-03 |
| 8.77E+11 | 1.50E-03 | 8.60E+06 | 3.20E-01 | 8.27E+11 | 1.51E-03 |
| 8.79E+11 | 1.49E-03 | 8.61E+06 | 3.18E-01 | 8.28E+11 | 1.50E-03 |
| 8.80E+11 | 1.48E-03 | 8.62E+06 | 3.16E-01 | 8.29E+11 | 1.49E-03 |
| 8.81E+11 | 1.47E-03 | 8.63E+06 | 3.14E-01 | 8.30E+11 | 1.48E-03 |
| 8.81E+11 | 1.46E-03 | 8.63E+06 | 3.13E-01 | 8.31E+11 | 1.47E-03 |
| 8.82E+11 | 1.45E-03 | 8.64E+06 | 3.11E-01 | 8.32E+11 | 1.46E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.83E+11 | 1.44E-03 | 8.65E+06 | 3.09E-01 | 8.33E+11 | 1.45E-03 |
| 8.84E+11 | 1.43E-03 | 8.66E+06 | 3.07E-01 | 8.33E+11 | 1.45E-03 |
| 8.85E+11 | 1.42E-03 | 8.67E+06 | 3.05E-01 | 8.34E+11 | 1.44E-03 |
| 8.86E+11 | 1.41E-03 | 8.68E+06 | 3.03E-01 | 8.35E+11 | 1.43E-03 |
| 8.87E+11 | 1.40E-03 | 8.69E+06 | 3.01E-01 | 8.36E+11 | 1.42E-03 |
| 8.88E+11 | 1.39E-03 | 8.70E+06 | 2.99E-01 | 8.37E+11 | 1.41E-03 |
| 8.89E+11 | 1.38E-03 | 8.71E+06 | 2.96E-01 | 8.38E+11 | 1.40E-03 |
| 8.90E+11 | 1.38E-03 | 8.72E+06 | 2.96E-01 | 8.39E+11 | 1.39E-03 |
| 8.91E+11 | 1.37E-03 | 8.73E+06 | 2.93E-01 | 8.40E+11 | 1.38E-03 |
| 8.92E+11 | 1.36E-03 | 8.74E+06 | 2.91E-01 | 8.41E+11 | 1.37E-03 |
| 8.93E+11 | 1.35E-03 | 8.75E+06 | 2.89E-01 | 8.42E+11 | 1.36E-03 |
| 8.94E+11 | 1.34E-03 | 8.76E+06 | 2.87E-01 | 8.43E+11 | 1.35E-03 |
| 8.95E+11 | 1.33E-03 | 8.77E+06 | 2.85E-01 | 8.44E+11 | 1.34E-03 |
| 8.96E+11 | 1.33E-03 | 8.78E+06 | 2.84E-01 | 8.45E+11 | 1.33E-03 |
| 8.97E+11 | 1.32E-03 | 8.79E+06 | 2.82E-01 | 8.46E+11 | 1.32E-03 |
| 8.98E+11 | 1.31E-03 | 8.80E+06 | 2.80E-01 | 8.47E+11 | 1.31E-03 |
| 8.99E+11 | 1.30E-03 | 8.81E+06 | 2.78E-01 | 8.48E+11 | 1.31E-03 |
| 9.00E+11 | 1.29E-03 | 8.82E+06 | 2.76E-01 | 8.49E+11 | 1.30E-03 |
| 9.02E+11 | 1.28E-03 | 8.83E+06 | 2.73E-01 | 8.50E+11 | 1.29E-03 |
| 9.02E+11 | 1.27E-03 | 8.84E+06 | 2.73E-01 | 8.51E+11 | 1.28E-03 |
| 9.03E+11 | 1.26E-03 | 8.85E+06 | 2.71E-01 | 8.52E+11 | 1.27E-03 |
| 9.04E+11 | 1.25E-03 | 8.86E+06 | 2.69E-01 | 8.53E+11 | 1.26E-03 |
| 9.05E+11 | 1.24E-03 | 8.87E+06 | 2.66E-01 | 8.54E+11 | 1.25E-03 |
| 9.07E+11 | 1.23E-03 | 8.89E+06 | 2.64E-01 | 8.56E+11 | 1.24E-03 |
| 9.08E+11 | 1.22E-03 | 8.90E+06 | 2.62E-01 | 8.57E+11 | 1.23E-03 |
| 9.09E+11 | 1.21E-03 | 8.91E+06 | 2.60E-01 | 8.58E+11 | 1.22E-03 |
| 9.10E+11 | 1.21E-03 | 8.92E+06 | 2.58E-01 | 8.59E+11 | 1.21E-03 |
| 9.11E+11 | 1.20E-03 | 8.93E+06 | 2.56E-01 | 8.60E+11 | 1.20E-03 |
| 9.13E+11 | 1.19E-03 | 8.95E+06 | 2.54E-01 | 8.60E+11 | 1.20E-03 |
| 9.14E+11 | 1.18E-03 | 8.96E+06 | 2.52E-01 | 8.61E+11 | 1.19E-03 |
| 9.16E+11 | 1.17E-03 | 8.97E+06 | 2.49E-01 | 8.62E+11 | 1.18E-03 |
| 9.17E+11 | 1.16E-03 | 8.98E+06 | 2.48E-01 | 8.64E+11 | 1.17E-03 |
| 9.18E+11 | 1.15E-03 | 9.00E+06 | 2.45E-01 | 8.65E+11 | 1.16E-03 |
| 9.20E+11 | 1.14E-03 | 9.01E+06 | 2.43E-01 | 8.66E+11 | 1.15E-03 |
| 9.21E+11 | 1.13E-03 | 9.03E+06 | 2.41E-01 | 8.67E+11 | 1.14E-03 |
| 9.22E+11 | 1.12E-03 | 9.04E+06 | 2.39E-01 | 8.69E+11 | 1.13E-03 |
| 9.23E+11 | 1.11E-03 | 9.05E+06 | 2.38E-01 | 8.70E+11 | 1.12E-03 |
| 9.24E+11 | 1.10E-03 | 9.06E+06 | 2.36E-01 | 8.71E+11 | 1.11E-03 |
| 9.26E+11 | 1.09E-03 | 9.07E+06 | 2.34E-01 | 8.72E+11 | 1.10E-03 |
| 9.27E+11 | 1.08E-03 | 9.09E+06 | 2.31E-01 | 8.73E+11 | 1.09E-03 |
| 9.29E+11 | 1.07E-03 | 9.10E+06 | 2.29E-01 | 8.74E+11 | 1.08E-03 |
| 9.30E+11 | 1.06E-03 | 9.11E+06 | 2.27E-01 | 8.76E+11 | 1.07E-03 |
| 9.32E+11 | 1.05E-03 | 9.13E+06 | 2.25E-01 | 8.77E+11 | 1.06E-03 |
| 9.33E+11 | 1.04E-03 | 9.15E+06 | 2.23E-01 | 8.79E+11 | 1.05E-03 |
| 9.35E+11 | 1.03E-03 | 9.16E+06 | 2.21E-01 | 8.80E+11 | 1.05E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.35E+11 | 1.03E-03 | 9.17E+06 | 2.20E-01 | 8.81E+11 | 1.04E-03 |
| 9.37E+11 | 1.02E-03 | 9.18E+06 | 2.18E-01 | 8.83E+11 | 1.03E-03 |
| 9.38E+11 | 1.01E-03 | 9.19E+06 | 2.16E-01 | 8.84E+11 | 1.02E-03 |
| 9.40E+11 | 9.99E-04 | 9.21E+06 | 2.14E-01 | 8.85E+11 | 1.01E-03 |
| 9.42E+11 | 9.89E-04 | 9.23E+06 | 2.12E-01 | 8.86E+11 | 1.00E-03 |
| 9.42E+11 | 9.87E-04 | 9.23E+06 | 2.11E-01 | 8.87E+11 | 9.92E-04 |
| 9.43E+11 | 9.77E-04 | 9.25E+06 | 2.09E-01 | 8.89E+11 | 9.82E-04 |
| 9.45E+11 | 9.67E-04 | 9.26E+06 | 2.07E-01 | 8.91E+11 | 9.72E-04 |
| 9.47E+11 | 9.57E-04 | 9.28E+06 | 2.05E-01 | 8.92E+11 | 9.62E-04 |
| 9.48E+11 | 9.49E-04 | 9.29E+06 | 2.03E-01 | 8.94E+11 | 9.52E-04 |
| 9.50E+11 | 9.39E-04 | 9.31E+06 | 2.01E-01 | 8.96E+11 | 9.42E-04 |
| 9.52E+11 | 9.29E-04 | 9.33E+06 | 1.99E-01 | 8.96E+11 | 9.40E-04 |
| 9.53E+11 | 9.21E-04 | 9.34E+06 | 1.97E-01 | 8.97E+11 | 9.30E-04 |
| 9.54E+11 | 9.11E-04 | 9.35E+06 | 1.95E-01 | 8.98E+11 | 9.20E-04 |
| 9.56E+11 | 9.01E-04 | 9.37E+06 | 1.93E-01 | 9.00E+11 | 9.10E-04 |
| 9.58E+11 | 8.91E-04 | 9.39E+06 | 1.91E-01 | 9.02E+11 | 9.00E-04 |
| 9.58E+11 | 8.88E-04 | 9.39E+06 | 1.90E-01 | 9.03E+11 | 8.96E-04 |
| 9.60E+11 | 8.78E-04 | 9.41E+06 | 1.88E-01 | 9.04E+11 | 8.86E-04 |
| 9.62E+11 | 8.68E-04 | 9.43E+06 | 1.86E-01 | 9.06E+11 | 8.76E-04 |
| 9.63E+11 | 8.65E-04 | 9.44E+06 | 1.85E-01 | 9.07E+11 | 8.71E-04 |
| 9.65E+11 | 8.55E-04 | 9.46E+06 | 1.83E-01 | 9.08E+11 | 8.61E-04 |
| 9.67E+11 | 8.46E-04 | 9.48E+06 | 1.81E-01 | 9.10E+11 | 8.51E-04 |
| 9.70E+11 | 8.36E-04 | 9.51E+06 | 1.79E-01 | 9.11E+11 | 8.44E-04 |
| 9.73E+11 | 8.28E-04 | 9.53E+06 | 1.77E-01 | 9.12E+11 | 8.37E-04 |
| 9.77E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.13E+11 | 8.27E-04 |
| 9.78E+11 | 8.18E-04 | 9.58E+06 | 1.75E-01 | 9.15E+11 | 8.17E-04 |
| 9.83E+11 | 8.08E-04 | 9.63E+06 | 1.73E-01 | 9.15E+11 | 8.16E-04 |
| 9.85E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.17E+11 | 8.06E-04 |
| 9.86E+11 | 8.04E-04 | 9.66E+06 | 1.72E-01 | 9.19E+11 | 7.96E-04 |
| 9.99E+11 | 7.94E-04 | 9.79E+06 | 1.70E-01 | 9.20E+11 | 7.94E-04 |
| 1.00E+12 | 7.90E-04 | 9.84E+06 | 1.69E-01 | 9.22E+11 | 7.84E-04 |
| 1.01E+12 | 7.82E-04 | 9.94E+06 | 1.67E-01 | 9.23E+11 | 7.79E-04 |
| 1.02E+12 | 7.76E-04 | 9.96E+06 | 1.66E-01 | 9.26E+11 | 7.69E-04 |
| 1.02E+12 | 7.66E-04 | 9.95E+06 | 1.64E-01 | 9.28E+11 | 7.62E-04 |
| 1.02E+12 | 7.60E-04 | 9.95E+06 | 1.63E-01 | 9.33E+11 | 7.52E-04 |
| 1.01E+12 | 7.50E-04 | 9.94E+06 | 1.61E-01 | 9.37E+11 | 7.46E-04 |
| 1.01E+12 | 7.45E-04 | 9.92E+06 | 1.60E-01 | 9.40E+11 | 7.41E-04 |
| 1.01E+12 | 7.35E-04 | 9.91E+06 | 1.57E-01 | 9.51E+11 | 7.31E-04 |
| 1.01E+12 | 7.29E-04 | 9.89E+06 | 1.56E-01 | 9.57E+11 | 7.26E-04 |
| 1.01E+12 | 7.19E-04 | 9.87E+06 | 1.54E-01 | 9.58E+11 | 7.20E-04 |
| 1.01E+12 | 7.09E-04 | 9.85E+06 | 1.52E-01 | 9.59E+11 | 7.19E-04 |
| 1.00E+12 | 7.01E-04 | 9.83E+06 | 1.50E-01 | 9.58E+11 | 7.09E-04 |
| 1.00E+12 | 6.94E-04 | 9.80E+06 | 1.49E-01 | 9.55E+11 | 6.99E-04 |
| 9.97E+11 | 6.88E-04 | 9.77E+06 | 1.47E-01 | 9.51E+11 | 6.89E-04 |
| 9.91E+11 | 6.78E-04 | 9.71E+06 | 1.45E-01 | 9.51E+11 | 6.88E-04 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.86E+11 | 6.69E-04 | 9.66E+06 | 1.43E-01 | 9.47E+11 | 6.78E-04 |
| 9.82E+11 | 6.64E-04 | 9.63E+06 | 1.42E-01 | 9.43E+11 | 6.69E-04 |
| 9.78E+11 | 6.58E-04 | 9.58E+06 | 1.41E-01 | 9.40E+11 | 6.63E-04 |
| 9.73E+11 | 6.52E-04 | 9.53E+06 | 1.40E-01 | 9.36E+11 | 6.57E-04 |
| 9.63E+11 | 6.43E-04 | 9.43E+06 | 1.38E-01 | 9.30E+11 | 6.51E-04 |
| 9.54E+11 | 6.35E-04 | 9.35E+06 | 1.36E-01 | 9.20E+11 | 6.43E-04 |
| 9.45E+11 | 6.28E-04 | 9.26E+06 | 1.35E-01 | 9.16E+11 | 6.40E-04 |
| 9.35E+11 | 6.21E-04 | 9.16E+06 | 1.33E-01 | 9.02E+11 | 6.30E-04 |
| 9.33E+11 | 6.20E-04 | 9.14E+06 | 1.33E-01 | 8.88E+11 | 6.20E-04 |
| 9.18E+11 | 6.10E-04 | 8.99E+06 | 1.31E-01 | 8.74E+11 | 6.10E-04 |
| 9.03E+11 | 6.00E-04 | 8.85E+06 | 1.28E-01 | 8.59E+11 | 6.00E-04 |
| 8.88E+11 | 5.90E-04 | 8.70E+06 | 1.26E-01 | 8.45E+11 | 5.90E-04 |
| 8.73E+11 | 5.80E-04 | 8.55E+06 | 1.24E-01 | 8.31E+11 | 5.80E-04 |
| 8.58E+11 | 5.70E-04 | 8.40E+06 | 1.22E-01 | 8.16E+11 | 5.70E-04 |
| 8.43E+11 | 5.60E-04 | 8.26E+06 | 1.20E-01 | 8.02E+11 | 5.60E-04 |
| 8.28E+11 | 5.50E-04 | 8.11E+06 | 1.18E-01 | 7.88E+11 | 5.50E-04 |
| 8.13E+11 | 5.40E-04 | 7.96E+06 | 1.16E-01 | 7.73E+11 | 5.40E-04 |
| 7.98E+11 | 5.30E-04 | 7.82E+06 | 1.13E-01 | 7.59E+11 | 5.30E-04 |
| 7.82E+11 | 5.20E-04 | 7.67E+06 | 1.11E-01 | 7.45E+11 | 5.20E-04 |
| 7.67E+11 | 5.10E-04 | 7.52E+06 | 1.09E-01 | 7.30E+11 | 5.10E-04 |
| 7.52E+11 | 5.00E-04 | 7.37E+06 | 1.07E-01 | 7.16E+11 | 5.00E-04 |
| 7.37E+11 | 4.90E-04 | 7.23E+06 | 1.05E-01 | 7.02E+11 | 4.90E-04 |
| 7.22E+11 | 4.80E-04 | 7.08E+06 | 1.03E-01 | 6.88E+11 | 4.80E-04 |
| 7.07E+11 | 4.70E-04 | 6.93E+06 | 1.01E-01 | 6.73E+11 | 4.70E-04 |
| 6.92E+11 | 4.60E-04 | 6.78E+06 | 9.85E-02 | 6.59E+11 | 4.60E-04 |
| 6.77E+11 | 4.50E-04 | 6.64E+06 | 9.64E-02 | 6.45E+11 | 4.50E-04 |
| 6.62E+11 | 4.40E-04 | 6.49E+06 | 9.42E-02 | 6.30E+11 | 4.40E-04 |
| 6.47E+11 | 4.30E-04 | 6.34E+06 | 9.21E-02 | 6.16E+11 | 4.30E-04 |
| 6.32E+11 | 4.20E-04 | 6.19E+06 | 8.99E-02 | 6.02E+11 | 4.20E-04 |
| 6.17E+11 | 4.10E-04 | 6.05E+06 | 8.78E-02 | 5.87E+11 | 4.10E-04 |
| 6.02E+11 | 4.00E-04 | 5.90E+06 | 8.57E-02 | 5.73E+11 | 4.00E-04 |
| 5.87E+11 | 3.90E-04 | 5.75E+06 | 8.35E-02 | 5.59E+11 | 3.90E-04 |
| 5.72E+11 | 3.80E-04 | 5.60E+06 | 8.14E-02 | 5.44E+11 | 3.80E-04 |
| 5.57E+11 | 3.70E-04 | 5.46E+06 | 7.92E-02 | 5.30E+11 | 3.70E-04 |
| 5.42E+11 | 3.60E-04 | 5.31E+06 | 7.71E-02 | 5.16E+11 | 3.60E-04 |
| 5.27E+11 | 3.50E-04 | 5.16E+06 | 7.49E-02 | 5.01E+11 | 3.50E-04 |
| 5.12E+11 | 3.40E-04 | 5.01E+06 | 7.28E-02 | 4.87E+11 | 3.40E-04 |
| 4.97E+11 | 3.30E-04 | 4.87E+06 | 7.07E-02 | 4.73E+11 | 3.30E-04 |
| 4.82E+11 | 3.20E-04 | 4.72E+06 | 6.85E-02 | 4.58E+11 | 3.20E-04 |
| 4.67E+11 | 3.10E-04 | 4.57E+06 | 6.64E-02 | 4.44E+11 | 3.10E-04 |
| 4.51E+11 | 3.00E-04 | 4.42E+06 | 6.42E-02 | 4.30E+11 | 3.00E-04 |
| 4.36E+11 | 2.90E-04 | 4.28E+06 | 6.21E-02 | 4.15E+11 | 2.90E-04 |
| 4.21E+11 | 2.80E-04 | 4.13E+06 | 6.00E-02 | 4.01E+11 | 2.80E-04 |
| 4.06E+11 | 2.70E-04 | 3.98E+06 | 5.78E-02 | 3.87E+11 | 2.70E-04 |
| 3.91E+11 | 2.60E-04 | 3.83E+06 | 5.57E-02 | 3.72E+11 | 2.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.76E+11 | 2.50E-04 | 3.69E+06 | 5.35E-02 | 3.58E+11 | 2.50E-04 |
| 3.61E+11 | 2.40E-04 | 3.54E+06 | 5.14E-02 | 3.44E+11 | 2.40E-04 |
| 3.46E+11 | 2.30E-04 | 3.39E+06 | 4.93E-02 | 3.29E+11 | 2.30E-04 |
| 3.31E+11 | 2.20E-04 | 3.24E+06 | 4.71E-02 | 3.15E+11 | 2.20E-04 |
| 3.16E+11 | 2.10E-04 | 3.10E+06 | 4.50E-02 | 3.01E+11 | 2.10E-04 |
| 3.01E+11 | 2.00E-04 | 2.95E+06 | 4.28E-02 | 2.87E+11 | 2.00E-04 |
| 2.86E+11 | 1.90E-04 | 2.80E+06 | 4.07E-02 | 2.72E+11 | 1.90E-04 |
| 2.71E+11 | 1.80E-04 | 2.65E+06 | 3.85E-02 | 2.58E+11 | 1.80E-04 |
| 2.56E+11 | 1.70E-04 | 2.51E+06 | 3.64E-02 | 2.44E+11 | 1.70E-04 |
| 2.41E+11 | 1.60E-04 | 2.36E+06 | 3.43E-02 | 2.29E+11 | 1.60E-04 |
| 2.26E+11 | 1.50E-04 | 2.21E+06 | 3.21E-02 | 2.15E+11 | 1.50E-04 |
| 2.11E+11 | 1.40E-04 | 2.06E+06 | 3.00E-02 | 2.01E+11 | 1.40E-04 |
| 1.96E+11 | 1.30E-04 | 1.92E+06 | 2.78E-02 | 1.86E+11 | 1.30E-04 |
| 1.81E+11 | 1.20E-04 | 1.77E+06 | 2.57E-02 | 1.72E+11 | 1.20E-04 |
| 1.66E+11 | 1.10E-04 | 1.62E+06 | 2.36E-02 | 1.58E+11 | 1.10E-04 |
| 1.51E+11 | 1.00E-04 | 1.47E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 |
| 1.35E+11 | 9.00E-05 | 1.33E+06 | 1.93E-02 | 1.29E+11 | 9.00E-05 |
| 1.20E+11 | 8.00E-05 | 1.18E+06 | 1.71E-02 | 1.15E+11 | 8.00E-05 |
| 1.05E+11 | 7.00E-05 | 1.03E+06 | 1.50E-02 | 1.00E+11 | 7.00E-05 |
| 9.03E+10 | 6.00E-05 | 8.85E+05 | 1.28E-02 | 8.59E+10 | 6.00E-05 |
| 7.52E+10 | 5.00E-05 | 7.37E+05 | 1.07E-02 | 7.16E+10 | 5.00E-05 |
| 6.02E+10 | 4.00E-05 | 5.90E+05 | 8.57E-03 | 5.73E+10 | 4.00E-05 |
| 4.51E+10 | 3.00E-05 | 4.42E+05 | 6.42E-03 | 4.30E+10 | 3.00E-05 |
| 3.01E+10 | 2.00E-05 | 2.95E+05 | 4.28E-03 | 2.87E+10 | 2.00E-05 |
| 1.51E+10 | 1.00E-05 | 1.47E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 |
| 1.35E+10 | 9.00E-06 | 1.33E+05 | 1.93E-03 | 1.29E+10 | 9.00E-06 |
| 1.20E+10 | 8.00E-06 | 1.18E+05 | 1.71E-03 | 1.15E+10 | 8.00E-06 |
| 1.05E+10 | 7.00E-06 | 1.03E+05 | 1.50E-03 | 1.00E+10 | 7.00E-06 |
| 9.03E+09 | 6.00E-06 | 8.85E+04 | 1.28E-03 | 8.60E+09 | 6.00E-06 |
| 7.53E+09 | 5.00E-06 | 7.37E+04 | 1.07E-03 | 7.16E+09 | 5.00E-06 |
| 6.02E+09 | 4.00E-06 | 5.90E+04 | 8.57E-04 | 5.73E+09 | 4.00E-06 |
| 4.52E+09 | 3.00E-06 | 4.42E+04 | 6.42E-04 | 4.30E+09 | 3.00E-06 |
| 3.01E+09 | 2.00E-06 | 2.95E+04 | 4.28E-04 | 2.87E+09 | 2.00E-06 |
| 1.51E+09 | 1.00E-06 | 1.47E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.51E+09 | -1.00E-06 | -1.47E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 |
| -3.01E+09 | -2.00E-06 | -2.95E+04 | -4.28E-04 | -2.87E+09 | -2.00E-06 |
| -4.52E+09 | -3.00E-06 | -4.42E+04 | -6.42E-04 | -4.30E+09 | -3.00E-06 |
| -6.02E+09 | -4.00E-06 | -5.90E+04 | -8.57E-04 | -5.73E+09 | -4.00E-06 |
| -7.52E+09 | -5.00E-06 | -7.37E+04 | -1.07E-03 | -7.16E+09 | -5.00E-06 |
| -9.03E+09 | -6.00E-06 | -8.85E+04 | -1.28E-03 | -8.59E+09 | -6.00E-06 |
| -1.05E+10 | -7.00E-06 | -1.03E+05 | -1.50E-03 | -1.00E+10 | -7.00E-06 |
| -1.20E+10 | -8.00E-06 | -1.18E+05 | -1.71E-03 | -1.15E+10 | -8.00E-06 |
| -1.35E+10 | -9.00E-06 | -1.33E+05 | -1.93E-03 | -1.29E+10 | -9.00E-06 |
| -1.51E+10 | -1.00E-05 | -1.47E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -3.01E+10 | -2.00E-05 | -2.95E+05 | -4.28E-03 | -2.87E+10 | -2.00E-05 |
| -4.51E+10 | -3.00E-05 | -4.42E+05 | -6.42E-03 | -4.30E+10 | -3.00E-05 |
| -6.02E+10 | -4.00E-05 | -5.90E+05 | -8.57E-03 | -5.73E+10 | -4.00E-05 |
| -7.52E+10 | -5.00E-05 | -7.37E+05 | -1.07E-02 | -7.16E+10 | -5.00E-05 |
| -9.03E+10 | -6.00E-05 | -8.85E+05 | -1.28E-02 | -8.59E+10 | -6.00E-05 |
| -1.05E+11 | -7.00E-05 | -1.03E+06 | -1.50E-02 | -1.00E+11 | -7.00E-05 |
| -1.20E+11 | -8.00E-05 | -1.18E+06 | -1.71E-02 | -1.15E+11 | -8.00E-05 |
| -1.35E+11 | -9.00E-05 | -1.33E+06 | -1.93E-02 | -1.29E+11 | -9.00E-05 |
| -1.51E+11 | -1.00E-04 | -1.47E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 |
| -1.66E+11 | -1.10E-04 | -1.62E+06 | -2.36E-02 | -1.58E+11 | -1.10E-04 |
| -1.81E+11 | -1.20E-04 | -1.77E+06 | -2.57E-02 | -1.72E+11 | -1.20E-04 |
| -1.96E+11 | -1.30E-04 | -1.92E+06 | -2.78E-02 | -1.86E+11 | -1.30E-04 |
| -2.11E+11 | -1.40E-04 | -2.06E+06 | -3.00E-02 | -2.01E+11 | -1.40E-04 |
| -2.26E+11 | -1.50E-04 | -2.21E+06 | -3.21E-02 | -2.15E+11 | -1.50E-04 |
| -2.41E+11 | -1.60E-04 | -2.36E+06 | -3.43E-02 | -2.29E+11 | -1.60E-04 |
| -2.56E+11 | -1.70E-04 | -2.51E+06 | -3.64E-02 | -2.44E+11 | -1.70E-04 |
| -2.71E+11 | -1.80E-04 | -2.65E+06 | -3.85E-02 | -2.58E+11 | -1.80E-04 |
| -2.86E+11 | -1.90E-04 | -2.80E+06 | -4.07E-02 | -2.72E+11 | -1.90E-04 |
| -3.01E+11 | -2.00E-04 | -2.95E+06 | -4.28E-02 | -2.86E+11 | -2.00E-04 |
| -3.16E+11 | -2.10E-04 | -3.10E+06 | -4.50E-02 | -3.01E+11 | -2.10E-04 |
| -3.31E+11 | -2.20E-04 | -3.24E+06 | -4.71E-02 | -3.15E+11 | -2.20E-04 |
| -3.46E+11 | -2.30E-04 | -3.39E+06 | -4.93E-02 | -3.29E+11 | -2.30E-04 |
| -3.61E+11 | -2.40E-04 | -3.54E+06 | -5.14E-02 | -3.44E+11 | -2.40E-04 |
| -3.76E+11 | -2.50E-04 | -3.69E+06 | -5.35E-02 | -3.58E+11 | -2.50E-04 |
| -3.91E+11 | -2.60E-04 | -3.83E+06 | -5.57E-02 | -3.72E+11 | -2.60E-04 |
| -4.06E+11 | -2.70E-04 | -3.98E+06 | -5.78E-02 | -3.87E+11 | -2.70E-04 |
| -4.21E+11 | -2.80E-04 | -4.13E+06 | -6.00E-02 | -4.01E+11 | -2.80E-04 |
| -4.36E+11 | -2.90E-04 | -4.28E+06 | -6.21E-02 | -4.15E+11 | -2.90E-04 |
| -4.51E+11 | -3.00E-04 | -4.42E+06 | -6.42E-02 | -4.30E+11 | -3.00E-04 |
| -4.66E+11 | -3.10E-04 | -4.57E+06 | -6.64E-02 | -4.44E+11 | -3.10E-04 |
| -4.81E+11 | -3.20E-04 | -4.72E+06 | -6.85E-02 | -4.58E+11 | -3.20E-04 |
| -4.97E+11 | -3.30E-04 | -4.87E+06 | -7.07E-02 | -4.73E+11 | -3.30E-04 |
| -5.12E+11 | -3.40E-04 | -5.01E+06 | -7.28E-02 | -4.87E+11 | -3.40E-04 |
| -5.27E+11 | -3.50E-04 | -5.16E+06 | -7.49E-02 | -5.01E+11 | -3.50E-04 |
| -5.42E+11 | -3.60E-04 | -5.31E+06 | -7.71E-02 | -5.16E+11 | -3.60E-04 |
| -5.57E+11 | -3.70E-04 | -5.45E+06 | -7.92E-02 | -5.30E+11 | -3.70E-04 |
| -5.72E+11 | -3.80E-04 | -5.60E+06 | -8.14E-02 | -5.44E+11 | -3.80E-04 |
| -5.87E+11 | -3.90E-04 | -5.75E+06 | -8.35E-02 | -5.59E+11 | -3.90E-04 |
| -6.02E+11 | -4.00E-04 | -5.90E+06 | -8.57E-02 | -5.73E+11 | -4.00E-04 |
| -6.17E+11 | -4.10E-04 | -6.04E+06 | -8.78E-02 | -5.87E+11 | -4.10E-04 |
| -6.32E+11 | -4.20E-04 | -6.19E+06 | -8.99E-02 | -6.01E+11 | -4.20E-04 |
| -6.47E+11 | -4.30E-04 | -6.34E+06 | -9.21E-02 | -6.16E+11 | -4.30E-04 |
| -6.62E+11 | -4.40E-04 | -6.49E+06 | -9.42E-02 | -6.30E+11 | -4.40E-04 |
| -6.77E+11 | -4.50E-04 | -6.63E+06 | -9.64E-02 | -6.44E+11 | -4.50E-04 |
| -6.92E+11 | -4.60E-04 | -6.78E+06 | -9.85E-02 | -6.59E+11 | -4.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -7.07E+11 | -4.70E-04 | -6.93E+06 | -1.01E-01 | -6.73E+11 | -4.70E-04 |
| -7.22E+11 | -4.80E-04 | -7.08E+06 | -1.03E-01 | -6.87E+11 | -4.80E-04 |
| -7.37E+11 | -4.90E-04 | -7.22E+06 | -1.05E-01 | -7.02E+11 | -4.90E-04 |
| -7.52E+11 | -5.00E-04 | -7.37E+06 | -1.07E-01 | -7.16E+11 | -5.00E-04 |
| -7.67E+11 | -5.10E-04 | -7.52E+06 | -1.09E-01 | -7.30E+11 | -5.10E-04 |
| -7.82E+11 | -5.20E-04 | -7.67E+06 | -1.11E-01 | -7.45E+11 | -5.20E-04 |
| -7.97E+11 | -5.30E-04 | -7.81E+06 | -1.13E-01 | -7.59E+11 | -5.30E-04 |
| -8.12E+11 | -5.40E-04 | -7.96E+06 | -1.16E-01 | -7.73E+11 | -5.40E-04 |
| -8.27E+11 | -5.50E-04 | -8.11E+06 | -1.18E-01 | -7.88E+11 | -5.50E-04 |
| -8.42E+11 | -5.60E-04 | -8.25E+06 | -1.20E-01 | -8.02E+11 | -5.60E-04 |
| -8.57E+11 | -5.70E-04 | -8.40E+06 | -1.22E-01 | -8.16E+11 | -5.70E-04 |
| -8.70E+11 | -5.78E-04 | -8.52E+06 | -1.24E-01 | -8.30E+11 | -5.80E-04 |
| -8.84E+11 | -5.88E-04 | -8.66E+06 | -1.26E-01 | -8.45E+11 | -5.90E-04 |
| -8.95E+11 | -5.96E-04 | -8.77E+06 | -1.28E-01 | -8.57E+11 | -5.99E-04 |
| -9.03E+11 | -6.03E-04 | -8.85E+06 | -1.29E-01 | -8.70E+11 | -6.09E-04 |
| -9.09E+11 | -6.09E-04 | -8.91E+06 | -1.30E-01 | -8.82E+11 | -6.17E-04 |
| -9.15E+11 | -6.16E-04 | -8.97E+06 | -1.32E-01 | -8.89E+11 | -6.24E-04 |
| -9.20E+11 | -6.22E-04 | -9.01E+06 | -1.33E-01 | -8.95E+11 | -6.30E-04 |
| -9.23E+11 | -6.28E-04 | -9.04E+06 | -1.34E-01 | -9.00E+11 | -6.35E-04 |
| -9.24E+11 | -6.33E-04 | -9.05E+06 | -1.36E-01 | -9.05E+11 | -6.42E-04 |
| -9.25E+11 | -6.43E-04 | -9.07E+06 | -1.38E-01 | -9.08E+11 | -6.47E-04 |
| -9.27E+11 | -6.50E-04 | -9.08E+06 | -1.39E-01 | -9.10E+11 | -6.52E-04 |
| -9.28E+11 | -6.57E-04 | -9.09E+06 | -1.41E-01 | -9.12E+11 | -6.58E-04 |
| -9.28E+11 | -6.63E-04 | -9.09E+06 | -1.42E-01 | -9.13E+11 | -6.68E-04 |
| -9.28E+11 | -6.68E-04 | -9.10E+06 | -1.43E-01 | -9.14E+11 | -6.74E-04 |
| -9.28E+11 | -6.72E-04 | -9.10E+06 | -1.44E-01 | -9.15E+11 | -6.80E-04 |
| -9.28E+11 | -6.77E-04 | -9.09E+06 | -1.45E-01 | -9.16E+11 | -6.87E-04 |
| -9.27E+11 | -6.83E-04 | -9.09E+06 | -1.46E-01 | -9.16E+11 | -6.92E-04 |
| -9.27E+11 | -6.87E-04 | -9.08E+06 | -1.47E-01 | -9.16E+11 | -6.97E-04 |
| -9.24E+11 | -6.97E-04 | -9.05E+06 | -1.49E-01 | -9.16E+11 | -7.02E-04 |
| -9.18E+11 | -7.07E-04 | -9.00E+06 | -1.51E-01 | -9.15E+11 | -7.07E-04 |
| -9.10E+11 | -7.17E-04 | -8.92E+06 | -1.54E-01 | -9.14E+11 | -7.13E-04 |
| -9.08E+11 | -7.18E-04 | -8.90E+06 | -1.54E-01 | -9.11E+11 | -7.23E-04 |
| -8.95E+11 | -7.28E-04 | -8.77E+06 | -1.56E-01 | -9.05E+11 | -7.33E-04 |
| -8.93E+11 | -7.30E-04 | -8.75E+06 | -1.56E-01 | -8.96E+11 | -7.43E-04 |
| -8.77E+11 | -7.40E-04 | -8.60E+06 | -1.58E-01 | -8.94E+11 | -7.45E-04 |
| -8.67E+11 | -7.47E-04 | -8.50E+06 | -1.60E-01 | -8.79E+11 | -7.55E-04 |
| -8.55E+11 | -7.57E-04 | -8.38E+06 | -1.62E-01 | -8.76E+11 | -7.57E-04 |
| -8.52E+11 | -7.60E-04 | -8.35E+06 | -1.63E-01 | -8.61E+11 | -7.67E-04 |
| -8.43E+11 | -7.70E-04 | -8.26E+06 | -1.65E-01 | -8.52E+11 | -7.74E-04 |
| -8.36E+11 | -7.80E-04 | -8.19E+06 | -1.67E-01 | -8.42E+11 | -7.84E-04 |
| -8.35E+11 | -7.81E-04 | -8.19E+06 | -1.67E-01 | -8.37E+11 | -7.89E-04 |
| -8.29E+11 | -7.91E-04 | -8.12E+06 | -1.69E-01 | -8.29E+11 | -7.99E-04 |
| -8.25E+11 | -8.00E-04 | -8.08E+06 | -1.71E-01 | -8.23E+11 | -8.09E-04 |
| -8.19E+11 | -8.10E-04 | -8.03E+06 | -1.73E-01 | -8.22E+11 | -8.10E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.15E+11 | -8.20E-04 | -7.99E+06 | -1.75E-01 | -8.16E+11 | -8.20E-04 |
| -8.13E+11 | -8.24E-04 | -7.97E+06 | -1.76E-01 | -8.12E+11 | -8.30E-04 |
| -8.10E+11 | -8.31E-04 | -7.94E+06 | -1.78E-01 | -8.11E+11 | -8.31E-04 |
| -8.06E+11 | -8.41E-04 | -7.89E+06 | -1.80E-01 | -8.07E+11 | -8.41E-04 |
| -8.02E+11 | -8.51E-04 | -7.85E+06 | -1.82E-01 | -8.03E+11 | -8.51E-04 |
| -7.98E+11 | -8.61E-04 | -7.82E+06 | -1.84E-01 | -8.01E+11 | -8.55E-04 |
| -7.96E+11 | -8.64E-04 | -7.80E+06 | -1.85E-01 | -7.97E+11 | -8.64E-04 |
| -7.93E+11 | -8.74E-04 | -7.77E+06 | -1.87E-01 | -7.93E+11 | -8.74E-04 |
| -7.93E+11 | -8.75E-04 | -7.77E+06 | -1.87E-01 | -7.89E+11 | -8.84E-04 |
| -7.89E+11 | -8.85E-04 | -7.73E+06 | -1.89E-01 | -7.86E+11 | -8.94E-04 |
| -7.85E+11 | -8.95E-04 | -7.70E+06 | -1.92E-01 | -7.84E+11 | -9.00E-04 |
| -7.82E+11 | -9.05E-04 | -7.66E+06 | -1.94E-01 | -7.81E+11 | -9.09E-04 |
| -7.78E+11 | -9.15E-04 | -7.63E+06 | -1.96E-01 | -7.78E+11 | -9.19E-04 |
| -7.76E+11 | -9.23E-04 | -7.60E+06 | -1.98E-01 | -7.74E+11 | -9.29E-04 |
| -7.74E+11 | -9.30E-04 | -7.58E+06 | -1.99E-01 | -7.71E+11 | -9.39E-04 |
| -7.71E+11 | -9.40E-04 | -7.55E+06 | -2.01E-01 | -7.68E+11 | -9.49E-04 |
| -7.67E+11 | -9.50E-04 | -7.52E+06 | -2.03E-01 | -7.65E+11 | -9.59E-04 |
| -7.64E+11 | -9.60E-04 | -7.49E+06 | -2.06E-01 | -7.64E+11 | -9.62E-04 |
| -7.61E+11 | -9.70E-04 | -7.46E+06 | -2.08E-01 | -7.61E+11 | -9.72E-04 |
| -7.58E+11 | -9.80E-04 | -7.43E+06 | -2.10E-01 | -7.57E+11 | -9.82E-04 |
| -7.55E+11 | -9.90E-04 | -7.40E+06 | -2.12E-01 | -7.54E+11 | -9.92E-04 |
| -7.55E+11 | -9.92E-04 | -7.40E+06 | -2.12E-01 | -7.51E+11 | -1.00E-03 |
| -7.52E+11 | -1.00E-03 | -7.37E+06 | -2.14E-01 | -7.49E+11 | -1.01E-03 |
| -7.50E+11 | -1.01E-03 | -7.35E+06 | -2.16E-01 | -7.46E+11 | -1.02E-03 |
| -7.46E+11 | -1.02E-03 | -7.31E+06 | -2.18E-01 | -7.43E+11 | -1.03E-03 |
| -7.44E+11 | -1.03E-03 | -7.29E+06 | -2.21E-01 | -7.43E+11 | -1.03E-03 |
| -7.41E+11 | -1.04E-03 | -7.26E+06 | -2.23E-01 | -7.41E+11 | -1.04E-03 |
| -7.38E+11 | -1.05E-03 | -7.23E+06 | -2.25E-01 | -7.38E+11 | -1.05E-03 |
| -7.35E+11 | -1.06E-03 | -7.20E+06 | -2.27E-01 | -7.35E+11 | -1.06E-03 |
| -7.33E+11 | -1.07E-03 | -7.18E+06 | -2.29E-01 | -7.33E+11 | -1.07E-03 |
| -7.32E+11 | -1.07E-03 | -7.17E+06 | -2.30E-01 | -7.30E+11 | -1.08E-03 |
| -7.30E+11 | -1.08E-03 | -7.15E+06 | -2.31E-01 | -7.27E+11 | -1.09E-03 |
| -7.27E+11 | -1.09E-03 | -7.12E+06 | -2.33E-01 | -7.25E+11 | -1.10E-03 |
| -7.24E+11 | -1.10E-03 | -7.10E+06 | -2.36E-01 | -7.22E+11 | -1.11E-03 |
| -7.21E+11 | -1.11E-03 | -7.07E+06 | -2.38E-01 | -7.20E+11 | -1.12E-03 |
| -7.19E+11 | -1.12E-03 | -7.04E+06 | -2.40E-01 | -7.18E+11 | -1.13E-03 |
| -7.16E+11 | -1.13E-03 | -7.02E+06 | -2.42E-01 | -7.18E+11 | -1.13E-03 |
| -7.13E+11 | -1.14E-03 | -6.99E+06 | -2.44E-01 | -7.15E+11 | -1.14E-03 |
| -7.11E+11 | -1.15E-03 | -6.97E+06 | -2.46E-01 | -7.12E+11 | -1.15E-03 |
| -7.09E+11 | -1.16E-03 | -6.95E+06 | -2.48E-01 | -7.10E+11 | -1.16E-03 |
| -7.07E+11 | -1.17E-03 | -6.93E+06 | -2.50E-01 | -7.07E+11 | -1.17E-03 |
| -7.06E+11 | -1.17E-03 | -6.91E+06 | -2.51E-01 | -7.04E+11 | -1.18E-03 |
| -7.03E+11 | -1.18E-03 | -6.89E+06 | -2.53E-01 | -7.02E+11 | -1.19E-03 |
| -7.00E+11 | -1.19E-03 | -6.86E+06 | -2.55E-01 | -7.00E+11 | -1.20E-03 |
| -6.98E+11 | -1.20E-03 | -6.84E+06 | -2.57E-01 | -6.98E+11 | -1.21E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.95E+11 | -1.21E-03 | -6.81E+06 | -2.59E-01 | -6.96E+11 | -1.22E-03 |
| -6.93E+11 | -1.22E-03 | -6.79E+06 | -2.61E-01 | -6.93E+11 | -1.22E-03 |
| -6.90E+11 | -1.23E-03 | -6.76E+06 | -2.64E-01 | -6.91E+11 | -1.23E-03 |
| -6.88E+11 | -1.24E-03 | -6.74E+06 | -2.66E-01 | -6.88E+11 | -1.24E-03 |
| -6.86E+11 | -1.25E-03 | -6.72E+06 | -2.68E-01 | -6.86E+11 | -1.25E-03 |
| -6.85E+11 | -1.25E-03 | -6.71E+06 | -2.68E-01 | -6.83E+11 | -1.26E-03 |
| -6.83E+11 | -1.26E-03 | -6.69E+06 | -2.70E-01 | -6.81E+11 | -1.27E-03 |
| -6.80E+11 | -1.27E-03 | -6.67E+06 | -2.73E-01 | -6.79E+11 | -1.28E-03 |
| -6.79E+11 | -1.28E-03 | -6.66E+06 | -2.74E-01 | -6.77E+11 | -1.29E-03 |
| -6.77E+11 | -1.29E-03 | -6.63E+06 | -2.76E-01 | -6.74E+11 | -1.30E-03 |
| -6.74E+11 | -1.30E-03 | -6.61E+06 | -2.78E-01 | -6.74E+11 | -1.31E-03 |
| -6.72E+11 | -1.31E-03 | -6.58E+06 | -2.80E-01 | -6.72E+11 | -1.32E-03 |
| -6.70E+11 | -1.32E-03 | -6.56E+06 | -2.82E-01 | -6.69E+11 | -1.33E-03 |
| -6.67E+11 | -1.33E-03 | -6.54E+06 | -2.84E-01 | -6.67E+11 | -1.34E-03 |
| -6.65E+11 | -1.34E-03 | -6.52E+06 | -2.87E-01 | -6.65E+11 | -1.35E-03 |
| -6.63E+11 | -1.35E-03 | -6.50E+06 | -2.89E-01 | -6.63E+11 | -1.36E-03 |
| -6.61E+11 | -1.36E-03 | -6.48E+06 | -2.91E-01 | -6.60E+11 | -1.37E-03 |
| -6.61E+11 | -1.36E-03 | -6.47E+06 | -2.91E-01 | -6.58E+11 | -1.38E-03 |
| -6.58E+11 | -1.37E-03 | -6.45E+06 | -2.93E-01 | -6.56E+11 | -1.39E-03 |
| -6.56E+11 | -1.38E-03 | -6.43E+06 | -2.96E-01 | -6.54E+11 | -1.40E-03 |
| -6.54E+11 | -1.39E-03 | -6.41E+06 | -2.98E-01 | -6.52E+11 | -1.41E-03 |
| -6.52E+11 | -1.40E-03 | -6.39E+06 | -3.00E-01 | -6.50E+11 | -1.42E-03 |
| -6.50E+11 | -1.41E-03 | -6.37E+06 | -3.02E-01 | -6.49E+11 | -1.42E-03 |
| -6.48E+11 | -1.42E-03 | -6.35E+06 | -3.03E-01 | -6.47E+11 | -1.43E-03 |
| -6.46E+11 | -1.43E-03 | -6.33E+06 | -3.05E-01 | -6.45E+11 | -1.44E-03 |
| -6.44E+11 | -1.44E-03 | -6.31E+06 | -3.07E-01 | -6.43E+11 | -1.45E-03 |
| -6.42E+11 | -1.45E-03 | -6.29E+06 | -3.10E-01 | -6.41E+11 | -1.46E-03 |
| -6.40E+11 | -1.46E-03 | -6.27E+06 | -3.12E-01 | -6.39E+11 | -1.47E-03 |
| -6.38E+11 | -1.47E-03 | -6.26E+06 | -3.14E-01 | -6.37E+11 | -1.48E-03 |
| -6.36E+11 | -1.48E-03 | -6.24E+06 | -3.16E-01 | -6.37E+11 | -1.48E-03 |
| -6.35E+11 | -1.49E-03 | -6.22E+06 | -3.18E-01 | -6.35E+11 | -1.49E-03 |
| -6.33E+11 | -1.50E-03 | -6.20E+06 | -3.20E-01 | -6.33E+11 | -1.50E-03 |
| -6.31E+11 | -1.51E-03 | -6.18E+06 | -3.22E-01 | -6.31E+11 | -1.51E-03 |
| -6.29E+11 | -1.52E-03 | -6.16E+06 | -3.24E-01 | -6.29E+11 | -1.52E-03 |
| -6.27E+11 | -1.53E-03 | -6.15E+06 | -3.27E-01 | -6.27E+11 | -1.53E-03 |
| -6.25E+11 | -1.54E-03 | -6.13E+06 | -3.29E-01 | -6.25E+11 | -1.54E-03 |
| -6.23E+11 | -1.55E-03 | -6.11E+06 | -3.31E-01 | -6.24E+11 | -1.55E-03 |
| -6.22E+11 | -1.56E-03 | -6.09E+06 | -3.33E-01 | -6.22E+11 | -1.56E-03 |
| -6.20E+11 | -1.57E-03 | -6.07E+06 | -3.35E-01 | -6.20E+11 | -1.57E-03 |
| -6.18E+11 | -1.58E-03 | -6.06E+06 | -3.37E-01 | -6.18E+11 | -1.58E-03 |
| -6.16E+11 | -1.59E-03 | -6.04E+06 | -3.39E-01 | -6.17E+11 | -1.59E-03 |
| -6.15E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -6.15E+11 | -1.60E-03 |
| -6.14E+11 | -1.60E-03 | -6.02E+06 | -3.42E-01 | -6.13E+11 | -1.61E-03 |
| -6.12E+11 | -1.61E-03 | -6.00E+06 | -3.45E-01 | -6.11E+11 | -1.62E-03 |
| -6.11E+11 | -1.62E-03 | -5.98E+06 | -3.47E-01 | -6.10E+11 | -1.63E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.09E+11 | -1.63E-03 | -5.97E+06 | -3.49E-01 | -6.08E+11 | -1.64E-03 |
| -6.07E+11 | -1.64E-03 | -5.95E+06 | -3.51E-01 | -6.07E+11 | -1.65E-03 |
| -6.06E+11 | -1.65E-03 | -5.93E+06 | -3.53E-01 | -6.05E+11 | -1.66E-03 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -6.03E+11 | -1.67E-03 |
| -6.04E+11 | -1.66E-03 | -5.92E+06 | -3.55E-01 | -6.03E+11 | -1.68E-03 |
| -6.02E+11 | -1.67E-03 | -5.90E+06 | -3.58E-01 | -6.01E+11 | -1.69E-03 |
| -6.01E+11 | -1.68E-03 | -5.88E+06 | -3.60E-01 | -6.00E+11 | -1.70E-03 |
| -5.99E+11 | -1.69E-03 | -5.87E+06 | -3.62E-01 | -5.98E+11 | -1.71E-03 |
| -5.97E+11 | -1.70E-03 | -5.85E+06 | -3.64E-01 | -5.97E+11 | -1.72E-03 |
| -5.96E+11 | -1.71E-03 | -5.84E+06 | -3.66E-01 | -5.95E+11 | -1.73E-03 |
| -5.94E+11 | -1.72E-03 | -5.82E+06 | -3.68E-01 | -5.94E+11 | -1.74E-03 |
| -5.92E+11 | -1.73E-03 | -5.80E+06 | -3.70E-01 | -5.93E+11 | -1.74E-03 |
| -5.91E+11 | -1.74E-03 | -5.79E+06 | -3.73E-01 | -5.92E+11 | -1.75E-03 |
| -5.89E+11 | -1.75E-03 | -5.78E+06 | -3.75E-01 | -5.90E+11 | -1.76E-03 |
| -5.88E+11 | -1.76E-03 | -5.76E+06 | -3.77E-01 | -5.89E+11 | -1.77E-03 |
| -5.86E+11 | -1.77E-03 | -5.75E+06 | -3.79E-01 | -5.87E+11 | -1.78E-03 |
| -5.85E+11 | -1.78E-03 | -5.73E+06 | -3.81E-01 | -5.86E+11 | -1.79E-03 |
| -5.84E+11 | -1.79E-03 | -5.72E+06 | -3.83E-01 | -5.84E+11 | -1.80E-03 |
| -5.83E+11 | -1.80E-03 | -5.71E+06 | -3.85E-01 | -5.83E+11 | -1.81E-03 |
| -5.81E+11 | -1.81E-03 | -5.70E+06 | -3.87E-01 | -5.81E+11 | -1.82E-03 |
| -5.80E+11 | -1.82E-03 | -5.68E+06 | -3.89E-01 | -5.80E+11 | -1.83E-03 |
| -5.78E+11 | -1.83E-03 | -5.67E+06 | -3.91E-01 | -5.78E+11 | -1.84E-03 |
| -5.77E+11 | -1.84E-03 | -5.65E+06 | -3.93E-01 | -5.77E+11 | -1.85E-03 |
| -5.76E+11 | -1.85E-03 | -5.64E+06 | -3.96E-01 | -5.76E+11 | -1.86E-03 |
| -5.74E+11 | -1.86E-03 | -5.63E+06 | -3.98E-01 | -5.74E+11 | -1.87E-03 |
| -5.73E+11 | -1.87E-03 | -5.62E+06 | -3.99E-01 | -5.73E+11 | -1.88E-03 |
| -5.72E+11 | -1.88E-03 | -5.60E+06 | -4.01E-01 | -5.72E+11 | -1.88E-03 |
| -5.70E+11 | -1.89E-03 | -5.59E+06 | -4.04E-01 | -5.71E+11 | -1.89E-03 |
| -5.69E+11 | -1.90E-03 | -5.57E+06 | -4.06E-01 | -5.69E+11 | -1.90E-03 |
| -5.67E+11 | -1.91E-03 | -5.56E+06 | -4.08E-01 | -5.68E+11 | -1.91E-03 |
| -5.66E+11 | -1.92E-03 | -5.55E+06 | -4.10E-01 | -5.67E+11 | -1.92E-03 |
| -5.65E+11 | -1.93E-03 | -5.53E+06 | -4.12E-01 | -5.65E+11 | -1.93E-03 |
| -5.63E+11 | -1.94E-03 | -5.52E+06 | -4.14E-01 | -5.64E+11 | -1.94E-03 |
| -5.62E+11 | -1.95E-03 | -5.51E+06 | -4.16E-01 | -5.63E+11 | -1.95E-03 |
| -5.61E+11 | -1.96E-03 | -5.49E+06 | -4.19E-01 | -5.62E+11 | -1.96E-03 |
| -5.59E+11 | -1.97E-03 | -5.48E+06 | -4.21E-01 | -5.60E+11 | -1.97E-03 |
| -5.58E+11 | -1.98E-03 | -5.47E+06 | -4.23E-01 | -5.59E+11 | -1.98E-03 |
| -5.57E+11 | -1.99E-03 | -5.46E+06 | -4.25E-01 | -5.58E+11 | -1.99E-03 |
| -5.56E+11 | -2.00E-03 | -5.45E+06 | -4.27E-01 | -5.56E+11 | -2.00E-03 |
| -5.55E+11 | -2.01E-03 | -5.43E+06 | -4.29E-01 | -5.55E+11 | -2.01E-03 |
| -5.53E+11 | -2.02E-03 | -5.42E+06 | -4.31E-01 | -5.54E+11 | -2.02E-03 |
| -5.52E+11 | -2.03E-03 | -5.41E+06 | -4.34E-01 | -5.53E+11 | -2.03E-03 |
| -5.51E+11 | -2.04E-03 | -5.40E+06 | -4.36E-01 | -5.51E+11 | -2.04E-03 |
| -5.50E+11 | -2.05E-03 | -5.39E+06 | -4.38E-01 | -5.50E+11 | -2.05E-03 |
| -5.49E+11 | -2.05E-03 | -5.38E+06 | -4.39E-01 | -5.49E+11 | -2.06E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.48E+11 | -2.06E-03 | -5.37E+06 | -4.41E-01 | -5.48E+11 | -2.07E-03 |
| -5.47E+11 | -2.07E-03 | -5.36E+06 | -4.43E-01 | -5.47E+11 | -2.08E-03 |
| -5.46E+11 | -2.08E-03 | -5.35E+06 | -4.45E-01 | -5.46E+11 | -2.09E-03 |
| -5.45E+11 | -2.09E-03 | -5.34E+06 | -4.47E-01 | -5.45E+11 | -2.10E-03 |
| -5.44E+11 | -2.10E-03 | -5.33E+06 | -4.49E-01 | -5.43E+11 | -2.11E-03 |
| -5.42E+11 | -2.11E-03 | -5.31E+06 | -4.52E-01 | -5.42E+11 | -2.12E-03 |
| -5.41E+11 | -2.12E-03 | -5.30E+06 | -4.54E-01 | -5.41E+11 | -2.13E-03 |
| -5.40E+11 | -2.13E-03 | -5.30E+06 | -4.55E-01 | -5.40E+11 | -2.14E-03 |
| -5.39E+11 | -2.14E-03 | -5.28E+06 | -4.58E-01 | -5.39E+11 | -2.15E-03 |
| -5.38E+11 | -2.15E-03 | -5.27E+06 | -4.60E-01 | -5.38E+11 | -2.16E-03 |
| -5.37E+11 | -2.16E-03 | -5.26E+06 | -4.62E-01 | -5.37E+11 | -2.17E-03 |
| -5.36E+11 | -2.17E-03 | -5.25E+06 | -4.64E-01 | -5.36E+11 | -2.18E-03 |
| -5.35E+11 | -2.18E-03 | -5.24E+06 | -4.66E-01 | -5.35E+11 | -2.19E-03 |
| -5.34E+11 | -2.19E-03 | -5.23E+06 | -4.68E-01 | -5.34E+11 | -2.20E-03 |
| -5.33E+11 | -2.20E-03 | -5.22E+06 | -4.70E-01 | -5.33E+11 | -2.21E-03 |
| -5.31E+11 | -2.21E-03 | -5.21E+06 | -4.73E-01 | -5.32E+11 | -2.22E-03 |
| -5.30E+11 | -2.22E-03 | -5.20E+06 | -4.75E-01 | -5.31E+11 | -2.23E-03 |
| -5.29E+11 | -2.23E-03 | -5.19E+06 | -4.77E-01 | -5.30E+11 | -2.24E-03 |
| -5.28E+11 | -2.24E-03 | -5.18E+06 | -4.79E-01 | -5.29E+11 | -2.25E-03 |
| -5.27E+11 | -2.25E-03 | -5.16E+06 | -4.81E-01 | -5.28E+11 | -2.26E-03 |
| -5.26E+11 | -2.26E-03 | -5.15E+06 | -4.83E-01 | -5.27E+11 | -2.27E-03 |
| -5.25E+11 | -2.27E-03 | -5.15E+06 | -4.85E-01 | -5.26E+11 | -2.28E-03 |
| -5.24E+11 | -2.28E-03 | -5.14E+06 | -4.88E-01 | -5.25E+11 | -2.29E-03 |
| -5.23E+11 | -2.29E-03 | -5.13E+06 | -4.90E-01 | -5.24E+11 | -2.30E-03 |
| -5.22E+11 | -2.30E-03 | -5.12E+06 | -4.92E-01 | -5.23E+11 | -2.31E-03 |
| -5.21E+11 | -2.31E-03 | -5.11E+06 | -4.94E-01 | -5.22E+11 | -2.32E-03 |
| -5.20E+11 | -2.32E-03 | -5.10E+06 | -4.96E-01 | -5.21E+11 | -2.33E-03 |
| -5.19E+11 | -2.33E-03 | -5.09E+06 | -4.98E-01 | -5.20E+11 | -2.34E-03 |
| -5.19E+11 | -2.34E-03 | -5.08E+06 | -5.00E-01 | -5.19E+11 | -2.35E-03 |
| -5.18E+11 | -2.35E-03 | -5.07E+06 | -5.03E-01 | -5.18E+11 | -2.36E-03 |
| -5.17E+11 | -2.36E-03 | -5.06E+06 | -5.05E-01 | -5.17E+11 | -2.37E-03 |
| -5.16E+11 | -2.37E-03 | -5.06E+06 | -5.07E-01 | -5.16E+11 | -2.38E-03 |
| -5.15E+11 | -2.38E-03 | -5.05E+06 | -5.09E-01 | -5.15E+11 | -2.39E-03 |
| -5.14E+11 | -2.39E-03 | -5.04E+06 | -5.11E-01 | -5.14E+11 | -2.40E-03 |
| -5.14E+11 | -2.40E-03 | -5.03E+06 | -5.13E-01 | -5.13E+11 | -2.41E-03 |
| -5.13E+11 | -2.41E-03 | -5.02E+06 | -5.15E-01 | -5.12E+11 | -2.42E-03 |
| -5.12E+11 | -2.42E-03 | -5.01E+06 | -5.17E-01 | -5.12E+11 | -2.43E-03 |
| -5.11E+11 | -2.43E-03 | -5.00E+06 | -5.19E-01 | -5.11E+11 | -2.44E-03 |
| -5.10E+11 | -2.44E-03 | -5.00E+06 | -5.21E-01 | -5.10E+11 | -2.45E-03 |
| -5.09E+11 | -2.45E-03 | -4.99E+06 | -5.24E-01 | -5.09E+11 | -2.46E-03 |
| -5.08E+11 | -2.46E-03 | -4.98E+06 | -5.26E-01 | -5.08E+11 | -2.47E-03 |
| -5.07E+11 | -2.47E-03 | -4.97E+06 | -5.28E-01 | -5.07E+11 | -2.48E-03 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -5.07E+11 | -2.49E-03 |
| -5.06E+11 | -2.48E-03 | -4.96E+06 | -5.30E-01 | -5.06E+11 | -2.50E-03 |
| -5.05E+11 | -2.49E-03 | -4.95E+06 | -5.32E-01 | -5.05E+11 | -2.51E-03 |

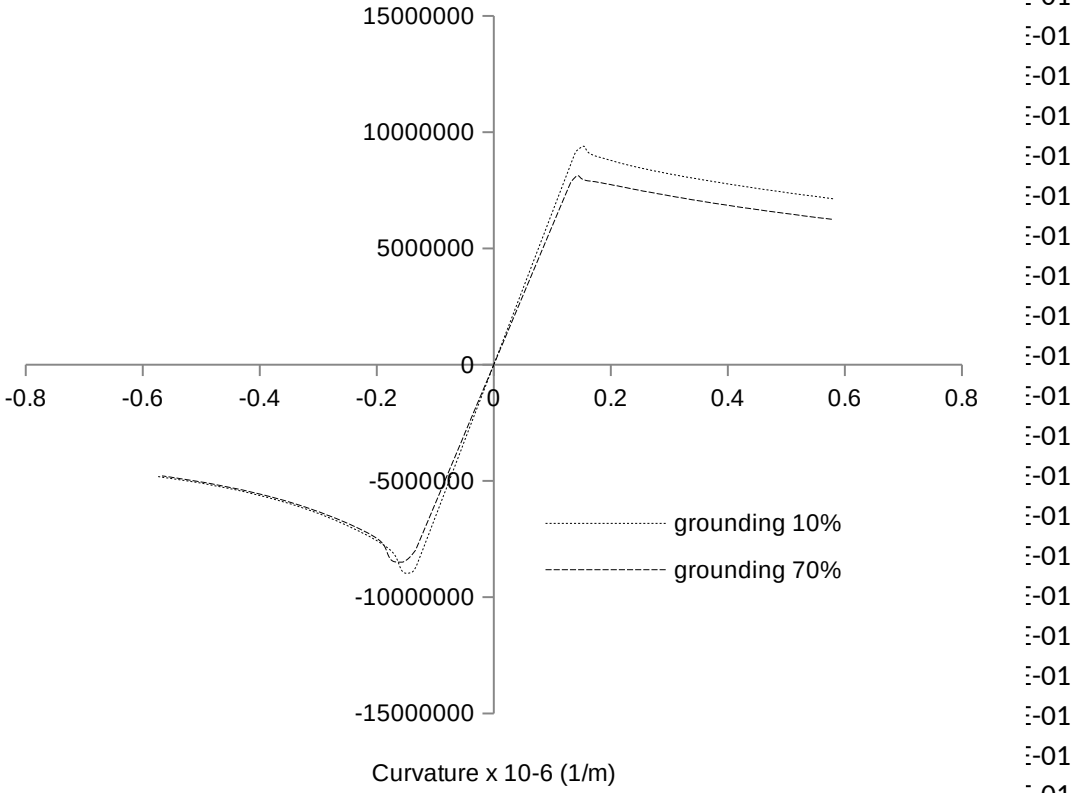
| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.05E+11 | -2.50E-03 | -4.94E+06 | -5.34E-01 | -5.04E+11 | -2.52E-03 |
| -5.04E+11 | -2.51E-03 | -4.94E+06 | -5.36E-01 | -5.03E+11 | -2.53E-03 |
| -5.03E+11 | -2.51E-03 | -4.93E+06 | -5.38E-01 | -5.03E+11 | -2.54E-03 |
| -5.02E+11 | -2.52E-03 | -4.92E+06 | -5.40E-01 | -5.02E+11 | -2.55E-03 |
| -5.01E+11 | -2.53E-03 | -4.91E+06 | -5.42E-01 | -5.01E+11 | -2.56E-03 |
| -5.00E+11 | -2.54E-03 | -4.90E+06 | -5.45E-01 | -5.00E+11 | -2.57E-03 |
| -4.99E+11 | -2.55E-03 | -4.89E+06 | -5.47E-01 | -4.99E+11 | -2.58E-03 |
| -4.98E+11 | -2.56E-03 | -4.88E+06 | -5.49E-01 | -4.99E+11 | -2.59E-03 |
| -4.98E+11 | -2.57E-03 | -4.88E+06 | -5.51E-01 | -4.98E+11 | -2.60E-03 |
| -4.97E+11 | -2.58E-03 | -4.87E+06 | -5.53E-01 | -4.98E+11 | -2.60E-03 |
| -4.96E+11 | -2.59E-03 | -4.86E+06 | -5.55E-01 | -4.97E+11 | -2.61E-03 |
| -4.95E+11 | -2.60E-03 | -4.85E+06 | -5.57E-01 | -4.96E+11 | -2.62E-03 |
| -4.94E+11 | -2.61E-03 | -4.84E+06 | -5.60E-01 | -4.95E+11 | -2.63E-03 |
| -4.93E+11 | -2.62E-03 | -4.84E+06 | -5.62E-01 | -4.95E+11 | -2.64E-03 |
| -4.93E+11 | -2.63E-03 | -4.83E+06 | -5.64E-01 | -4.94E+11 | -2.65E-03 |
| -4.92E+11 | -2.64E-03 | -4.82E+06 | -5.66E-01 | -4.93E+11 | -2.66E-03 |
| -4.91E+11 | -2.65E-03 | -4.81E+06 | -5.68E-01 | -4.92E+11 | -2.67E-03 |
| -4.90E+11 | -2.66E-03 | -4.80E+06 | -5.70E-01 | -4.91E+11 | -2.68E-03 |
| -4.89E+11 | -2.67E-03 | -4.80E+06 | -5.72E-01 | -4.90E+11 | -2.69E-03 |

kandas

9.80E-06 1.00E-06
Momen Curvature
 7.14E+06 5.80E-01

70% kandas

4670 9.80E-06 1.00E-06
Momen Rotasi Momen Curvature
 6.38E+11 2.70E-03 6.26E+06 5.78E-01



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.29E+06 | 5.34E-01 | 6.53E+11 | 2.48E-03 | 6.40E+06 | 5.31E-01 |
| 7.30E+06 | 5.31E-01 | 6.54E+11 | 2.47E-03 | 6.41E+06 | 5.28E-01 |
| 7.30E+06 | 5.29E-01 | 6.54E+11 | 2.46E-03 | 6.41E+06 | 5.26E-01 |
| 7.31E+06 | 5.27E-01 | 6.55E+11 | 2.45E-03 | 6.42E+06 | 5.24E-01 |
| 7.32E+06 | 5.25E-01 | 6.56E+11 | 2.44E-03 | 6.43E+06 | 5.22E-01 |
| 7.32E+06 | 5.23E-01 | 6.57E+11 | 2.43E-03 | 6.44E+06 | 5.20E-01 |
| 7.33E+06 | 5.21E-01 | 6.58E+11 | 2.42E-03 | 6.44E+06 | 5.18E-01 |
| 7.33E+06 | 5.20E-01 | 6.58E+11 | 2.41E-03 | 6.45E+06 | 5.16E-01 |
| 7.34E+06 | 5.18E-01 | 6.59E+11 | 2.40E-03 | 6.46E+06 | 5.13E-01 |
| 7.35E+06 | 5.15E-01 | 6.60E+11 | 2.39E-03 | 6.46E+06 | 5.12E-01 |
| 7.36E+06 | 5.13E-01 | 6.60E+11 | 2.38E-03 | 6.47E+06 | 5.09E-01 |
| 7.36E+06 | 5.11E-01 | 6.61E+11 | 2.37E-03 | 6.48E+06 | 5.07E-01 |
| 7.37E+06 | 5.09E-01 | 6.62E+11 | 2.36E-03 | 6.48E+06 | 5.05E-01 |
| 7.38E+06 | 5.07E-01 | 6.62E+11 | 2.35E-03 | 6.49E+06 | 5.03E-01 |
| 7.39E+06 | 5.05E-01 | 6.63E+11 | 2.34E-03 | 6.50E+06 | 5.01E-01 |
| 7.39E+06 | 5.03E-01 | 6.64E+11 | 2.33E-03 | 6.51E+06 | 4.99E-01 |
| 7.40E+06 | 5.00E-01 | 6.65E+11 | 2.32E-03 | 6.51E+06 | 4.97E-01 |
| 7.41E+06 | 4.98E-01 | 6.65E+11 | 2.31E-03 | 6.52E+06 | 4.94E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.42E+06 | 4.96E-01 | 6.66E+11 | 2.30E-03 | 6.53E+06 | 4.92E-01 |
| 7.42E+06 | 4.94E-01 | 6.67E+11 | 2.29E-03 | 6.53E+06 | 4.90E-01 |
| 7.43E+06 | 4.92E-01 | 6.67E+11 | 2.29E-03 | 6.54E+06 | 4.89E-01 |
| 7.44E+06 | 4.90E-01 | 6.68E+11 | 2.28E-03 | 6.54E+06 | 4.87E-01 |
| 7.45E+06 | 4.88E-01 | 6.68E+11 | 2.27E-03 | 6.55E+06 | 4.85E-01 |
| 7.46E+06 | 4.86E-01 | 6.69E+11 | 2.26E-03 | 6.56E+06 | 4.83E-01 |
| 7.46E+06 | 4.84E-01 | 6.70E+11 | 2.25E-03 | 6.56E+06 | 4.81E-01 |
| 7.47E+06 | 4.81E-01 | 6.71E+11 | 2.24E-03 | 6.57E+06 | 4.79E-01 |
| 7.48E+06 | 4.79E-01 | 6.71E+11 | 2.23E-03 | 6.58E+06 | 4.76E-01 |
| 7.49E+06 | 4.77E-01 | 6.72E+11 | 2.22E-03 | 6.59E+06 | 4.74E-01 |
| 7.49E+06 | 4.75E-01 | 6.73E+11 | 2.21E-03 | 6.59E+06 | 4.72E-01 |
| 7.50E+06 | 4.73E-01 | 6.74E+11 | 2.20E-03 | 6.60E+06 | 4.70E-01 |
| 7.51E+06 | 4.71E-01 | 6.74E+11 | 2.19E-03 | 6.61E+06 | 4.68E-01 |
| 7.51E+06 | 4.69E-01 | 6.75E+11 | 2.18E-03 | 6.62E+06 | 4.66E-01 |
| 7.52E+06 | 4.66E-01 | 6.76E+11 | 2.17E-03 | 6.62E+06 | 4.64E-01 |
| 7.53E+06 | 4.64E-01 | 6.77E+11 | 2.16E-03 | 6.63E+06 | 4.61E-01 |
| 7.54E+06 | 4.62E-01 | 6.77E+11 | 2.15E-03 | 6.64E+06 | 4.59E-01 |
| 7.54E+06 | 4.60E-01 | 6.78E+11 | 2.14E-03 | 6.65E+06 | 4.57E-01 |
| 7.55E+06 | 4.58E-01 | 6.79E+11 | 2.13E-03 | 6.65E+06 | 4.55E-01 |
| 7.56E+06 | 4.56E-01 | 6.80E+11 | 2.12E-03 | 6.66E+06 | 4.53E-01 |
| 7.56E+06 | 4.55E-01 | 6.81E+11 | 2.11E-03 | 6.67E+06 | 4.51E-01 |
| 7.57E+06 | 4.53E-01 | 6.81E+11 | 2.10E-03 | 6.68E+06 | 4.49E-01 |
| 7.58E+06 | 4.51E-01 | 6.82E+11 | 2.09E-03 | 6.68E+06 | 4.47E-01 |
| 7.59E+06 | 4.49E-01 | 6.83E+11 | 2.08E-03 | 6.69E+06 | 4.45E-01 |
| 7.59E+06 | 4.47E-01 | 6.84E+11 | 2.07E-03 | 6.70E+06 | 4.43E-01 |
| 7.60E+06 | 4.45E-01 | 6.84E+11 | 2.06E-03 | 6.71E+06 | 4.40E-01 |
| 7.61E+06 | 4.43E-01 | 6.85E+11 | 2.05E-03 | 6.71E+06 | 4.38E-01 |
| 7.62E+06 | 4.40E-01 | 6.86E+11 | 2.04E-03 | 6.72E+06 | 4.36E-01 |
| 7.63E+06 | 4.38E-01 | 6.87E+11 | 2.03E-03 | 6.73E+06 | 4.34E-01 |
| 7.64E+06 | 4.36E-01 | 6.87E+11 | 2.02E-03 | 6.74E+06 | 4.32E-01 |
| 7.64E+06 | 4.34E-01 | 6.88E+11 | 2.01E-03 | 6.74E+06 | 4.30E-01 |
| 7.65E+06 | 4.32E-01 | 6.89E+11 | 2.00E-03 | 6.75E+06 | 4.28E-01 |
| 7.66E+06 | 4.30E-01 | 6.90E+11 | 1.99E-03 | 6.76E+06 | 4.25E-01 |
| 7.67E+06 | 4.28E-01 | 6.90E+11 | 1.98E-03 | 6.76E+06 | 4.23E-01 |
| 7.67E+06 | 4.26E-01 | 6.91E+11 | 1.97E-03 | 6.77E+06 | 4.21E-01 |
| 7.68E+06 | 4.24E-01 | 6.92E+11 | 1.96E-03 | 6.78E+06 | 4.19E-01 |
| 7.69E+06 | 4.22E-01 | 6.92E+11 | 1.95E-03 | 6.78E+06 | 4.18E-01 |
| 7.70E+06 | 4.20E-01 | 6.93E+11 | 1.94E-03 | 6.79E+06 | 4.16E-01 |
| 7.71E+06 | 4.18E-01 | 6.94E+11 | 1.93E-03 | 6.80E+06 | 4.14E-01 |
| 7.71E+06 | 4.15E-01 | 6.95E+11 | 1.92E-03 | 6.81E+06 | 4.12E-01 |
| 7.72E+06 | 4.13E-01 | 6.96E+11 | 1.91E-03 | 6.82E+06 | 4.10E-01 |
| 7.73E+06 | 4.11E-01 | 6.97E+11 | 1.90E-03 | 6.83E+06 | 4.07E-01 |
| 7.74E+06 | 4.09E-01 | 6.97E+11 | 1.89E-03 | 6.83E+06 | 4.05E-01 |
| 7.75E+06 | 4.07E-01 | 6.98E+11 | 1.88E-03 | 6.84E+06 | 4.03E-01 |
| 7.76E+06 | 4.05E-01 | 6.99E+11 | 1.87E-03 | 6.85E+06 | 4.01E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.76E+06 | 4.03E-01 | 7.00E+11 | 1.86E-03 | 6.86E+06 | 3.99E-01 |
| 7.77E+06 | 4.00E-01 | 7.01E+11 | 1.85E-03 | 6.87E+06 | 3.97E-01 |
| 7.78E+06 | 3.98E-01 | 7.02E+11 | 1.84E-03 | 6.88E+06 | 3.95E-01 |
| 7.79E+06 | 3.96E-01 | 7.02E+11 | 1.83E-03 | 6.88E+06 | 3.93E-01 |
| 7.80E+06 | 3.94E-01 | 7.03E+11 | 1.82E-03 | 6.89E+06 | 3.90E-01 |
| 7.81E+06 | 3.92E-01 | 7.04E+11 | 1.81E-03 | 6.90E+06 | 3.88E-01 |
| 7.82E+06 | 3.90E-01 | 7.05E+11 | 1.80E-03 | 6.91E+06 | 3.86E-01 |
| 7.83E+06 | 3.88E-01 | 7.06E+11 | 1.79E-03 | 6.91E+06 | 3.84E-01 |
| 7.84E+06 | 3.85E-01 | 7.06E+11 | 1.78E-03 | 6.92E+06 | 3.82E-01 |
| 7.84E+06 | 3.85E-01 | 7.07E+11 | 1.77E-03 | 6.93E+06 | 3.80E-01 |
| 7.85E+06 | 3.83E-01 | 7.08E+11 | 1.76E-03 | 6.94E+06 | 3.78E-01 |
| 7.85E+06 | 3.81E-01 | 7.09E+11 | 1.75E-03 | 6.95E+06 | 3.75E-01 |
| 7.86E+06 | 3.79E-01 | 7.10E+11 | 1.74E-03 | 6.96E+06 | 3.73E-01 |
| 7.87E+06 | 3.76E-01 | 7.11E+11 | 1.73E-03 | 6.96E+06 | 3.71E-01 |
| 7.88E+06 | 3.74E-01 | 7.12E+11 | 1.72E-03 | 6.97E+06 | 3.69E-01 |
| 7.89E+06 | 3.72E-01 | 7.12E+11 | 1.72E-03 | 6.98E+06 | 3.69E-01 |
| 7.90E+06 | 3.70E-01 | 7.13E+11 | 1.71E-03 | 6.98E+06 | 3.66E-01 |
| 7.91E+06 | 3.68E-01 | 7.14E+11 | 1.70E-03 | 6.99E+06 | 3.64E-01 |
| 7.92E+06 | 3.66E-01 | 7.15E+11 | 1.69E-03 | 7.00E+06 | 3.62E-01 |
| 7.93E+06 | 3.64E-01 | 7.16E+11 | 1.68E-03 | 7.01E+06 | 3.60E-01 |
| 7.93E+06 | 3.61E-01 | 7.17E+11 | 1.67E-03 | 7.02E+06 | 3.58E-01 |
| 7.94E+06 | 3.61E-01 | 7.17E+11 | 1.66E-03 | 7.03E+06 | 3.56E-01 |
| 7.94E+06 | 3.59E-01 | 7.18E+11 | 1.65E-03 | 7.04E+06 | 3.54E-01 |
| 7.95E+06 | 3.57E-01 | 7.19E+11 | 1.64E-03 | 7.04E+06 | 3.52E-01 |
| 7.96E+06 | 3.54E-01 | 7.20E+11 | 1.63E-03 | 7.05E+06 | 3.50E-01 |
| 7.97E+06 | 3.52E-01 | 7.20E+11 | 1.62E-03 | 7.06E+06 | 3.48E-01 |
| 7.98E+06 | 3.50E-01 | 7.21E+11 | 1.61E-03 | 7.07E+06 | 3.46E-01 |
| 7.99E+06 | 3.48E-01 | 7.22E+11 | 1.60E-03 | 7.08E+06 | 3.43E-01 |
| 8.00E+06 | 3.46E-01 | 7.23E+11 | 1.59E-03 | 7.09E+06 | 3.41E-01 |
| 8.01E+06 | 3.44E-01 | 7.24E+11 | 1.58E-03 | 7.09E+06 | 3.39E-01 |
| 8.02E+06 | 3.42E-01 | 7.25E+11 | 1.57E-03 | 7.10E+06 | 3.37E-01 |
| 8.03E+06 | 3.40E-01 | 7.26E+11 | 1.56E-03 | 7.11E+06 | 3.35E-01 |
| 8.04E+06 | 3.38E-01 | 7.27E+11 | 1.55E-03 | 7.12E+06 | 3.33E-01 |
| 8.04E+06 | 3.36E-01 | 7.28E+11 | 1.54E-03 | 7.13E+06 | 3.31E-01 |
| 8.05E+06 | 3.33E-01 | 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 8.06E+06 | 3.31E-01 | 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 8.07E+06 | 3.29E-01 | 7.30E+11 | 1.52E-03 | 7.15E+06 | 3.26E-01 |
| 8.08E+06 | 3.27E-01 | 7.31E+11 | 1.51E-03 | 7.16E+06 | 3.24E-01 |
| 8.09E+06 | 3.25E-01 | 7.32E+11 | 1.50E-03 | 7.17E+06 | 3.22E-01 |
| 8.10E+06 | 3.23E-01 | 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.20E-01 |
| 8.11E+06 | 3.21E-01 | 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.19E-01 |
| 8.12E+06 | 3.19E-01 | 7.34E+11 | 1.48E-03 | 7.19E+06 | 3.17E-01 |
| 8.13E+06 | 3.16E-01 | 7.35E+11 | 1.47E-03 | 7.20E+06 | 3.15E-01 |
| 8.14E+06 | 3.14E-01 | 7.36E+11 | 1.46E-03 | 7.21E+06 | 3.13E-01 |
| 8.15E+06 | 3.12E-01 | 7.37E+11 | 1.45E-03 | 7.22E+06 | 3.11E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.16E+06 | 3.10E-01 | 7.37E+11 | 1.44E-03 | 7.23E+06 | 3.09E-01 |
| 8.16E+06 | 3.09E-01 | 7.38E+11 | 1.43E-03 | 7.24E+06 | 3.06E-01 |
| 8.17E+06 | 3.07E-01 | 7.39E+11 | 1.42E-03 | 7.25E+06 | 3.04E-01 |
| 8.18E+06 | 3.05E-01 | 7.41E+11 | 1.41E-03 | 7.26E+06 | 3.02E-01 |
| 8.19E+06 | 3.03E-01 | 7.42E+11 | 1.40E-03 | 7.27E+06 | 3.00E-01 |
| 8.20E+06 | 3.01E-01 | 7.43E+11 | 1.39E-03 | 7.28E+06 | 2.98E-01 |
| 8.21E+06 | 2.99E-01 | 7.43E+11 | 1.38E-03 | 7.28E+06 | 2.96E-01 |
| 8.22E+06 | 2.97E-01 | 7.44E+11 | 1.37E-03 | 7.30E+06 | 2.94E-01 |
| 8.23E+06 | 2.94E-01 | 7.45E+11 | 1.36E-03 | 7.30E+06 | 2.92E-01 |
| 8.24E+06 | 2.92E-01 | 7.46E+11 | 1.35E-03 | 7.31E+06 | 2.90E-01 |
| 8.26E+06 | 2.90E-01 | 7.47E+11 | 1.35E-03 | 7.32E+06 | 2.88E-01 |
| 8.26E+06 | 2.90E-01 | 7.48E+11 | 1.34E-03 | 7.33E+06 | 2.86E-01 |
| 8.27E+06 | 2.88E-01 | 7.49E+11 | 1.33E-03 | 7.34E+06 | 2.85E-01 |
| 8.28E+06 | 2.85E-01 | 7.49E+11 | 1.32E-03 | 7.34E+06 | 2.82E-01 |
| 8.29E+06 | 2.83E-01 | 7.50E+11 | 1.31E-03 | 7.35E+06 | 2.80E-01 |
| 8.30E+06 | 2.81E-01 | 7.51E+11 | 1.30E-03 | 7.36E+06 | 2.78E-01 |
| 8.31E+06 | 2.80E-01 | 7.52E+11 | 1.29E-03 | 7.37E+06 | 2.76E-01 |
| 8.32E+06 | 2.78E-01 | 7.54E+11 | 1.28E-03 | 7.38E+06 | 2.74E-01 |
| 8.33E+06 | 2.76E-01 | 7.55E+11 | 1.27E-03 | 7.39E+06 | 2.72E-01 |
| 8.34E+06 | 2.73E-01 | 7.56E+11 | 1.26E-03 | 7.40E+06 | 2.70E-01 |
| 8.35E+06 | 2.71E-01 | 7.56E+11 | 1.26E-03 | 7.41E+06 | 2.69E-01 |
| 8.36E+06 | 2.69E-01 | 7.57E+11 | 1.25E-03 | 7.42E+06 | 2.67E-01 |
| 8.37E+06 | 2.67E-01 | 7.58E+11 | 1.24E-03 | 7.43E+06 | 2.65E-01 |
| 8.38E+06 | 2.65E-01 | 7.59E+11 | 1.23E-03 | 7.44E+06 | 2.63E-01 |
| 8.39E+06 | 2.63E-01 | 7.60E+11 | 1.22E-03 | 7.44E+06 | 2.61E-01 |
| 8.41E+06 | 2.61E-01 | 7.61E+11 | 1.21E-03 | 7.45E+06 | 2.59E-01 |
| 8.42E+06 | 2.59E-01 | 7.61E+11 | 1.20E-03 | 7.46E+06 | 2.57E-01 |
| 8.43E+06 | 2.57E-01 | 7.62E+11 | 1.19E-03 | 7.47E+06 | 2.54E-01 |
| 8.43E+06 | 2.57E-01 | 7.64E+11 | 1.18E-03 | 7.48E+06 | 2.52E-01 |
| 8.44E+06 | 2.55E-01 | 7.65E+11 | 1.17E-03 | 7.49E+06 | 2.50E-01 |
| 8.45E+06 | 2.52E-01 | 7.66E+11 | 1.16E-03 | 7.50E+06 | 2.48E-01 |
| 8.46E+06 | 2.50E-01 | 7.67E+11 | 1.15E-03 | 7.52E+06 | 2.46E-01 |
| 8.48E+06 | 2.48E-01 | 7.68E+11 | 1.14E-03 | 7.53E+06 | 2.44E-01 |
| 8.49E+06 | 2.46E-01 | 7.69E+11 | 1.13E-03 | 7.54E+06 | 2.42E-01 |
| 8.50E+06 | 2.44E-01 | 7.70E+11 | 1.12E-03 | 7.54E+06 | 2.40E-01 |
| 8.51E+06 | 2.42E-01 | 7.71E+11 | 1.11E-03 | 7.55E+06 | 2.38E-01 |
| 8.52E+06 | 2.40E-01 | 7.72E+11 | 1.10E-03 | 7.56E+06 | 2.36E-01 |
| 8.54E+06 | 2.38E-01 | 7.73E+11 | 1.09E-03 | 7.57E+06 | 2.34E-01 |
| 8.55E+06 | 2.36E-01 | 7.74E+11 | 1.08E-03 | 7.58E+06 | 2.32E-01 |
| 8.56E+06 | 2.34E-01 | 7.75E+11 | 1.07E-03 | 7.59E+06 | 2.30E-01 |
| 8.57E+06 | 2.32E-01 | 7.76E+11 | 1.06E-03 | 7.61E+06 | 2.28E-01 |
| 8.58E+06 | 2.30E-01 | 7.77E+11 | 1.05E-03 | 7.62E+06 | 2.26E-01 |
| 8.60E+06 | 2.28E-01 | 7.78E+11 | 1.04E-03 | 7.63E+06 | 2.24E-01 |
| 8.61E+06 | 2.26E-01 | 7.79E+11 | 1.04E-03 | 7.63E+06 | 2.23E-01 |
| 8.62E+06 | 2.24E-01 | 7.80E+11 | 1.03E-03 | 7.64E+06 | 2.21E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.64E+06 | 2.22E-01 | 7.81E+11 | 1.02E-03 | 7.65E+06 | 2.19E-01 |
| 8.65E+06 | 2.19E-01 | 7.82E+11 | 1.01E-03 | 7.66E+06 | 2.16E-01 |
| 8.66E+06 | 2.17E-01 | 7.83E+11 | 1.00E-03 | 7.67E+06 | 2.14E-01 |
| 8.67E+06 | 2.17E-01 | 7.83E+11 | 1.00E-03 | 7.68E+06 | 2.14E-01 |
| 8.68E+06 | 2.15E-01 | 7.84E+11 | 9.90E-04 | 7.69E+06 | 2.12E-01 |
| 8.70E+06 | 2.12E-01 | 7.85E+11 | 9.80E-04 | 7.70E+06 | 2.10E-01 |
| 8.71E+06 | 2.10E-01 | 7.86E+11 | 9.70E-04 | 7.71E+06 | 2.08E-01 |
| 8.73E+06 | 2.08E-01 | 7.87E+11 | 9.60E-04 | 7.71E+06 | 2.06E-01 |
| 8.74E+06 | 2.06E-01 | 7.88E+11 | 9.50E-04 | 7.72E+06 | 2.04E-01 |
| 8.76E+06 | 2.04E-01 | 7.89E+11 | 9.40E-04 | 7.74E+06 | 2.01E-01 |
| 8.78E+06 | 2.02E-01 | 7.91E+11 | 9.30E-04 | 7.75E+06 | 1.99E-01 |
| 8.78E+06 | 2.01E-01 | 7.91E+11 | 9.26E-04 | 7.75E+06 | 1.98E-01 |
| 8.79E+06 | 1.99E-01 | 7.92E+11 | 9.16E-04 | 7.76E+06 | 1.96E-01 |
| 8.80E+06 | 1.97E-01 | 7.93E+11 | 9.06E-04 | 7.77E+06 | 1.94E-01 |
| 8.82E+06 | 1.95E-01 | 7.94E+11 | 8.99E-04 | 7.78E+06 | 1.93E-01 |
| 8.84E+06 | 1.93E-01 | 7.95E+11 | 8.89E-04 | 7.79E+06 | 1.90E-01 |
| 8.84E+06 | 1.92E-01 | 7.96E+11 | 8.79E-04 | 7.80E+06 | 1.88E-01 |
| 8.86E+06 | 1.90E-01 | 7.97E+11 | 8.69E-04 | 7.81E+06 | 1.86E-01 |
| 8.88E+06 | 1.87E-01 | 7.97E+11 | 8.68E-04 | 7.81E+06 | 1.86E-01 |
| 8.88E+06 | 1.87E-01 | 7.98E+11 | 8.58E-04 | 7.82E+06 | 1.84E-01 |
| 8.90E+06 | 1.84E-01 | 7.99E+11 | 8.48E-04 | 7.83E+06 | 1.81E-01 |
| 8.91E+06 | 1.82E-01 | 8.00E+11 | 8.45E-04 | 7.84E+06 | 1.81E-01 |
| 8.92E+06 | 1.81E-01 | 8.00E+11 | 8.35E-04 | 7.84E+06 | 1.79E-01 |
| 8.93E+06 | 1.79E-01 | 8.01E+11 | 8.25E-04 | 7.85E+06 | 1.77E-01 |
| 8.95E+06 | 1.77E-01 | 8.02E+11 | 8.15E-04 | 7.86E+06 | 1.75E-01 |
| 8.97E+06 | 1.75E-01 | 8.03E+11 | 8.09E-04 | 7.87E+06 | 1.73E-01 |
| 8.97E+06 | 1.75E-01 | 8.04E+11 | 7.99E-04 | 7.88E+06 | 1.71E-01 |
| 8.98E+06 | 1.73E-01 | 8.04E+11 | 7.96E-04 | 7.88E+06 | 1.70E-01 |
| 9.01E+06 | 1.70E-01 | 8.05E+11 | 7.86E-04 | 7.88E+06 | 1.68E-01 |
| 9.01E+06 | 1.70E-01 | 8.06E+11 | 7.76E-04 | 7.89E+06 | 1.66E-01 |
| 9.03E+06 | 1.68E-01 | 8.06E+11 | 7.74E-04 | 7.89E+06 | 1.66E-01 |
| 9.05E+06 | 1.67E-01 | 8.06E+11 | 7.64E-04 | 7.90E+06 | 1.64E-01 |
| 9.07E+06 | 1.65E-01 | 8.07E+11 | 7.54E-04 | 7.90E+06 | 1.61E-01 |
| 9.10E+06 | 1.63E-01 | 8.07E+11 | 7.45E-04 | 7.91E+06 | 1.60E-01 |
| 9.14E+06 | 1.61E-01 | 8.09E+11 | 7.35E-04 | 7.93E+06 | 1.57E-01 |
| 9.18E+06 | 1.60E-01 | 8.10E+11 | 7.25E-04 | 7.94E+06 | 1.55E-01 |
| 9.21E+06 | 1.59E-01 | 8.10E+11 | 7.24E-04 | 7.94E+06 | 1.55E-01 |
| 9.32E+06 | 1.57E-01 | 8.12E+11 | 7.14E-04 | 7.96E+06 | 1.53E-01 |
| 9.37E+06 | 1.55E-01 | 8.14E+11 | 7.07E-04 | 7.98E+06 | 1.51E-01 |
| 9.39E+06 | 1.54E-01 | 8.18E+11 | 6.97E-04 | 8.02E+06 | 1.49E-01 |
| 9.40E+06 | 1.54E-01 | 8.20E+11 | 6.93E-04 | 8.03E+06 | 1.48E-01 |
| 9.38E+06 | 1.52E-01 | 8.23E+11 | 6.88E-04 | 8.06E+06 | 1.47E-01 |
| 9.36E+06 | 1.50E-01 | 8.28E+11 | 6.79E-04 | 8.12E+06 | 1.45E-01 |
| 9.32E+06 | 1.48E-01 | 8.29E+11 | 6.78E-04 | 8.12E+06 | 1.45E-01 |
| 9.32E+06 | 1.47E-01 | 8.30E+11 | 6.68E-04 | 8.13E+06 | 1.43E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.28E+06 | 1.45E-01 | 8.30E+11 | 6.66E-04 | 8.13E+06 | 1.43E-01 |
| 9.24E+06 | 1.43E-01 | 8.26E+11 | 6.56E-04 | 8.10E+06 | 1.41E-01 |
| 9.21E+06 | 1.42E-01 | 8.26E+11 | 6.55E-04 | 8.09E+06 | 1.40E-01 |
| 9.17E+06 | 1.41E-01 | 8.20E+11 | 6.45E-04 | 8.04E+06 | 1.38E-01 |
| 9.12E+06 | 1.39E-01 | 8.15E+11 | 6.36E-04 | 7.98E+06 | 1.36E-01 |
| 9.02E+06 | 1.38E-01 | 8.10E+11 | 6.28E-04 | 7.94E+06 | 1.34E-01 |
| 8.98E+06 | 1.37E-01 | 8.07E+11 | 6.22E-04 | 7.90E+06 | 1.33E-01 |
| 8.84E+06 | 1.35E-01 | 8.02E+11 | 6.16E-04 | 7.86E+06 | 1.32E-01 |
| 8.70E+06 | 1.33E-01 | 8.01E+11 | 6.15E-04 | 7.84E+06 | 1.32E-01 |
| 8.56E+06 | 1.31E-01 | 7.88E+11 | 6.05E-04 | 7.72E+06 | 1.29E-01 |
| 8.42E+06 | 1.28E-01 | 7.82E+11 | 6.00E-04 | 7.66E+06 | 1.28E-01 |
| 8.28E+06 | 1.26E-01 | 7.69E+11 | 5.90E-04 | 7.54E+06 | 1.26E-01 |
| 8.14E+06 | 1.24E-01 | 7.56E+11 | 5.80E-04 | 7.41E+06 | 1.24E-01 |
| 8.00E+06 | 1.22E-01 | 7.43E+11 | 5.70E-04 | 7.28E+06 | 1.22E-01 |
| 7.86E+06 | 1.20E-01 | 7.30E+11 | 5.60E-04 | 7.16E+06 | 1.20E-01 |
| 7.72E+06 | 1.18E-01 | 7.17E+11 | 5.50E-04 | 7.03E+06 | 1.18E-01 |
| 7.58E+06 | 1.16E-01 | 7.04E+11 | 5.40E-04 | 6.90E+06 | 1.16E-01 |
| 7.44E+06 | 1.13E-01 | 6.91E+11 | 5.30E-04 | 6.77E+06 | 1.13E-01 |
| 7.30E+06 | 1.11E-01 | 6.78E+11 | 5.20E-04 | 6.65E+06 | 1.11E-01 |
| 7.16E+06 | 1.09E-01 | 6.65E+11 | 5.10E-04 | 6.52E+06 | 1.09E-01 |
| 7.02E+06 | 1.07E-01 | 6.52E+11 | 5.00E-04 | 6.39E+06 | 1.07E-01 |
| 6.88E+06 | 1.05E-01 | 6.39E+11 | 4.90E-04 | 6.26E+06 | 1.05E-01 |
| 6.74E+06 | 1.03E-01 | 6.26E+11 | 4.80E-04 | 6.13E+06 | 1.03E-01 |
| 6.60E+06 | 1.01E-01 | 6.13E+11 | 4.70E-04 | 6.01E+06 | 1.01E-01 |
| 6.46E+06 | 9.85E-02 | 6.00E+11 | 4.60E-04 | 5.88E+06 | 9.85E-02 |
| 6.32E+06 | 9.64E-02 | 5.87E+11 | 4.50E-04 | 5.75E+06 | 9.64E-02 |
| 6.18E+06 | 9.42E-02 | 5.74E+11 | 4.40E-04 | 5.62E+06 | 9.42E-02 |
| 6.04E+06 | 9.21E-02 | 5.61E+11 | 4.30E-04 | 5.50E+06 | 9.21E-02 |
| 5.89E+06 | 8.99E-02 | 5.48E+11 | 4.20E-04 | 5.37E+06 | 8.99E-02 |
| 5.75E+06 | 8.78E-02 | 5.35E+11 | 4.10E-04 | 5.24E+06 | 8.78E-02 |
| 5.61E+06 | 8.57E-02 | 5.22E+11 | 4.00E-04 | 5.11E+06 | 8.57E-02 |
| 5.47E+06 | 8.35E-02 | 5.09E+11 | 3.90E-04 | 4.98E+06 | 8.35E-02 |
| 5.33E+06 | 8.14E-02 | 4.96E+11 | 3.80E-04 | 4.86E+06 | 8.14E-02 |
| 5.19E+06 | 7.92E-02 | 4.83E+11 | 3.70E-04 | 4.73E+06 | 7.92E-02 |
| 5.05E+06 | 7.71E-02 | 4.70E+11 | 3.60E-04 | 4.60E+06 | 7.71E-02 |
| 4.91E+06 | 7.49E-02 | 4.56E+11 | 3.50E-04 | 4.47E+06 | 7.49E-02 |
| 4.77E+06 | 7.28E-02 | 4.43E+11 | 3.40E-04 | 4.35E+06 | 7.28E-02 |
| 4.63E+06 | 7.07E-02 | 4.30E+11 | 3.30E-04 | 4.22E+06 | 7.07E-02 |
| 4.49E+06 | 6.85E-02 | 4.17E+11 | 3.20E-04 | 4.09E+06 | 6.85E-02 |
| 4.35E+06 | 6.64E-02 | 4.04E+11 | 3.10E-04 | 3.96E+06 | 6.64E-02 |
| 4.21E+06 | 6.42E-02 | 3.91E+11 | 3.00E-04 | 3.83E+06 | 6.42E-02 |
| 4.07E+06 | 6.21E-02 | 3.78E+11 | 2.90E-04 | 3.71E+06 | 6.21E-02 |
| 3.93E+06 | 6.00E-02 | 3.65E+11 | 2.80E-04 | 3.58E+06 | 6.00E-02 |
| 3.79E+06 | 5.78E-02 | 3.52E+11 | 2.70E-04 | 3.45E+06 | 5.78E-02 |
| 3.65E+06 | 5.57E-02 | 3.39E+11 | 2.60E-04 | 3.32E+06 | 5.57E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.51E+06 | 5.35E-02 | 3.26E+11 | 2.50E-04 | 3.19E+06 | 5.35E-02 |
| 3.37E+06 | 5.14E-02 | 3.13E+11 | 2.40E-04 | 3.07E+06 | 5.14E-02 |
| 3.23E+06 | 4.93E-02 | 3.00E+11 | 2.30E-04 | 2.94E+06 | 4.93E-02 |
| 3.09E+06 | 4.71E-02 | 2.87E+11 | 2.20E-04 | 2.81E+06 | 4.71E-02 |
| 2.95E+06 | 4.50E-02 | 2.74E+11 | 2.10E-04 | 2.68E+06 | 4.50E-02 |
| 2.81E+06 | 4.28E-02 | 2.61E+11 | 2.00E-04 | 2.56E+06 | 4.28E-02 |
| 2.67E+06 | 4.07E-02 | 2.48E+11 | 1.90E-04 | 2.43E+06 | 4.07E-02 |
| 2.53E+06 | 3.85E-02 | 2.35E+11 | 1.80E-04 | 2.30E+06 | 3.85E-02 |
| 2.39E+06 | 3.64E-02 | 2.22E+11 | 1.70E-04 | 2.17E+06 | 3.64E-02 |
| 2.25E+06 | 3.43E-02 | 2.09E+11 | 1.60E-04 | 2.05E+06 | 3.43E-02 |
| 2.11E+06 | 3.21E-02 | 1.96E+11 | 1.50E-04 | 1.92E+06 | 3.21E-02 |
| 1.96E+06 | 3.00E-02 | 1.83E+11 | 1.40E-04 | 1.79E+06 | 3.00E-02 |
| 1.82E+06 | 2.78E-02 | 1.70E+11 | 1.30E-04 | 1.66E+06 | 2.78E-02 |
| 1.68E+06 | 2.57E-02 | 1.57E+11 | 1.20E-04 | 1.53E+06 | 2.57E-02 |
| 1.54E+06 | 2.36E-02 | 1.44E+11 | 1.10E-04 | 1.41E+06 | 2.36E-02 |
| 1.40E+06 | 2.14E-02 | 1.30E+11 | 1.00E-04 | 1.28E+06 | 2.14E-02 |
| 1.26E+06 | 1.93E-02 | 1.17E+11 | 9.00E-05 | 1.15E+06 | 1.93E-02 |
| 1.12E+06 | 1.71E-02 | 1.04E+11 | 8.00E-05 | 1.02E+06 | 1.71E-02 |
| 9.83E+05 | 1.50E-02 | 9.13E+10 | 7.00E-05 | 8.95E+05 | 1.50E-02 |
| 8.42E+05 | 1.28E-02 | 7.83E+10 | 6.00E-05 | 7.67E+05 | 1.28E-02 |
| 7.02E+05 | 1.07E-02 | 6.52E+10 | 5.00E-05 | 6.39E+05 | 1.07E-02 |
| 5.61E+05 | 8.57E-03 | 5.22E+10 | 4.00E-05 | 5.11E+05 | 8.57E-03 |
| 4.21E+05 | 6.42E-03 | 3.91E+10 | 3.00E-05 | 3.83E+05 | 6.42E-03 |
| 2.81E+05 | 4.28E-03 | 2.61E+10 | 2.00E-05 | 2.56E+05 | 4.28E-03 |
| 1.40E+05 | 2.14E-03 | 1.30E+10 | 1.00E-05 | 1.28E+05 | 2.14E-03 |
| 1.26E+05 | 1.93E-03 | 1.17E+10 | 9.00E-06 | 1.15E+05 | 1.93E-03 |
| 1.12E+05 | 1.71E-03 | 1.04E+10 | 8.00E-06 | 1.02E+05 | 1.71E-03 |
| 9.83E+04 | 1.50E-03 | 9.13E+09 | 7.00E-06 | 8.95E+04 | 1.50E-03 |
| 8.42E+04 | 1.28E-03 | 7.83E+09 | 6.00E-06 | 7.67E+04 | 1.28E-03 |
| 7.02E+04 | 1.07E-03 | 6.52E+09 | 5.00E-06 | 6.39E+04 | 1.07E-03 |
| 5.62E+04 | 8.57E-04 | 5.22E+09 | 4.00E-06 | 5.11E+04 | 8.57E-04 |
| 4.21E+04 | 6.42E-04 | 3.91E+09 | 3.00E-06 | 3.83E+04 | 6.42E-04 |
| 2.81E+04 | 4.28E-04 | 2.61E+09 | 2.00E-06 | 2.56E+04 | 4.28E-04 |
| 1.40E+04 | 2.14E-04 | 1.31E+09 | 1.00E-06 | 1.28E+04 | 2.14E-04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.40E+04 | -2.14E-04 | -1.31E+09 | -1.00E-06 | -1.28E+04 | -2.14E-04 |
| -2.81E+04 | -4.28E-04 | -2.61E+09 | -2.00E-06 | -2.56E+04 | -4.28E-04 |
| -4.21E+04 | -6.42E-04 | -3.91E+09 | -3.00E-06 | -3.84E+04 | -6.42E-04 |
| -5.62E+04 | -8.57E-04 | -5.22E+09 | -4.00E-06 | -5.11E+04 | -8.57E-04 |
| -7.02E+04 | -1.07E-03 | -6.52E+09 | -5.00E-06 | -6.39E+04 | -1.07E-03 |
| -8.42E+04 | -1.28E-03 | -7.83E+09 | -6.00E-06 | -7.67E+04 | -1.28E-03 |
| -9.83E+04 | -1.50E-03 | -9.13E+09 | -7.00E-06 | -8.95E+04 | -1.50E-03 |
| -1.12E+05 | -1.71E-03 | -1.04E+10 | -8.00E-06 | -1.02E+05 | -1.71E-03 |
| -1.26E+05 | -1.93E-03 | -1.17E+10 | -9.00E-06 | -1.15E+05 | -1.93E-03 |
| -1.40E+05 | -2.14E-03 | -1.30E+10 | -1.00E-05 | -1.28E+05 | -2.14E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.81E+05 | -4.28E-03 | -2.61E+10 | -2.00E-05 | -2.56E+05 | -4.28E-03 |
| -4.21E+05 | -6.42E-03 | -3.91E+10 | -3.00E-05 | -3.83E+05 | -6.42E-03 |
| -5.61E+05 | -8.57E-03 | -5.22E+10 | -4.00E-05 | -5.11E+05 | -8.57E-03 |
| -7.02E+05 | -1.07E-02 | -6.52E+10 | -5.00E-05 | -6.39E+05 | -1.07E-02 |
| -8.42E+05 | -1.28E-02 | -7.83E+10 | -6.00E-05 | -7.67E+05 | -1.28E-02 |
| -9.83E+05 | -1.50E-02 | -9.13E+10 | -7.00E-05 | -8.95E+05 | -1.50E-02 |
| -1.12E+06 | -1.71E-02 | -1.04E+11 | -8.00E-05 | -1.02E+06 | -1.71E-02 |
| -1.26E+06 | -1.93E-02 | -1.17E+11 | -9.00E-05 | -1.15E+06 | -1.93E-02 |
| -1.40E+06 | -2.14E-02 | -1.30E+11 | -1.00E-04 | -1.28E+06 | -2.14E-02 |
| -1.54E+06 | -2.36E-02 | -1.44E+11 | -1.10E-04 | -1.41E+06 | -2.36E-02 |
| -1.68E+06 | -2.57E-02 | -1.57E+11 | -1.20E-04 | -1.53E+06 | -2.57E-02 |
| -1.82E+06 | -2.78E-02 | -1.70E+11 | -1.30E-04 | -1.66E+06 | -2.78E-02 |
| -1.96E+06 | -3.00E-02 | -1.83E+11 | -1.40E-04 | -1.79E+06 | -3.00E-02 |
| -2.11E+06 | -3.21E-02 | -1.96E+11 | -1.50E-04 | -1.92E+06 | -3.21E-02 |
| -2.25E+06 | -3.43E-02 | -2.09E+11 | -1.60E-04 | -2.05E+06 | -3.43E-02 |
| -2.39E+06 | -3.64E-02 | -2.22E+11 | -1.70E-04 | -2.17E+06 | -3.64E-02 |
| -2.53E+06 | -3.85E-02 | -2.35E+11 | -1.80E-04 | -2.30E+06 | -3.85E-02 |
| -2.67E+06 | -4.07E-02 | -2.48E+11 | -1.90E-04 | -2.43E+06 | -4.07E-02 |
| -2.81E+06 | -4.28E-02 | -2.61E+11 | -2.00E-04 | -2.56E+06 | -4.28E-02 |
| -2.95E+06 | -4.50E-02 | -2.74E+11 | -2.10E-04 | -2.68E+06 | -4.50E-02 |
| -3.09E+06 | -4.71E-02 | -2.87E+11 | -2.20E-04 | -2.81E+06 | -4.71E-02 |
| -3.23E+06 | -4.93E-02 | -3.00E+11 | -2.30E-04 | -2.94E+06 | -4.93E-02 |
| -3.37E+06 | -5.14E-02 | -3.13E+11 | -2.40E-04 | -3.07E+06 | -5.14E-02 |
| -3.51E+06 | -5.35E-02 | -3.26E+11 | -2.50E-04 | -3.20E+06 | -5.35E-02 |
| -3.65E+06 | -5.57E-02 | -3.39E+11 | -2.60E-04 | -3.32E+06 | -5.57E-02 |
| -3.79E+06 | -5.78E-02 | -3.52E+11 | -2.70E-04 | -3.45E+06 | -5.78E-02 |
| -3.93E+06 | -6.00E-02 | -3.65E+11 | -2.80E-04 | -3.58E+06 | -6.00E-02 |
| -4.07E+06 | -6.21E-02 | -3.78E+11 | -2.90E-04 | -3.71E+06 | -6.21E-02 |
| -4.21E+06 | -6.42E-02 | -3.91E+11 | -3.00E-04 | -3.83E+06 | -6.42E-02 |
| -4.35E+06 | -6.64E-02 | -4.04E+11 | -3.10E-04 | -3.96E+06 | -6.64E-02 |
| -4.49E+06 | -6.85E-02 | -4.17E+11 | -3.20E-04 | -4.09E+06 | -6.85E-02 |
| -4.63E+06 | -7.07E-02 | -4.30E+11 | -3.30E-04 | -4.22E+06 | -7.07E-02 |
| -4.77E+06 | -7.28E-02 | -4.43E+11 | -3.40E-04 | -4.35E+06 | -7.28E-02 |
| -4.91E+06 | -7.49E-02 | -4.57E+11 | -3.50E-04 | -4.47E+06 | -7.49E-02 |
| -5.05E+06 | -7.71E-02 | -4.70E+11 | -3.60E-04 | -4.60E+06 | -7.71E-02 |
| -5.19E+06 | -7.92E-02 | -4.83E+11 | -3.70E-04 | -4.73E+06 | -7.92E-02 |
| -5.33E+06 | -8.14E-02 | -4.96E+11 | -3.80E-04 | -4.86E+06 | -8.14E-02 |
| -5.47E+06 | -8.35E-02 | -5.09E+11 | -3.90E-04 | -4.98E+06 | -8.35E-02 |
| -5.61E+06 | -8.57E-02 | -5.22E+11 | -4.00E-04 | -5.11E+06 | -8.57E-02 |
| -5.75E+06 | -8.78E-02 | -5.35E+11 | -4.10E-04 | -5.24E+06 | -8.78E-02 |
| -5.89E+06 | -8.99E-02 | -5.48E+11 | -4.20E-04 | -5.37E+06 | -8.99E-02 |
| -6.03E+06 | -9.21E-02 | -5.61E+11 | -4.30E-04 | -5.50E+06 | -9.21E-02 |
| -6.17E+06 | -9.42E-02 | -5.74E+11 | -4.40E-04 | -5.62E+06 | -9.42E-02 |
| -6.32E+06 | -9.64E-02 | -5.87E+11 | -4.50E-04 | -5.75E+06 | -9.64E-02 |
| -6.46E+06 | -9.85E-02 | -6.00E+11 | -4.60E-04 | -5.88E+06 | -9.85E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.60E+06 | -1.01E-01 | -6.13E+11 | -4.70E-04 | -6.01E+06 | -1.01E-01 |
| -6.74E+06 | -1.03E-01 | -6.26E+11 | -4.80E-04 | -6.13E+06 | -1.03E-01 |
| -6.88E+06 | -1.05E-01 | -6.39E+11 | -4.90E-04 | -6.26E+06 | -1.05E-01 |
| -7.02E+06 | -1.07E-01 | -6.52E+11 | -5.00E-04 | -6.39E+06 | -1.07E-01 |
| -7.16E+06 | -1.09E-01 | -6.65E+11 | -5.10E-04 | -6.52E+06 | -1.09E-01 |
| -7.30E+06 | -1.11E-01 | -6.78E+11 | -5.20E-04 | -6.65E+06 | -1.11E-01 |
| -7.44E+06 | -1.13E-01 | -6.91E+11 | -5.30E-04 | -6.77E+06 | -1.13E-01 |
| -7.58E+06 | -1.16E-01 | -7.04E+11 | -5.40E-04 | -6.90E+06 | -1.16E-01 |
| -7.72E+06 | -1.18E-01 | -7.17E+11 | -5.50E-04 | -7.03E+06 | -1.18E-01 |
| -7.86E+06 | -1.20E-01 | -7.30E+11 | -5.60E-04 | -7.16E+06 | -1.20E-01 |
| -8.00E+06 | -1.22E-01 | -7.43E+11 | -5.70E-04 | -7.28E+06 | -1.22E-01 |
| -8.14E+06 | -1.24E-01 | -7.56E+11 | -5.80E-04 | -7.41E+06 | -1.24E-01 |
| -8.28E+06 | -1.26E-01 | -7.69E+11 | -5.90E-04 | -7.54E+06 | -1.26E-01 |
| -8.39E+06 | -1.28E-01 | -7.82E+11 | -6.00E-04 | -7.67E+06 | -1.28E-01 |
| -8.53E+06 | -1.30E-01 | -7.95E+11 | -6.10E-04 | -7.79E+06 | -1.31E-01 |
| -8.64E+06 | -1.32E-01 | -8.04E+11 | -6.17E-04 | -7.88E+06 | -1.32E-01 |
| -8.72E+06 | -1.34E-01 | -8.15E+11 | -6.25E-04 | -7.99E+06 | -1.34E-01 |
| -8.77E+06 | -1.35E-01 | -8.19E+11 | -6.31E-04 | -8.03E+06 | -1.35E-01 |
| -8.82E+06 | -1.36E-01 | -8.25E+11 | -6.40E-04 | -8.08E+06 | -1.37E-01 |
| -8.87E+06 | -1.37E-01 | -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.90E+06 | -1.39E-01 | -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.92E+06 | -1.40E-01 | -8.37E+11 | -6.58E-04 | -8.21E+06 | -1.41E-01 |
| -8.93E+06 | -1.41E-01 | -8.41E+11 | -6.64E-04 | -8.24E+06 | -1.42E-01 |
| -8.95E+06 | -1.43E-01 | -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.96E+06 | -1.44E-01 | -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.97E+06 | -1.46E-01 | -8.51E+11 | -6.83E-04 | -8.34E+06 | -1.46E-01 |
| -8.97E+06 | -1.47E-01 | -8.56E+11 | -6.92E-04 | -8.38E+06 | -1.48E-01 |
| -8.97E+06 | -1.48E-01 | -8.59E+11 | -7.02E-04 | -8.42E+06 | -1.50E-01 |
| -8.98E+06 | -1.49E-01 | -8.63E+11 | -7.12E-04 | -8.45E+06 | -1.53E-01 |
| -8.97E+06 | -1.50E-01 | -8.63E+11 | -7.13E-04 | -8.46E+06 | -1.53E-01 |
| -8.97E+06 | -1.51E-01 | -8.65E+11 | -7.20E-04 | -8.48E+06 | -1.54E-01 |
| -8.96E+06 | -1.53E-01 | -8.66E+11 | -7.27E-04 | -8.49E+06 | -1.56E-01 |
| -8.92E+06 | -1.55E-01 | -8.67E+11 | -7.33E-04 | -8.49E+06 | -1.57E-01 |
| -8.87E+06 | -1.57E-01 | -8.67E+11 | -7.43E-04 | -8.49E+06 | -1.59E-01 |
| -8.78E+06 | -1.59E-01 | -8.67E+11 | -7.53E-04 | -8.49E+06 | -1.61E-01 |
| -8.76E+06 | -1.60E-01 | -8.67E+11 | -7.61E-04 | -8.49E+06 | -1.63E-01 |
| -8.62E+06 | -1.62E-01 | -8.67E+11 | -7.68E-04 | -8.49E+06 | -1.64E-01 |
| -8.59E+06 | -1.62E-01 | -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.44E+06 | -1.64E-01 | -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.35E+06 | -1.66E-01 | -8.66E+11 | -7.85E-04 | -8.48E+06 | -1.68E-01 |
| -8.25E+06 | -1.68E-01 | -8.65E+11 | -7.92E-04 | -8.48E+06 | -1.69E-01 |
| -8.20E+06 | -1.69E-01 | -8.64E+11 | -7.99E-04 | -8.47E+06 | -1.71E-01 |
| -8.12E+06 | -1.71E-01 | -8.62E+11 | -8.06E-04 | -8.45E+06 | -1.73E-01 |
| -8.06E+06 | -1.73E-01 | -8.60E+11 | -8.15E-04 | -8.42E+06 | -1.74E-01 |
| -8.06E+06 | -1.74E-01 | -8.56E+11 | -8.22E-04 | -8.38E+06 | -1.76E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.00E+06 | -1.76E-01 | -8.48E+11 | -8.32E-04 | -8.31E+06 | -1.78E-01 |
| -7.95E+06 | -1.78E-01 | -8.37E+11 | -8.42E-04 | -8.20E+06 | -1.80E-01 |
| -7.95E+06 | -1.78E-01 | -8.31E+11 | -8.47E-04 | -8.14E+06 | -1.81E-01 |
| -7.91E+06 | -1.80E-01 | -8.16E+11 | -8.57E-04 | -7.99E+06 | -1.84E-01 |
| -7.87E+06 | -1.82E-01 | -8.11E+11 | -8.61E-04 | -7.95E+06 | -1.84E-01 |
| -7.85E+06 | -1.83E-01 | -7.98E+11 | -8.71E-04 | -7.82E+06 | -1.86E-01 |
| -7.81E+06 | -1.85E-01 | -7.93E+11 | -8.77E-04 | -7.77E+06 | -1.88E-01 |
| -7.77E+06 | -1.87E-01 | -7.85E+11 | -8.87E-04 | -7.69E+06 | -1.90E-01 |
| -7.74E+06 | -1.89E-01 | -7.79E+11 | -8.97E-04 | -7.63E+06 | -1.92E-01 |
| -7.70E+06 | -1.91E-01 | -7.78E+11 | -8.98E-04 | -7.63E+06 | -1.92E-01 |
| -7.68E+06 | -1.93E-01 | -7.73E+11 | -9.08E-04 | -7.58E+06 | -1.94E-01 |
| -7.65E+06 | -1.95E-01 | -7.69E+11 | -9.18E-04 | -7.54E+06 | -1.97E-01 |
| -7.62E+06 | -1.97E-01 | -7.68E+11 | -9.22E-04 | -7.52E+06 | -1.97E-01 |
| -7.59E+06 | -1.99E-01 | -7.63E+11 | -9.32E-04 | -7.48E+06 | -1.99E-01 |
| -7.55E+06 | -2.01E-01 | -7.60E+11 | -9.42E-04 | -7.44E+06 | -2.02E-01 |
| -7.52E+06 | -2.03E-01 | -7.57E+11 | -9.50E-04 | -7.41E+06 | -2.03E-01 |
| -7.50E+06 | -2.05E-01 | -7.53E+11 | -9.60E-04 | -7.38E+06 | -2.06E-01 |
| -7.49E+06 | -2.06E-01 | -7.50E+11 | -9.70E-04 | -7.35E+06 | -2.08E-01 |
| -7.45E+06 | -2.08E-01 | -7.48E+11 | -9.77E-04 | -7.33E+06 | -2.09E-01 |
| -7.42E+06 | -2.10E-01 | -7.45E+11 | -9.87E-04 | -7.30E+06 | -2.11E-01 |
| -7.39E+06 | -2.12E-01 | -7.42E+11 | -9.95E-04 | -7.27E+06 | -2.13E-01 |
| -7.36E+06 | -2.15E-01 | -7.39E+11 | -1.01E-03 | -7.24E+06 | -2.15E-01 |
| -7.34E+06 | -2.17E-01 | -7.36E+11 | -1.02E-03 | -7.21E+06 | -2.17E-01 |
| -7.31E+06 | -2.19E-01 | -7.33E+11 | -1.03E-03 | -7.19E+06 | -2.19E-01 |
| -7.28E+06 | -2.21E-01 | -7.33E+11 | -1.03E-03 | -7.18E+06 | -2.20E-01 |
| -7.28E+06 | -2.21E-01 | -7.30E+11 | -1.04E-03 | -7.16E+06 | -2.22E-01 |
| -7.26E+06 | -2.23E-01 | -7.28E+11 | -1.05E-03 | -7.13E+06 | -2.24E-01 |
| -7.23E+06 | -2.25E-01 | -7.25E+11 | -1.06E-03 | -7.11E+06 | -2.26E-01 |
| -7.21E+06 | -2.27E-01 | -7.22E+11 | -1.07E-03 | -7.08E+06 | -2.28E-01 |
| -7.18E+06 | -2.29E-01 | -7.20E+11 | -1.08E-03 | -7.05E+06 | -2.30E-01 |
| -7.15E+06 | -2.31E-01 | -7.17E+11 | -1.09E-03 | -7.02E+06 | -2.33E-01 |
| -7.12E+06 | -2.33E-01 | -7.14E+11 | -1.10E-03 | -7.00E+06 | -2.35E-01 |
| -7.10E+06 | -2.36E-01 | -7.12E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.08E+06 | -2.38E-01 | -7.11E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.06E+06 | -2.39E-01 | -7.09E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.04E+06 | -2.41E-01 | -7.08E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.03E+06 | -2.42E-01 | -7.07E+11 | -1.13E-03 | -6.92E+06 | -2.41E-01 |
| -7.01E+06 | -2.44E-01 | -7.04E+11 | -1.14E-03 | -6.90E+06 | -2.43E-01 |
| -6.98E+06 | -2.46E-01 | -7.01E+11 | -1.15E-03 | -6.87E+06 | -2.46E-01 |
| -6.95E+06 | -2.48E-01 | -6.99E+11 | -1.16E-03 | -6.85E+06 | -2.48E-01 |
| -6.93E+06 | -2.50E-01 | -6.96E+11 | -1.17E-03 | -6.82E+06 | -2.50E-01 |
| -6.90E+06 | -2.52E-01 | -6.94E+11 | -1.18E-03 | -6.80E+06 | -2.52E-01 |
| -6.88E+06 | -2.54E-01 | -6.92E+11 | -1.19E-03 | -6.78E+06 | -2.54E-01 |
| -6.86E+06 | -2.57E-01 | -6.89E+11 | -1.20E-03 | -6.76E+06 | -2.56E-01 |
| -6.84E+06 | -2.58E-01 | -6.89E+11 | -1.20E-03 | -6.75E+06 | -2.57E-01 |

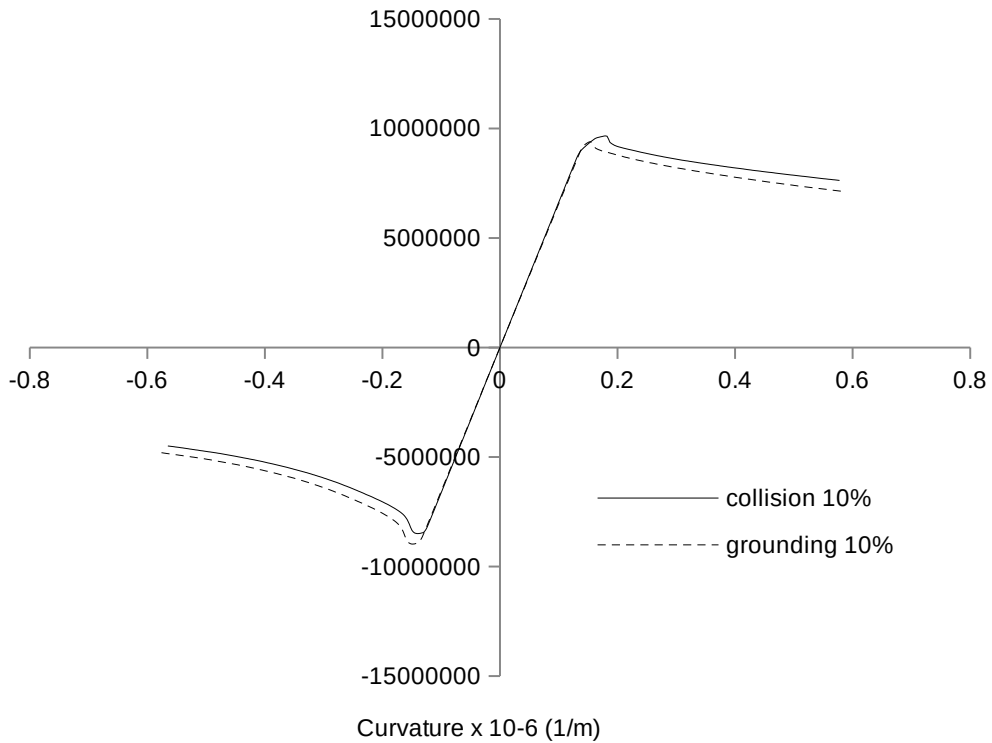
| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.82E+06 | -2.60E-01 | -6.87E+11 | -1.21E-03 | -6.73E+06 | -2.59E-01 |
| -6.79E+06 | -2.62E-01 | -6.85E+11 | -1.22E-03 | -6.72E+06 | -2.60E-01 |
| -6.77E+06 | -2.64E-01 | -6.84E+11 | -1.22E-03 | -6.70E+06 | -2.62E-01 |
| -6.74E+06 | -2.66E-01 | -6.81E+11 | -1.23E-03 | -6.67E+06 | -2.64E-01 |
| -6.72E+06 | -2.69E-01 | -6.79E+11 | -1.24E-03 | -6.65E+06 | -2.66E-01 |
| -6.70E+06 | -2.71E-01 | -6.76E+11 | -1.25E-03 | -6.63E+06 | -2.68E-01 |
| -6.67E+06 | -2.73E-01 | -6.74E+11 | -1.26E-03 | -6.61E+06 | -2.70E-01 |
| -6.65E+06 | -2.75E-01 | -6.72E+11 | -1.27E-03 | -6.58E+06 | -2.73E-01 |
| -6.63E+06 | -2.77E-01 | -6.70E+11 | -1.28E-03 | -6.56E+06 | -2.75E-01 |
| -6.61E+06 | -2.79E-01 | -6.68E+11 | -1.29E-03 | -6.54E+06 | -2.77E-01 |
| -6.60E+06 | -2.80E-01 | -6.66E+11 | -1.30E-03 | -6.52E+06 | -2.79E-01 |
| -6.58E+06 | -2.82E-01 | -6.64E+11 | -1.31E-03 | -6.50E+06 | -2.81E-01 |
| -6.56E+06 | -2.84E-01 | -6.63E+11 | -1.32E-03 | -6.50E+06 | -2.82E-01 |
| -6.54E+06 | -2.86E-01 | -6.61E+11 | -1.33E-03 | -6.48E+06 | -2.84E-01 |
| -6.51E+06 | -2.88E-01 | -6.59E+11 | -1.34E-03 | -6.46E+06 | -2.86E-01 |
| -6.49E+06 | -2.90E-01 | -6.57E+11 | -1.35E-03 | -6.43E+06 | -2.88E-01 |
| -6.47E+06 | -2.93E-01 | -6.54E+11 | -1.36E-03 | -6.41E+06 | -2.90E-01 |
| -6.45E+06 | -2.95E-01 | -6.52E+11 | -1.37E-03 | -6.39E+06 | -2.92E-01 |
| -6.43E+06 | -2.97E-01 | -6.50E+11 | -1.38E-03 | -6.37E+06 | -2.94E-01 |
| -6.41E+06 | -2.99E-01 | -6.48E+11 | -1.39E-03 | -6.35E+06 | -2.97E-01 |
| -6.39E+06 | -3.01E-01 | -6.46E+11 | -1.40E-03 | -6.33E+06 | -2.99E-01 |
| -6.37E+06 | -3.03E-01 | -6.44E+11 | -1.41E-03 | -6.31E+06 | -3.01E-01 |
| -6.36E+06 | -3.04E-01 | -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.03E-01 |
| -6.34E+06 | -3.06E-01 | -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.04E-01 |
| -6.32E+06 | -3.08E-01 | -6.40E+11 | -1.43E-03 | -6.27E+06 | -3.06E-01 |
| -6.30E+06 | -3.10E-01 | -6.39E+11 | -1.43E-03 | -6.26E+06 | -3.07E-01 |
| -6.28E+06 | -3.13E-01 | -6.37E+11 | -1.44E-03 | -6.24E+06 | -3.09E-01 |
| -6.26E+06 | -3.15E-01 | -6.35E+11 | -1.45E-03 | -6.22E+06 | -3.11E-01 |
| -6.24E+06 | -3.17E-01 | -6.33E+11 | -1.46E-03 | -6.21E+06 | -3.13E-01 |
| -6.24E+06 | -3.18E-01 | -6.31E+11 | -1.47E-03 | -6.19E+06 | -3.15E-01 |
| -6.22E+06 | -3.20E-01 | -6.31E+11 | -1.48E-03 | -6.18E+06 | -3.16E-01 |
| -6.20E+06 | -3.22E-01 | -6.29E+11 | -1.49E-03 | -6.16E+06 | -3.18E-01 |
| -6.18E+06 | -3.24E-01 | -6.27E+11 | -1.50E-03 | -6.14E+06 | -3.20E-01 |
| -6.17E+06 | -3.26E-01 | -6.25E+11 | -1.51E-03 | -6.12E+06 | -3.22E-01 |
| -6.15E+06 | -3.28E-01 | -6.23E+11 | -1.52E-03 | -6.11E+06 | -3.24E-01 |
| -6.13E+06 | -3.30E-01 | -6.21E+11 | -1.53E-03 | -6.09E+06 | -3.27E-01 |
| -6.11E+06 | -3.33E-01 | -6.20E+11 | -1.54E-03 | -6.07E+06 | -3.29E-01 |
| -6.10E+06 | -3.34E-01 | -6.18E+11 | -1.55E-03 | -6.05E+06 | -3.31E-01 |
| -6.08E+06 | -3.37E-01 | -6.16E+11 | -1.56E-03 | -6.04E+06 | -3.33E-01 |
| -6.06E+06 | -3.39E-01 | -6.15E+11 | -1.57E-03 | -6.02E+06 | -3.35E-01 |
| -6.04E+06 | -3.41E-01 | -6.14E+11 | -1.57E-03 | -6.02E+06 | -3.36E-01 |
| -6.03E+06 | -3.43E-01 | -6.12E+11 | -1.58E-03 | -6.00E+06 | -3.38E-01 |
| -6.01E+06 | -3.45E-01 | -6.10E+11 | -1.59E-03 | -5.98E+06 | -3.40E-01 |
| -5.99E+06 | -3.47E-01 | -6.09E+11 | -1.60E-03 | -5.96E+06 | -3.42E-01 |
| -5.98E+06 | -3.49E-01 | -6.07E+11 | -1.61E-03 | -5.95E+06 | -3.45E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.96E+06 | -3.52E-01 | -6.05E+11 | -1.62E-03 | -5.93E+06 | -3.47E-01 |
| -5.94E+06 | -3.54E-01 | -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -5.93E+06 | -3.56E-01 | -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -5.91E+06 | -3.58E-01 | -6.02E+11 | -1.64E-03 | -5.90E+06 | -3.51E-01 |
| -5.91E+06 | -3.59E-01 | -6.00E+11 | -1.65E-03 | -5.88E+06 | -3.53E-01 |
| -5.89E+06 | -3.61E-01 | -5.98E+11 | -1.66E-03 | -5.86E+06 | -3.55E-01 |
| -5.88E+06 | -3.63E-01 | -5.97E+11 | -1.67E-03 | -5.85E+06 | -3.57E-01 |
| -5.86E+06 | -3.65E-01 | -5.95E+11 | -1.68E-03 | -5.83E+06 | -3.60E-01 |
| -5.85E+06 | -3.67E-01 | -5.94E+11 | -1.69E-03 | -5.82E+06 | -3.62E-01 |
| -5.83E+06 | -3.69E-01 | -5.92E+11 | -1.70E-03 | -5.80E+06 | -3.64E-01 |
| -5.82E+06 | -3.72E-01 | -5.91E+11 | -1.71E-03 | -5.79E+06 | -3.66E-01 |
| -5.81E+06 | -3.72E-01 | -5.89E+11 | -1.72E-03 | -5.77E+06 | -3.68E-01 |
| -5.80E+06 | -3.74E-01 | -5.88E+11 | -1.73E-03 | -5.77E+06 | -3.69E-01 |
| -5.78E+06 | -3.76E-01 | -5.87E+11 | -1.74E-03 | -5.75E+06 | -3.72E-01 |
| -5.77E+06 | -3.78E-01 | -5.85E+11 | -1.75E-03 | -5.74E+06 | -3.74E-01 |
| -5.75E+06 | -3.81E-01 | -5.84E+11 | -1.76E-03 | -5.72E+06 | -3.76E-01 |
| -5.74E+06 | -3.83E-01 | -5.82E+11 | -1.77E-03 | -5.71E+06 | -3.78E-01 |
| -5.72E+06 | -3.85E-01 | -5.81E+11 | -1.78E-03 | -5.69E+06 | -3.80E-01 |
| -5.71E+06 | -3.87E-01 | -5.79E+11 | -1.79E-03 | -5.68E+06 | -3.82E-01 |
| -5.69E+06 | -3.89E-01 | -5.78E+11 | -1.80E-03 | -5.66E+06 | -3.84E-01 |
| -5.68E+06 | -3.91E-01 | -5.76E+11 | -1.81E-03 | -5.65E+06 | -3.87E-01 |
| -5.67E+06 | -3.93E-01 | -5.75E+11 | -1.82E-03 | -5.64E+06 | -3.89E-01 |
| -5.65E+06 | -3.96E-01 | -5.74E+11 | -1.83E-03 | -5.62E+06 | -3.91E-01 |
| -5.64E+06 | -3.98E-01 | -5.73E+11 | -1.83E-03 | -5.61E+06 | -3.93E-01 |
| -5.63E+06 | -4.00E-01 | -5.71E+11 | -1.84E-03 | -5.60E+06 | -3.95E-01 |
| -5.62E+06 | -4.02E-01 | -5.70E+11 | -1.85E-03 | -5.59E+06 | -3.97E-01 |
| -5.61E+06 | -4.03E-01 | -5.69E+11 | -1.86E-03 | -5.57E+06 | -3.99E-01 |
| -5.59E+06 | -4.06E-01 | -5.67E+11 | -1.87E-03 | -5.56E+06 | -4.01E-01 |
| -5.58E+06 | -4.08E-01 | -5.66E+11 | -1.88E-03 | -5.55E+06 | -4.03E-01 |
| -5.57E+06 | -4.10E-01 | -5.65E+11 | -1.89E-03 | -5.53E+06 | -4.05E-01 |
| -5.55E+06 | -4.12E-01 | -5.63E+11 | -1.90E-03 | -5.52E+06 | -4.07E-01 |
| -5.54E+06 | -4.14E-01 | -5.62E+11 | -1.91E-03 | -5.51E+06 | -4.10E-01 |
| -5.53E+06 | -4.16E-01 | -5.61E+11 | -1.92E-03 | -5.50E+06 | -4.12E-01 |
| -5.52E+06 | -4.18E-01 | -5.61E+11 | -1.93E-03 | -5.49E+06 | -4.12E-01 |
| -5.50E+06 | -4.20E-01 | -5.59E+11 | -1.94E-03 | -5.48E+06 | -4.14E-01 |
| -5.49E+06 | -4.22E-01 | -5.58E+11 | -1.95E-03 | -5.47E+06 | -4.16E-01 |
| -5.48E+06 | -4.25E-01 | -5.57E+11 | -1.96E-03 | -5.45E+06 | -4.19E-01 |
| -5.47E+06 | -4.27E-01 | -5.55E+11 | -1.97E-03 | -5.44E+06 | -4.21E-01 |
| -5.45E+06 | -4.29E-01 | -5.54E+11 | -1.98E-03 | -5.43E+06 | -4.23E-01 |
| -5.44E+06 | -4.31E-01 | -5.53E+11 | -1.99E-03 | -5.42E+06 | -4.25E-01 |
| -5.43E+06 | -4.33E-01 | -5.51E+11 | -2.00E-03 | -5.40E+06 | -4.27E-01 |
| -5.42E+06 | -4.35E-01 | -5.50E+11 | -2.01E-03 | -5.39E+06 | -4.29E-01 |
| -5.40E+06 | -4.37E-01 | -5.49E+11 | -2.02E-03 | -5.38E+06 | -4.31E-01 |
| -5.39E+06 | -4.40E-01 | -5.48E+11 | -2.03E-03 | -5.37E+06 | -4.34E-01 |
| -5.38E+06 | -4.42E-01 | -5.47E+11 | -2.04E-03 | -5.36E+06 | -4.36E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.37E+06 | -4.44E-01 | -5.46E+11 | -2.05E-03 | -5.35E+06 | -4.38E-01 |
| -5.36E+06 | -4.46E-01 | -5.44E+11 | -2.06E-03 | -5.34E+06 | -4.40E-01 |
| -5.35E+06 | -4.48E-01 | -5.43E+11 | -2.07E-03 | -5.32E+06 | -4.42E-01 |
| -5.34E+06 | -4.50E-01 | -5.42E+11 | -2.08E-03 | -5.31E+06 | -4.44E-01 |
| -5.33E+06 | -4.52E-01 | -5.41E+11 | -2.09E-03 | -5.30E+06 | -4.46E-01 |
| -5.32E+06 | -4.55E-01 | -5.40E+11 | -2.10E-03 | -5.29E+06 | -4.49E-01 |
| -5.30E+06 | -4.57E-01 | -5.39E+11 | -2.11E-03 | -5.28E+06 | -4.51E-01 |
| -5.29E+06 | -4.59E-01 | -5.38E+11 | -2.12E-03 | -5.27E+06 | -4.53E-01 |
| -5.29E+06 | -4.61E-01 | -5.37E+11 | -2.13E-03 | -5.26E+06 | -4.55E-01 |
| -5.28E+06 | -4.63E-01 | -5.36E+11 | -2.14E-03 | -5.25E+06 | -4.57E-01 |
| -5.26E+06 | -4.65E-01 | -5.35E+11 | -2.15E-03 | -5.24E+06 | -4.59E-01 |
| -5.25E+06 | -4.67E-01 | -5.34E+11 | -2.16E-03 | -5.23E+06 | -4.61E-01 |
| -5.24E+06 | -4.70E-01 | -5.32E+11 | -2.17E-03 | -5.22E+06 | -4.64E-01 |
| -5.23E+06 | -4.72E-01 | -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.22E+06 | -4.74E-01 | -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.21E+06 | -4.76E-01 | -5.30E+11 | -2.19E-03 | -5.20E+06 | -4.68E-01 |
| -5.20E+06 | -4.78E-01 | -5.29E+11 | -2.20E-03 | -5.19E+06 | -4.70E-01 |
| -5.19E+06 | -4.80E-01 | -5.28E+11 | -2.21E-03 | -5.17E+06 | -4.72E-01 |
| -5.18E+06 | -4.82E-01 | -5.27E+11 | -2.22E-03 | -5.16E+06 | -4.75E-01 |
| -5.17E+06 | -4.84E-01 | -5.26E+11 | -2.23E-03 | -5.15E+06 | -4.77E-01 |
| -5.16E+06 | -4.86E-01 | -5.25E+11 | -2.24E-03 | -5.14E+06 | -4.79E-01 |
| -5.15E+06 | -4.88E-01 | -5.24E+11 | -2.25E-03 | -5.13E+06 | -4.81E-01 |
| -5.14E+06 | -4.91E-01 | -5.23E+11 | -2.26E-03 | -5.12E+06 | -4.83E-01 |
| -5.13E+06 | -4.93E-01 | -5.21E+11 | -2.27E-03 | -5.11E+06 | -4.85E-01 |
| -5.12E+06 | -4.95E-01 | -5.20E+11 | -2.28E-03 | -5.10E+06 | -4.87E-01 |
| -5.11E+06 | -4.97E-01 | -5.19E+11 | -2.29E-03 | -5.09E+06 | -4.90E-01 |
| -5.10E+06 | -4.99E-01 | -5.19E+11 | -2.30E-03 | -5.08E+06 | -4.92E-01 |
| -5.09E+06 | -5.01E-01 | -5.18E+11 | -2.31E-03 | -5.07E+06 | -4.94E-01 |
| -5.08E+06 | -5.03E-01 | -5.17E+11 | -2.32E-03 | -5.06E+06 | -4.96E-01 |
| -5.07E+06 | -5.06E-01 | -5.16E+11 | -2.33E-03 | -5.05E+06 | -4.98E-01 |
| -5.06E+06 | -5.08E-01 | -5.15E+11 | -2.34E-03 | -5.05E+06 | -5.00E-01 |
| -5.06E+06 | -5.10E-01 | -5.14E+11 | -2.35E-03 | -5.04E+06 | -5.02E-01 |
| -5.05E+06 | -5.12E-01 | -5.13E+11 | -2.36E-03 | -5.03E+06 | -5.04E-01 |
| -5.04E+06 | -5.14E-01 | -5.12E+11 | -2.37E-03 | -5.02E+06 | -5.07E-01 |
| -5.03E+06 | -5.16E-01 | -5.11E+11 | -2.38E-03 | -5.01E+06 | -5.09E-01 |
| -5.02E+06 | -5.18E-01 | -5.10E+11 | -2.39E-03 | -5.00E+06 | -5.11E-01 |
| -5.01E+06 | -5.21E-01 | -5.10E+11 | -2.40E-03 | -4.99E+06 | -5.13E-01 |
| -5.00E+06 | -5.23E-01 | -5.09E+11 | -2.41E-03 | -4.99E+06 | -5.15E-01 |
| -5.00E+06 | -5.25E-01 | -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.17E-01 |
| -4.99E+06 | -5.27E-01 | -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.18E-01 |
| -4.98E+06 | -5.29E-01 | -5.07E+11 | -2.43E-03 | -4.97E+06 | -5.20E-01 |
| -4.97E+06 | -5.31E-01 | -5.06E+11 | -2.44E-03 | -4.96E+06 | -5.22E-01 |
| -4.96E+06 | -5.33E-01 | -5.05E+11 | -2.45E-03 | -4.95E+06 | -5.24E-01 |
| -4.96E+06 | -5.36E-01 | -5.04E+11 | -2.46E-03 | -4.94E+06 | -5.26E-01 |
| -4.95E+06 | -5.37E-01 | -5.03E+11 | -2.47E-03 | -4.93E+06 | -5.28E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.94E+06 | -5.39E-01 | -5.02E+11 | -2.48E-03 | -4.92E+06 | -5.30E-01 |
| -4.93E+06 | -5.42E-01 | -5.02E+11 | -2.49E-03 | -4.92E+06 | -5.33E-01 |
| -4.93E+06 | -5.44E-01 | -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -4.92E+06 | -5.46E-01 | -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -4.91E+06 | -5.48E-01 | -5.00E+11 | -2.51E-03 | -4.90E+06 | -5.37E-01 |
| -4.90E+06 | -5.50E-01 | -4.99E+11 | -2.52E-03 | -4.89E+06 | -5.39E-01 |
| -4.89E+06 | -5.52E-01 | -4.98E+11 | -2.53E-03 | -4.88E+06 | -5.41E-01 |
| -4.89E+06 | -5.54E-01 | -4.97E+11 | -2.54E-03 | -4.87E+06 | -5.43E-01 |
| -4.88E+06 | -5.57E-01 | -4.96E+11 | -2.55E-03 | -4.86E+06 | -5.46E-01 |
| -4.88E+06 | -5.57E-01 | -4.95E+11 | -2.56E-03 | -4.85E+06 | -5.48E-01 |
| -4.87E+06 | -5.59E-01 | -4.95E+11 | -2.57E-03 | -4.85E+06 | -5.50E-01 |
| -4.86E+06 | -5.61E-01 | -4.94E+11 | -2.58E-03 | -4.84E+06 | -5.52E-01 |
| -4.85E+06 | -5.63E-01 | -4.93E+11 | -2.59E-03 | -4.83E+06 | -5.54E-01 |
| -4.85E+06 | -5.65E-01 | -4.92E+11 | -2.60E-03 | -4.82E+06 | -5.56E-01 |
| -4.84E+06 | -5.67E-01 | -4.91E+11 | -2.61E-03 | -4.81E+06 | -5.58E-01 |
| -4.83E+06 | -5.70E-01 | -4.91E+11 | -2.62E-03 | -4.81E+06 | -5.61E-01 |
| -4.82E+06 | -5.72E-01 | -4.90E+11 | -2.63E-03 | -4.80E+06 | -5.63E-01 |
| -4.81E+06 | -5.74E-01 | -4.89E+11 | -2.64E-03 | -4.79E+06 | -5.65E-01 |
| -4.80E+06 | -5.76E-01 | -4.88E+11 | -2.65E-03 | -4.78E+06 | -5.67E-01 |

| 10% tubrukan | | | | 10 ⁹ | |
|--------------|----------|----------|-----------|-----------------|----------|
| Momen | Rotasi | Momen | Curvature | Momen | Rotasi |
| 7.79E+11 | 2.70E-03 | 7.63E+06 | 5.78E-01 | 7.28E+11 | 2.71E-03 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.92E+11 | 2.49E-03 | 7.76E+06 | 5.34E-01 | 7.43E+11 | 2.50E-03 |
| 7.93E+11 | 2.48E-03 | 7.77E+06 | 5.32E-01 | 7.44E+11 | 2.49E-03 |
| 7.93E+11 | 2.47E-03 | 7.77E+06 | 5.30E-01 | 7.44E+11 | 2.48E-03 |
| 7.94E+11 | 2.46E-03 | 7.78E+06 | 5.28E-01 | 7.45E+11 | 2.47E-03 |
| 7.95E+11 | 2.45E-03 | 7.79E+06 | 5.25E-01 | 7.46E+11 | 2.46E-03 |
| 7.95E+11 | 2.45E-03 | 7.79E+06 | 5.25E-01 | 7.47E+11 | 2.45E-03 |
| 7.95E+11 | 2.44E-03 | 7.79E+06 | 5.23E-01 | 7.47E+11 | 2.44E-03 |
| 7.96E+11 | 2.43E-03 | 7.80E+06 | 5.21E-01 | 7.48E+11 | 2.43E-03 |
| 7.97E+11 | 2.42E-03 | 7.81E+06 | 5.19E-01 | 7.48E+11 | 2.43E-03 |
| 7.97E+11 | 2.41E-03 | 7.81E+06 | 5.17E-01 | 7.49E+11 | 2.42E-03 |
| 7.98E+11 | 2.40E-03 | 7.82E+06 | 5.15E-01 | 7.50E+11 | 2.41E-03 |
| 7.99E+11 | 2.39E-03 | 7.83E+06 | 5.13E-01 | 7.51E+11 | 2.40E-03 |
| 7.99E+11 | 2.38E-03 | 7.83E+06 | 5.10E-01 | 7.51E+11 | 2.39E-03 |
| 8.00E+11 | 2.37E-03 | 7.84E+06 | 5.08E-01 | 7.52E+11 | 2.38E-03 |
| 8.01E+11 | 2.36E-03 | 7.85E+06 | 5.06E-01 | 7.53E+11 | 2.37E-03 |
| 8.01E+11 | 2.35E-03 | 7.85E+06 | 5.04E-01 | 7.54E+11 | 2.36E-03 |
| 8.02E+11 | 2.34E-03 | 7.86E+06 | 5.02E-01 | 7.54E+11 | 2.35E-03 |
| 8.03E+11 | 2.33E-03 | 7.87E+06 | 5.00E-01 | 7.55E+11 | 2.34E-03 |
| 8.03E+11 | 2.32E-03 | 7.87E+06 | 4.98E-01 | 7.56E+11 | 2.33E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.04E+11 | 2.32E-03 | 7.88E+06 | 4.96E-01 | 7.57E+11 | 2.32E-03 |
| 8.05E+11 | 2.31E-03 | 7.88E+06 | 4.94E-01 | 7.58E+11 | 2.31E-03 |
| 8.05E+11 | 2.30E-03 | 7.89E+06 | 4.91E-01 | 7.58E+11 | 2.30E-03 |
| 8.06E+11 | 2.29E-03 | 7.90E+06 | 4.89E-01 | 7.59E+11 | 2.29E-03 |
| 8.06E+11 | 2.28E-03 | 7.90E+06 | 4.87E-01 | 7.60E+11 | 2.28E-03 |
| 8.07E+11 | 2.27E-03 | 7.91E+06 | 4.85E-01 | 7.61E+11 | 2.27E-03 |
| 8.08E+11 | 2.26E-03 | 7.92E+06 | 4.83E-01 | 7.62E+11 | 2.26E-03 |
| 8.09E+11 | 2.25E-03 | 7.92E+06 | 4.81E-01 | 7.62E+11 | 2.25E-03 |
| 8.09E+11 | 2.24E-03 | 7.93E+06 | 4.79E-01 | 7.63E+11 | 2.24E-03 |
| 8.10E+11 | 2.23E-03 | 7.94E+06 | 4.76E-01 | 7.64E+11 | 2.23E-03 |
| 8.11E+11 | 2.22E-03 | 7.94E+06 | 4.74E-01 | 7.65E+11 | 2.22E-03 |
| 8.12E+11 | 2.21E-03 | 7.95E+06 | 4.72E-01 | 7.65E+11 | 2.21E-03 |
| 8.12E+11 | 2.20E-03 | 7.96E+06 | 4.70E-01 | 7.66E+11 | 2.20E-03 |
| 8.13E+11 | 2.19E-03 | 7.97E+06 | 4.68E-01 | 7.67E+11 | 2.19E-03 |
| 8.14E+11 | 2.18E-03 | 7.98E+06 | 4.66E-01 | 7.68E+11 | 2.18E-03 |
| 8.15E+11 | 2.17E-03 | 7.98E+06 | 4.64E-01 | 7.68E+11 | 2.17E-03 |
| 8.15E+11 | 2.16E-03 | 7.99E+06 | 4.63E-01 | 7.69E+11 | 2.16E-03 |
| 8.16E+11 | 2.15E-03 | 7.99E+06 | 4.61E-01 | 7.70E+11 | 2.15E-03 |
| 8.16E+11 | 2.14E-03 | 8.00E+06 | 4.58E-01 | 7.71E+11 | 2.14E-03 |
| 8.17E+11 | 2.13E-03 | 8.00E+06 | 4.56E-01 | 7.71E+11 | 2.13E-03 |
| 8.18E+11 | 2.12E-03 | 8.01E+06 | 4.54E-01 | 7.72E+11 | 2.13E-03 |
| 8.18E+11 | 2.11E-03 | 8.02E+06 | 4.52E-01 | 7.72E+11 | 2.12E-03 |
| 8.19E+11 | 2.10E-03 | 8.03E+06 | 4.50E-01 | 7.73E+11 | 2.11E-03 |
| 8.20E+11 | 2.09E-03 | 8.03E+06 | 4.48E-01 | 7.74E+11 | 2.10E-03 |
| 8.20E+11 | 2.08E-03 | 8.04E+06 | 4.46E-01 | 7.75E+11 | 2.09E-03 |
| 8.21E+11 | 2.07E-03 | 8.05E+06 | 4.43E-01 | 7.76E+11 | 2.08E-03 |
| 8.22E+11 | 2.06E-03 | 8.05E+06 | 4.41E-01 | 7.77E+11 | 2.07E-03 |
| 8.23E+11 | 2.05E-03 | 8.06E+06 | 4.39E-01 | 7.77E+11 | 2.06E-03 |
| 8.23E+11 | 2.04E-03 | 8.07E+06 | 4.37E-01 | 7.78E+11 | 2.05E-03 |
| 8.24E+11 | 2.03E-03 | 8.07E+06 | 4.36E-01 | 7.79E+11 | 2.04E-03 |
| 8.25E+11 | 2.02E-03 | 8.08E+06 | 4.33E-01 | 7.80E+11 | 2.03E-03 |
| 8.25E+11 | 2.01E-03 | 8.09E+06 | 4.31E-01 | 7.81E+11 | 2.02E-03 |
| 8.26E+11 | 2.00E-03 | 8.09E+06 | 4.29E-01 | 7.82E+11 | 2.01E-03 |
| 8.27E+11 | 1.99E-03 | 8.10E+06 | 4.27E-01 | 7.82E+11 | 2.00E-03 |
| 8.28E+11 | 1.98E-03 | 8.11E+06 | 4.25E-01 | 7.83E+11 | 1.99E-03 |
| 8.28E+11 | 1.97E-03 | 8.12E+06 | 4.23E-01 | 7.84E+11 | 1.98E-03 |
| 8.29E+11 | 1.96E-03 | 8.13E+06 | 4.21E-01 | 7.85E+11 | 1.97E-03 |
| 8.30E+11 | 1.95E-03 | 8.13E+06 | 4.18E-01 | 7.86E+11 | 1.96E-03 |
| 8.31E+11 | 1.94E-03 | 8.14E+06 | 4.16E-01 | 7.86E+11 | 1.95E-03 |
| 8.32E+11 | 1.93E-03 | 8.15E+06 | 4.14E-01 | 7.87E+11 | 1.94E-03 |
| 8.32E+11 | 1.92E-03 | 8.16E+06 | 4.12E-01 | 7.88E+11 | 1.93E-03 |
| 8.33E+11 | 1.91E-03 | 8.17E+06 | 4.10E-01 | 7.89E+11 | 1.92E-03 |
| 8.34E+11 | 1.91E-03 | 8.17E+06 | 4.08E-01 | 7.90E+11 | 1.91E-03 |
| 8.35E+11 | 1.90E-03 | 8.18E+06 | 4.06E-01 | 7.91E+11 | 1.90E-03 |
| 8.35E+11 | 1.89E-03 | 8.18E+06 | 4.04E-01 | 7.91E+11 | 1.89E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.36E+11 | 1.88E-03 | 8.19E+06 | 4.02E-01 | 7.92E+11 | 1.88E-03 |
| 8.37E+11 | 1.87E-03 | 8.20E+06 | 4.00E-01 | 7.93E+11 | 1.87E-03 |
| 8.38E+11 | 1.86E-03 | 8.21E+06 | 3.97E-01 | 7.94E+11 | 1.86E-03 |
| 8.38E+11 | 1.85E-03 | 8.22E+06 | 3.95E-01 | 7.95E+11 | 1.85E-03 |
| 8.39E+11 | 1.84E-03 | 8.22E+06 | 3.93E-01 | 7.96E+11 | 1.84E-03 |
| 8.40E+11 | 1.83E-03 | 8.23E+06 | 3.91E-01 | 7.97E+11 | 1.83E-03 |
| 8.41E+11 | 1.82E-03 | 8.24E+06 | 3.89E-01 | 7.98E+11 | 1.82E-03 |
| 8.42E+11 | 1.81E-03 | 8.25E+06 | 3.87E-01 | 7.99E+11 | 1.81E-03 |
| 8.42E+11 | 1.80E-03 | 8.25E+06 | 3.86E-01 | 8.00E+11 | 1.80E-03 |
| 8.43E+11 | 1.79E-03 | 8.26E+06 | 3.84E-01 | 8.00E+11 | 1.80E-03 |
| 8.44E+11 | 1.78E-03 | 8.27E+06 | 3.81E-01 | 8.01E+11 | 1.79E-03 |
| 8.44E+11 | 1.77E-03 | 8.28E+06 | 3.79E-01 | 8.02E+11 | 1.78E-03 |
| 8.45E+11 | 1.76E-03 | 8.28E+06 | 3.77E-01 | 8.02E+11 | 1.77E-03 |
| 8.46E+11 | 1.75E-03 | 8.29E+06 | 3.75E-01 | 8.03E+11 | 1.76E-03 |
| 8.47E+11 | 1.74E-03 | 8.30E+06 | 3.73E-01 | 8.04E+11 | 1.75E-03 |
| 8.48E+11 | 1.73E-03 | 8.31E+06 | 3.71E-01 | 8.05E+11 | 1.74E-03 |
| 8.49E+11 | 1.72E-03 | 8.32E+06 | 3.69E-01 | 8.06E+11 | 1.73E-03 |
| 8.50E+11 | 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.07E+11 | 1.72E-03 |
| 8.50E+11 | 1.71E-03 | 8.33E+06 | 3.66E-01 | 8.08E+11 | 1.71E-03 |
| 8.50E+11 | 1.70E-03 | 8.33E+06 | 3.64E-01 | 8.09E+11 | 1.70E-03 |
| 8.51E+11 | 1.69E-03 | 8.34E+06 | 3.62E-01 | 8.10E+11 | 1.69E-03 |
| 8.52E+11 | 1.68E-03 | 8.35E+06 | 3.60E-01 | 8.10E+11 | 1.69E-03 |
| 8.53E+11 | 1.67E-03 | 8.36E+06 | 3.58E-01 | 8.11E+11 | 1.68E-03 |
| 8.54E+11 | 1.66E-03 | 8.37E+06 | 3.55E-01 | 8.12E+11 | 1.67E-03 |
| 8.55E+11 | 1.65E-03 | 8.38E+06 | 3.53E-01 | 8.13E+11 | 1.66E-03 |
| 8.55E+11 | 1.64E-03 | 8.38E+06 | 3.51E-01 | 8.14E+11 | 1.65E-03 |
| 8.56E+11 | 1.63E-03 | 8.39E+06 | 3.49E-01 | 8.15E+11 | 1.64E-03 |
| 8.57E+11 | 1.62E-03 | 8.40E+06 | 3.47E-01 | 8.16E+11 | 1.63E-03 |
| 8.57E+11 | 1.62E-03 | 8.40E+06 | 3.46E-01 | 8.17E+11 | 1.62E-03 |
| 8.58E+11 | 1.61E-03 | 8.41E+06 | 3.44E-01 | 8.17E+11 | 1.61E-03 |
| 8.59E+11 | 1.60E-03 | 8.42E+06 | 3.42E-01 | 8.18E+11 | 1.60E-03 |
| 8.60E+11 | 1.59E-03 | 8.43E+06 | 3.40E-01 | 8.19E+11 | 1.59E-03 |
| 8.61E+11 | 1.58E-03 | 8.44E+06 | 3.38E-01 | 8.20E+11 | 1.58E-03 |
| 8.62E+11 | 1.57E-03 | 8.45E+06 | 3.36E-01 | 8.21E+11 | 1.57E-03 |
| 8.63E+11 | 1.56E-03 | 8.46E+06 | 3.34E-01 | 8.22E+11 | 1.56E-03 |
| 8.64E+11 | 1.55E-03 | 8.46E+06 | 3.31E-01 | 8.23E+11 | 1.55E-03 |
| 8.65E+11 | 1.54E-03 | 8.47E+06 | 3.29E-01 | 8.24E+11 | 1.54E-03 |
| 8.65E+11 | 1.53E-03 | 8.48E+06 | 3.27E-01 | 8.25E+11 | 1.53E-03 |
| 8.66E+11 | 1.52E-03 | 8.49E+06 | 3.25E-01 | 8.26E+11 | 1.52E-03 |
| 8.67E+11 | 1.51E-03 | 8.50E+06 | 3.23E-01 | 8.27E+11 | 1.51E-03 |
| 8.68E+11 | 1.50E-03 | 8.51E+06 | 3.21E-01 | 8.28E+11 | 1.50E-03 |
| 8.69E+11 | 1.49E-03 | 8.52E+06 | 3.19E-01 | 8.29E+11 | 1.49E-03 |
| 8.70E+11 | 1.48E-03 | 8.53E+06 | 3.17E-01 | 8.30E+11 | 1.48E-03 |
| 8.71E+11 | 1.47E-03 | 8.53E+06 | 3.15E-01 | 8.31E+11 | 1.47E-03 |
| 8.72E+11 | 1.46E-03 | 8.54E+06 | 3.13E-01 | 8.32E+11 | 1.46E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.73E+11 | 1.45E-03 | 8.55E+06 | 3.10E-01 | 8.33E+11 | 1.45E-03 |
| 8.74E+11 | 1.44E-03 | 8.56E+06 | 3.08E-01 | 8.33E+11 | 1.45E-03 |
| 8.75E+11 | 1.43E-03 | 8.57E+06 | 3.06E-01 | 8.34E+11 | 1.44E-03 |
| 8.76E+11 | 1.42E-03 | 8.58E+06 | 3.04E-01 | 8.35E+11 | 1.43E-03 |
| 8.77E+11 | 1.41E-03 | 8.59E+06 | 3.02E-01 | 8.36E+11 | 1.42E-03 |
| 8.78E+11 | 1.40E-03 | 8.60E+06 | 3.00E-01 | 8.37E+11 | 1.41E-03 |
| 8.79E+11 | 1.39E-03 | 8.61E+06 | 2.98E-01 | 8.38E+11 | 1.40E-03 |
| 8.79E+11 | 1.39E-03 | 8.62E+06 | 2.97E-01 | 8.39E+11 | 1.39E-03 |
| 8.80E+11 | 1.38E-03 | 8.62E+06 | 2.95E-01 | 8.40E+11 | 1.38E-03 |
| 8.81E+11 | 1.37E-03 | 8.63E+06 | 2.93E-01 | 8.41E+11 | 1.37E-03 |
| 8.82E+11 | 1.36E-03 | 8.64E+06 | 2.90E-01 | 8.42E+11 | 1.36E-03 |
| 8.83E+11 | 1.35E-03 | 8.66E+06 | 2.88E-01 | 8.43E+11 | 1.35E-03 |
| 8.84E+11 | 1.34E-03 | 8.67E+06 | 2.86E-01 | 8.44E+11 | 1.34E-03 |
| 8.85E+11 | 1.33E-03 | 8.68E+06 | 2.84E-01 | 8.45E+11 | 1.33E-03 |
| 8.86E+11 | 1.32E-03 | 8.69E+06 | 2.82E-01 | 8.46E+11 | 1.32E-03 |
| 8.88E+11 | 1.31E-03 | 8.70E+06 | 2.80E-01 | 8.47E+11 | 1.31E-03 |
| 8.89E+11 | 1.30E-03 | 8.71E+06 | 2.78E-01 | 8.48E+11 | 1.31E-03 |
| 8.90E+11 | 1.29E-03 | 8.72E+06 | 2.75E-01 | 8.49E+11 | 1.30E-03 |
| 8.91E+11 | 1.28E-03 | 8.73E+06 | 2.73E-01 | 8.50E+11 | 1.29E-03 |
| 8.92E+11 | 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.51E+11 | 1.28E-03 |
| 8.92E+11 | 1.27E-03 | 8.74E+06 | 2.71E-01 | 8.52E+11 | 1.27E-03 |
| 8.93E+11 | 1.26E-03 | 8.75E+06 | 2.69E-01 | 8.53E+11 | 1.26E-03 |
| 8.94E+11 | 1.25E-03 | 8.76E+06 | 2.67E-01 | 8.54E+11 | 1.25E-03 |
| 8.96E+11 | 1.24E-03 | 8.78E+06 | 2.65E-01 | 8.56E+11 | 1.24E-03 |
| 8.97E+11 | 1.23E-03 | 8.79E+06 | 2.63E-01 | 8.57E+11 | 1.23E-03 |
| 8.98E+11 | 1.22E-03 | 8.80E+06 | 2.60E-01 | 8.58E+11 | 1.22E-03 |
| 8.99E+11 | 1.21E-03 | 8.81E+06 | 2.59E-01 | 8.59E+11 | 1.21E-03 |
| 9.00E+11 | 1.20E-03 | 8.82E+06 | 2.57E-01 | 8.60E+11 | 1.20E-03 |
| 9.01E+11 | 1.19E-03 | 8.83E+06 | 2.55E-01 | 8.60E+11 | 1.20E-03 |
| 9.02E+11 | 1.18E-03 | 8.84E+06 | 2.53E-01 | 8.61E+11 | 1.19E-03 |
| 9.04E+11 | 1.17E-03 | 8.85E+06 | 2.51E-01 | 8.62E+11 | 1.18E-03 |
| 9.05E+11 | 1.16E-03 | 8.87E+06 | 2.49E-01 | 8.64E+11 | 1.17E-03 |
| 9.06E+11 | 1.15E-03 | 8.88E+06 | 2.47E-01 | 8.65E+11 | 1.16E-03 |
| 9.07E+11 | 1.14E-03 | 8.89E+06 | 2.45E-01 | 8.66E+11 | 1.15E-03 |
| 9.08E+11 | 1.13E-03 | 8.90E+06 | 2.43E-01 | 8.67E+11 | 1.14E-03 |
| 9.09E+11 | 1.12E-03 | 8.91E+06 | 2.40E-01 | 8.69E+11 | 1.13E-03 |
| 9.11E+11 | 1.11E-03 | 8.93E+06 | 2.38E-01 | 8.70E+11 | 1.12E-03 |
| 9.11E+11 | 1.11E-03 | 8.93E+06 | 2.37E-01 | 8.71E+11 | 1.11E-03 |
| 9.13E+11 | 1.10E-03 | 8.94E+06 | 2.35E-01 | 8.72E+11 | 1.10E-03 |
| 9.14E+11 | 1.09E-03 | 8.96E+06 | 2.33E-01 | 8.73E+11 | 1.09E-03 |
| 9.16E+11 | 1.08E-03 | 8.97E+06 | 2.31E-01 | 8.74E+11 | 1.08E-03 |
| 9.17E+11 | 1.07E-03 | 8.99E+06 | 2.29E-01 | 8.76E+11 | 1.07E-03 |
| 9.17E+11 | 1.07E-03 | 8.99E+06 | 2.28E-01 | 8.77E+11 | 1.06E-03 |
| 9.19E+11 | 1.06E-03 | 9.00E+06 | 2.26E-01 | 8.79E+11 | 1.05E-03 |
| 9.20E+11 | 1.05E-03 | 9.02E+06 | 2.24E-01 | 8.80E+11 | 1.05E-03 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.21E+11 | 1.04E-03 | 9.03E+06 | 2.22E-01 | 8.81E+11 | 1.04E-03 |
| 9.23E+11 | 1.03E-03 | 9.04E+06 | 2.20E-01 | 8.83E+11 | 1.03E-03 |
| 9.24E+11 | 1.02E-03 | 9.05E+06 | 2.18E-01 | 8.84E+11 | 1.02E-03 |
| 9.25E+11 | 1.01E-03 | 9.07E+06 | 2.16E-01 | 8.85E+11 | 1.01E-03 |
| 9.27E+11 | 9.97E-04 | 9.08E+06 | 2.14E-01 | 8.86E+11 | 1.00E-03 |
| 9.28E+11 | 9.87E-04 | 9.10E+06 | 2.11E-01 | 8.87E+11 | 9.92E-04 |
| 9.29E+11 | 9.82E-04 | 9.10E+06 | 2.10E-01 | 8.89E+11 | 9.82E-04 |
| 9.30E+11 | 9.72E-04 | 9.12E+06 | 2.08E-01 | 8.91E+11 | 9.72E-04 |
| 9.32E+11 | 9.62E-04 | 9.13E+06 | 2.06E-01 | 8.92E+11 | 9.62E-04 |
| 9.33E+11 | 9.56E-04 | 9.14E+06 | 2.05E-01 | 8.94E+11 | 9.52E-04 |
| 9.34E+11 | 9.46E-04 | 9.16E+06 | 2.03E-01 | 8.96E+11 | 9.42E-04 |
| 9.36E+11 | 9.39E-04 | 9.17E+06 | 2.01E-01 | 8.96E+11 | 9.40E-04 |
| 9.38E+11 | 9.29E-04 | 9.19E+06 | 1.99E-01 | 8.97E+11 | 9.30E-04 |
| 9.40E+11 | 9.19E-04 | 9.21E+06 | 1.97E-01 | 8.98E+11 | 9.20E-04 |
| 9.42E+11 | 9.09E-04 | 9.23E+06 | 1.95E-01 | 9.00E+11 | 9.10E-04 |
| 9.46E+11 | 8.99E-04 | 9.27E+06 | 1.93E-01 | 9.02E+11 | 9.00E-04 |
| 9.47E+11 | 8.95E-04 | 9.28E+06 | 1.92E-01 | 9.03E+11 | 8.96E-04 |
| 9.51E+11 | 8.85E-04 | 9.32E+06 | 1.89E-01 | 9.04E+11 | 8.86E-04 |
| 9.54E+11 | 8.78E-04 | 9.35E+06 | 1.88E-01 | 9.06E+11 | 8.76E-04 |
| 9.56E+11 | 8.74E-04 | 9.37E+06 | 1.87E-01 | 9.07E+11 | 8.71E-04 |
| 9.70E+11 | 8.64E-04 | 9.50E+06 | 1.85E-01 | 9.08E+11 | 8.61E-04 |
| 9.80E+11 | 8.55E-04 | 9.60E+06 | 1.83E-01 | 9.10E+11 | 8.51E-04 |
| 9.84E+11 | 8.51E-04 | 9.65E+06 | 1.82E-01 | 9.11E+11 | 8.44E-04 |
| 9.86E+11 | 8.41E-04 | 9.66E+06 | 1.80E-01 | 9.12E+11 | 8.37E-04 |
| 9.86E+11 | 8.40E-04 | 9.66E+06 | 1.80E-01 | 9.13E+11 | 8.27E-04 |
| 9.85E+11 | 8.30E-04 | 9.65E+06 | 1.78E-01 | 9.15E+11 | 8.17E-04 |
| 9.84E+11 | 8.20E-04 | 9.64E+06 | 1.75E-01 | 9.15E+11 | 8.16E-04 |
| 9.83E+11 | 8.10E-04 | 9.63E+06 | 1.73E-01 | 9.17E+11 | 8.06E-04 |
| 9.81E+11 | 8.00E-04 | 9.62E+06 | 1.71E-01 | 9.19E+11 | 7.96E-04 |
| 9.80E+11 | 7.91E-04 | 9.61E+06 | 1.69E-01 | 9.20E+11 | 7.94E-04 |
| 9.79E+11 | 7.81E-04 | 9.59E+06 | 1.67E-01 | 9.22E+11 | 7.84E-04 |
| 9.77E+11 | 7.72E-04 | 9.58E+06 | 1.65E-01 | 9.23E+11 | 7.79E-04 |
| 9.75E+11 | 7.62E-04 | 9.56E+06 | 1.63E-01 | 9.26E+11 | 7.69E-04 |
| 9.73E+11 | 7.56E-04 | 9.54E+06 | 1.62E-01 | 9.28E+11 | 7.62E-04 |
| 9.73E+11 | 7.55E-04 | 9.54E+06 | 1.62E-01 | 9.33E+11 | 7.52E-04 |
| 9.69E+11 | 7.45E-04 | 9.50E+06 | 1.60E-01 | 9.37E+11 | 7.46E-04 |
| 9.65E+11 | 7.35E-04 | 9.45E+06 | 1.57E-01 | 9.40E+11 | 7.41E-04 |
| 9.63E+11 | 7.32E-04 | 9.44E+06 | 1.57E-01 | 9.51E+11 | 7.31E-04 |
| 9.59E+11 | 7.22E-04 | 9.40E+06 | 1.55E-01 | 9.57E+11 | 7.26E-04 |
| 9.55E+11 | 7.13E-04 | 9.35E+06 | 1.53E-01 | 9.58E+11 | 7.20E-04 |
| 9.51E+11 | 7.06E-04 | 9.32E+06 | 1.51E-01 | 9.59E+11 | 7.19E-04 |
| 9.46E+11 | 6.96E-04 | 9.27E+06 | 1.49E-01 | 9.58E+11 | 7.09E-04 |
| 9.41E+11 | 6.86E-04 | 9.22E+06 | 1.47E-01 | 9.55E+11 | 6.99E-04 |
| 9.38E+11 | 6.80E-04 | 9.19E+06 | 1.46E-01 | 9.51E+11 | 6.89E-04 |
| 9.35E+11 | 6.74E-04 | 9.16E+06 | 1.44E-01 | 9.51E+11 | 6.88E-04 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.32E+11 | 6.68E-04 | 9.13E+06 | 1.43E-01 | 9.47E+11 | 6.78E-04 |
| 9.27E+11 | 6.59E-04 | 9.08E+06 | 1.41E-01 | 9.43E+11 | 6.69E-04 |
| 9.22E+11 | 6.51E-04 | 9.04E+06 | 1.39E-01 | 9.40E+11 | 6.63E-04 |
| 9.19E+11 | 6.46E-04 | 9.01E+06 | 1.38E-01 | 9.36E+11 | 6.57E-04 |
| 9.15E+11 | 6.40E-04 | 8.97E+06 | 1.37E-01 | 9.30E+11 | 6.51E-04 |
| 9.11E+11 | 6.35E-04 | 8.92E+06 | 1.36E-01 | 9.20E+11 | 6.43E-04 |
| 9.02E+11 | 6.26E-04 | 8.84E+06 | 1.34E-01 | 9.16E+11 | 6.40E-04 |
| 8.94E+11 | 6.19E-04 | 8.76E+06 | 1.33E-01 | 9.02E+11 | 6.30E-04 |
| 8.86E+11 | 6.12E-04 | 8.68E+06 | 1.31E-01 | 8.88E+11 | 6.20E-04 |
| 8.77E+11 | 6.06E-04 | 8.60E+06 | 1.30E-01 | 8.74E+11 | 6.10E-04 |
| 8.69E+11 | 6.00E-04 | 8.52E+06 | 1.28E-01 | 8.59E+11 | 6.00E-04 |
| 8.55E+11 | 5.90E-04 | 8.37E+06 | 1.26E-01 | 8.45E+11 | 5.90E-04 |
| 8.40E+11 | 5.80E-04 | 8.23E+06 | 1.24E-01 | 8.31E+11 | 5.80E-04 |
| 8.26E+11 | 5.70E-04 | 8.09E+06 | 1.22E-01 | 8.16E+11 | 5.70E-04 |
| 8.11E+11 | 5.60E-04 | 7.95E+06 | 1.20E-01 | 8.02E+11 | 5.60E-04 |
| 7.97E+11 | 5.50E-04 | 7.81E+06 | 1.18E-01 | 7.88E+11 | 5.50E-04 |
| 7.82E+11 | 5.40E-04 | 7.66E+06 | 1.16E-01 | 7.73E+11 | 5.40E-04 |
| 7.68E+11 | 5.30E-04 | 7.52E+06 | 1.13E-01 | 7.59E+11 | 5.30E-04 |
| 7.53E+11 | 5.20E-04 | 7.38E+06 | 1.11E-01 | 7.45E+11 | 5.20E-04 |
| 7.39E+11 | 5.10E-04 | 7.24E+06 | 1.09E-01 | 7.30E+11 | 5.10E-04 |
| 7.24E+11 | 5.00E-04 | 7.10E+06 | 1.07E-01 | 7.16E+11 | 5.00E-04 |
| 7.10E+11 | 4.90E-04 | 6.96E+06 | 1.05E-01 | 7.02E+11 | 4.90E-04 |
| 6.95E+11 | 4.80E-04 | 6.81E+06 | 1.03E-01 | 6.88E+11 | 4.80E-04 |
| 6.81E+11 | 4.70E-04 | 6.67E+06 | 1.01E-01 | 6.73E+11 | 4.70E-04 |
| 6.66E+11 | 4.60E-04 | 6.53E+06 | 9.85E-02 | 6.59E+11 | 4.60E-04 |
| 6.52E+11 | 4.50E-04 | 6.39E+06 | 9.64E-02 | 6.45E+11 | 4.50E-04 |
| 6.37E+11 | 4.40E-04 | 6.25E+06 | 9.42E-02 | 6.30E+11 | 4.40E-04 |
| 6.23E+11 | 4.30E-04 | 6.10E+06 | 9.21E-02 | 6.16E+11 | 4.30E-04 |
| 6.08E+11 | 4.20E-04 | 5.96E+06 | 8.99E-02 | 6.02E+11 | 4.20E-04 |
| 5.94E+11 | 4.10E-04 | 5.82E+06 | 8.78E-02 | 5.87E+11 | 4.10E-04 |
| 5.79E+11 | 4.00E-04 | 5.68E+06 | 8.57E-02 | 5.73E+11 | 4.00E-04 |
| 5.65E+11 | 3.90E-04 | 5.54E+06 | 8.35E-02 | 5.59E+11 | 3.90E-04 |
| 5.50E+11 | 3.80E-04 | 5.39E+06 | 8.14E-02 | 5.44E+11 | 3.80E-04 |
| 5.36E+11 | 3.70E-04 | 5.25E+06 | 7.92E-02 | 5.30E+11 | 3.70E-04 |
| 5.21E+11 | 3.60E-04 | 5.11E+06 | 7.71E-02 | 5.16E+11 | 3.60E-04 |
| 5.07E+11 | 3.50E-04 | 4.97E+06 | 7.49E-02 | 5.01E+11 | 3.50E-04 |
| 4.93E+11 | 3.40E-04 | 4.83E+06 | 7.28E-02 | 4.87E+11 | 3.40E-04 |
| 4.78E+11 | 3.30E-04 | 4.68E+06 | 7.07E-02 | 4.73E+11 | 3.30E-04 |
| 4.64E+11 | 3.20E-04 | 4.54E+06 | 6.85E-02 | 4.58E+11 | 3.20E-04 |
| 4.49E+11 | 3.10E-04 | 4.40E+06 | 6.64E-02 | 4.44E+11 | 3.10E-04 |
| 4.35E+11 | 3.00E-04 | 4.26E+06 | 6.42E-02 | 4.30E+11 | 3.00E-04 |
| 4.20E+11 | 2.90E-04 | 4.12E+06 | 6.21E-02 | 4.15E+11 | 2.90E-04 |
| 4.06E+11 | 2.80E-04 | 3.97E+06 | 6.00E-02 | 4.01E+11 | 2.80E-04 |
| 3.91E+11 | 2.70E-04 | 3.83E+06 | 5.78E-02 | 3.87E+11 | 2.70E-04 |
| 3.77E+11 | 2.60E-04 | 3.69E+06 | 5.57E-02 | 3.72E+11 | 2.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.62E+11 | 2.50E-04 | 3.55E+06 | 5.35E-02 | 3.58E+11 | 2.50E-04 |
| 3.48E+11 | 2.40E-04 | 3.41E+06 | 5.14E-02 | 3.44E+11 | 2.40E-04 |
| 3.33E+11 | 2.30E-04 | 3.26E+06 | 4.93E-02 | 3.29E+11 | 2.30E-04 |
| 3.19E+11 | 2.20E-04 | 3.12E+06 | 4.71E-02 | 3.15E+11 | 2.20E-04 |
| 3.04E+11 | 2.10E-04 | 2.98E+06 | 4.50E-02 | 3.01E+11 | 2.10E-04 |
| 2.90E+11 | 2.00E-04 | 2.84E+06 | 4.28E-02 | 2.87E+11 | 2.00E-04 |
| 2.75E+11 | 1.90E-04 | 2.70E+06 | 4.07E-02 | 2.72E+11 | 1.90E-04 |
| 2.61E+11 | 1.80E-04 | 2.55E+06 | 3.85E-02 | 2.58E+11 | 1.80E-04 |
| 2.46E+11 | 1.70E-04 | 2.41E+06 | 3.64E-02 | 2.44E+11 | 1.70E-04 |
| 2.32E+11 | 1.60E-04 | 2.27E+06 | 3.43E-02 | 2.29E+11 | 1.60E-04 |
| 2.17E+11 | 1.50E-04 | 2.13E+06 | 3.21E-02 | 2.15E+11 | 1.50E-04 |
| 2.03E+11 | 1.40E-04 | 1.99E+06 | 3.00E-02 | 2.01E+11 | 1.40E-04 |
| 1.88E+11 | 1.30E-04 | 1.85E+06 | 2.78E-02 | 1.86E+11 | 1.30E-04 |
| 1.74E+11 | 1.20E-04 | 1.70E+06 | 2.57E-02 | 1.72E+11 | 1.20E-04 |
| 1.59E+11 | 1.10E-04 | 1.56E+06 | 2.36E-02 | 1.58E+11 | 1.10E-04 |
| 1.45E+11 | 1.00E-04 | 1.42E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 |
| 1.30E+11 | 9.00E-05 | 1.28E+06 | 1.93E-02 | 1.29E+11 | 9.00E-05 |
| 1.16E+11 | 8.00E-05 | 1.14E+06 | 1.71E-02 | 1.15E+11 | 8.00E-05 |
| 1.01E+11 | 7.00E-05 | 9.94E+05 | 1.50E-02 | 1.00E+11 | 7.00E-05 |
| 8.69E+10 | 6.00E-05 | 8.52E+05 | 1.28E-02 | 8.59E+10 | 6.00E-05 |
| 7.24E+10 | 5.00E-05 | 7.10E+05 | 1.07E-02 | 7.16E+10 | 5.00E-05 |
| 5.79E+10 | 4.00E-05 | 5.68E+05 | 8.57E-03 | 5.73E+10 | 4.00E-05 |
| 4.35E+10 | 3.00E-05 | 4.26E+05 | 6.42E-03 | 4.30E+10 | 3.00E-05 |
| 2.90E+10 | 2.00E-05 | 2.84E+05 | 4.28E-03 | 2.87E+10 | 2.00E-05 |
| 1.45E+10 | 1.00E-05 | 1.42E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 |
| 1.30E+10 | 9.00E-06 | 1.28E+05 | 1.93E-03 | 1.29E+10 | 9.00E-06 |
| 1.16E+10 | 8.00E-06 | 1.14E+05 | 1.71E-03 | 1.15E+10 | 8.00E-06 |
| 1.01E+10 | 7.00E-06 | 9.94E+04 | 1.50E-03 | 1.00E+10 | 7.00E-06 |
| 8.69E+09 | 6.00E-06 | 8.52E+04 | 1.28E-03 | 8.60E+09 | 6.00E-06 |
| 7.24E+09 | 5.00E-06 | 7.10E+04 | 1.07E-03 | 7.16E+09 | 5.00E-06 |
| 5.79E+09 | 4.00E-06 | 5.68E+04 | 8.57E-04 | 5.73E+09 | 4.00E-06 |
| 4.35E+09 | 3.00E-06 | 4.26E+04 | 6.42E-04 | 4.30E+09 | 3.00E-06 |
| 2.90E+09 | 2.00E-06 | 2.84E+04 | 4.28E-04 | 2.87E+09 | 2.00E-06 |
| 1.45E+09 | 1.00E-06 | 1.42E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.45E+09 | -1.00E-06 | -1.42E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 |
| -2.90E+09 | -2.00E-06 | -2.84E+04 | -4.28E-04 | -2.87E+09 | -2.00E-06 |
| -4.35E+09 | -3.00E-06 | -4.26E+04 | -6.42E-04 | -4.30E+09 | -3.00E-06 |
| -5.79E+09 | -4.00E-06 | -5.68E+04 | -8.57E-04 | -5.73E+09 | -4.00E-06 |
| -7.24E+09 | -5.00E-06 | -7.10E+04 | -1.07E-03 | -7.16E+09 | -5.00E-06 |
| -8.69E+09 | -6.00E-06 | -8.52E+04 | -1.28E-03 | -8.59E+09 | -6.00E-06 |
| -1.01E+10 | -7.00E-06 | -9.94E+04 | -1.50E-03 | -1.00E+10 | -7.00E-06 |
| -1.16E+10 | -8.00E-06 | -1.14E+05 | -1.71E-03 | -1.15E+10 | -8.00E-06 |
| -1.30E+10 | -9.00E-06 | -1.28E+05 | -1.93E-03 | -1.29E+10 | -9.00E-06 |
| -1.45E+10 | -1.00E-05 | -1.42E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.90E+10 | -2.00E-05 | -2.84E+05 | -4.28E-03 | -2.87E+10 | -2.00E-05 |
| -4.35E+10 | -3.00E-05 | -4.26E+05 | -6.42E-03 | -4.30E+10 | -3.00E-05 |
| -5.79E+10 | -4.00E-05 | -5.68E+05 | -8.57E-03 | -5.73E+10 | -4.00E-05 |
| -7.24E+10 | -5.00E-05 | -7.10E+05 | -1.07E-02 | -7.16E+10 | -5.00E-05 |
| -8.69E+10 | -6.00E-05 | -8.52E+05 | -1.28E-02 | -8.59E+10 | -6.00E-05 |
| -1.01E+11 | -7.00E-05 | -9.94E+05 | -1.50E-02 | -1.00E+11 | -7.00E-05 |
| -1.16E+11 | -8.00E-05 | -1.14E+06 | -1.71E-02 | -1.15E+11 | -8.00E-05 |
| -1.30E+11 | -9.00E-05 | -1.28E+06 | -1.93E-02 | -1.29E+11 | -9.00E-05 |
| -1.45E+11 | -1.00E-04 | -1.42E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 |
| -1.59E+11 | -1.10E-04 | -1.56E+06 | -2.36E-02 | -1.58E+11 | -1.10E-04 |
| -1.74E+11 | -1.20E-04 | -1.70E+06 | -2.57E-02 | -1.72E+11 | -1.20E-04 |
| -1.88E+11 | -1.30E-04 | -1.85E+06 | -2.78E-02 | -1.86E+11 | -1.30E-04 |
| -2.03E+11 | -1.40E-04 | -1.99E+06 | -3.00E-02 | -2.01E+11 | -1.40E-04 |
| -2.17E+11 | -1.50E-04 | -2.13E+06 | -3.21E-02 | -2.15E+11 | -1.50E-04 |
| -2.32E+11 | -1.60E-04 | -2.27E+06 | -3.43E-02 | -2.29E+11 | -1.60E-04 |
| -2.46E+11 | -1.70E-04 | -2.41E+06 | -3.64E-02 | -2.44E+11 | -1.70E-04 |
| -2.61E+11 | -1.80E-04 | -2.55E+06 | -3.85E-02 | -2.58E+11 | -1.80E-04 |
| -2.75E+11 | -1.90E-04 | -2.70E+06 | -4.07E-02 | -2.72E+11 | -1.90E-04 |
| -2.90E+11 | -2.00E-04 | -2.84E+06 | -4.28E-02 | -2.86E+11 | -2.00E-04 |
| -3.04E+11 | -2.10E-04 | -2.98E+06 | -4.50E-02 | -3.01E+11 | -2.10E-04 |
| -3.19E+11 | -2.20E-04 | -3.12E+06 | -4.71E-02 | -3.15E+11 | -2.20E-04 |
| -3.33E+11 | -2.30E-04 | -3.26E+06 | -4.93E-02 | -3.29E+11 | -2.30E-04 |
| -3.48E+11 | -2.40E-04 | -3.41E+06 | -5.14E-02 | -3.44E+11 | -2.40E-04 |
| -3.62E+11 | -2.50E-04 | -3.55E+06 | -5.35E-02 | -3.58E+11 | -2.50E-04 |
| -3.77E+11 | -2.60E-04 | -3.69E+06 | -5.57E-02 | -3.72E+11 | -2.60E-04 |
| -3.91E+11 | -2.70E-04 | -3.83E+06 | -5.78E-02 | -3.87E+11 | -2.70E-04 |
| -4.06E+11 | -2.80E-04 | -3.97E+06 | -6.00E-02 | -4.01E+11 | -2.80E-04 |
| -4.20E+11 | -2.90E-04 | -4.12E+06 | -6.21E-02 | -4.15E+11 | -2.90E-04 |
| -4.34E+11 | -3.00E-04 | -4.26E+06 | -6.42E-02 | -4.30E+11 | -3.00E-04 |
| -4.49E+11 | -3.10E-04 | -4.40E+06 | -6.64E-02 | -4.44E+11 | -3.10E-04 |
| -4.63E+11 | -3.20E-04 | -4.54E+06 | -6.85E-02 | -4.58E+11 | -3.20E-04 |
| -4.78E+11 | -3.30E-04 | -4.68E+06 | -7.07E-02 | -4.73E+11 | -3.30E-04 |
| -4.92E+11 | -3.40E-04 | -4.82E+06 | -7.28E-02 | -4.87E+11 | -3.40E-04 |
| -5.07E+11 | -3.50E-04 | -4.97E+06 | -7.49E-02 | -5.01E+11 | -3.50E-04 |
| -5.21E+11 | -3.60E-04 | -5.11E+06 | -7.71E-02 | -5.16E+11 | -3.60E-04 |
| -5.36E+11 | -3.70E-04 | -5.25E+06 | -7.92E-02 | -5.30E+11 | -3.70E-04 |
| -5.50E+11 | -3.80E-04 | -5.39E+06 | -8.14E-02 | -5.44E+11 | -3.80E-04 |
| -5.65E+11 | -3.90E-04 | -5.53E+06 | -8.35E-02 | -5.59E+11 | -3.90E-04 |
| -5.79E+11 | -4.00E-04 | -5.68E+06 | -8.57E-02 | -5.73E+11 | -4.00E-04 |
| -5.94E+11 | -4.10E-04 | -5.82E+06 | -8.78E-02 | -5.87E+11 | -4.10E-04 |
| -6.08E+11 | -4.20E-04 | -5.96E+06 | -8.99E-02 | -6.01E+11 | -4.20E-04 |
| -6.23E+11 | -4.30E-04 | -6.10E+06 | -9.21E-02 | -6.16E+11 | -4.30E-04 |
| -6.37E+11 | -4.40E-04 | -6.24E+06 | -9.42E-02 | -6.30E+11 | -4.40E-04 |
| -6.52E+11 | -4.50E-04 | -6.39E+06 | -9.64E-02 | -6.44E+11 | -4.50E-04 |
| -6.66E+11 | -4.60E-04 | -6.53E+06 | -9.85E-02 | -6.59E+11 | -4.60E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.81E+11 | -4.70E-04 | -6.67E+06 | -1.01E-01 | -6.73E+11 | -4.70E-04 |
| -6.95E+11 | -4.80E-04 | -6.81E+06 | -1.03E-01 | -6.87E+11 | -4.80E-04 |
| -7.10E+11 | -4.90E-04 | -6.95E+06 | -1.05E-01 | -7.02E+11 | -4.90E-04 |
| -7.24E+11 | -5.00E-04 | -7.09E+06 | -1.07E-01 | -7.16E+11 | -5.00E-04 |
| -7.38E+11 | -5.10E-04 | -7.24E+06 | -1.09E-01 | -7.30E+11 | -5.10E-04 |
| -7.53E+11 | -5.20E-04 | -7.38E+06 | -1.11E-01 | -7.45E+11 | -5.20E-04 |
| -7.67E+11 | -5.30E-04 | -7.52E+06 | -1.13E-01 | -7.59E+11 | -5.30E-04 |
| -7.82E+11 | -5.40E-04 | -7.66E+06 | -1.16E-01 | -7.73E+11 | -5.40E-04 |
| -7.96E+11 | -5.50E-04 | -7.80E+06 | -1.18E-01 | -7.88E+11 | -5.50E-04 |
| -8.10E+11 | -5.60E-04 | -7.94E+06 | -1.20E-01 | -8.02E+11 | -5.60E-04 |
| -8.15E+11 | -5.64E-04 | -7.99E+06 | -1.21E-01 | -8.16E+11 | -5.70E-04 |
| -8.29E+11 | -5.74E-04 | -8.13E+06 | -1.23E-01 | -8.30E+11 | -5.80E-04 |
| -8.40E+11 | -5.81E-04 | -8.23E+06 | -1.24E-01 | -8.45E+11 | -5.90E-04 |
| -8.46E+11 | -5.87E-04 | -8.29E+06 | -1.26E-01 | -8.57E+11 | -5.99E-04 |
| -8.52E+11 | -5.93E-04 | -8.35E+06 | -1.27E-01 | -8.70E+11 | -6.09E-04 |
| -8.57E+11 | -5.99E-04 | -8.39E+06 | -1.28E-01 | -8.82E+11 | -6.17E-04 |
| -8.60E+11 | -6.05E-04 | -8.43E+06 | -1.30E-01 | -8.89E+11 | -6.24E-04 |
| -8.62E+11 | -6.11E-04 | -8.45E+06 | -1.31E-01 | -8.95E+11 | -6.30E-04 |
| -8.63E+11 | -6.15E-04 | -8.46E+06 | -1.32E-01 | -9.00E+11 | -6.35E-04 |
| -8.65E+11 | -6.25E-04 | -8.47E+06 | -1.34E-01 | -9.05E+11 | -6.42E-04 |
| -8.66E+11 | -6.32E-04 | -8.48E+06 | -1.35E-01 | -9.08E+11 | -6.47E-04 |
| -8.66E+11 | -6.37E-04 | -8.49E+06 | -1.36E-01 | -9.10E+11 | -6.52E-04 |
| -8.66E+11 | -6.42E-04 | -8.49E+06 | -1.37E-01 | -9.12E+11 | -6.58E-04 |
| -8.67E+11 | -6.50E-04 | -8.50E+06 | -1.39E-01 | -9.13E+11 | -6.68E-04 |
| -8.67E+11 | -6.54E-04 | -8.50E+06 | -1.40E-01 | -9.14E+11 | -6.74E-04 |
| -8.67E+11 | -6.59E-04 | -8.50E+06 | -1.41E-01 | -9.15E+11 | -6.80E-04 |
| -8.67E+11 | -6.64E-04 | -8.49E+06 | -1.42E-01 | -9.16E+11 | -6.87E-04 |
| -8.66E+11 | -6.69E-04 | -8.49E+06 | -1.43E-01 | -9.16E+11 | -6.92E-04 |
| -8.64E+11 | -6.79E-04 | -8.47E+06 | -1.45E-01 | -9.16E+11 | -6.97E-04 |
| -8.60E+11 | -6.89E-04 | -8.43E+06 | -1.47E-01 | -9.16E+11 | -7.02E-04 |
| -8.53E+11 | -6.99E-04 | -8.35E+06 | -1.50E-01 | -9.15E+11 | -7.07E-04 |
| -8.51E+11 | -7.00E-04 | -8.34E+06 | -1.50E-01 | -9.14E+11 | -7.13E-04 |
| -8.39E+11 | -7.10E-04 | -8.22E+06 | -1.52E-01 | -9.11E+11 | -7.23E-04 |
| -8.38E+11 | -7.11E-04 | -8.21E+06 | -1.52E-01 | -9.05E+11 | -7.33E-04 |
| -8.23E+11 | -7.21E-04 | -8.07E+06 | -1.54E-01 | -8.96E+11 | -7.43E-04 |
| -8.13E+11 | -7.28E-04 | -7.97E+06 | -1.56E-01 | -8.94E+11 | -7.45E-04 |
| -8.02E+11 | -7.38E-04 | -7.85E+06 | -1.58E-01 | -8.79E+11 | -7.55E-04 |
| -7.99E+11 | -7.41E-04 | -7.83E+06 | -1.59E-01 | -8.76E+11 | -7.57E-04 |
| -7.90E+11 | -7.51E-04 | -7.74E+06 | -1.61E-01 | -8.61E+11 | -7.67E-04 |
| -7.83E+11 | -7.61E-04 | -7.68E+06 | -1.63E-01 | -8.52E+11 | -7.74E-04 |
| -7.83E+11 | -7.62E-04 | -7.67E+06 | -1.63E-01 | -8.42E+11 | -7.84E-04 |
| -7.77E+11 | -7.72E-04 | -7.61E+06 | -1.65E-01 | -8.37E+11 | -7.89E-04 |
| -7.73E+11 | -7.79E-04 | -7.58E+06 | -1.67E-01 | -8.29E+11 | -7.99E-04 |
| -7.68E+11 | -7.89E-04 | -7.53E+06 | -1.69E-01 | -8.23E+11 | -8.09E-04 |
| -7.64E+11 | -7.99E-04 | -7.49E+06 | -1.71E-01 | -8.22E+11 | -8.10E-04 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -7.62E+11 | -8.04E-04 | -7.47E+06 | -1.72E-01 | -8.16E+11 | -8.20E-04 |
| -7.60E+11 | -8.10E-04 | -7.45E+06 | -1.73E-01 | -8.12E+11 | -8.30E-04 |
| -7.56E+11 | -8.20E-04 | -7.41E+06 | -1.75E-01 | -8.11E+11 | -8.31E-04 |
| -7.52E+11 | -8.30E-04 | -7.37E+06 | -1.78E-01 | -8.07E+11 | -8.41E-04 |
| -7.49E+11 | -8.40E-04 | -7.34E+06 | -1.80E-01 | -8.03E+11 | -8.51E-04 |
| -7.48E+11 | -8.42E-04 | -7.33E+06 | -1.80E-01 | -8.01E+11 | -8.55E-04 |
| -7.45E+11 | -8.52E-04 | -7.30E+06 | -1.82E-01 | -7.97E+11 | -8.64E-04 |
| -7.44E+11 | -8.54E-04 | -7.29E+06 | -1.83E-01 | -7.93E+11 | -8.74E-04 |
| -7.41E+11 | -8.64E-04 | -7.26E+06 | -1.85E-01 | -7.89E+11 | -8.84E-04 |
| -7.37E+11 | -8.74E-04 | -7.22E+06 | -1.87E-01 | -7.86E+11 | -8.94E-04 |
| -7.34E+11 | -8.84E-04 | -7.19E+06 | -1.89E-01 | -7.84E+11 | -9.00E-04 |
| -7.31E+11 | -8.94E-04 | -7.16E+06 | -1.91E-01 | -7.81E+11 | -9.09E-04 |
| -7.29E+11 | -9.00E-04 | -7.15E+06 | -1.93E-01 | -7.78E+11 | -9.19E-04 |
| -7.27E+11 | -9.09E-04 | -7.12E+06 | -1.95E-01 | -7.74E+11 | -9.29E-04 |
| -7.24E+11 | -9.19E-04 | -7.09E+06 | -1.97E-01 | -7.71E+11 | -9.39E-04 |
| -7.21E+11 | -9.29E-04 | -7.06E+06 | -1.99E-01 | -7.68E+11 | -9.49E-04 |
| -7.18E+11 | -9.39E-04 | -7.03E+06 | -2.01E-01 | -7.65E+11 | -9.59E-04 |
| -7.15E+11 | -9.49E-04 | -7.01E+06 | -2.03E-01 | -7.64E+11 | -9.62E-04 |
| -7.12E+11 | -9.59E-04 | -6.98E+06 | -2.05E-01 | -7.61E+11 | -9.72E-04 |
| -7.10E+11 | -9.68E-04 | -6.96E+06 | -2.07E-01 | -7.57E+11 | -9.82E-04 |
| -7.07E+11 | -9.78E-04 | -6.93E+06 | -2.09E-01 | -7.54E+11 | -9.92E-04 |
| -7.07E+11 | -9.78E-04 | -6.93E+06 | -2.09E-01 | -7.51E+11 | -1.00E-03 |
| -7.04E+11 | -9.88E-04 | -6.90E+06 | -2.12E-01 | -7.49E+11 | -1.01E-03 |
| -7.02E+11 | -9.98E-04 | -6.88E+06 | -2.14E-01 | -7.46E+11 | -1.02E-03 |
| -6.99E+11 | -1.01E-03 | -6.85E+06 | -2.16E-01 | -7.43E+11 | -1.03E-03 |
| -6.96E+11 | -1.02E-03 | -6.82E+06 | -2.18E-01 | -7.43E+11 | -1.03E-03 |
| -6.94E+11 | -1.03E-03 | -6.80E+06 | -2.20E-01 | -7.41E+11 | -1.04E-03 |
| -6.91E+11 | -1.04E-03 | -6.77E+06 | -2.22E-01 | -7.38E+11 | -1.05E-03 |
| -6.89E+11 | -1.05E-03 | -6.75E+06 | -2.24E-01 | -7.35E+11 | -1.06E-03 |
| -6.88E+11 | -1.05E-03 | -6.74E+06 | -2.25E-01 | -7.33E+11 | -1.07E-03 |
| -6.87E+11 | -1.06E-03 | -6.73E+06 | -2.26E-01 | -7.30E+11 | -1.08E-03 |
| -6.84E+11 | -1.07E-03 | -6.71E+06 | -2.28E-01 | -7.27E+11 | -1.09E-03 |
| -6.82E+11 | -1.08E-03 | -6.68E+06 | -2.30E-01 | -7.25E+11 | -1.10E-03 |
| -6.79E+11 | -1.09E-03 | -6.65E+06 | -2.33E-01 | -7.22E+11 | -1.11E-03 |
| -6.76E+11 | -1.10E-03 | -6.63E+06 | -2.35E-01 | -7.20E+11 | -1.12E-03 |
| -6.74E+11 | -1.11E-03 | -6.60E+06 | -2.37E-01 | -7.18E+11 | -1.13E-03 |
| -6.71E+11 | -1.12E-03 | -6.58E+06 | -2.39E-01 | -7.18E+11 | -1.13E-03 |
| -6.69E+11 | -1.13E-03 | -6.56E+06 | -2.41E-01 | -7.15E+11 | -1.14E-03 |
| -6.68E+11 | -1.13E-03 | -6.54E+06 | -2.42E-01 | -7.12E+11 | -1.15E-03 |
| -6.65E+11 | -1.14E-03 | -6.52E+06 | -2.45E-01 | -7.10E+11 | -1.16E-03 |
| -6.64E+11 | -1.15E-03 | -6.51E+06 | -2.45E-01 | -7.07E+11 | -1.17E-03 |
| -6.62E+11 | -1.16E-03 | -6.48E+06 | -2.47E-01 | -7.04E+11 | -1.18E-03 |
| -6.59E+11 | -1.17E-03 | -6.46E+06 | -2.49E-01 | -7.02E+11 | -1.19E-03 |
| -6.57E+11 | -1.18E-03 | -6.44E+06 | -2.52E-01 | -7.00E+11 | -1.20E-03 |
| -6.54E+11 | -1.19E-03 | -6.41E+06 | -2.54E-01 | -6.98E+11 | -1.21E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.52E+11 | -1.20E-03 | -6.39E+06 | -2.56E-01 | -6.96E+11 | -1.22E-03 |
| -6.50E+11 | -1.21E-03 | -6.37E+06 | -2.58E-01 | -6.93E+11 | -1.22E-03 |
| -6.48E+11 | -1.22E-03 | -6.35E+06 | -2.60E-01 | -6.91E+11 | -1.23E-03 |
| -6.45E+11 | -1.23E-03 | -6.32E+06 | -2.62E-01 | -6.88E+11 | -1.24E-03 |
| -6.45E+11 | -1.23E-03 | -6.32E+06 | -2.63E-01 | -6.86E+11 | -1.25E-03 |
| -6.43E+11 | -1.24E-03 | -6.30E+06 | -2.65E-01 | -6.83E+11 | -1.26E-03 |
| -6.40E+11 | -1.25E-03 | -6.27E+06 | -2.67E-01 | -6.81E+11 | -1.27E-03 |
| -6.40E+11 | -1.25E-03 | -6.27E+06 | -2.68E-01 | -6.79E+11 | -1.28E-03 |
| -6.37E+11 | -1.26E-03 | -6.24E+06 | -2.70E-01 | -6.77E+11 | -1.29E-03 |
| -6.35E+11 | -1.27E-03 | -6.22E+06 | -2.72E-01 | -6.74E+11 | -1.30E-03 |
| -6.33E+11 | -1.28E-03 | -6.20E+06 | -2.74E-01 | -6.74E+11 | -1.31E-03 |
| -6.31E+11 | -1.29E-03 | -6.18E+06 | -2.76E-01 | -6.72E+11 | -1.32E-03 |
| -6.28E+11 | -1.30E-03 | -6.16E+06 | -2.78E-01 | -6.69E+11 | -1.33E-03 |
| -6.26E+11 | -1.31E-03 | -6.14E+06 | -2.81E-01 | -6.67E+11 | -1.34E-03 |
| -6.24E+11 | -1.32E-03 | -6.12E+06 | -2.83E-01 | -6.65E+11 | -1.35E-03 |
| -6.22E+11 | -1.33E-03 | -6.10E+06 | -2.85E-01 | -6.63E+11 | -1.36E-03 |
| -6.22E+11 | -1.33E-03 | -6.09E+06 | -2.85E-01 | -6.60E+11 | -1.37E-03 |
| -6.20E+11 | -1.34E-03 | -6.07E+06 | -2.88E-01 | -6.58E+11 | -1.38E-03 |
| -6.18E+11 | -1.35E-03 | -6.05E+06 | -2.90E-01 | -6.56E+11 | -1.39E-03 |
| -6.16E+11 | -1.36E-03 | -6.03E+06 | -2.92E-01 | -6.54E+11 | -1.40E-03 |
| -6.14E+11 | -1.37E-03 | -6.01E+06 | -2.94E-01 | -6.52E+11 | -1.41E-03 |
| -6.12E+11 | -1.38E-03 | -5.99E+06 | -2.96E-01 | -6.50E+11 | -1.42E-03 |
| -6.11E+11 | -1.39E-03 | -5.99E+06 | -2.97E-01 | -6.49E+11 | -1.42E-03 |
| -6.09E+11 | -1.40E-03 | -5.97E+06 | -2.99E-01 | -6.47E+11 | -1.43E-03 |
| -6.07E+11 | -1.41E-03 | -5.95E+06 | -3.01E-01 | -6.45E+11 | -1.44E-03 |
| -6.05E+11 | -1.42E-03 | -5.93E+06 | -3.03E-01 | -6.43E+11 | -1.45E-03 |
| -6.03E+11 | -1.43E-03 | -5.91E+06 | -3.06E-01 | -6.41E+11 | -1.46E-03 |
| -6.01E+11 | -1.44E-03 | -5.89E+06 | -3.08E-01 | -6.39E+11 | -1.47E-03 |
| -5.99E+11 | -1.45E-03 | -5.87E+06 | -3.10E-01 | -6.37E+11 | -1.48E-03 |
| -5.98E+11 | -1.46E-03 | -5.86E+06 | -3.12E-01 | -6.37E+11 | -1.48E-03 |
| -5.96E+11 | -1.47E-03 | -5.84E+06 | -3.14E-01 | -6.35E+11 | -1.49E-03 |
| -5.94E+11 | -1.48E-03 | -5.82E+06 | -3.16E-01 | -6.33E+11 | -1.50E-03 |
| -5.92E+11 | -1.49E-03 | -5.80E+06 | -3.18E-01 | -6.31E+11 | -1.51E-03 |
| -5.90E+11 | -1.50E-03 | -5.79E+06 | -3.20E-01 | -6.29E+11 | -1.52E-03 |
| -5.89E+11 | -1.51E-03 | -5.77E+06 | -3.22E-01 | -6.27E+11 | -1.53E-03 |
| -5.87E+11 | -1.52E-03 | -5.75E+06 | -3.25E-01 | -6.25E+11 | -1.54E-03 |
| -5.85E+11 | -1.53E-03 | -5.73E+06 | -3.27E-01 | -6.24E+11 | -1.55E-03 |
| -5.83E+11 | -1.54E-03 | -5.72E+06 | -3.29E-01 | -6.22E+11 | -1.56E-03 |
| -5.82E+11 | -1.55E-03 | -5.70E+06 | -3.31E-01 | -6.20E+11 | -1.57E-03 |
| -5.80E+11 | -1.56E-03 | -5.69E+06 | -3.33E-01 | -6.18E+11 | -1.58E-03 |
| -5.79E+11 | -1.57E-03 | -5.67E+06 | -3.35E-01 | -6.17E+11 | -1.59E-03 |
| -5.78E+11 | -1.57E-03 | -5.67E+06 | -3.36E-01 | -6.15E+11 | -1.60E-03 |
| -5.77E+11 | -1.58E-03 | -5.65E+06 | -3.38E-01 | -6.13E+11 | -1.61E-03 |
| -5.75E+11 | -1.59E-03 | -5.64E+06 | -3.40E-01 | -6.11E+11 | -1.62E-03 |
| -5.74E+11 | -1.60E-03 | -5.62E+06 | -3.42E-01 | -6.10E+11 | -1.63E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.72E+11 | -1.61E-03 | -5.60E+06 | -3.44E-01 | -6.08E+11 | -1.64E-03 |
| -5.70E+11 | -1.62E-03 | -5.59E+06 | -3.46E-01 | -6.07E+11 | -1.65E-03 |
| -5.69E+11 | -1.63E-03 | -5.57E+06 | -3.49E-01 | -6.05E+11 | -1.66E-03 |
| -5.69E+11 | -1.63E-03 | -5.57E+06 | -3.49E-01 | -6.03E+11 | -1.67E-03 |
| -5.67E+11 | -1.64E-03 | -5.56E+06 | -3.51E-01 | -6.03E+11 | -1.68E-03 |
| -5.65E+11 | -1.65E-03 | -5.54E+06 | -3.53E-01 | -6.01E+11 | -1.69E-03 |
| -5.64E+11 | -1.66E-03 | -5.53E+06 | -3.55E-01 | -6.00E+11 | -1.70E-03 |
| -5.62E+11 | -1.67E-03 | -5.51E+06 | -3.57E-01 | -5.98E+11 | -1.71E-03 |
| -5.61E+11 | -1.68E-03 | -5.49E+06 | -3.60E-01 | -5.97E+11 | -1.72E-03 |
| -5.59E+11 | -1.69E-03 | -5.48E+06 | -3.62E-01 | -5.95E+11 | -1.73E-03 |
| -5.58E+11 | -1.70E-03 | -5.46E+06 | -3.64E-01 | -5.94E+11 | -1.74E-03 |
| -5.56E+11 | -1.71E-03 | -5.45E+06 | -3.66E-01 | -5.93E+11 | -1.74E-03 |
| -5.55E+11 | -1.72E-03 | -5.44E+06 | -3.68E-01 | -5.92E+11 | -1.75E-03 |
| -5.53E+11 | -1.73E-03 | -5.42E+06 | -3.70E-01 | -5.90E+11 | -1.76E-03 |
| -5.52E+11 | -1.74E-03 | -5.41E+06 | -3.72E-01 | -5.89E+11 | -1.77E-03 |
| -5.51E+11 | -1.75E-03 | -5.40E+06 | -3.75E-01 | -5.87E+11 | -1.78E-03 |
| -5.49E+11 | -1.76E-03 | -5.38E+06 | -3.77E-01 | -5.86E+11 | -1.79E-03 |
| -5.49E+11 | -1.76E-03 | -5.38E+06 | -3.77E-01 | -5.84E+11 | -1.80E-03 |
| -5.47E+11 | -1.77E-03 | -5.36E+06 | -3.79E-01 | -5.83E+11 | -1.81E-03 |
| -5.46E+11 | -1.78E-03 | -5.35E+06 | -3.82E-01 | -5.81E+11 | -1.82E-03 |
| -5.45E+11 | -1.79E-03 | -5.34E+06 | -3.84E-01 | -5.80E+11 | -1.83E-03 |
| -5.43E+11 | -1.80E-03 | -5.32E+06 | -3.86E-01 | -5.78E+11 | -1.84E-03 |
| -5.42E+11 | -1.81E-03 | -5.31E+06 | -3.88E-01 | -5.77E+11 | -1.85E-03 |
| -5.41E+11 | -1.82E-03 | -5.30E+06 | -3.90E-01 | -5.76E+11 | -1.86E-03 |
| -5.39E+11 | -1.83E-03 | -5.29E+06 | -3.92E-01 | -5.74E+11 | -1.87E-03 |
| -5.38E+11 | -1.84E-03 | -5.27E+06 | -3.94E-01 | -5.73E+11 | -1.88E-03 |
| -5.37E+11 | -1.85E-03 | -5.26E+06 | -3.96E-01 | -5.72E+11 | -1.88E-03 |
| -5.35E+11 | -1.86E-03 | -5.25E+06 | -3.99E-01 | -5.71E+11 | -1.89E-03 |
| -5.34E+11 | -1.87E-03 | -5.23E+06 | -4.01E-01 | -5.69E+11 | -1.90E-03 |
| -5.33E+11 | -1.88E-03 | -5.22E+06 | -4.03E-01 | -5.68E+11 | -1.91E-03 |
| -5.31E+11 | -1.89E-03 | -5.21E+06 | -4.05E-01 | -5.67E+11 | -1.92E-03 |
| -5.30E+11 | -1.90E-03 | -5.19E+06 | -4.07E-01 | -5.65E+11 | -1.93E-03 |
| -5.29E+11 | -1.91E-03 | -5.18E+06 | -4.09E-01 | -5.64E+11 | -1.94E-03 |
| -5.28E+11 | -1.92E-03 | -5.17E+06 | -4.11E-01 | -5.63E+11 | -1.95E-03 |
| -5.26E+11 | -1.93E-03 | -5.16E+06 | -4.13E-01 | -5.62E+11 | -1.96E-03 |
| -5.25E+11 | -1.94E-03 | -5.15E+06 | -4.16E-01 | -5.60E+11 | -1.97E-03 |
| -5.24E+11 | -1.95E-03 | -5.13E+06 | -4.18E-01 | -5.59E+11 | -1.98E-03 |
| -5.23E+11 | -1.96E-03 | -5.12E+06 | -4.20E-01 | -5.58E+11 | -1.99E-03 |
| -5.22E+11 | -1.97E-03 | -5.11E+06 | -4.22E-01 | -5.56E+11 | -2.00E-03 |
| -5.21E+11 | -1.98E-03 | -5.10E+06 | -4.24E-01 | -5.55E+11 | -2.01E-03 |
| -5.19E+11 | -1.99E-03 | -5.09E+06 | -4.26E-01 | -5.54E+11 | -2.02E-03 |
| -5.18E+11 | -2.00E-03 | -5.08E+06 | -4.28E-01 | -5.53E+11 | -2.03E-03 |
| -5.17E+11 | -2.01E-03 | -5.07E+06 | -4.31E-01 | -5.51E+11 | -2.04E-03 |
| -5.17E+11 | -2.01E-03 | -5.07E+06 | -4.31E-01 | -5.50E+11 | -2.05E-03 |
| -5.16E+11 | -2.02E-03 | -5.06E+06 | -4.33E-01 | -5.49E+11 | -2.06E-03 |

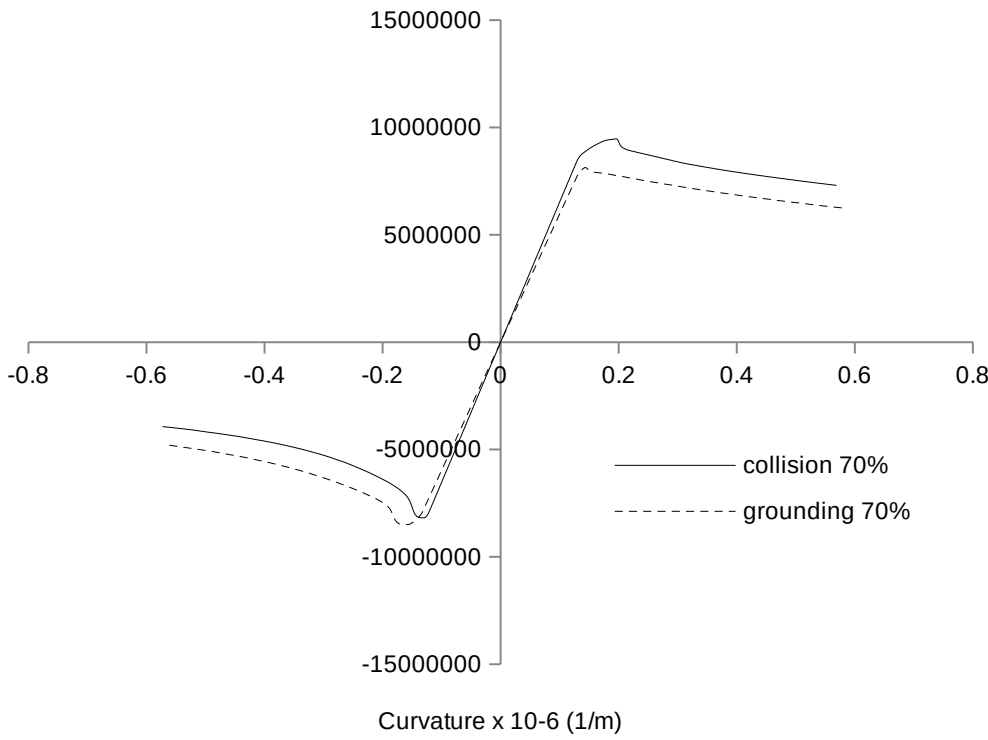
| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.15E+11 | -2.03E-03 | -5.05E+06 | -4.35E-01 | -5.48E+11 | -2.07E-03 |
| -5.14E+11 | -2.04E-03 | -5.04E+06 | -4.37E-01 | -5.47E+11 | -2.08E-03 |
| -5.13E+11 | -2.05E-03 | -5.02E+06 | -4.39E-01 | -5.46E+11 | -2.09E-03 |
| -5.12E+11 | -2.06E-03 | -5.01E+06 | -4.41E-01 | -5.45E+11 | -2.10E-03 |
| -5.10E+11 | -2.07E-03 | -5.00E+06 | -4.43E-01 | -5.43E+11 | -2.11E-03 |
| -5.09E+11 | -2.08E-03 | -4.99E+06 | -4.46E-01 | -5.42E+11 | -2.12E-03 |
| -5.08E+11 | -2.09E-03 | -4.98E+06 | -4.47E-01 | -5.41E+11 | -2.13E-03 |
| -5.07E+11 | -2.10E-03 | -4.97E+06 | -4.49E-01 | -5.40E+11 | -2.14E-03 |
| -5.06E+11 | -2.11E-03 | -4.96E+06 | -4.52E-01 | -5.39E+11 | -2.15E-03 |
| -5.05E+11 | -2.12E-03 | -4.95E+06 | -4.54E-01 | -5.38E+11 | -2.16E-03 |
| -5.04E+11 | -2.13E-03 | -4.94E+06 | -4.56E-01 | -5.37E+11 | -2.17E-03 |
| -5.03E+11 | -2.14E-03 | -4.93E+06 | -4.58E-01 | -5.36E+11 | -2.18E-03 |
| -5.02E+11 | -2.15E-03 | -4.92E+06 | -4.60E-01 | -5.35E+11 | -2.19E-03 |
| -5.01E+11 | -2.16E-03 | -4.91E+06 | -4.62E-01 | -5.34E+11 | -2.20E-03 |
| -5.00E+11 | -2.17E-03 | -4.90E+06 | -4.64E-01 | -5.33E+11 | -2.21E-03 |
| -4.99E+11 | -2.18E-03 | -4.89E+06 | -4.67E-01 | -5.32E+11 | -2.22E-03 |
| -4.98E+11 | -2.19E-03 | -4.88E+06 | -4.69E-01 | -5.31E+11 | -2.23E-03 |
| -4.97E+11 | -2.20E-03 | -4.87E+06 | -4.71E-01 | -5.30E+11 | -2.24E-03 |
| -4.96E+11 | -2.21E-03 | -4.86E+06 | -4.73E-01 | -5.29E+11 | -2.25E-03 |
| -4.95E+11 | -2.22E-03 | -4.85E+06 | -4.75E-01 | -5.28E+11 | -2.26E-03 |
| -4.94E+11 | -2.23E-03 | -4.84E+06 | -4.77E-01 | -5.27E+11 | -2.27E-03 |
| -4.93E+11 | -2.24E-03 | -4.83E+06 | -4.79E-01 | -5.26E+11 | -2.28E-03 |
| -4.92E+11 | -2.25E-03 | -4.82E+06 | -4.82E-01 | -5.25E+11 | -2.29E-03 |
| -4.91E+11 | -2.26E-03 | -4.81E+06 | -4.84E-01 | -5.24E+11 | -2.30E-03 |
| -4.90E+11 | -2.27E-03 | -4.80E+06 | -4.86E-01 | -5.23E+11 | -2.31E-03 |
| -4.89E+11 | -2.28E-03 | -4.79E+06 | -4.88E-01 | -5.22E+11 | -2.32E-03 |
| -4.88E+11 | -2.29E-03 | -4.78E+06 | -4.90E-01 | -5.21E+11 | -2.33E-03 |
| -4.87E+11 | -2.30E-03 | -4.78E+06 | -4.92E-01 | -5.20E+11 | -2.34E-03 |
| -4.86E+11 | -2.31E-03 | -4.77E+06 | -4.94E-01 | -5.19E+11 | -2.35E-03 |
| -4.86E+11 | -2.32E-03 | -4.76E+06 | -4.97E-01 | -5.18E+11 | -2.36E-03 |
| -4.85E+11 | -2.33E-03 | -4.75E+06 | -4.99E-01 | -5.17E+11 | -2.37E-03 |
| -4.84E+11 | -2.34E-03 | -4.74E+06 | -5.01E-01 | -5.16E+11 | -2.38E-03 |
| -4.84E+11 | -2.34E-03 | -4.74E+06 | -5.01E-01 | -5.15E+11 | -2.39E-03 |
| -4.83E+11 | -2.35E-03 | -4.73E+06 | -5.03E-01 | -5.14E+11 | -2.40E-03 |
| -4.82E+11 | -2.36E-03 | -4.72E+06 | -5.06E-01 | -5.13E+11 | -2.41E-03 |
| -4.81E+11 | -2.37E-03 | -4.71E+06 | -5.08E-01 | -5.12E+11 | -2.42E-03 |
| -4.80E+11 | -2.38E-03 | -4.71E+06 | -5.10E-01 | -5.12E+11 | -2.43E-03 |
| -4.79E+11 | -2.39E-03 | -4.70E+06 | -5.12E-01 | -5.11E+11 | -2.44E-03 |
| -4.79E+11 | -2.40E-03 | -4.69E+06 | -5.14E-01 | -5.10E+11 | -2.45E-03 |
| -4.78E+11 | -2.41E-03 | -4.68E+06 | -5.16E-01 | -5.09E+11 | -2.46E-03 |
| -4.77E+11 | -2.42E-03 | -4.67E+06 | -5.18E-01 | -5.08E+11 | -2.47E-03 |
| -4.76E+11 | -2.43E-03 | -4.66E+06 | -5.21E-01 | -5.07E+11 | -2.48E-03 |
| -4.76E+11 | -2.43E-03 | -4.66E+06 | -5.21E-01 | -5.07E+11 | -2.49E-03 |
| -4.75E+11 | -2.44E-03 | -4.66E+06 | -5.23E-01 | -5.06E+11 | -2.50E-03 |
| -4.74E+11 | -2.45E-03 | -4.65E+06 | -5.25E-01 | -5.05E+11 | -2.51E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.73E+11 | -2.46E-03 | -4.64E+06 | -5.27E-01 | -5.04E+11 | -2.52E-03 |
| -4.73E+11 | -2.47E-03 | -4.63E+06 | -5.29E-01 | -5.03E+11 | -2.53E-03 |
| -4.72E+11 | -2.48E-03 | -4.62E+06 | -5.31E-01 | -5.03E+11 | -2.54E-03 |
| -4.71E+11 | -2.49E-03 | -4.61E+06 | -5.33E-01 | -5.02E+11 | -2.55E-03 |
| -4.70E+11 | -2.50E-03 | -4.61E+06 | -5.35E-01 | -5.01E+11 | -2.56E-03 |
| -4.69E+11 | -2.51E-03 | -4.60E+06 | -5.37E-01 | -5.00E+11 | -2.57E-03 |
| -4.68E+11 | -2.52E-03 | -4.59E+06 | -5.39E-01 | -4.99E+11 | -2.58E-03 |
| -4.67E+11 | -2.53E-03 | -4.58E+06 | -5.42E-01 | -4.99E+11 | -2.59E-03 |
| -4.67E+11 | -2.54E-03 | -4.57E+06 | -5.44E-01 | -4.98E+11 | -2.60E-03 |
| -4.66E+11 | -2.55E-03 | -4.56E+06 | -5.46E-01 | -4.98E+11 | -2.60E-03 |
| -4.65E+11 | -2.56E-03 | -4.56E+06 | -5.48E-01 | -4.97E+11 | -2.61E-03 |
| -4.64E+11 | -2.57E-03 | -4.55E+06 | -5.50E-01 | -4.96E+11 | -2.62E-03 |
| -4.63E+11 | -2.58E-03 | -4.54E+06 | -5.52E-01 | -4.95E+11 | -2.63E-03 |
| -4.63E+11 | -2.59E-03 | -4.53E+06 | -5.54E-01 | -4.95E+11 | -2.64E-03 |
| -4.62E+11 | -2.60E-03 | -4.53E+06 | -5.57E-01 | -4.94E+11 | -2.65E-03 |
| -4.61E+11 | -2.61E-03 | -4.52E+06 | -5.59E-01 | -4.93E+11 | -2.66E-03 |
| -4.60E+11 | -2.62E-03 | -4.51E+06 | -5.61E-01 | -4.92E+11 | -2.67E-03 |
| -4.60E+11 | -2.63E-03 | -4.50E+06 | -5.63E-01 | -4.91E+11 | -2.68E-03 |
| -4.59E+11 | -2.64E-03 | -4.50E+06 | -5.65E-01 | -4.90E+11 | -2.69E-03 |

% kandas

70% tubrukan

| 9.80E-06 | 1.00E-06 | 4670 | 9.80E-06 | 1.00E-06 | |
|----------|-----------|----------|----------|----------|-----------|
| Momen | Curvature | Momen | Rotasi | Momen | Curvature |
| 7.14E+06 | 5.80E-01 | 7.45E+11 | 2.66E-03 | 7.30E+06 | 5.69E-01 |
| 7.14E | | | | | |
| 7.15E | | | | | |
| 7.16E | | | | | |
| 7.16E | | | | | |
| 7.17E | | | | | |
| 7.18E | | | | | |
| 7.19E | | | | | |
| 7.19E | | | | | |
| 7.20E | | | | | |
| 7.21E | | | | | |
| 7.22E | | | | | |
| 7.22E | | | | | |
| 7.23E | | | | | |
| 7.23E | | | | | |
| 7.24E | | | | | |
| 7.25E | | | | | |
| 7.25E | | | | | |
| 7.26E | | | | | |
| 7.27E | | | | | |
| 7.27E | | | | | |
| 7.28E+06 | 5.36E-01 | 7.60E+11 | 2.45E-03 | 7.45E+06 | 5.24E-01 |
| 7.29E+06 | 5.34E-01 | 7.61E+11 | 2.44E-03 | 7.46E+06 | 5.22E-01 |
| 7.30E+06 | 5.31E-01 | 7.62E+11 | 2.43E-03 | 7.46E+06 | 5.21E-01 |
| 7.30E+06 | 5.29E-01 | 7.62E+11 | 2.42E-03 | 7.47E+06 | 5.19E-01 |
| 7.31E+06 | 5.27E-01 | 7.63E+11 | 2.41E-03 | 7.48E+06 | 5.17E-01 |
| 7.32E+06 | 5.25E-01 | 7.64E+11 | 2.40E-03 | 7.49E+06 | 5.15E-01 |
| 7.32E+06 | 5.23E-01 | 7.65E+11 | 2.39E-03 | 7.49E+06 | 5.12E-01 |
| 7.33E+06 | 5.21E-01 | 7.65E+11 | 2.38E-03 | 7.50E+06 | 5.10E-01 |
| 7.33E+06 | 5.20E-01 | 7.66E+11 | 2.37E-03 | 7.51E+06 | 5.08E-01 |
| 7.34E+06 | 5.18E-01 | 7.67E+11 | 2.36E-03 | 7.51E+06 | 5.06E-01 |
| 7.35E+06 | 5.15E-01 | 7.68E+11 | 2.35E-03 | 7.52E+06 | 5.04E-01 |
| 7.36E+06 | 5.13E-01 | 7.68E+11 | 2.34E-03 | 7.53E+06 | 5.02E-01 |
| 7.36E+06 | 5.11E-01 | 7.69E+11 | 2.33E-03 | 7.54E+06 | 5.00E-01 |
| 7.37E+06 | 5.09E-01 | 7.70E+11 | 2.32E-03 | 7.55E+06 | 4.97E-01 |
| 7.38E+06 | 5.07E-01 | 7.71E+11 | 2.31E-03 | 7.55E+06 | 4.95E-01 |
| 7.39E+06 | 5.05E-01 | 7.72E+11 | 2.30E-03 | 7.56E+06 | 4.93E-01 |
| 7.39E+06 | 5.03E-01 | 7.72E+11 | 2.30E-03 | 7.57E+06 | 4.92E-01 |
| 7.40E+06 | 5.00E-01 | 7.73E+11 | 2.29E-03 | 7.57E+06 | 4.90E-01 |
| 7.41E+06 | 4.98E-01 | 7.74E+11 | 2.28E-03 | 7.58E+06 | 4.88E-01 |



| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.42E+06 | 4.96E-01 | 7.74E+11 | 2.27E-03 | 7.59E+06 | 4.86E-01 |
| 7.42E+06 | 4.94E-01 | 7.75E+11 | 2.26E-03 | 7.60E+06 | 4.84E-01 |
| 7.43E+06 | 4.92E-01 | 7.76E+11 | 2.25E-03 | 7.60E+06 | 4.81E-01 |
| 7.44E+06 | 4.90E-01 | 7.77E+11 | 2.24E-03 | 7.61E+06 | 4.79E-01 |
| 7.45E+06 | 4.88E-01 | 7.78E+11 | 2.23E-03 | 7.62E+06 | 4.77E-01 |
| 7.46E+06 | 4.86E-01 | 7.78E+11 | 2.22E-03 | 7.63E+06 | 4.75E-01 |
| 7.46E+06 | 4.84E-01 | 7.79E+11 | 2.21E-03 | 7.64E+06 | 4.73E-01 |
| 7.47E+06 | 4.81E-01 | 7.80E+11 | 2.20E-03 | 7.64E+06 | 4.71E-01 |
| 7.48E+06 | 4.79E-01 | 7.80E+11 | 2.20E-03 | 7.65E+06 | 4.70E-01 |
| 7.49E+06 | 4.77E-01 | 7.81E+11 | 2.19E-03 | 7.65E+06 | 4.68E-01 |
| 7.49E+06 | 4.75E-01 | 7.82E+11 | 2.18E-03 | 7.66E+06 | 4.66E-01 |
| 7.50E+06 | 4.73E-01 | 7.83E+11 | 2.17E-03 | 7.67E+06 | 4.64E-01 |
| 7.51E+06 | 4.71E-01 | 7.83E+11 | 2.16E-03 | 7.68E+06 | 4.62E-01 |
| 7.51E+06 | 4.69E-01 | 7.84E+11 | 2.15E-03 | 7.68E+06 | 4.60E-01 |
| 7.52E+06 | 4.66E-01 | 7.85E+11 | 2.14E-03 | 7.69E+06 | 4.58E-01 |
| 7.53E+06 | 4.64E-01 | 7.86E+11 | 2.13E-03 | 7.70E+06 | 4.55E-01 |
| 7.54E+06 | 4.62E-01 | 7.87E+11 | 2.12E-03 | 7.71E+06 | 4.53E-01 |
| 7.54E+06 | 4.60E-01 | 7.87E+11 | 2.11E-03 | 7.72E+06 | 4.51E-01 |
| 7.55E+06 | 4.58E-01 | 7.88E+11 | 2.10E-03 | 7.72E+06 | 4.49E-01 |
| 7.56E+06 | 4.56E-01 | 7.89E+11 | 2.09E-03 | 7.73E+06 | 4.47E-01 |
| 7.56E+06 | 4.55E-01 | 7.90E+11 | 2.08E-03 | 7.74E+06 | 4.45E-01 |
| 7.57E+06 | 4.53E-01 | 7.91E+11 | 2.07E-03 | 7.75E+06 | 4.43E-01 |
| 7.58E+06 | 4.51E-01 | 7.92E+11 | 2.06E-03 | 7.76E+06 | 4.40E-01 |
| 7.59E+06 | 4.49E-01 | 7.92E+11 | 2.05E-03 | 7.76E+06 | 4.38E-01 |
| 7.59E+06 | 4.47E-01 | 7.93E+11 | 2.04E-03 | 7.77E+06 | 4.36E-01 |
| 7.60E+06 | 4.45E-01 | 7.94E+11 | 2.03E-03 | 7.78E+06 | 4.34E-01 |
| 7.61E+06 | 4.43E-01 | 7.95E+11 | 2.02E-03 | 7.79E+06 | 4.32E-01 |
| 7.62E+06 | 4.40E-01 | 7.96E+11 | 2.01E-03 | 7.80E+06 | 4.30E-01 |
| 7.63E+06 | 4.38E-01 | 7.97E+11 | 2.00E-03 | 7.81E+06 | 4.28E-01 |
| 7.64E+06 | 4.36E-01 | 7.98E+11 | 1.99E-03 | 7.82E+06 | 4.25E-01 |
| 7.64E+06 | 4.34E-01 | 7.98E+11 | 1.98E-03 | 7.82E+06 | 4.23E-01 |
| 7.65E+06 | 4.32E-01 | 7.99E+11 | 1.98E-03 | 7.83E+06 | 4.23E-01 |
| 7.66E+06 | 4.30E-01 | 7.99E+11 | 1.97E-03 | 7.83E+06 | 4.21E-01 |
| 7.67E+06 | 4.28E-01 | 8.00E+11 | 1.96E-03 | 7.84E+06 | 4.19E-01 |
| 7.67E+06 | 4.26E-01 | 8.01E+11 | 1.95E-03 | 7.85E+06 | 4.16E-01 |
| 7.68E+06 | 4.24E-01 | 8.02E+11 | 1.94E-03 | 7.86E+06 | 4.14E-01 |
| 7.69E+06 | 4.22E-01 | 8.03E+11 | 1.93E-03 | 7.87E+06 | 4.12E-01 |
| 7.70E+06 | 4.20E-01 | 8.04E+11 | 1.92E-03 | 7.88E+06 | 4.10E-01 |
| 7.71E+06 | 4.18E-01 | 8.05E+11 | 1.91E-03 | 7.89E+06 | 4.08E-01 |
| 7.71E+06 | 4.15E-01 | 8.06E+11 | 1.90E-03 | 7.89E+06 | 4.06E-01 |
| 7.72E+06 | 4.13E-01 | 8.06E+11 | 1.89E-03 | 7.90E+06 | 4.04E-01 |
| 7.73E+06 | 4.11E-01 | 8.07E+11 | 1.88E-03 | 7.91E+06 | 4.01E-01 |
| 7.74E+06 | 4.09E-01 | 8.08E+11 | 1.87E-03 | 7.92E+06 | 4.00E-01 |
| 7.75E+06 | 4.07E-01 | 8.09E+11 | 1.86E-03 | 7.93E+06 | 3.98E-01 |
| 7.76E+06 | 4.05E-01 | 8.10E+11 | 1.85E-03 | 7.93E+06 | 3.96E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 7.76E+06 | 4.03E-01 | 8.11E+11 | 1.84E-03 | 7.94E+06 | 3.94E-01 |
| 7.77E+06 | 4.00E-01 | 8.12E+11 | 1.83E-03 | 7.95E+06 | 3.91E-01 |
| 7.78E+06 | 3.98E-01 | 8.12E+11 | 1.82E-03 | 7.96E+06 | 3.89E-01 |
| 7.79E+06 | 3.96E-01 | 8.13E+11 | 1.81E-03 | 7.97E+06 | 3.87E-01 |
| 7.80E+06 | 3.94E-01 | 8.14E+11 | 1.80E-03 | 7.98E+06 | 3.85E-01 |
| 7.81E+06 | 3.92E-01 | 8.15E+11 | 1.79E-03 | 7.99E+06 | 3.83E-01 |
| 7.82E+06 | 3.90E-01 | 8.16E+11 | 1.78E-03 | 8.00E+06 | 3.81E-01 |
| 7.83E+06 | 3.88E-01 | 8.17E+11 | 1.77E-03 | 8.01E+06 | 3.79E-01 |
| 7.84E+06 | 3.85E-01 | 8.18E+11 | 1.76E-03 | 8.02E+06 | 3.77E-01 |
| 7.84E+06 | 3.85E-01 | 8.19E+11 | 1.75E-03 | 8.03E+06 | 3.75E-01 |
| 7.85E+06 | 3.83E-01 | 8.20E+11 | 1.74E-03 | 8.04E+06 | 3.73E-01 |
| 7.85E+06 | 3.81E-01 | 8.21E+11 | 1.73E-03 | 8.04E+06 | 3.70E-01 |
| 7.86E+06 | 3.79E-01 | 8.22E+11 | 1.72E-03 | 8.05E+06 | 3.68E-01 |
| 7.87E+06 | 3.76E-01 | 8.23E+11 | 1.71E-03 | 8.06E+06 | 3.66E-01 |
| 7.88E+06 | 3.74E-01 | 8.23E+11 | 1.71E-03 | 8.07E+06 | 3.66E-01 |
| 7.89E+06 | 3.72E-01 | 8.24E+11 | 1.70E-03 | 8.08E+06 | 3.64E-01 |
| 7.90E+06 | 3.70E-01 | 8.25E+11 | 1.69E-03 | 8.08E+06 | 3.61E-01 |
| 7.91E+06 | 3.68E-01 | 8.26E+11 | 1.68E-03 | 8.09E+06 | 3.59E-01 |
| 7.92E+06 | 3.66E-01 | 8.27E+11 | 1.67E-03 | 8.10E+06 | 3.57E-01 |
| 7.93E+06 | 3.64E-01 | 8.28E+11 | 1.66E-03 | 8.12E+06 | 3.55E-01 |
| 7.93E+06 | 3.61E-01 | 8.29E+11 | 1.65E-03 | 8.13E+06 | 3.53E-01 |
| 7.94E+06 | 3.61E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 | 3.51E-01 |
| 7.94E+06 | 3.59E-01 | 8.30E+11 | 1.64E-03 | 8.13E+06 | 3.51E-01 |
| 7.95E+06 | 3.57E-01 | 8.31E+11 | 1.63E-03 | 8.14E+06 | 3.49E-01 |
| 7.96E+06 | 3.54E-01 | 8.32E+11 | 1.62E-03 | 8.15E+06 | 3.46E-01 |
| 7.97E+06 | 3.52E-01 | 8.33E+11 | 1.61E-03 | 8.17E+06 | 3.44E-01 |
| 7.98E+06 | 3.50E-01 | 8.34E+11 | 1.60E-03 | 8.18E+06 | 3.42E-01 |
| 7.99E+06 | 3.48E-01 | 8.35E+11 | 1.59E-03 | 8.19E+06 | 3.40E-01 |
| 8.00E+06 | 3.46E-01 | 8.36E+11 | 1.58E-03 | 8.20E+06 | 3.38E-01 |
| 8.01E+06 | 3.44E-01 | 8.38E+11 | 1.57E-03 | 8.21E+06 | 3.36E-01 |
| 8.02E+06 | 3.42E-01 | 8.38E+11 | 1.56E-03 | 8.21E+06 | 3.34E-01 |
| 8.03E+06 | 3.40E-01 | 8.39E+11 | 1.55E-03 | 8.23E+06 | 3.32E-01 |
| 8.04E+06 | 3.38E-01 | 8.41E+11 | 1.54E-03 | 8.24E+06 | 3.30E-01 |
| 8.04E+06 | 3.36E-01 | 8.42E+11 | 1.53E-03 | 8.25E+06 | 3.28E-01 |
| 8.05E+06 | 3.33E-01 | 8.43E+11 | 1.52E-03 | 8.26E+06 | 3.25E-01 |
| 8.06E+06 | 3.31E-01 | 8.44E+11 | 1.51E-03 | 8.27E+06 | 3.24E-01 |
| 8.07E+06 | 3.29E-01 | 8.45E+11 | 1.50E-03 | 8.28E+06 | 3.22E-01 |
| 8.08E+06 | 3.27E-01 | 8.46E+11 | 1.49E-03 | 8.29E+06 | 3.20E-01 |
| 8.09E+06 | 3.25E-01 | 8.47E+11 | 1.48E-03 | 8.30E+06 | 3.18E-01 |
| 8.10E+06 | 3.23E-01 | 8.48E+11 | 1.47E-03 | 8.31E+06 | 3.15E-01 |
| 8.11E+06 | 3.21E-01 | 8.49E+11 | 1.46E-03 | 8.32E+06 | 3.13E-01 |
| 8.12E+06 | 3.19E-01 | 8.50E+11 | 1.45E-03 | 8.33E+06 | 3.11E-01 |
| 8.13E+06 | 3.16E-01 | 8.52E+11 | 1.44E-03 | 8.34E+06 | 3.09E-01 |
| 8.14E+06 | 3.14E-01 | 8.52E+11 | 1.44E-03 | 8.35E+06 | 3.08E-01 |
| 8.15E+06 | 3.12E-01 | 8.53E+11 | 1.43E-03 | 8.36E+06 | 3.06E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.16E+06 | 3.10E-01 | 8.55E+11 | 1.42E-03 | 8.37E+06 | 3.04E-01 |
| 8.16E+06 | 3.09E-01 | 8.56E+11 | 1.41E-03 | 8.39E+06 | 3.02E-01 |
| 8.17E+06 | 3.07E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 | 3.00E-01 |
| 8.18E+06 | 3.05E-01 | 8.57E+11 | 1.40E-03 | 8.40E+06 | 3.00E-01 |
| 8.19E+06 | 3.03E-01 | 8.59E+11 | 1.39E-03 | 8.41E+06 | 2.98E-01 |
| 8.20E+06 | 3.01E-01 | 8.60E+11 | 1.38E-03 | 8.43E+06 | 2.96E-01 |
| 8.21E+06 | 2.99E-01 | 8.61E+11 | 1.37E-03 | 8.44E+06 | 2.93E-01 |
| 8.22E+06 | 2.97E-01 | 8.63E+11 | 1.36E-03 | 8.46E+06 | 2.91E-01 |
| 8.23E+06 | 2.94E-01 | 8.64E+11 | 1.35E-03 | 8.47E+06 | 2.89E-01 |
| 8.24E+06 | 2.92E-01 | 8.66E+11 | 1.34E-03 | 8.48E+06 | 2.87E-01 |
| 8.26E+06 | 2.90E-01 | 8.66E+11 | 1.34E-03 | 8.49E+06 | 2.87E-01 |
| 8.26E+06 | 2.90E-01 | 8.67E+11 | 1.33E-03 | 8.50E+06 | 2.84E-01 |
| 8.27E+06 | 2.88E-01 | 8.69E+11 | 1.32E-03 | 8.51E+06 | 2.82E-01 |
| 8.28E+06 | 2.85E-01 | 8.70E+11 | 1.31E-03 | 8.53E+06 | 2.80E-01 |
| 8.29E+06 | 2.83E-01 | 8.71E+11 | 1.30E-03 | 8.54E+06 | 2.78E-01 |
| 8.30E+06 | 2.81E-01 | 8.72E+11 | 1.30E-03 | 8.54E+06 | 2.78E-01 |
| 8.31E+06 | 2.80E-01 | 8.73E+11 | 1.29E-03 | 8.56E+06 | 2.75E-01 |
| 8.32E+06 | 2.78E-01 | 8.75E+11 | 1.28E-03 | 8.57E+06 | 2.73E-01 |
| 8.33E+06 | 2.76E-01 | 8.76E+11 | 1.27E-03 | 8.58E+06 | 2.71E-01 |
| 8.34E+06 | 2.73E-01 | 8.78E+11 | 1.26E-03 | 8.60E+06 | 2.69E-01 |
| 8.35E+06 | 2.71E-01 | 8.79E+11 | 1.25E-03 | 8.62E+06 | 2.67E-01 |
| 8.36E+06 | 2.69E-01 | 8.79E+11 | 1.24E-03 | 8.62E+06 | 2.66E-01 |
| 8.37E+06 | 2.67E-01 | 8.81E+11 | 1.23E-03 | 8.63E+06 | 2.64E-01 |
| 8.38E+06 | 2.65E-01 | 8.82E+11 | 1.22E-03 | 8.64E+06 | 2.62E-01 |
| 8.39E+06 | 2.63E-01 | 8.83E+11 | 1.21E-03 | 8.66E+06 | 2.60E-01 |
| 8.41E+06 | 2.61E-01 | 8.85E+11 | 1.20E-03 | 8.67E+06 | 2.58E-01 |
| 8.42E+06 | 2.59E-01 | 8.86E+11 | 1.20E-03 | 8.68E+06 | 2.56E-01 |
| 8.43E+06 | 2.57E-01 | 8.87E+11 | 1.19E-03 | 8.69E+06 | 2.54E-01 |
| 8.43E+06 | 2.57E-01 | 8.89E+11 | 1.18E-03 | 8.71E+06 | 2.52E-01 |
| 8.44E+06 | 2.55E-01 | 8.90E+11 | 1.17E-03 | 8.72E+06 | 2.50E-01 |
| 8.45E+06 | 2.52E-01 | 8.91E+11 | 1.16E-03 | 8.74E+06 | 2.48E-01 |
| 8.46E+06 | 2.50E-01 | 8.93E+11 | 1.15E-03 | 8.75E+06 | 2.46E-01 |
| 8.48E+06 | 2.48E-01 | 8.94E+11 | 1.14E-03 | 8.76E+06 | 2.44E-01 |
| 8.49E+06 | 2.46E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 | 2.42E-01 |
| 8.50E+06 | 2.44E-01 | 8.96E+11 | 1.13E-03 | 8.78E+06 | 2.41E-01 |
| 8.51E+06 | 2.42E-01 | 8.97E+11 | 1.12E-03 | 8.79E+06 | 2.39E-01 |
| 8.52E+06 | 2.40E-01 | 8.98E+11 | 1.11E-03 | 8.80E+06 | 2.37E-01 |
| 8.54E+06 | 2.38E-01 | 9.00E+11 | 1.10E-03 | 8.82E+06 | 2.34E-01 |
| 8.55E+06 | 2.36E-01 | 9.02E+11 | 1.09E-03 | 8.83E+06 | 2.32E-01 |
| 8.56E+06 | 2.34E-01 | 9.03E+11 | 1.08E-03 | 8.85E+06 | 2.30E-01 |
| 8.57E+06 | 2.32E-01 | 9.04E+11 | 1.07E-03 | 8.85E+06 | 2.29E-01 |
| 8.58E+06 | 2.30E-01 | 9.05E+11 | 1.06E-03 | 8.87E+06 | 2.27E-01 |
| 8.60E+06 | 2.28E-01 | 9.07E+11 | 1.05E-03 | 8.88E+06 | 2.25E-01 |
| 8.61E+06 | 2.26E-01 | 9.07E+11 | 1.04E-03 | 8.89E+06 | 2.24E-01 |
| 8.62E+06 | 2.24E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 | 2.21E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 8.64E+06 | 2.22E-01 | 9.09E+11 | 1.03E-03 | 8.91E+06 | 2.21E-01 |
| 8.65E+06 | 2.19E-01 | 9.11E+11 | 1.02E-03 | 8.92E+06 | 2.19E-01 |
| 8.66E+06 | 2.17E-01 | 9.12E+11 | 1.01E-03 | 8.94E+06 | 2.17E-01 |
| 8.67E+06 | 2.17E-01 | 9.14E+11 | 1.00E-03 | 8.96E+06 | 2.15E-01 |
| 8.68E+06 | 2.15E-01 | 9.16E+11 | 9.93E-04 | 8.98E+06 | 2.13E-01 |
| 8.70E+06 | 2.12E-01 | 9.19E+11 | 9.83E-04 | 9.01E+06 | 2.10E-01 |
| 8.71E+06 | 2.10E-01 | 9.20E+11 | 9.79E-04 | 9.02E+06 | 2.10E-01 |
| 8.73E+06 | 2.08E-01 | 9.23E+11 | 9.69E-04 | 9.05E+06 | 2.07E-01 |
| 8.74E+06 | 2.06E-01 | 9.24E+11 | 9.65E-04 | 9.06E+06 | 2.07E-01 |
| 8.76E+06 | 2.04E-01 | 9.27E+11 | 9.57E-04 | 9.09E+06 | 2.05E-01 |
| 8.78E+06 | 2.02E-01 | 9.29E+11 | 9.53E-04 | 9.11E+06 | 2.04E-01 |
| 8.78E+06 | 2.01E-01 | 9.40E+11 | 9.43E-04 | 9.21E+06 | 2.02E-01 |
| 8.79E+06 | 1.99E-01 | 9.53E+11 | 9.33E-04 | 9.34E+06 | 2.00E-01 |
| 8.80E+06 | 1.97E-01 | 9.54E+11 | 9.33E-04 | 9.35E+06 | 2.00E-01 |
| 8.82E+06 | 1.95E-01 | 9.65E+11 | 9.23E-04 | 9.45E+06 | 1.98E-01 |
| 8.84E+06 | 1.93E-01 | 9.66E+11 | 9.20E-04 | 9.47E+06 | 1.97E-01 |
| 8.84E+06 | 1.92E-01 | 9.66E+11 | 9.10E-04 | 9.46E+06 | 1.95E-01 |
| 8.86E+06 | 1.90E-01 | 9.65E+11 | 9.00E-04 | 9.46E+06 | 1.93E-01 |
| 8.88E+06 | 1.87E-01 | 9.65E+11 | 8.94E-04 | 9.46E+06 | 1.91E-01 |
| 8.88E+06 | 1.87E-01 | 9.64E+11 | 8.84E-04 | 9.45E+06 | 1.89E-01 |
| 8.90E+06 | 1.84E-01 | 9.63E+11 | 8.74E-04 | 9.44E+06 | 1.87E-01 |
| 8.91E+06 | 1.82E-01 | 9.63E+11 | 8.69E-04 | 9.44E+06 | 1.86E-01 |
| 8.92E+06 | 1.81E-01 | 9.62E+11 | 8.59E-04 | 9.43E+06 | 1.84E-01 |
| 8.93E+06 | 1.79E-01 | 9.61E+11 | 8.49E-04 | 9.42E+06 | 1.82E-01 |
| 8.95E+06 | 1.77E-01 | 9.61E+11 | 8.48E-04 | 9.42E+06 | 1.82E-01 |
| 8.97E+06 | 1.75E-01 | 9.60E+11 | 8.38E-04 | 9.41E+06 | 1.79E-01 |
| 8.97E+06 | 1.75E-01 | 9.58E+11 | 8.28E-04 | 9.39E+06 | 1.77E-01 |
| 8.98E+06 | 1.73E-01 | 9.56E+11 | 8.18E-04 | 9.37E+06 | 1.75E-01 |
| 9.01E+06 | 1.70E-01 | 9.55E+11 | 8.10E-04 | 9.35E+06 | 1.73E-01 |
| 9.01E+06 | 1.70E-01 | 9.52E+11 | 8.00E-04 | 9.33E+06 | 1.71E-01 |
| 9.03E+06 | 1.68E-01 | 9.49E+11 | 7.90E-04 | 9.30E+06 | 1.69E-01 |
| 9.05E+06 | 1.67E-01 | 9.47E+11 | 7.82E-04 | 9.28E+06 | 1.67E-01 |
| 9.07E+06 | 1.65E-01 | 9.44E+11 | 7.72E-04 | 9.25E+06 | 1.65E-01 |
| 9.10E+06 | 1.63E-01 | 9.41E+11 | 7.62E-04 | 9.22E+06 | 1.63E-01 |
| 9.14E+06 | 1.61E-01 | 9.38E+11 | 7.52E-04 | 9.19E+06 | 1.61E-01 |
| 9.18E+06 | 1.60E-01 | 9.34E+11 | 7.42E-04 | 9.16E+06 | 1.59E-01 |
| 9.21E+06 | 1.59E-01 | 9.32E+11 | 7.36E-04 | 9.14E+06 | 1.58E-01 |
| 9.32E+06 | 1.57E-01 | 9.29E+11 | 7.26E-04 | 9.10E+06 | 1.56E-01 |
| 9.37E+06 | 1.55E-01 | 9.25E+11 | 7.16E-04 | 9.07E+06 | 1.53E-01 |
| 9.39E+06 | 1.54E-01 | 9.21E+11 | 7.06E-04 | 9.03E+06 | 1.51E-01 |
| 9.40E+06 | 1.54E-01 | 9.18E+11 | 6.98E-04 | 9.00E+06 | 1.49E-01 |
| 9.38E+06 | 1.52E-01 | 9.16E+11 | 6.93E-04 | 8.98E+06 | 1.48E-01 |
| 9.36E+06 | 1.50E-01 | 9.12E+11 | 6.83E-04 | 8.94E+06 | 1.46E-01 |
| 9.32E+06 | 1.48E-01 | 9.08E+11 | 6.73E-04 | 8.90E+06 | 1.44E-01 |
| 9.32E+06 | 1.47E-01 | 9.05E+11 | 6.67E-04 | 8.87E+06 | 1.43E-01 |

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 9.28E+06 | 1.45E-01 | 9.03E+11 | 6.62E-04 | 8.85E+06 | 1.42E-01 |
| 9.24E+06 | 1.43E-01 | 9.00E+11 | 6.57E-04 | 8.82E+06 | 1.41E-01 |
| 9.21E+06 | 1.42E-01 | 8.96E+11 | 6.48E-04 | 8.78E+06 | 1.39E-01 |
| 9.17E+06 | 1.41E-01 | 8.92E+11 | 6.40E-04 | 8.74E+06 | 1.37E-01 |
| 9.12E+06 | 1.39E-01 | 8.90E+11 | 6.35E-04 | 8.72E+06 | 1.36E-01 |
| 9.02E+06 | 1.38E-01 | 8.86E+11 | 6.30E-04 | 8.69E+06 | 1.35E-01 |
| 8.98E+06 | 1.37E-01 | 8.82E+11 | 6.25E-04 | 8.65E+06 | 1.34E-01 |
| 8.84E+06 | 1.35E-01 | 8.75E+11 | 6.16E-04 | 8.57E+06 | 1.32E-01 |
| 8.70E+06 | 1.33E-01 | 8.67E+11 | 6.10E-04 | 8.50E+06 | 1.31E-01 |
| 8.56E+06 | 1.31E-01 | 8.60E+11 | 6.03E-04 | 8.43E+06 | 1.29E-01 |
| 8.42E+06 | 1.28E-01 | 8.51E+11 | 5.97E-04 | 8.34E+06 | 1.28E-01 |
| 8.28E+06 | 1.26E-01 | 8.41E+11 | 5.90E-04 | 8.25E+06 | 1.26E-01 |
| 8.14E+06 | 1.24E-01 | 8.27E+11 | 5.80E-04 | 8.11E+06 | 1.24E-01 |
| 8.00E+06 | 1.22E-01 | 8.13E+11 | 5.70E-04 | 7.97E+06 | 1.22E-01 |
| 7.86E+06 | 1.20E-01 | 7.99E+11 | 5.60E-04 | 7.83E+06 | 1.20E-01 |
| 7.72E+06 | 1.18E-01 | 7.84E+11 | 5.50E-04 | 7.69E+06 | 1.18E-01 |
| 7.58E+06 | 1.16E-01 | 7.70E+11 | 5.40E-04 | 7.55E+06 | 1.16E-01 |
| 7.44E+06 | 1.13E-01 | 7.56E+11 | 5.30E-04 | 7.41E+06 | 1.13E-01 |
| 7.30E+06 | 1.11E-01 | 7.42E+11 | 5.20E-04 | 7.27E+06 | 1.11E-01 |
| 7.16E+06 | 1.09E-01 | 7.27E+11 | 5.10E-04 | 7.13E+06 | 1.09E-01 |
| 7.02E+06 | 1.07E-01 | 7.13E+11 | 5.00E-04 | 6.99E+06 | 1.07E-01 |
| 6.88E+06 | 1.05E-01 | 6.99E+11 | 4.90E-04 | 6.85E+06 | 1.05E-01 |
| 6.74E+06 | 1.03E-01 | 6.85E+11 | 4.80E-04 | 6.71E+06 | 1.03E-01 |
| 6.60E+06 | 1.01E-01 | 6.70E+11 | 4.70E-04 | 6.57E+06 | 1.01E-01 |
| 6.46E+06 | 9.85E-02 | 6.56E+11 | 4.60E-04 | 6.43E+06 | 9.85E-02 |
| 6.32E+06 | 9.64E-02 | 6.42E+11 | 4.50E-04 | 6.29E+06 | 9.64E-02 |
| 6.18E+06 | 9.42E-02 | 6.28E+11 | 4.40E-04 | 6.15E+06 | 9.42E-02 |
| 6.04E+06 | 9.21E-02 | 6.13E+11 | 4.30E-04 | 6.01E+06 | 9.21E-02 |
| 5.89E+06 | 8.99E-02 | 5.99E+11 | 4.20E-04 | 5.87E+06 | 8.99E-02 |
| 5.75E+06 | 8.78E-02 | 5.85E+11 | 4.10E-04 | 5.73E+06 | 8.78E-02 |
| 5.61E+06 | 8.57E-02 | 5.71E+11 | 4.00E-04 | 5.59E+06 | 8.57E-02 |
| 5.47E+06 | 8.35E-02 | 5.56E+11 | 3.90E-04 | 5.45E+06 | 8.35E-02 |
| 5.33E+06 | 8.14E-02 | 5.42E+11 | 3.80E-04 | 5.31E+06 | 8.14E-02 |
| 5.19E+06 | 7.92E-02 | 5.28E+11 | 3.70E-04 | 5.17E+06 | 7.92E-02 |
| 5.05E+06 | 7.71E-02 | 5.13E+11 | 3.60E-04 | 5.03E+06 | 7.71E-02 |
| 4.91E+06 | 7.49E-02 | 4.99E+11 | 3.50E-04 | 4.89E+06 | 7.49E-02 |
| 4.77E+06 | 7.28E-02 | 4.85E+11 | 3.40E-04 | 4.75E+06 | 7.28E-02 |
| 4.63E+06 | 7.07E-02 | 4.71E+11 | 3.30E-04 | 4.61E+06 | 7.07E-02 |
| 4.49E+06 | 6.85E-02 | 4.56E+11 | 3.20E-04 | 4.47E+06 | 6.85E-02 |
| 4.35E+06 | 6.64E-02 | 4.42E+11 | 3.10E-04 | 4.33E+06 | 6.64E-02 |
| 4.21E+06 | 6.42E-02 | 4.28E+11 | 3.00E-04 | 4.19E+06 | 6.42E-02 |
| 4.07E+06 | 6.21E-02 | 4.14E+11 | 2.90E-04 | 4.05E+06 | 6.21E-02 |
| 3.93E+06 | 6.00E-02 | 3.99E+11 | 2.80E-04 | 3.91E+06 | 6.00E-02 |
| 3.79E+06 | 5.78E-02 | 3.85E+11 | 2.70E-04 | 3.77E+06 | 5.78E-02 |
| 3.65E+06 | 5.57E-02 | 3.71E+11 | 2.60E-04 | 3.63E+06 | 5.57E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3.51E+06 | 5.35E-02 | 3.57E+11 | 2.50E-04 | 3.49E+06 | 5.35E-02 |
| 3.37E+06 | 5.14E-02 | 3.42E+11 | 2.40E-04 | 3.35E+06 | 5.14E-02 |
| 3.23E+06 | 4.93E-02 | 3.28E+11 | 2.30E-04 | 3.21E+06 | 4.93E-02 |
| 3.09E+06 | 4.71E-02 | 3.14E+11 | 2.20E-04 | 3.08E+06 | 4.71E-02 |
| 2.95E+06 | 4.50E-02 | 3.00E+11 | 2.10E-04 | 2.94E+06 | 4.50E-02 |
| 2.81E+06 | 4.28E-02 | 2.85E+11 | 2.00E-04 | 2.79E+06 | 4.28E-02 |
| 2.67E+06 | 4.07E-02 | 2.71E+11 | 1.90E-04 | 2.66E+06 | 4.07E-02 |
| 2.53E+06 | 3.85E-02 | 2.57E+11 | 1.80E-04 | 2.52E+06 | 3.85E-02 |
| 2.39E+06 | 3.64E-02 | 2.43E+11 | 1.70E-04 | 2.38E+06 | 3.64E-02 |
| 2.25E+06 | 3.43E-02 | 2.28E+11 | 1.60E-04 | 2.24E+06 | 3.43E-02 |
| 2.11E+06 | 3.21E-02 | 2.14E+11 | 1.50E-04 | 2.10E+06 | 3.21E-02 |
| 1.96E+06 | 3.00E-02 | 2.00E+11 | 1.40E-04 | 1.96E+06 | 3.00E-02 |
| 1.82E+06 | 2.78E-02 | 1.85E+11 | 1.30E-04 | 1.82E+06 | 2.78E-02 |
| 1.68E+06 | 2.57E-02 | 1.71E+11 | 1.20E-04 | 1.68E+06 | 2.57E-02 |
| 1.54E+06 | 2.36E-02 | 1.57E+11 | 1.10E-04 | 1.54E+06 | 2.36E-02 |
| 1.40E+06 | 2.14E-02 | 1.43E+11 | 1.00E-04 | 1.40E+06 | 2.14E-02 |
| 1.26E+06 | 1.93E-02 | 1.28E+11 | 9.00E-05 | 1.26E+06 | 1.93E-02 |
| 1.12E+06 | 1.71E-02 | 1.14E+11 | 8.00E-05 | 1.12E+06 | 1.71E-02 |
| 9.83E+05 | 1.50E-02 | 9.98E+10 | 7.00E-05 | 9.78E+05 | 1.50E-02 |
| 8.42E+05 | 1.28E-02 | 8.56E+10 | 6.00E-05 | 8.39E+05 | 1.28E-02 |
| 7.02E+05 | 1.07E-02 | 7.13E+10 | 5.00E-05 | 6.99E+05 | 1.07E-02 |
| 5.61E+05 | 8.57E-03 | 5.71E+10 | 4.00E-05 | 5.59E+05 | 8.57E-03 |
| 4.21E+05 | 6.42E-03 | 4.28E+10 | 3.00E-05 | 4.19E+05 | 6.42E-03 |
| 2.81E+05 | 4.28E-03 | 2.85E+10 | 2.00E-05 | 2.79E+05 | 4.28E-03 |
| 1.40E+05 | 2.14E-03 | 1.43E+10 | 1.00E-05 | 1.40E+05 | 2.14E-03 |
| 1.26E+05 | 1.93E-03 | 1.28E+10 | 9.00E-06 | 1.26E+05 | 1.93E-03 |
| 1.12E+05 | 1.71E-03 | 1.14E+10 | 8.00E-06 | 1.12E+05 | 1.71E-03 |
| 9.83E+04 | 1.50E-03 | 9.98E+09 | 7.00E-06 | 9.78E+04 | 1.50E-03 |
| 8.42E+04 | 1.28E-03 | 8.56E+09 | 6.00E-06 | 8.39E+04 | 1.28E-03 |
| 7.02E+04 | 1.07E-03 | 7.13E+09 | 5.00E-06 | 6.99E+04 | 1.07E-03 |
| 5.62E+04 | 8.57E-04 | 5.71E+09 | 4.00E-06 | 5.59E+04 | 8.57E-04 |
| 4.21E+04 | 6.42E-04 | 4.28E+09 | 3.00E-06 | 4.19E+04 | 6.42E-04 |
| 2.81E+04 | 4.28E-04 | 2.85E+09 | 2.00E-06 | 2.80E+04 | 4.28E-04 |
| 1.40E+04 | 2.14E-04 | 1.43E+09 | 1.00E-06 | 1.40E+04 | 2.14E-04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.40E+04 | -2.14E-04 | -1.43E+09 | -1.00E-06 | -1.40E+04 | -2.14E-04 |
| -2.81E+04 | -4.28E-04 | -2.85E+09 | -2.00E-06 | -2.80E+04 | -4.28E-04 |
| -4.21E+04 | -6.42E-04 | -4.28E+09 | -3.00E-06 | -4.19E+04 | -6.42E-04 |
| -5.62E+04 | -8.57E-04 | -5.70E+09 | -4.00E-06 | -5.59E+04 | -8.57E-04 |
| -7.02E+04 | -1.07E-03 | -7.13E+09 | -5.00E-06 | -6.99E+04 | -1.07E-03 |
| -8.42E+04 | -1.28E-03 | -8.56E+09 | -6.00E-06 | -8.38E+04 | -1.28E-03 |
| -9.83E+04 | -1.50E-03 | -9.98E+09 | -7.00E-06 | -9.78E+04 | -1.50E-03 |
| -1.12E+05 | -1.71E-03 | -1.14E+10 | -8.00E-06 | -1.12E+05 | -1.71E-03 |
| -1.26E+05 | -1.93E-03 | -1.28E+10 | -9.00E-06 | -1.26E+05 | -1.93E-03 |
| -1.40E+05 | -2.14E-03 | -1.43E+10 | -1.00E-05 | -1.40E+05 | -2.14E-03 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -2.81E+05 | -4.28E-03 | -2.85E+10 | -2.00E-05 | -2.79E+05 | -4.28E-03 |
| -4.21E+05 | -6.42E-03 | -4.28E+10 | -3.00E-05 | -4.19E+05 | -6.42E-03 |
| -5.61E+05 | -8.57E-03 | -5.70E+10 | -4.00E-05 | -5.59E+05 | -8.57E-03 |
| -7.02E+05 | -1.07E-02 | -7.13E+10 | -5.00E-05 | -6.99E+05 | -1.07E-02 |
| -8.42E+05 | -1.28E-02 | -8.56E+10 | -6.00E-05 | -8.38E+05 | -1.28E-02 |
| -9.83E+05 | -1.50E-02 | -9.98E+10 | -7.00E-05 | -9.78E+05 | -1.50E-02 |
| -1.12E+06 | -1.71E-02 | -1.14E+11 | -8.00E-05 | -1.12E+06 | -1.71E-02 |
| -1.26E+06 | -1.93E-02 | -1.28E+11 | -9.00E-05 | -1.26E+06 | -1.93E-02 |
| -1.40E+06 | -2.14E-02 | -1.43E+11 | -1.00E-04 | -1.40E+06 | -2.14E-02 |
| -1.54E+06 | -2.36E-02 | -1.57E+11 | -1.10E-04 | -1.54E+06 | -2.36E-02 |
| -1.68E+06 | -2.57E-02 | -1.71E+11 | -1.20E-04 | -1.68E+06 | -2.57E-02 |
| -1.82E+06 | -2.78E-02 | -1.85E+11 | -1.30E-04 | -1.82E+06 | -2.78E-02 |
| -1.96E+06 | -3.00E-02 | -2.00E+11 | -1.40E-04 | -1.96E+06 | -3.00E-02 |
| -2.11E+06 | -3.21E-02 | -2.14E+11 | -1.50E-04 | -2.10E+06 | -3.21E-02 |
| -2.25E+06 | -3.43E-02 | -2.28E+11 | -1.60E-04 | -2.24E+06 | -3.43E-02 |
| -2.39E+06 | -3.64E-02 | -2.42E+11 | -1.70E-04 | -2.38E+06 | -3.64E-02 |
| -2.53E+06 | -3.85E-02 | -2.57E+11 | -1.80E-04 | -2.51E+06 | -3.85E-02 |
| -2.67E+06 | -4.07E-02 | -2.71E+11 | -1.90E-04 | -2.65E+06 | -4.07E-02 |
| -2.81E+06 | -4.28E-02 | -2.85E+11 | -2.00E-04 | -2.79E+06 | -4.28E-02 |
| -2.95E+06 | -4.50E-02 | -2.99E+11 | -2.10E-04 | -2.93E+06 | -4.50E-02 |
| -3.09E+06 | -4.71E-02 | -3.14E+11 | -2.20E-04 | -3.07E+06 | -4.71E-02 |
| -3.23E+06 | -4.93E-02 | -3.28E+11 | -2.30E-04 | -3.21E+06 | -4.93E-02 |
| -3.37E+06 | -5.14E-02 | -3.42E+11 | -2.40E-04 | -3.35E+06 | -5.14E-02 |
| -3.51E+06 | -5.35E-02 | -3.56E+11 | -2.50E-04 | -3.49E+06 | -5.35E-02 |
| -3.65E+06 | -5.57E-02 | -3.71E+11 | -2.60E-04 | -3.63E+06 | -5.57E-02 |
| -3.79E+06 | -5.78E-02 | -3.85E+11 | -2.70E-04 | -3.77E+06 | -5.78E-02 |
| -3.93E+06 | -6.00E-02 | -3.99E+11 | -2.80E-04 | -3.91E+06 | -6.00E-02 |
| -4.07E+06 | -6.21E-02 | -4.14E+11 | -2.90E-04 | -4.05E+06 | -6.21E-02 |
| -4.21E+06 | -6.42E-02 | -4.28E+11 | -3.00E-04 | -4.19E+06 | -6.42E-02 |
| -4.35E+06 | -6.64E-02 | -4.42E+11 | -3.10E-04 | -4.33E+06 | -6.64E-02 |
| -4.49E+06 | -6.85E-02 | -4.56E+11 | -3.20E-04 | -4.47E+06 | -6.85E-02 |
| -4.63E+06 | -7.07E-02 | -4.71E+11 | -3.30E-04 | -4.61E+06 | -7.07E-02 |
| -4.77E+06 | -7.28E-02 | -4.85E+11 | -3.40E-04 | -4.75E+06 | -7.28E-02 |
| -4.91E+06 | -7.49E-02 | -4.99E+11 | -3.50E-04 | -4.89E+06 | -7.49E-02 |
| -5.05E+06 | -7.71E-02 | -5.13E+11 | -3.60E-04 | -5.03E+06 | -7.71E-02 |
| -5.19E+06 | -7.92E-02 | -5.28E+11 | -3.70E-04 | -5.17E+06 | -7.92E-02 |
| -5.33E+06 | -8.14E-02 | -5.42E+11 | -3.80E-04 | -5.31E+06 | -8.14E-02 |
| -5.47E+06 | -8.35E-02 | -5.56E+11 | -3.90E-04 | -5.45E+06 | -8.35E-02 |
| -5.61E+06 | -8.57E-02 | -5.70E+11 | -4.00E-04 | -5.59E+06 | -8.57E-02 |
| -5.75E+06 | -8.78E-02 | -5.85E+11 | -4.10E-04 | -5.73E+06 | -8.78E-02 |
| -5.89E+06 | -8.99E-02 | -5.99E+11 | -4.20E-04 | -5.87E+06 | -8.99E-02 |
| -6.03E+06 | -9.21E-02 | -6.13E+11 | -4.30E-04 | -6.01E+06 | -9.21E-02 |
| -6.17E+06 | -9.42E-02 | -6.27E+11 | -4.40E-04 | -6.15E+06 | -9.42E-02 |
| -6.32E+06 | -9.64E-02 | -6.42E+11 | -4.50E-04 | -6.29E+06 | -9.64E-02 |
| -6.46E+06 | -9.85E-02 | -6.56E+11 | -4.60E-04 | -6.43E+06 | -9.85E-02 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.60E+06 | -1.01E-01 | -6.70E+11 | -4.70E-04 | -6.57E+06 | -1.01E-01 |
| -6.74E+06 | -1.03E-01 | -6.84E+11 | -4.80E-04 | -6.71E+06 | -1.03E-01 |
| -6.88E+06 | -1.05E-01 | -6.99E+11 | -4.90E-04 | -6.85E+06 | -1.05E-01 |
| -7.02E+06 | -1.07E-01 | -7.13E+11 | -5.00E-04 | -6.99E+06 | -1.07E-01 |
| -7.16E+06 | -1.09E-01 | -7.27E+11 | -5.10E-04 | -7.12E+06 | -1.09E-01 |
| -7.30E+06 | -1.11E-01 | -7.41E+11 | -5.20E-04 | -7.26E+06 | -1.11E-01 |
| -7.44E+06 | -1.13E-01 | -7.56E+11 | -5.30E-04 | -7.40E+06 | -1.13E-01 |
| -7.58E+06 | -1.16E-01 | -7.70E+11 | -5.40E-04 | -7.54E+06 | -1.16E-01 |
| -7.72E+06 | -1.18E-01 | -7.84E+11 | -5.50E-04 | -7.68E+06 | -1.18E-01 |
| -7.86E+06 | -1.20E-01 | -7.91E+11 | -5.55E-04 | -7.75E+06 | -1.19E-01 |
| -8.00E+06 | -1.22E-01 | -8.04E+11 | -5.65E-04 | -7.88E+06 | -1.21E-01 |
| -8.14E+06 | -1.24E-01 | -8.14E+11 | -5.73E-04 | -7.98E+06 | -1.23E-01 |
| -8.28E+06 | -1.26E-01 | -8.20E+11 | -5.78E-04 | -8.04E+06 | -1.24E-01 |
| -8.39E+06 | -1.28E-01 | -8.26E+11 | -5.84E-04 | -8.09E+06 | -1.25E-01 |
| -8.53E+06 | -1.30E-01 | -8.30E+11 | -5.90E-04 | -8.13E+06 | -1.26E-01 |
| -8.64E+06 | -1.32E-01 | -8.33E+11 | -5.95E-04 | -8.16E+06 | -1.27E-01 |
| -8.72E+06 | -1.34E-01 | -8.35E+11 | -6.01E-04 | -8.18E+06 | -1.29E-01 |
| -8.77E+06 | -1.35E-01 | -8.35E+11 | -6.05E-04 | -8.18E+06 | -1.30E-01 |
| -8.82E+06 | -1.36E-01 | -8.35E+11 | -6.15E-04 | -8.18E+06 | -1.32E-01 |
| -8.87E+06 | -1.37E-01 | -8.35E+11 | -6.21E-04 | -8.18E+06 | -1.33E-01 |
| -8.90E+06 | -1.39E-01 | -8.35E+11 | -6.25E-04 | -8.18E+06 | -1.34E-01 |
| -8.92E+06 | -1.40E-01 | -8.35E+11 | -6.30E-04 | -8.18E+06 | -1.35E-01 |
| -8.93E+06 | -1.41E-01 | -8.34E+11 | -6.37E-04 | -8.18E+06 | -1.36E-01 |
| -8.95E+06 | -1.43E-01 | -8.34E+11 | -6.41E-04 | -8.17E+06 | -1.37E-01 |
| -8.96E+06 | -1.44E-01 | -8.33E+11 | -6.46E-04 | -8.17E+06 | -1.38E-01 |
| -8.97E+06 | -1.46E-01 | -8.32E+11 | -6.51E-04 | -8.16E+06 | -1.39E-01 |
| -8.97E+06 | -1.47E-01 | -8.29E+11 | -6.61E-04 | -8.13E+06 | -1.41E-01 |
| -8.97E+06 | -1.48E-01 | -8.24E+11 | -6.71E-04 | -8.08E+06 | -1.44E-01 |
| -8.98E+06 | -1.49E-01 | -8.16E+11 | -6.81E-04 | -8.00E+06 | -1.46E-01 |
| -8.97E+06 | -1.50E-01 | -8.14E+11 | -6.83E-04 | -7.97E+06 | -1.46E-01 |
| -8.97E+06 | -1.51E-01 | -8.00E+11 | -6.92E-04 | -7.84E+06 | -1.48E-01 |
| -8.96E+06 | -1.53E-01 | -7.82E+11 | -7.02E-04 | -7.66E+06 | -1.50E-01 |
| -8.92E+06 | -1.55E-01 | -7.73E+11 | -7.08E-04 | -7.57E+06 | -1.51E-01 |
| -8.87E+06 | -1.57E-01 | -7.58E+11 | -7.18E-04 | -7.43E+06 | -1.54E-01 |
| -8.78E+06 | -1.59E-01 | -7.57E+11 | -7.18E-04 | -7.42E+06 | -1.54E-01 |
| -8.76E+06 | -1.60E-01 | -7.46E+11 | -7.28E-04 | -7.31E+06 | -1.56E-01 |
| -8.62E+06 | -1.62E-01 | -7.37E+11 | -7.37E-04 | -7.22E+06 | -1.58E-01 |
| -8.59E+06 | -1.62E-01 | -7.30E+11 | -7.47E-04 | -7.15E+06 | -1.60E-01 |
| -8.44E+06 | -1.64E-01 | -7.27E+11 | -7.52E-04 | -7.12E+06 | -1.61E-01 |
| -8.35E+06 | -1.66E-01 | -7.20E+11 | -7.62E-04 | -7.06E+06 | -1.63E-01 |
| -8.25E+06 | -1.68E-01 | -7.15E+11 | -7.72E-04 | -7.00E+06 | -1.65E-01 |
| -8.20E+06 | -1.69E-01 | -7.13E+11 | -7.75E-04 | -6.99E+06 | -1.66E-01 |
| -8.12E+06 | -1.71E-01 | -7.08E+11 | -7.85E-04 | -6.94E+06 | -1.68E-01 |
| -8.06E+06 | -1.73E-01 | -7.03E+11 | -7.95E-04 | -6.89E+06 | -1.70E-01 |
| -8.06E+06 | -1.74E-01 | -6.99E+11 | -8.05E-04 | -6.85E+06 | -1.72E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -8.00E+06 | -1.76E-01 | -6.98E+11 | -8.07E-04 | -6.84E+06 | -1.73E-01 |
| -7.95E+06 | -1.78E-01 | -6.93E+11 | -8.17E-04 | -6.79E+06 | -1.75E-01 |
| -7.95E+06 | -1.78E-01 | -6.92E+11 | -8.20E-04 | -6.78E+06 | -1.76E-01 |
| -7.91E+06 | -1.80E-01 | -6.88E+11 | -8.30E-04 | -6.74E+06 | -1.78E-01 |
| -7.87E+06 | -1.82E-01 | -6.84E+11 | -8.40E-04 | -6.70E+06 | -1.80E-01 |
| -7.85E+06 | -1.83E-01 | -6.80E+11 | -8.50E-04 | -6.66E+06 | -1.82E-01 |
| -7.81E+06 | -1.85E-01 | -6.77E+11 | -8.59E-04 | -6.63E+06 | -1.84E-01 |
| -7.77E+06 | -1.87E-01 | -6.73E+11 | -8.69E-04 | -6.60E+06 | -1.86E-01 |
| -7.74E+06 | -1.89E-01 | -6.73E+11 | -8.70E-04 | -6.59E+06 | -1.86E-01 |
| -7.70E+06 | -1.91E-01 | -6.69E+11 | -8.80E-04 | -6.56E+06 | -1.88E-01 |
| -7.68E+06 | -1.93E-01 | -6.66E+11 | -8.90E-04 | -6.53E+06 | -1.91E-01 |
| -7.65E+06 | -1.95E-01 | -6.63E+11 | -9.00E-04 | -6.49E+06 | -1.93E-01 |
| -7.62E+06 | -1.97E-01 | -6.59E+11 | -9.10E-04 | -6.46E+06 | -1.95E-01 |
| -7.59E+06 | -1.99E-01 | -6.56E+11 | -9.20E-04 | -6.43E+06 | -1.97E-01 |
| -7.55E+06 | -2.01E-01 | -6.56E+11 | -9.21E-04 | -6.43E+06 | -1.97E-01 |
| -7.52E+06 | -2.03E-01 | -6.53E+11 | -9.31E-04 | -6.40E+06 | -1.99E-01 |
| -7.50E+06 | -2.05E-01 | -6.52E+11 | -9.34E-04 | -6.39E+06 | -2.00E-01 |
| -7.49E+06 | -2.06E-01 | -6.49E+11 | -9.44E-04 | -6.36E+06 | -2.02E-01 |
| -7.45E+06 | -2.08E-01 | -6.46E+11 | -9.54E-04 | -6.33E+06 | -2.04E-01 |
| -7.42E+06 | -2.10E-01 | -6.43E+11 | -9.64E-04 | -6.30E+06 | -2.06E-01 |
| -7.39E+06 | -2.12E-01 | -6.40E+11 | -9.74E-04 | -6.27E+06 | -2.09E-01 |
| -7.36E+06 | -2.15E-01 | -6.37E+11 | -9.84E-04 | -6.24E+06 | -2.11E-01 |
| -7.34E+06 | -2.17E-01 | -6.34E+11 | -9.94E-04 | -6.21E+06 | -2.13E-01 |
| -7.31E+06 | -2.19E-01 | -6.32E+11 | -1.00E-03 | -6.20E+06 | -2.14E-01 |
| -7.28E+06 | -2.21E-01 | -6.29E+11 | -1.01E-03 | -6.17E+06 | -2.16E-01 |
| -7.28E+06 | -2.21E-01 | -6.26E+11 | -1.02E-03 | -6.14E+06 | -2.18E-01 |
| -7.26E+06 | -2.23E-01 | -6.23E+11 | -1.03E-03 | -6.11E+06 | -2.21E-01 |
| -7.23E+06 | -2.25E-01 | -6.20E+11 | -1.04E-03 | -6.08E+06 | -2.23E-01 |
| -7.21E+06 | -2.27E-01 | -6.18E+11 | -1.05E-03 | -6.05E+06 | -2.25E-01 |
| -7.18E+06 | -2.29E-01 | -6.15E+11 | -1.06E-03 | -6.03E+06 | -2.27E-01 |
| -7.15E+06 | -2.31E-01 | -6.12E+11 | -1.07E-03 | -6.00E+06 | -2.29E-01 |
| -7.12E+06 | -2.33E-01 | -6.11E+11 | -1.08E-03 | -5.99E+06 | -2.30E-01 |
| -7.10E+06 | -2.36E-01 | -6.09E+11 | -1.08E-03 | -5.97E+06 | -2.32E-01 |
| -7.08E+06 | -2.38E-01 | -6.06E+11 | -1.09E-03 | -5.94E+06 | -2.34E-01 |
| -7.06E+06 | -2.39E-01 | -6.04E+11 | -1.10E-03 | -5.91E+06 | -2.36E-01 |
| -7.04E+06 | -2.41E-01 | -6.01E+11 | -1.11E-03 | -5.89E+06 | -2.39E-01 |
| -7.03E+06 | -2.42E-01 | -5.98E+11 | -1.12E-03 | -5.86E+06 | -2.41E-01 |
| -7.01E+06 | -2.44E-01 | -5.96E+11 | -1.13E-03 | -5.84E+06 | -2.43E-01 |
| -6.98E+06 | -2.46E-01 | -5.93E+11 | -1.14E-03 | -5.81E+06 | -2.45E-01 |
| -6.95E+06 | -2.48E-01 | -5.91E+11 | -1.15E-03 | -5.79E+06 | -2.47E-01 |
| -6.93E+06 | -2.50E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 | -2.49E-01 |
| -6.90E+06 | -2.52E-01 | -5.88E+11 | -1.16E-03 | -5.77E+06 | -2.49E-01 |
| -6.88E+06 | -2.54E-01 | -5.86E+11 | -1.17E-03 | -5.74E+06 | -2.51E-01 |
| -6.86E+06 | -2.57E-01 | -5.84E+11 | -1.18E-03 | -5.73E+06 | -2.53E-01 |
| -6.84E+06 | -2.58E-01 | -5.82E+11 | -1.19E-03 | -5.70E+06 | -2.55E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -6.82E+06 | -2.60E-01 | -5.80E+11 | -1.20E-03 | -5.68E+06 | -2.57E-01 |
| -6.79E+06 | -2.62E-01 | -5.77E+11 | -1.21E-03 | -5.66E+06 | -2.59E-01 |
| -6.77E+06 | -2.64E-01 | -5.75E+11 | -1.22E-03 | -5.63E+06 | -2.61E-01 |
| -6.74E+06 | -2.66E-01 | -5.73E+11 | -1.23E-03 | -5.61E+06 | -2.63E-01 |
| -6.72E+06 | -2.69E-01 | -5.70E+11 | -1.24E-03 | -5.59E+06 | -2.66E-01 |
| -6.70E+06 | -2.71E-01 | -5.68E+11 | -1.25E-03 | -5.57E+06 | -2.68E-01 |
| -6.67E+06 | -2.73E-01 | -5.66E+11 | -1.26E-03 | -5.55E+06 | -2.70E-01 |
| -6.65E+06 | -2.75E-01 | -5.66E+11 | -1.26E-03 | -5.54E+06 | -2.70E-01 |
| -6.63E+06 | -2.77E-01 | -5.64E+11 | -1.27E-03 | -5.52E+06 | -2.72E-01 |
| -6.61E+06 | -2.79E-01 | -5.62E+11 | -1.28E-03 | -5.50E+06 | -2.75E-01 |
| -6.60E+06 | -2.80E-01 | -5.59E+11 | -1.29E-03 | -5.48E+06 | -2.77E-01 |
| -6.58E+06 | -2.82E-01 | -5.57E+11 | -1.30E-03 | -5.46E+06 | -2.79E-01 |
| -6.56E+06 | -2.84E-01 | -5.56E+11 | -1.31E-03 | -5.45E+06 | -2.80E-01 |
| -6.54E+06 | -2.86E-01 | -5.54E+11 | -1.32E-03 | -5.43E+06 | -2.82E-01 |
| -6.51E+06 | -2.88E-01 | -5.52E+11 | -1.33E-03 | -5.41E+06 | -2.84E-01 |
| -6.49E+06 | -2.90E-01 | -5.50E+11 | -1.34E-03 | -5.39E+06 | -2.87E-01 |
| -6.47E+06 | -2.93E-01 | -5.48E+11 | -1.35E-03 | -5.37E+06 | -2.89E-01 |
| -6.45E+06 | -2.95E-01 | -5.46E+11 | -1.36E-03 | -5.35E+06 | -2.91E-01 |
| -6.43E+06 | -2.97E-01 | -5.44E+11 | -1.37E-03 | -5.33E+06 | -2.93E-01 |
| -6.41E+06 | -2.99E-01 | -5.42E+11 | -1.38E-03 | -5.31E+06 | -2.95E-01 |
| -6.39E+06 | -3.01E-01 | -5.41E+11 | -1.39E-03 | -5.30E+06 | -2.97E-01 |
| -6.37E+06 | -3.03E-01 | -5.39E+11 | -1.40E-03 | -5.28E+06 | -2.99E-01 |
| -6.36E+06 | -3.04E-01 | -5.37E+11 | -1.41E-03 | -5.26E+06 | -3.01E-01 |
| -6.34E+06 | -3.06E-01 | -5.35E+11 | -1.42E-03 | -5.24E+06 | -3.03E-01 |
| -6.32E+06 | -3.08E-01 | -5.33E+11 | -1.43E-03 | -5.23E+06 | -3.05E-01 |
| -6.30E+06 | -3.10E-01 | -5.32E+11 | -1.44E-03 | -5.21E+06 | -3.07E-01 |
| -6.28E+06 | -3.13E-01 | -5.30E+11 | -1.45E-03 | -5.19E+06 | -3.10E-01 |
| -6.26E+06 | -3.15E-01 | -5.28E+11 | -1.46E-03 | -5.18E+06 | -3.12E-01 |
| -6.24E+06 | -3.17E-01 | -5.27E+11 | -1.47E-03 | -5.16E+06 | -3.14E-01 |
| -6.24E+06 | -3.18E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 | -3.16E-01 |
| -6.22E+06 | -3.20E-01 | -5.25E+11 | -1.48E-03 | -5.14E+06 | -3.16E-01 |
| -6.20E+06 | -3.22E-01 | -5.23E+11 | -1.49E-03 | -5.12E+06 | -3.19E-01 |
| -6.18E+06 | -3.24E-01 | -5.21E+11 | -1.50E-03 | -5.11E+06 | -3.21E-01 |
| -6.17E+06 | -3.26E-01 | -5.20E+11 | -1.51E-03 | -5.09E+06 | -3.23E-01 |
| -6.15E+06 | -3.28E-01 | -5.18E+11 | -1.52E-03 | -5.08E+06 | -3.25E-01 |
| -6.13E+06 | -3.30E-01 | -5.16E+11 | -1.53E-03 | -5.06E+06 | -3.27E-01 |
| -6.11E+06 | -3.33E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 | -3.29E-01 |
| -6.10E+06 | -3.34E-01 | -5.15E+11 | -1.54E-03 | -5.04E+06 | -3.30E-01 |
| -6.08E+06 | -3.37E-01 | -5.13E+11 | -1.55E-03 | -5.03E+06 | -3.32E-01 |
| -6.06E+06 | -3.39E-01 | -5.11E+11 | -1.56E-03 | -5.01E+06 | -3.34E-01 |
| -6.04E+06 | -3.41E-01 | -5.10E+11 | -1.57E-03 | -5.00E+06 | -3.36E-01 |
| -6.03E+06 | -3.43E-01 | -5.08E+11 | -1.58E-03 | -4.98E+06 | -3.38E-01 |
| -6.01E+06 | -3.45E-01 | -5.07E+11 | -1.59E-03 | -4.97E+06 | -3.40E-01 |
| -5.99E+06 | -3.47E-01 | -5.05E+11 | -1.60E-03 | -4.95E+06 | -3.42E-01 |
| -5.98E+06 | -3.49E-01 | -5.04E+11 | -1.61E-03 | -4.94E+06 | -3.45E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.96E+06 | -3.52E-01 | -5.02E+11 | -1.62E-03 | -4.92E+06 | -3.47E-01 |
| -5.94E+06 | -3.54E-01 | -5.01E+11 | -1.63E-03 | -4.91E+06 | -3.49E-01 |
| -5.93E+06 | -3.56E-01 | -5.00E+11 | -1.64E-03 | -4.90E+06 | -3.51E-01 |
| -5.91E+06 | -3.58E-01 | -4.98E+11 | -1.65E-03 | -4.88E+06 | -3.53E-01 |
| -5.91E+06 | -3.59E-01 | -4.97E+11 | -1.66E-03 | -4.87E+06 | -3.55E-01 |
| -5.89E+06 | -3.61E-01 | -4.96E+11 | -1.66E-03 | -4.86E+06 | -3.56E-01 |
| -5.88E+06 | -3.63E-01 | -4.95E+11 | -1.67E-03 | -4.85E+06 | -3.58E-01 |
| -5.86E+06 | -3.65E-01 | -4.94E+11 | -1.68E-03 | -4.84E+06 | -3.60E-01 |
| -5.85E+06 | -3.67E-01 | -4.92E+11 | -1.69E-03 | -4.82E+06 | -3.62E-01 |
| -5.83E+06 | -3.69E-01 | -4.91E+11 | -1.70E-03 | -4.81E+06 | -3.64E-01 |
| -5.82E+06 | -3.72E-01 | -4.90E+11 | -1.71E-03 | -4.80E+06 | -3.67E-01 |
| -5.81E+06 | -3.72E-01 | -4.88E+11 | -1.72E-03 | -4.79E+06 | -3.69E-01 |
| -5.80E+06 | -3.74E-01 | -4.87E+11 | -1.73E-03 | -4.77E+06 | -3.71E-01 |
| -5.78E+06 | -3.76E-01 | -4.86E+11 | -1.74E-03 | -4.76E+06 | -3.73E-01 |
| -5.77E+06 | -3.78E-01 | -4.85E+11 | -1.75E-03 | -4.75E+06 | -3.75E-01 |
| -5.75E+06 | -3.81E-01 | -4.83E+11 | -1.76E-03 | -4.74E+06 | -3.77E-01 |
| -5.74E+06 | -3.83E-01 | -4.82E+11 | -1.77E-03 | -4.72E+06 | -3.79E-01 |
| -5.72E+06 | -3.85E-01 | -4.81E+11 | -1.78E-03 | -4.71E+06 | -3.81E-01 |
| -5.71E+06 | -3.87E-01 | -4.79E+11 | -1.79E-03 | -4.70E+06 | -3.84E-01 |
| -5.69E+06 | -3.89E-01 | -4.78E+11 | -1.80E-03 | -4.69E+06 | -3.86E-01 |
| -5.68E+06 | -3.91E-01 | -4.77E+11 | -1.81E-03 | -4.67E+06 | -3.88E-01 |
| -5.67E+06 | -3.93E-01 | -4.76E+11 | -1.82E-03 | -4.66E+06 | -3.90E-01 |
| -5.65E+06 | -3.96E-01 | -4.75E+11 | -1.83E-03 | -4.65E+06 | -3.92E-01 |
| -5.64E+06 | -3.98E-01 | -4.74E+11 | -1.84E-03 | -4.64E+06 | -3.94E-01 |
| -5.63E+06 | -4.00E-01 | -4.72E+11 | -1.85E-03 | -4.63E+06 | -3.96E-01 |
| -5.62E+06 | -4.02E-01 | -4.71E+11 | -1.86E-03 | -4.62E+06 | -3.99E-01 |
| -5.61E+06 | -4.03E-01 | -4.70E+11 | -1.87E-03 | -4.61E+06 | -4.01E-01 |
| -5.59E+06 | -4.06E-01 | -4.69E+11 | -1.88E-03 | -4.60E+06 | -4.03E-01 |
| -5.58E+06 | -4.08E-01 | -4.68E+11 | -1.89E-03 | -4.59E+06 | -4.05E-01 |
| -5.57E+06 | -4.10E-01 | -4.67E+11 | -1.90E-03 | -4.58E+06 | -4.07E-01 |
| -5.55E+06 | -4.12E-01 | -4.66E+11 | -1.91E-03 | -4.57E+06 | -4.09E-01 |
| -5.54E+06 | -4.14E-01 | -4.65E+11 | -1.92E-03 | -4.56E+06 | -4.11E-01 |
| -5.53E+06 | -4.16E-01 | -4.64E+11 | -1.93E-03 | -4.55E+06 | -4.13E-01 |
| -5.52E+06 | -4.18E-01 | -4.63E+11 | -1.94E-03 | -4.53E+06 | -4.15E-01 |
| -5.50E+06 | -4.20E-01 | -4.62E+11 | -1.95E-03 | -4.52E+06 | -4.18E-01 |
| -5.49E+06 | -4.22E-01 | -4.61E+11 | -1.96E-03 | -4.51E+06 | -4.20E-01 |
| -5.48E+06 | -4.25E-01 | -4.60E+11 | -1.97E-03 | -4.50E+06 | -4.22E-01 |
| -5.47E+06 | -4.27E-01 | -4.59E+11 | -1.98E-03 | -4.50E+06 | -4.24E-01 |
| -5.45E+06 | -4.29E-01 | -4.58E+11 | -1.99E-03 | -4.48E+06 | -4.26E-01 |
| -5.44E+06 | -4.31E-01 | -4.57E+11 | -2.00E-03 | -4.47E+06 | -4.28E-01 |
| -5.43E+06 | -4.33E-01 | -4.55E+11 | -2.01E-03 | -4.46E+06 | -4.30E-01 |
| -5.42E+06 | -4.35E-01 | -4.54E+11 | -2.02E-03 | -4.45E+06 | -4.32E-01 |
| -5.40E+06 | -4.37E-01 | -4.53E+11 | -2.03E-03 | -4.44E+06 | -4.34E-01 |
| -5.39E+06 | -4.40E-01 | -4.52E+11 | -2.04E-03 | -4.43E+06 | -4.37E-01 |
| -5.38E+06 | -4.42E-01 | -4.51E+11 | -2.05E-03 | -4.42E+06 | -4.39E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -5.37E+06 | -4.44E-01 | -4.50E+11 | -2.06E-03 | -4.41E+06 | -4.41E-01 |
| -5.36E+06 | -4.46E-01 | -4.49E+11 | -2.07E-03 | -4.40E+06 | -4.43E-01 |
| -5.35E+06 | -4.48E-01 | -4.48E+11 | -2.08E-03 | -4.39E+06 | -4.45E-01 |
| -5.34E+06 | -4.50E-01 | -4.47E+11 | -2.09E-03 | -4.38E+06 | -4.47E-01 |
| -5.33E+06 | -4.52E-01 | -4.46E+11 | -2.10E-03 | -4.37E+06 | -4.49E-01 |
| -5.32E+06 | -4.55E-01 | -4.45E+11 | -2.11E-03 | -4.36E+06 | -4.52E-01 |
| -5.30E+06 | -4.57E-01 | -4.44E+11 | -2.12E-03 | -4.36E+06 | -4.54E-01 |
| -5.29E+06 | -4.59E-01 | -4.44E+11 | -2.13E-03 | -4.35E+06 | -4.56E-01 |
| -5.29E+06 | -4.61E-01 | -4.43E+11 | -2.14E-03 | -4.34E+06 | -4.58E-01 |
| -5.28E+06 | -4.63E-01 | -4.42E+11 | -2.15E-03 | -4.33E+06 | -4.60E-01 |
| -5.26E+06 | -4.65E-01 | -4.41E+11 | -2.16E-03 | -4.32E+06 | -4.62E-01 |
| -5.25E+06 | -4.67E-01 | -4.40E+11 | -2.17E-03 | -4.31E+06 | -4.64E-01 |
| -5.24E+06 | -4.70E-01 | -4.39E+11 | -2.18E-03 | -4.30E+06 | -4.67E-01 |
| -5.23E+06 | -4.72E-01 | -4.38E+11 | -2.19E-03 | -4.30E+06 | -4.69E-01 |
| -5.22E+06 | -4.74E-01 | -4.37E+11 | -2.20E-03 | -4.29E+06 | -4.71E-01 |
| -5.21E+06 | -4.76E-01 | -4.37E+11 | -2.21E-03 | -4.28E+06 | -4.73E-01 |
| -5.20E+06 | -4.78E-01 | -4.36E+11 | -2.22E-03 | -4.27E+06 | -4.75E-01 |
| -5.19E+06 | -4.80E-01 | -4.35E+11 | -2.23E-03 | -4.26E+06 | -4.77E-01 |
| -5.18E+06 | -4.82E-01 | -4.34E+11 | -2.24E-03 | -4.26E+06 | -4.79E-01 |
| -5.17E+06 | -4.84E-01 | -4.33E+11 | -2.25E-03 | -4.25E+06 | -4.81E-01 |
| -5.16E+06 | -4.86E-01 | -4.33E+11 | -2.26E-03 | -4.24E+06 | -4.83E-01 |
| -5.15E+06 | -4.88E-01 | -4.32E+11 | -2.27E-03 | -4.23E+06 | -4.85E-01 |
| -5.14E+06 | -4.91E-01 | -4.31E+11 | -2.28E-03 | -4.22E+06 | -4.87E-01 |
| -5.13E+06 | -4.93E-01 | -4.30E+11 | -2.29E-03 | -4.21E+06 | -4.90E-01 |
| -5.12E+06 | -4.95E-01 | -4.29E+11 | -2.30E-03 | -4.21E+06 | -4.92E-01 |
| -5.11E+06 | -4.97E-01 | -4.29E+11 | -2.31E-03 | -4.20E+06 | -4.94E-01 |
| -5.10E+06 | -4.99E-01 | -4.28E+11 | -2.31E-03 | -4.20E+06 | -4.94E-01 |
| -5.09E+06 | -5.01E-01 | -4.28E+11 | -2.32E-03 | -4.19E+06 | -4.96E-01 |
| -5.08E+06 | -5.03E-01 | -4.27E+11 | -2.33E-03 | -4.18E+06 | -4.99E-01 |
| -5.07E+06 | -5.06E-01 | -4.26E+11 | -2.34E-03 | -4.17E+06 | -5.01E-01 |
| -5.06E+06 | -5.08E-01 | -4.25E+11 | -2.35E-03 | -4.17E+06 | -5.02E-01 |
| -5.06E+06 | -5.10E-01 | -4.25E+11 | -2.36E-03 | -4.16E+06 | -5.04E-01 |
| -5.05E+06 | -5.12E-01 | -4.24E+11 | -2.37E-03 | -4.15E+06 | -5.06E-01 |
| -5.04E+06 | -5.14E-01 | -4.23E+11 | -2.38E-03 | -4.14E+06 | -5.09E-01 |
| -5.03E+06 | -5.16E-01 | -4.22E+11 | -2.39E-03 | -4.13E+06 | -5.11E-01 |
| -5.02E+06 | -5.18E-01 | -4.21E+11 | -2.40E-03 | -4.13E+06 | -5.13E-01 |
| -5.01E+06 | -5.21E-01 | -4.20E+11 | -2.41E-03 | -4.12E+06 | -5.15E-01 |
| -5.00E+06 | -5.23E-01 | -4.19E+11 | -2.42E-03 | -4.11E+06 | -5.17E-01 |
| -5.00E+06 | -5.25E-01 | -4.19E+11 | -2.43E-03 | -4.10E+06 | -5.19E-01 |
| -4.99E+06 | -5.27E-01 | -4.18E+11 | -2.44E-03 | -4.09E+06 | -5.21E-01 |
| -4.98E+06 | -5.29E-01 | -4.17E+11 | -2.45E-03 | -4.09E+06 | -5.24E-01 |
| -4.97E+06 | -5.31E-01 | -4.16E+11 | -2.46E-03 | -4.08E+06 | -5.26E-01 |
| -4.96E+06 | -5.33E-01 | -4.16E+11 | -2.47E-03 | -4.07E+06 | -5.28E-01 |
| -4.96E+06 | -5.36E-01 | -4.15E+11 | -2.48E-03 | -4.06E+06 | -5.30E-01 |
| -4.95E+06 | -5.37E-01 | -4.14E+11 | -2.49E-03 | -4.06E+06 | -5.32E-01 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| -4.94E+06 | -5.39E-01 | -4.13E+11 | -2.50E-03 | -4.05E+06 | -5.34E-01 |
| -4.93E+06 | -5.42E-01 | -4.13E+11 | -2.51E-03 | -4.04E+06 | -5.36E-01 |
| -4.93E+06 | -5.44E-01 | -4.12E+11 | -2.52E-03 | -4.04E+06 | -5.39E-01 |
| -4.92E+06 | -5.46E-01 | -4.11E+11 | -2.53E-03 | -4.03E+06 | -5.41E-01 |
| -4.91E+06 | -5.48E-01 | -4.11E+11 | -2.54E-03 | -4.02E+06 | -5.43E-01 |
| -4.90E+06 | -5.50E-01 | -4.10E+11 | -2.55E-03 | -4.02E+06 | -5.45E-01 |
| -4.89E+06 | -5.52E-01 | -4.09E+11 | -2.56E-03 | -4.01E+06 | -5.47E-01 |
| -4.89E+06 | -5.54E-01 | -4.09E+11 | -2.57E-03 | -4.00E+06 | -5.49E-01 |
| -4.88E+06 | -5.57E-01 | -4.08E+11 | -2.58E-03 | -4.00E+06 | -5.51E-01 |
| -4.88E+06 | -5.57E-01 | -4.07E+11 | -2.59E-03 | -3.99E+06 | -5.54E-01 |
| -4.87E+06 | -5.59E-01 | -4.07E+11 | -2.60E-03 | -3.98E+06 | -5.56E-01 |
| -4.86E+06 | -5.61E-01 | -4.06E+11 | -2.61E-03 | -3.98E+06 | -5.58E-01 |
| -4.85E+06 | -5.63E-01 | -4.05E+11 | -2.62E-03 | -3.97E+06 | -5.60E-01 |
| -4.85E+06 | -5.65E-01 | -4.05E+11 | -2.63E-03 | -3.97E+06 | -5.62E-01 |
| -4.84E+06 | -5.67E-01 | -4.04E+11 | -2.64E-03 | -3.96E+06 | -5.64E-01 |
| -4.83E+06 | -5.70E-01 | -4.03E+11 | -2.65E-03 | -3.95E+06 | -5.66E-01 |
| -4.82E+06 | -5.72E-01 | -4.03E+11 | -2.66E-03 | -3.95E+06 | -5.69E-01 |
| -4.81E+06 | -5.74E-01 | -4.02E+11 | -2.67E-03 | -3.94E+06 | -5.71E-01 |
| -4.80E+06 | -5.76E-01 | -4.02E+11 | -2.68E-03 | -3.93E+06 | -5.73E-01 |

70% kandas

| | 4670 | 9.80E-06 | 1.00E-06 |
|--------------|---------------|--------------|------------------|
| Momen | Rotasi | Momen | Curvature |
| 6.38E+11 | 2.70E-03 | 6.26E+06 | 5.78E-01 |
| 6.39E+11 | 2.69E-03 | 6.26E+06 | 5.76E-01 |
| 6.40E+11 | 2.68E-03 | 6.27E+06 | 5.73E-01 |
| 6.40E+11 | 2.67E-03 | 6.27E+06 | 5.71E-01 |
| 6.41E+11 | 2.66E-03 | 6.28E+06 | 5.69E-01 |
| 6.41E+11 | 2.65E-03 | 6.29E+06 | 5.67E-01 |
| 6.42E+11 | 2.64E-03 | 6.29E+06 | 5.65E-01 |
| 6.43E+11 | 2.63E-03 | 6.30E+06 | 5.63E-01 |
| 6.43E+11 | 2.62E-03 | 6.30E+06 | 5.61E-01 |
| 6.44E+11 | 2.61E-03 | 6.31E+06 | 5.58E-01 |
| 6.45E+11 | 2.60E-03 | 6.32E+06 | 5.56E-01 |
| 6.45E+11 | 2.59E-03 | 6.32E+06 | 5.54E-01 |
| 6.46E+11 | 2.58E-03 | 6.33E+06 | 5.52E-01 |
| 6.47E+11 | 2.57E-03 | 6.34E+06 | 5.50E-01 |
| 6.47E+11 | 2.56E-03 | 6.34E+06 | 5.48E-01 |
| 6.48E+11 | 2.55E-03 | 6.35E+06 | 5.46E-01 |
| 6.49E+11 | 2.54E-03 | 6.36E+06 | 5.43E-01 |
| 6.49E+11 | 2.53E-03 | 6.36E+06 | 5.41E-01 |
| 6.50E+11 | 2.52E-03 | 6.37E+06 | 5.39E-01 |
| 6.51E+11 | 2.51E-03 | 6.38E+06 | 5.37E-01 |
| 6.51E+11 | 2.50E-03 | 6.38E+06 | 5.35E-01 |
| 6.52E+11 | 2.49E-03 | 6.39E+06 | 5.33E-01 |
| 6.53E+11 | 2.48E-03 | 6.40E+06 | 5.31E-01 |
| 6.54E+11 | 2.47E-03 | 6.41E+06 | 5.28E-01 |
| 6.54E+11 | 2.46E-03 | 6.41E+06 | 5.26E-01 |
| 6.55E+11 | 2.45E-03 | 6.42E+06 | 5.24E-01 |
| 6.56E+11 | 2.44E-03 | 6.43E+06 | 5.22E-01 |
| 6.57E+11 | 2.43E-03 | 6.44E+06 | 5.20E-01 |
| 6.58E+11 | 2.42E-03 | 6.44E+06 | 5.18E-01 |
| 6.58E+11 | 2.41E-03 | 6.45E+06 | 5.16E-01 |
| 6.59E+11 | 2.40E-03 | 6.46E+06 | 5.13E-01 |
| 6.60E+11 | 2.39E-03 | 6.46E+06 | 5.12E-01 |
| 6.60E+11 | 2.38E-03 | 6.47E+06 | 5.09E-01 |
| 6.61E+11 | 2.37E-03 | 6.48E+06 | 5.07E-01 |
| 6.62E+11 | 2.36E-03 | 6.48E+06 | 5.05E-01 |
| 6.62E+11 | 2.35E-03 | 6.49E+06 | 5.03E-01 |
| 6.63E+11 | 2.34E-03 | 6.50E+06 | 5.01E-01 |
| 6.64E+11 | 2.33E-03 | 6.51E+06 | 4.99E-01 |
| 6.65E+11 | 2.32E-03 | 6.51E+06 | 4.97E-01 |
| 6.65E+11 | 2.31E-03 | 6.52E+06 | 4.94E-01 |

| | | | |
|----------|----------|----------|----------|
| 6.66E+11 | 2.30E-03 | 6.53E+06 | 4.92E-01 |
| 6.67E+11 | 2.29E-03 | 6.53E+06 | 4.90E-01 |
| 6.67E+11 | 2.29E-03 | 6.54E+06 | 4.89E-01 |
| 6.68E+11 | 2.28E-03 | 6.54E+06 | 4.87E-01 |
| 6.68E+11 | 2.27E-03 | 6.55E+06 | 4.85E-01 |
| 6.69E+11 | 2.26E-03 | 6.56E+06 | 4.83E-01 |
| 6.70E+11 | 2.25E-03 | 6.56E+06 | 4.81E-01 |
| 6.71E+11 | 2.24E-03 | 6.57E+06 | 4.79E-01 |
| 6.71E+11 | 2.23E-03 | 6.58E+06 | 4.76E-01 |
| 6.72E+11 | 2.22E-03 | 6.59E+06 | 4.74E-01 |
| 6.73E+11 | 2.21E-03 | 6.59E+06 | 4.72E-01 |
| 6.74E+11 | 2.20E-03 | 6.60E+06 | 4.70E-01 |
| 6.74E+11 | 2.19E-03 | 6.61E+06 | 4.68E-01 |
| 6.75E+11 | 2.18E-03 | 6.62E+06 | 4.66E-01 |
| 6.76E+11 | 2.17E-03 | 6.62E+06 | 4.64E-01 |
| 6.77E+11 | 2.16E-03 | 6.63E+06 | 4.61E-01 |
| 6.77E+11 | 2.15E-03 | 6.64E+06 | 4.59E-01 |
| 6.78E+11 | 2.14E-03 | 6.65E+06 | 4.57E-01 |
| 6.79E+11 | 2.13E-03 | 6.65E+06 | 4.55E-01 |
| 6.80E+11 | 2.12E-03 | 6.66E+06 | 4.53E-01 |
| 6.81E+11 | 2.11E-03 | 6.67E+06 | 4.51E-01 |
| 6.81E+11 | 2.10E-03 | 6.68E+06 | 4.49E-01 |
| 6.82E+11 | 2.09E-03 | 6.68E+06 | 4.47E-01 |
| 6.83E+11 | 2.08E-03 | 6.69E+06 | 4.45E-01 |
| 6.84E+11 | 2.07E-03 | 6.70E+06 | 4.43E-01 |
| 6.84E+11 | 2.06E-03 | 6.71E+06 | 4.40E-01 |
| 6.85E+11 | 2.05E-03 | 6.71E+06 | 4.38E-01 |
| 6.86E+11 | 2.04E-03 | 6.72E+06 | 4.36E-01 |
| 6.87E+11 | 2.03E-03 | 6.73E+06 | 4.34E-01 |
| 6.87E+11 | 2.02E-03 | 6.74E+06 | 4.32E-01 |
| 6.88E+11 | 2.01E-03 | 6.74E+06 | 4.30E-01 |
| 6.89E+11 | 2.00E-03 | 6.75E+06 | 4.28E-01 |
| 6.90E+11 | 1.99E-03 | 6.76E+06 | 4.25E-01 |
| 6.90E+11 | 1.98E-03 | 6.76E+06 | 4.23E-01 |
| 6.91E+11 | 1.97E-03 | 6.77E+06 | 4.21E-01 |
| 6.92E+11 | 1.96E-03 | 6.78E+06 | 4.19E-01 |
| 6.92E+11 | 1.95E-03 | 6.78E+06 | 4.18E-01 |
| 6.93E+11 | 1.94E-03 | 6.79E+06 | 4.16E-01 |
| 6.94E+11 | 1.93E-03 | 6.80E+06 | 4.14E-01 |
| 6.95E+11 | 1.92E-03 | 6.81E+06 | 4.12E-01 |
| 6.96E+11 | 1.91E-03 | 6.82E+06 | 4.10E-01 |
| 6.97E+11 | 1.90E-03 | 6.83E+06 | 4.07E-01 |
| 6.97E+11 | 1.89E-03 | 6.83E+06 | 4.05E-01 |
| 6.98E+11 | 1.88E-03 | 6.84E+06 | 4.03E-01 |
| 6.99E+11 | 1.87E-03 | 6.85E+06 | 4.01E-01 |

| | | | |
|----------|----------|----------|----------|
| 7.00E+11 | 1.86E-03 | 6.86E+06 | 3.99E-01 |
| 7.01E+11 | 1.85E-03 | 6.87E+06 | 3.97E-01 |
| 7.02E+11 | 1.84E-03 | 6.88E+06 | 3.95E-01 |
| 7.02E+11 | 1.83E-03 | 6.88E+06 | 3.93E-01 |
| 7.03E+11 | 1.82E-03 | 6.89E+06 | 3.90E-01 |
| 7.04E+11 | 1.81E-03 | 6.90E+06 | 3.88E-01 |
| 7.05E+11 | 1.80E-03 | 6.91E+06 | 3.86E-01 |
| 7.06E+11 | 1.79E-03 | 6.91E+06 | 3.84E-01 |
| 7.06E+11 | 1.78E-03 | 6.92E+06 | 3.82E-01 |
| 7.07E+11 | 1.77E-03 | 6.93E+06 | 3.80E-01 |
| 7.08E+11 | 1.76E-03 | 6.94E+06 | 3.78E-01 |
| 7.09E+11 | 1.75E-03 | 6.95E+06 | 3.75E-01 |
| 7.10E+11 | 1.74E-03 | 6.96E+06 | 3.73E-01 |
| 7.11E+11 | 1.73E-03 | 6.96E+06 | 3.71E-01 |
| 7.12E+11 | 1.72E-03 | 6.97E+06 | 3.69E-01 |
| 7.12E+11 | 1.72E-03 | 6.98E+06 | 3.69E-01 |
| 7.13E+11 | 1.71E-03 | 6.98E+06 | 3.66E-01 |
| 7.14E+11 | 1.70E-03 | 6.99E+06 | 3.64E-01 |
| 7.15E+11 | 1.69E-03 | 7.00E+06 | 3.62E-01 |
| 7.16E+11 | 1.68E-03 | 7.01E+06 | 3.60E-01 |
| 7.17E+11 | 1.67E-03 | 7.02E+06 | 3.58E-01 |
| 7.17E+11 | 1.66E-03 | 7.03E+06 | 3.56E-01 |
| 7.18E+11 | 1.65E-03 | 7.04E+06 | 3.54E-01 |
| 7.19E+11 | 1.64E-03 | 7.04E+06 | 3.52E-01 |
| 7.20E+11 | 1.63E-03 | 7.05E+06 | 3.50E-01 |
| 7.20E+11 | 1.62E-03 | 7.06E+06 | 3.48E-01 |
| 7.21E+11 | 1.61E-03 | 7.07E+06 | 3.46E-01 |
| 7.22E+11 | 1.60E-03 | 7.08E+06 | 3.43E-01 |
| 7.23E+11 | 1.59E-03 | 7.09E+06 | 3.41E-01 |
| 7.24E+11 | 1.58E-03 | 7.09E+06 | 3.39E-01 |
| 7.25E+11 | 1.57E-03 | 7.10E+06 | 3.37E-01 |
| 7.26E+11 | 1.56E-03 | 7.11E+06 | 3.35E-01 |
| 7.27E+11 | 1.55E-03 | 7.12E+06 | 3.33E-01 |
| 7.28E+11 | 1.54E-03 | 7.13E+06 | 3.31E-01 |
| 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 7.29E+11 | 1.53E-03 | 7.14E+06 | 3.28E-01 |
| 7.30E+11 | 1.52E-03 | 7.15E+06 | 3.26E-01 |
| 7.31E+11 | 1.51E-03 | 7.16E+06 | 3.24E-01 |
| 7.32E+11 | 1.50E-03 | 7.17E+06 | 3.22E-01 |
| 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.20E-01 |
| 7.33E+11 | 1.49E-03 | 7.18E+06 | 3.19E-01 |
| 7.34E+11 | 1.48E-03 | 7.19E+06 | 3.17E-01 |
| 7.35E+11 | 1.47E-03 | 7.20E+06 | 3.15E-01 |
| 7.36E+11 | 1.46E-03 | 7.21E+06 | 3.13E-01 |
| 7.37E+11 | 1.45E-03 | 7.22E+06 | 3.11E-01 |

| | | | |
|----------|----------|----------|----------|
| 7.37E+11 | 1.44E-03 | 7.23E+06 | 3.09E-01 |
| 7.38E+11 | 1.43E-03 | 7.24E+06 | 3.06E-01 |
| 7.39E+11 | 1.42E-03 | 7.25E+06 | 3.04E-01 |
| 7.41E+11 | 1.41E-03 | 7.26E+06 | 3.02E-01 |
| 7.42E+11 | 1.40E-03 | 7.27E+06 | 3.00E-01 |
| 7.43E+11 | 1.39E-03 | 7.28E+06 | 2.98E-01 |
| 7.43E+11 | 1.38E-03 | 7.28E+06 | 2.96E-01 |
| 7.44E+11 | 1.37E-03 | 7.30E+06 | 2.94E-01 |
| 7.45E+11 | 1.36E-03 | 7.30E+06 | 2.92E-01 |
| 7.46E+11 | 1.35E-03 | 7.31E+06 | 2.90E-01 |
| 7.47E+11 | 1.35E-03 | 7.32E+06 | 2.88E-01 |
| 7.48E+11 | 1.34E-03 | 7.33E+06 | 2.86E-01 |
| 7.49E+11 | 1.33E-03 | 7.34E+06 | 2.85E-01 |
| 7.49E+11 | 1.32E-03 | 7.34E+06 | 2.82E-01 |
| 7.50E+11 | 1.31E-03 | 7.35E+06 | 2.80E-01 |
| 7.51E+11 | 1.30E-03 | 7.36E+06 | 2.78E-01 |
| 7.52E+11 | 1.29E-03 | 7.37E+06 | 2.76E-01 |
| 7.54E+11 | 1.28E-03 | 7.38E+06 | 2.74E-01 |
| 7.55E+11 | 1.27E-03 | 7.39E+06 | 2.72E-01 |
| 7.56E+11 | 1.26E-03 | 7.40E+06 | 2.70E-01 |
| 7.56E+11 | 1.26E-03 | 7.41E+06 | 2.69E-01 |
| 7.57E+11 | 1.25E-03 | 7.42E+06 | 2.67E-01 |
| 7.58E+11 | 1.24E-03 | 7.43E+06 | 2.65E-01 |
| 7.59E+11 | 1.23E-03 | 7.44E+06 | 2.63E-01 |
| 7.60E+11 | 1.22E-03 | 7.44E+06 | 2.61E-01 |
| 7.61E+11 | 1.21E-03 | 7.45E+06 | 2.59E-01 |
| 7.61E+11 | 1.20E-03 | 7.46E+06 | 2.57E-01 |
| 7.62E+11 | 1.19E-03 | 7.47E+06 | 2.54E-01 |
| 7.64E+11 | 1.18E-03 | 7.48E+06 | 2.52E-01 |
| 7.65E+11 | 1.17E-03 | 7.49E+06 | 2.50E-01 |
| 7.66E+11 | 1.16E-03 | 7.50E+06 | 2.48E-01 |
| 7.67E+11 | 1.15E-03 | 7.52E+06 | 2.46E-01 |
| 7.68E+11 | 1.14E-03 | 7.53E+06 | 2.44E-01 |
| 7.69E+11 | 1.13E-03 | 7.54E+06 | 2.42E-01 |
| 7.70E+11 | 1.12E-03 | 7.54E+06 | 2.40E-01 |
| 7.71E+11 | 1.11E-03 | 7.55E+06 | 2.38E-01 |
| 7.72E+11 | 1.10E-03 | 7.56E+06 | 2.36E-01 |
| 7.73E+11 | 1.09E-03 | 7.57E+06 | 2.34E-01 |
| 7.74E+11 | 1.08E-03 | 7.58E+06 | 2.32E-01 |
| 7.75E+11 | 1.07E-03 | 7.59E+06 | 2.30E-01 |
| 7.76E+11 | 1.06E-03 | 7.61E+06 | 2.28E-01 |
| 7.77E+11 | 1.05E-03 | 7.62E+06 | 2.26E-01 |
| 7.78E+11 | 1.04E-03 | 7.63E+06 | 2.24E-01 |
| 7.79E+11 | 1.04E-03 | 7.63E+06 | 2.23E-01 |
| 7.80E+11 | 1.03E-03 | 7.64E+06 | 2.21E-01 |

| | | | |
|----------|----------|----------|----------|
| 7.81E+11 | 1.02E-03 | 7.65E+06 | 2.19E-01 |
| 7.82E+11 | 1.01E-03 | 7.66E+06 | 2.16E-01 |
| 7.83E+11 | 1.00E-03 | 7.67E+06 | 2.14E-01 |
| 7.83E+11 | 1.00E-03 | 7.68E+06 | 2.14E-01 |
| 7.84E+11 | 9.90E-04 | 7.69E+06 | 2.12E-01 |
| 7.85E+11 | 9.80E-04 | 7.70E+06 | 2.10E-01 |
| 7.86E+11 | 9.70E-04 | 7.71E+06 | 2.08E-01 |
| 7.87E+11 | 9.60E-04 | 7.71E+06 | 2.06E-01 |
| 7.88E+11 | 9.50E-04 | 7.72E+06 | 2.04E-01 |
| 7.89E+11 | 9.40E-04 | 7.74E+06 | 2.01E-01 |
| 7.91E+11 | 9.30E-04 | 7.75E+06 | 1.99E-01 |
| 7.91E+11 | 9.26E-04 | 7.75E+06 | 1.98E-01 |
| 7.92E+11 | 9.16E-04 | 7.76E+06 | 1.96E-01 |
| 7.93E+11 | 9.06E-04 | 7.77E+06 | 1.94E-01 |
| 7.94E+11 | 8.99E-04 | 7.78E+06 | 1.93E-01 |
| 7.95E+11 | 8.89E-04 | 7.79E+06 | 1.90E-01 |
| 7.96E+11 | 8.79E-04 | 7.80E+06 | 1.88E-01 |
| 7.97E+11 | 8.69E-04 | 7.81E+06 | 1.86E-01 |
| 7.97E+11 | 8.68E-04 | 7.81E+06 | 1.86E-01 |
| 7.98E+11 | 8.58E-04 | 7.82E+06 | 1.84E-01 |
| 7.99E+11 | 8.48E-04 | 7.83E+06 | 1.81E-01 |
| 8.00E+11 | 8.45E-04 | 7.84E+06 | 1.81E-01 |
| 8.00E+11 | 8.35E-04 | 7.84E+06 | 1.79E-01 |
| 8.01E+11 | 8.25E-04 | 7.85E+06 | 1.77E-01 |
| 8.02E+11 | 8.15E-04 | 7.86E+06 | 1.75E-01 |
| 8.03E+11 | 8.09E-04 | 7.87E+06 | 1.73E-01 |
| 8.04E+11 | 7.99E-04 | 7.88E+06 | 1.71E-01 |
| 8.04E+11 | 7.96E-04 | 7.88E+06 | 1.70E-01 |
| 8.05E+11 | 7.86E-04 | 7.88E+06 | 1.68E-01 |
| 8.06E+11 | 7.76E-04 | 7.89E+06 | 1.66E-01 |
| 8.06E+11 | 7.74E-04 | 7.89E+06 | 1.66E-01 |
| 8.06E+11 | 7.64E-04 | 7.90E+06 | 1.64E-01 |
| 8.07E+11 | 7.54E-04 | 7.90E+06 | 1.61E-01 |
| 8.07E+11 | 7.45E-04 | 7.91E+06 | 1.60E-01 |
| 8.09E+11 | 7.35E-04 | 7.93E+06 | 1.57E-01 |
| 8.10E+11 | 7.25E-04 | 7.94E+06 | 1.55E-01 |
| 8.10E+11 | 7.24E-04 | 7.94E+06 | 1.55E-01 |
| 8.12E+11 | 7.14E-04 | 7.96E+06 | 1.53E-01 |
| 8.14E+11 | 7.07E-04 | 7.98E+06 | 1.51E-01 |
| 8.18E+11 | 6.97E-04 | 8.02E+06 | 1.49E-01 |
| 8.20E+11 | 6.93E-04 | 8.03E+06 | 1.48E-01 |
| 8.23E+11 | 6.88E-04 | 8.06E+06 | 1.47E-01 |
| 8.28E+11 | 6.79E-04 | 8.12E+06 | 1.45E-01 |
| 8.29E+11 | 6.78E-04 | 8.12E+06 | 1.45E-01 |
| 8.30E+11 | 6.68E-04 | 8.13E+06 | 1.43E-01 |

| | | | |
|----------|----------|----------|----------|
| 8.30E+11 | 6.66E-04 | 8.13E+06 | 1.43E-01 |
| 8.26E+11 | 6.56E-04 | 8.10E+06 | 1.41E-01 |
| 8.26E+11 | 6.55E-04 | 8.09E+06 | 1.40E-01 |
| 8.20E+11 | 6.45E-04 | 8.04E+06 | 1.38E-01 |
| 8.15E+11 | 6.36E-04 | 7.98E+06 | 1.36E-01 |
| 8.10E+11 | 6.28E-04 | 7.94E+06 | 1.34E-01 |
| 8.07E+11 | 6.22E-04 | 7.90E+06 | 1.33E-01 |
| 8.02E+11 | 6.16E-04 | 7.86E+06 | 1.32E-01 |
| 8.01E+11 | 6.15E-04 | 7.84E+06 | 1.32E-01 |
| 7.88E+11 | 6.05E-04 | 7.72E+06 | 1.29E-01 |
| 7.82E+11 | 6.00E-04 | 7.66E+06 | 1.28E-01 |
| 7.69E+11 | 5.90E-04 | 7.54E+06 | 1.26E-01 |
| 7.56E+11 | 5.80E-04 | 7.41E+06 | 1.24E-01 |
| 7.43E+11 | 5.70E-04 | 7.28E+06 | 1.22E-01 |
| 7.30E+11 | 5.60E-04 | 7.16E+06 | 1.20E-01 |
| 7.17E+11 | 5.50E-04 | 7.03E+06 | 1.18E-01 |
| 7.04E+11 | 5.40E-04 | 6.90E+06 | 1.16E-01 |
| 6.91E+11 | 5.30E-04 | 6.77E+06 | 1.13E-01 |
| 6.78E+11 | 5.20E-04 | 6.65E+06 | 1.11E-01 |
| 6.65E+11 | 5.10E-04 | 6.52E+06 | 1.09E-01 |
| 6.52E+11 | 5.00E-04 | 6.39E+06 | 1.07E-01 |
| 6.39E+11 | 4.90E-04 | 6.26E+06 | 1.05E-01 |
| 6.26E+11 | 4.80E-04 | 6.13E+06 | 1.03E-01 |
| 6.13E+11 | 4.70E-04 | 6.01E+06 | 1.01E-01 |
| 6.00E+11 | 4.60E-04 | 5.88E+06 | 9.85E-02 |
| 5.87E+11 | 4.50E-04 | 5.75E+06 | 9.64E-02 |
| 5.74E+11 | 4.40E-04 | 5.62E+06 | 9.42E-02 |
| 5.61E+11 | 4.30E-04 | 5.50E+06 | 9.21E-02 |
| 5.48E+11 | 4.20E-04 | 5.37E+06 | 8.99E-02 |
| 5.35E+11 | 4.10E-04 | 5.24E+06 | 8.78E-02 |
| 5.22E+11 | 4.00E-04 | 5.11E+06 | 8.57E-02 |
| 5.09E+11 | 3.90E-04 | 4.98E+06 | 8.35E-02 |
| 4.96E+11 | 3.80E-04 | 4.86E+06 | 8.14E-02 |
| 4.83E+11 | 3.70E-04 | 4.73E+06 | 7.92E-02 |
| 4.70E+11 | 3.60E-04 | 4.60E+06 | 7.71E-02 |
| 4.56E+11 | 3.50E-04 | 4.47E+06 | 7.49E-02 |
| 4.43E+11 | 3.40E-04 | 4.35E+06 | 7.28E-02 |
| 4.30E+11 | 3.30E-04 | 4.22E+06 | 7.07E-02 |
| 4.17E+11 | 3.20E-04 | 4.09E+06 | 6.85E-02 |
| 4.04E+11 | 3.10E-04 | 3.96E+06 | 6.64E-02 |
| 3.91E+11 | 3.00E-04 | 3.83E+06 | 6.42E-02 |
| 3.78E+11 | 2.90E-04 | 3.71E+06 | 6.21E-02 |
| 3.65E+11 | 2.80E-04 | 3.58E+06 | 6.00E-02 |
| 3.52E+11 | 2.70E-04 | 3.45E+06 | 5.78E-02 |
| 3.39E+11 | 2.60E-04 | 3.32E+06 | 5.57E-02 |

| | | | |
|-----------|-----------|-----------|-----------|
| 3.26E+11 | 2.50E-04 | 3.19E+06 | 5.35E-02 |
| 3.13E+11 | 2.40E-04 | 3.07E+06 | 5.14E-02 |
| 3.00E+11 | 2.30E-04 | 2.94E+06 | 4.93E-02 |
| 2.87E+11 | 2.20E-04 | 2.81E+06 | 4.71E-02 |
| 2.74E+11 | 2.10E-04 | 2.68E+06 | 4.50E-02 |
| 2.61E+11 | 2.00E-04 | 2.56E+06 | 4.28E-02 |
| 2.48E+11 | 1.90E-04 | 2.43E+06 | 4.07E-02 |
| 2.35E+11 | 1.80E-04 | 2.30E+06 | 3.85E-02 |
| 2.22E+11 | 1.70E-04 | 2.17E+06 | 3.64E-02 |
| 2.09E+11 | 1.60E-04 | 2.05E+06 | 3.43E-02 |
| 1.96E+11 | 1.50E-04 | 1.92E+06 | 3.21E-02 |
| 1.83E+11 | 1.40E-04 | 1.79E+06 | 3.00E-02 |
| 1.70E+11 | 1.30E-04 | 1.66E+06 | 2.78E-02 |
| 1.57E+11 | 1.20E-04 | 1.53E+06 | 2.57E-02 |
| 1.44E+11 | 1.10E-04 | 1.41E+06 | 2.36E-02 |
| 1.30E+11 | 1.00E-04 | 1.28E+06 | 2.14E-02 |
| 1.17E+11 | 9.00E-05 | 1.15E+06 | 1.93E-02 |
| 1.04E+11 | 8.00E-05 | 1.02E+06 | 1.71E-02 |
| 9.13E+10 | 7.00E-05 | 8.95E+05 | 1.50E-02 |
| 7.83E+10 | 6.00E-05 | 7.67E+05 | 1.28E-02 |
| 6.52E+10 | 5.00E-05 | 6.39E+05 | 1.07E-02 |
| 5.22E+10 | 4.00E-05 | 5.11E+05 | 8.57E-03 |
| 3.91E+10 | 3.00E-05 | 3.83E+05 | 6.42E-03 |
| 2.61E+10 | 2.00E-05 | 2.56E+05 | 4.28E-03 |
| 1.30E+10 | 1.00E-05 | 1.28E+05 | 2.14E-03 |
| 1.17E+10 | 9.00E-06 | 1.15E+05 | 1.93E-03 |
| 1.04E+10 | 8.00E-06 | 1.02E+05 | 1.71E-03 |
| 9.13E+09 | 7.00E-06 | 8.95E+04 | 1.50E-03 |
| 7.83E+09 | 6.00E-06 | 7.67E+04 | 1.28E-03 |
| 6.52E+09 | 5.00E-06 | 6.39E+04 | 1.07E-03 |
| 5.22E+09 | 4.00E-06 | 5.11E+04 | 8.57E-04 |
| 3.91E+09 | 3.00E-06 | 3.83E+04 | 6.42E-04 |
| 2.61E+09 | 2.00E-06 | 2.56E+04 | 4.28E-04 |
| 1.31E+09 | 1.00E-06 | 1.28E+04 | 2.14E-04 |
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| -1.31E+09 | -1.00E-06 | -1.28E+04 | -2.14E-04 |
| -2.61E+09 | -2.00E-06 | -2.56E+04 | -4.28E-04 |
| -3.91E+09 | -3.00E-06 | -3.84E+04 | -6.42E-04 |
| -5.22E+09 | -4.00E-06 | -5.11E+04 | -8.57E-04 |
| -6.52E+09 | -5.00E-06 | -6.39E+04 | -1.07E-03 |
| -7.83E+09 | -6.00E-06 | -7.67E+04 | -1.28E-03 |
| -9.13E+09 | -7.00E-06 | -8.95E+04 | -1.50E-03 |
| -1.04E+10 | -8.00E-06 | -1.02E+05 | -1.71E-03 |
| -1.17E+10 | -9.00E-06 | -1.15E+05 | -1.93E-03 |
| -1.30E+10 | -1.00E-05 | -1.28E+05 | -2.14E-03 |

| | | | |
|-----------|-----------|-----------|-----------|
| -2.61E+10 | -2.00E-05 | -2.56E+05 | -4.28E-03 |
| -3.91E+10 | -3.00E-05 | -3.83E+05 | -6.42E-03 |
| -5.22E+10 | -4.00E-05 | -5.11E+05 | -8.57E-03 |
| -6.52E+10 | -5.00E-05 | -6.39E+05 | -1.07E-02 |
| -7.83E+10 | -6.00E-05 | -7.67E+05 | -1.28E-02 |
| -9.13E+10 | -7.00E-05 | -8.95E+05 | -1.50E-02 |
| -1.04E+11 | -8.00E-05 | -1.02E+06 | -1.71E-02 |
| -1.17E+11 | -9.00E-05 | -1.15E+06 | -1.93E-02 |
| -1.30E+11 | -1.00E-04 | -1.28E+06 | -2.14E-02 |
| -1.44E+11 | -1.10E-04 | -1.41E+06 | -2.36E-02 |
| -1.57E+11 | -1.20E-04 | -1.53E+06 | -2.57E-02 |
| -1.70E+11 | -1.30E-04 | -1.66E+06 | -2.78E-02 |
| -1.83E+11 | -1.40E-04 | -1.79E+06 | -3.00E-02 |
| -1.96E+11 | -1.50E-04 | -1.92E+06 | -3.21E-02 |
| -2.09E+11 | -1.60E-04 | -2.05E+06 | -3.43E-02 |
| -2.22E+11 | -1.70E-04 | -2.17E+06 | -3.64E-02 |
| -2.35E+11 | -1.80E-04 | -2.30E+06 | -3.85E-02 |
| -2.48E+11 | -1.90E-04 | -2.43E+06 | -4.07E-02 |
| -2.61E+11 | -2.00E-04 | -2.56E+06 | -4.28E-02 |
| -2.74E+11 | -2.10E-04 | -2.68E+06 | -4.50E-02 |
| -2.87E+11 | -2.20E-04 | -2.81E+06 | -4.71E-02 |
| -3.00E+11 | -2.30E-04 | -2.94E+06 | -4.93E-02 |
| -3.13E+11 | -2.40E-04 | -3.07E+06 | -5.14E-02 |
| -3.26E+11 | -2.50E-04 | -3.20E+06 | -5.35E-02 |
| -3.39E+11 | -2.60E-04 | -3.32E+06 | -5.57E-02 |
| -3.52E+11 | -2.70E-04 | -3.45E+06 | -5.78E-02 |
| -3.65E+11 | -2.80E-04 | -3.58E+06 | -6.00E-02 |
| -3.78E+11 | -2.90E-04 | -3.71E+06 | -6.21E-02 |
| -3.91E+11 | -3.00E-04 | -3.83E+06 | -6.42E-02 |
| -4.04E+11 | -3.10E-04 | -3.96E+06 | -6.64E-02 |
| -4.17E+11 | -3.20E-04 | -4.09E+06 | -6.85E-02 |
| -4.30E+11 | -3.30E-04 | -4.22E+06 | -7.07E-02 |
| -4.43E+11 | -3.40E-04 | -4.35E+06 | -7.28E-02 |
| -4.57E+11 | -3.50E-04 | -4.47E+06 | -7.49E-02 |
| -4.70E+11 | -3.60E-04 | -4.60E+06 | -7.71E-02 |
| -4.83E+11 | -3.70E-04 | -4.73E+06 | -7.92E-02 |
| -4.96E+11 | -3.80E-04 | -4.86E+06 | -8.14E-02 |
| -5.09E+11 | -3.90E-04 | -4.98E+06 | -8.35E-02 |
| -5.22E+11 | -4.00E-04 | -5.11E+06 | -8.57E-02 |
| -5.35E+11 | -4.10E-04 | -5.24E+06 | -8.78E-02 |
| -5.48E+11 | -4.20E-04 | -5.37E+06 | -8.99E-02 |
| -5.61E+11 | -4.30E-04 | -5.50E+06 | -9.21E-02 |
| -5.74E+11 | -4.40E-04 | -5.62E+06 | -9.42E-02 |
| -5.87E+11 | -4.50E-04 | -5.75E+06 | -9.64E-02 |
| -6.00E+11 | -4.60E-04 | -5.88E+06 | -9.85E-02 |

| | | | |
|-----------|-----------|-----------|-----------|
| -6.13E+11 | -4.70E-04 | -6.01E+06 | -1.01E-01 |
| -6.26E+11 | -4.80E-04 | -6.13E+06 | -1.03E-01 |
| -6.39E+11 | -4.90E-04 | -6.26E+06 | -1.05E-01 |
| -6.52E+11 | -5.00E-04 | -6.39E+06 | -1.07E-01 |
| -6.65E+11 | -5.10E-04 | -6.52E+06 | -1.09E-01 |
| -6.78E+11 | -5.20E-04 | -6.65E+06 | -1.11E-01 |
| -6.91E+11 | -5.30E-04 | -6.77E+06 | -1.13E-01 |
| -7.04E+11 | -5.40E-04 | -6.90E+06 | -1.16E-01 |
| -7.17E+11 | -5.50E-04 | -7.03E+06 | -1.18E-01 |
| -7.30E+11 | -5.60E-04 | -7.16E+06 | -1.20E-01 |
| -7.43E+11 | -5.70E-04 | -7.28E+06 | -1.22E-01 |
| -7.56E+11 | -5.80E-04 | -7.41E+06 | -1.24E-01 |
| -7.69E+11 | -5.90E-04 | -7.54E+06 | -1.26E-01 |
| -7.82E+11 | -6.00E-04 | -7.67E+06 | -1.28E-01 |
| -7.95E+11 | -6.10E-04 | -7.79E+06 | -1.31E-01 |
| -8.04E+11 | -6.17E-04 | -7.88E+06 | -1.32E-01 |
| -8.15E+11 | -6.25E-04 | -7.99E+06 | -1.34E-01 |
| -8.19E+11 | -6.31E-04 | -8.03E+06 | -1.35E-01 |
| -8.25E+11 | -6.40E-04 | -8.08E+06 | -1.37E-01 |
| -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.32E+11 | -6.50E-04 | -8.15E+06 | -1.39E-01 |
| -8.37E+11 | -6.58E-04 | -8.21E+06 | -1.41E-01 |
| -8.41E+11 | -6.64E-04 | -8.24E+06 | -1.42E-01 |
| -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.47E+11 | -6.74E-04 | -8.30E+06 | -1.44E-01 |
| -8.51E+11 | -6.83E-04 | -8.34E+06 | -1.46E-01 |
| -8.56E+11 | -6.92E-04 | -8.38E+06 | -1.48E-01 |
| -8.59E+11 | -7.02E-04 | -8.42E+06 | -1.50E-01 |
| -8.63E+11 | -7.12E-04 | -8.45E+06 | -1.53E-01 |
| -8.63E+11 | -7.13E-04 | -8.46E+06 | -1.53E-01 |
| -8.65E+11 | -7.20E-04 | -8.48E+06 | -1.54E-01 |
| -8.66E+11 | -7.27E-04 | -8.49E+06 | -1.56E-01 |
| -8.67E+11 | -7.33E-04 | -8.49E+06 | -1.57E-01 |
| -8.67E+11 | -7.43E-04 | -8.49E+06 | -1.59E-01 |
| -8.67E+11 | -7.53E-04 | -8.49E+06 | -1.61E-01 |
| -8.67E+11 | -7.61E-04 | -8.49E+06 | -1.63E-01 |
| -8.67E+11 | -7.68E-04 | -8.49E+06 | -1.64E-01 |
| -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.66E+11 | -7.78E-04 | -8.49E+06 | -1.67E-01 |
| -8.66E+11 | -7.85E-04 | -8.48E+06 | -1.68E-01 |
| -8.65E+11 | -7.92E-04 | -8.48E+06 | -1.69E-01 |
| -8.64E+11 | -7.99E-04 | -8.47E+06 | -1.71E-01 |
| -8.62E+11 | -8.06E-04 | -8.45E+06 | -1.73E-01 |
| -8.60E+11 | -8.15E-04 | -8.42E+06 | -1.74E-01 |
| -8.56E+11 | -8.22E-04 | -8.38E+06 | -1.76E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -8.48E+11 | -8.32E-04 | -8.31E+06 | -1.78E-01 |
| -8.37E+11 | -8.42E-04 | -8.20E+06 | -1.80E-01 |
| -8.31E+11 | -8.47E-04 | -8.14E+06 | -1.81E-01 |
| -8.16E+11 | -8.57E-04 | -7.99E+06 | -1.84E-01 |
| -8.11E+11 | -8.61E-04 | -7.95E+06 | -1.84E-01 |
| -7.98E+11 | -8.71E-04 | -7.82E+06 | -1.86E-01 |
| -7.93E+11 | -8.77E-04 | -7.77E+06 | -1.88E-01 |
| -7.85E+11 | -8.87E-04 | -7.69E+06 | -1.90E-01 |
| -7.79E+11 | -8.97E-04 | -7.63E+06 | -1.92E-01 |
| -7.78E+11 | -8.98E-04 | -7.63E+06 | -1.92E-01 |
| -7.73E+11 | -9.08E-04 | -7.58E+06 | -1.94E-01 |
| -7.69E+11 | -9.18E-04 | -7.54E+06 | -1.97E-01 |
| -7.68E+11 | -9.22E-04 | -7.52E+06 | -1.97E-01 |
| -7.63E+11 | -9.32E-04 | -7.48E+06 | -1.99E-01 |
| -7.60E+11 | -9.42E-04 | -7.44E+06 | -2.02E-01 |
| -7.57E+11 | -9.50E-04 | -7.41E+06 | -2.03E-01 |
| -7.53E+11 | -9.60E-04 | -7.38E+06 | -2.06E-01 |
| -7.50E+11 | -9.70E-04 | -7.35E+06 | -2.08E-01 |
| -7.48E+11 | -9.77E-04 | -7.33E+06 | -2.09E-01 |
| -7.45E+11 | -9.87E-04 | -7.30E+06 | -2.11E-01 |
| -7.42E+11 | -9.95E-04 | -7.27E+06 | -2.13E-01 |
| -7.39E+11 | -1.01E-03 | -7.24E+06 | -2.15E-01 |
| -7.36E+11 | -1.02E-03 | -7.21E+06 | -2.17E-01 |
| -7.33E+11 | -1.03E-03 | -7.19E+06 | -2.19E-01 |
| -7.33E+11 | -1.03E-03 | -7.18E+06 | -2.20E-01 |
| -7.30E+11 | -1.04E-03 | -7.16E+06 | -2.22E-01 |
| -7.28E+11 | -1.05E-03 | -7.13E+06 | -2.24E-01 |
| -7.25E+11 | -1.06E-03 | -7.11E+06 | -2.26E-01 |
| -7.22E+11 | -1.07E-03 | -7.08E+06 | -2.28E-01 |
| -7.20E+11 | -1.08E-03 | -7.05E+06 | -2.30E-01 |
| -7.17E+11 | -1.09E-03 | -7.02E+06 | -2.33E-01 |
| -7.14E+11 | -1.10E-03 | -7.00E+06 | -2.35E-01 |
| -7.12E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.11E+11 | -1.11E-03 | -6.97E+06 | -2.37E-01 |
| -7.09E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.08E+11 | -1.12E-03 | -6.94E+06 | -2.40E-01 |
| -7.07E+11 | -1.13E-03 | -6.92E+06 | -2.41E-01 |
| -7.04E+11 | -1.14E-03 | -6.90E+06 | -2.43E-01 |
| -7.01E+11 | -1.15E-03 | -6.87E+06 | -2.46E-01 |
| -6.99E+11 | -1.16E-03 | -6.85E+06 | -2.48E-01 |
| -6.96E+11 | -1.17E-03 | -6.82E+06 | -2.50E-01 |
| -6.94E+11 | -1.18E-03 | -6.80E+06 | -2.52E-01 |
| -6.92E+11 | -1.19E-03 | -6.78E+06 | -2.54E-01 |
| -6.89E+11 | -1.20E-03 | -6.76E+06 | -2.56E-01 |
| -6.89E+11 | -1.20E-03 | -6.75E+06 | -2.57E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -6.87E+11 | -1.21E-03 | -6.73E+06 | -2.59E-01 |
| -6.85E+11 | -1.22E-03 | -6.72E+06 | -2.60E-01 |
| -6.84E+11 | -1.22E-03 | -6.70E+06 | -2.62E-01 |
| -6.81E+11 | -1.23E-03 | -6.67E+06 | -2.64E-01 |
| -6.79E+11 | -1.24E-03 | -6.65E+06 | -2.66E-01 |
| -6.76E+11 | -1.25E-03 | -6.63E+06 | -2.68E-01 |
| -6.74E+11 | -1.26E-03 | -6.61E+06 | -2.70E-01 |
| -6.72E+11 | -1.27E-03 | -6.58E+06 | -2.73E-01 |
| -6.70E+11 | -1.28E-03 | -6.56E+06 | -2.75E-01 |
| -6.68E+11 | -1.29E-03 | -6.54E+06 | -2.77E-01 |
| -6.66E+11 | -1.30E-03 | -6.52E+06 | -2.79E-01 |
| -6.64E+11 | -1.31E-03 | -6.50E+06 | -2.81E-01 |
| -6.63E+11 | -1.32E-03 | -6.50E+06 | -2.82E-01 |
| -6.61E+11 | -1.33E-03 | -6.48E+06 | -2.84E-01 |
| -6.59E+11 | -1.34E-03 | -6.46E+06 | -2.86E-01 |
| -6.57E+11 | -1.35E-03 | -6.43E+06 | -2.88E-01 |
| -6.54E+11 | -1.36E-03 | -6.41E+06 | -2.90E-01 |
| -6.52E+11 | -1.37E-03 | -6.39E+06 | -2.92E-01 |
| -6.50E+11 | -1.38E-03 | -6.37E+06 | -2.94E-01 |
| -6.48E+11 | -1.39E-03 | -6.35E+06 | -2.97E-01 |
| -6.46E+11 | -1.40E-03 | -6.33E+06 | -2.99E-01 |
| -6.44E+11 | -1.41E-03 | -6.31E+06 | -3.01E-01 |
| -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.03E-01 |
| -6.42E+11 | -1.42E-03 | -6.29E+06 | -3.04E-01 |
| -6.40E+11 | -1.43E-03 | -6.27E+06 | -3.06E-01 |
| -6.39E+11 | -1.43E-03 | -6.26E+06 | -3.07E-01 |
| -6.37E+11 | -1.44E-03 | -6.24E+06 | -3.09E-01 |
| -6.35E+11 | -1.45E-03 | -6.22E+06 | -3.11E-01 |
| -6.33E+11 | -1.46E-03 | -6.21E+06 | -3.13E-01 |
| -6.31E+11 | -1.47E-03 | -6.19E+06 | -3.15E-01 |
| -6.31E+11 | -1.48E-03 | -6.18E+06 | -3.16E-01 |
| -6.29E+11 | -1.49E-03 | -6.16E+06 | -3.18E-01 |
| -6.27E+11 | -1.50E-03 | -6.14E+06 | -3.20E-01 |
| -6.25E+11 | -1.51E-03 | -6.12E+06 | -3.22E-01 |
| -6.23E+11 | -1.52E-03 | -6.11E+06 | -3.24E-01 |
| -6.21E+11 | -1.53E-03 | -6.09E+06 | -3.27E-01 |
| -6.20E+11 | -1.54E-03 | -6.07E+06 | -3.29E-01 |
| -6.18E+11 | -1.55E-03 | -6.05E+06 | -3.31E-01 |
| -6.16E+11 | -1.56E-03 | -6.04E+06 | -3.33E-01 |
| -6.15E+11 | -1.57E-03 | -6.02E+06 | -3.35E-01 |
| -6.14E+11 | -1.57E-03 | -6.02E+06 | -3.36E-01 |
| -6.12E+11 | -1.58E-03 | -6.00E+06 | -3.38E-01 |
| -6.10E+11 | -1.59E-03 | -5.98E+06 | -3.40E-01 |
| -6.09E+11 | -1.60E-03 | -5.96E+06 | -3.42E-01 |
| -6.07E+11 | -1.61E-03 | -5.95E+06 | -3.45E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -6.05E+11 | -1.62E-03 | -5.93E+06 | -3.47E-01 |
| -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -6.03E+11 | -1.63E-03 | -5.91E+06 | -3.49E-01 |
| -6.02E+11 | -1.64E-03 | -5.90E+06 | -3.51E-01 |
| -6.00E+11 | -1.65E-03 | -5.88E+06 | -3.53E-01 |
| -5.98E+11 | -1.66E-03 | -5.86E+06 | -3.55E-01 |
| -5.97E+11 | -1.67E-03 | -5.85E+06 | -3.57E-01 |
| -5.95E+11 | -1.68E-03 | -5.83E+06 | -3.60E-01 |
| -5.94E+11 | -1.69E-03 | -5.82E+06 | -3.62E-01 |
| -5.92E+11 | -1.70E-03 | -5.80E+06 | -3.64E-01 |
| -5.91E+11 | -1.71E-03 | -5.79E+06 | -3.66E-01 |
| -5.89E+11 | -1.72E-03 | -5.77E+06 | -3.68E-01 |
| -5.88E+11 | -1.73E-03 | -5.77E+06 | -3.69E-01 |
| -5.87E+11 | -1.74E-03 | -5.75E+06 | -3.72E-01 |
| -5.85E+11 | -1.75E-03 | -5.74E+06 | -3.74E-01 |
| -5.84E+11 | -1.76E-03 | -5.72E+06 | -3.76E-01 |
| -5.82E+11 | -1.77E-03 | -5.71E+06 | -3.78E-01 |
| -5.81E+11 | -1.78E-03 | -5.69E+06 | -3.80E-01 |
| -5.79E+11 | -1.79E-03 | -5.68E+06 | -3.82E-01 |
| -5.78E+11 | -1.80E-03 | -5.66E+06 | -3.84E-01 |
| -5.76E+11 | -1.81E-03 | -5.65E+06 | -3.87E-01 |
| -5.75E+11 | -1.82E-03 | -5.64E+06 | -3.89E-01 |
| -5.74E+11 | -1.83E-03 | -5.62E+06 | -3.91E-01 |
| -5.73E+11 | -1.83E-03 | -5.61E+06 | -3.93E-01 |
| -5.71E+11 | -1.84E-03 | -5.60E+06 | -3.95E-01 |
| -5.70E+11 | -1.85E-03 | -5.59E+06 | -3.97E-01 |
| -5.69E+11 | -1.86E-03 | -5.57E+06 | -3.99E-01 |
| -5.67E+11 | -1.87E-03 | -5.56E+06 | -4.01E-01 |
| -5.66E+11 | -1.88E-03 | -5.55E+06 | -4.03E-01 |
| -5.65E+11 | -1.89E-03 | -5.53E+06 | -4.05E-01 |
| -5.63E+11 | -1.90E-03 | -5.52E+06 | -4.07E-01 |
| -5.62E+11 | -1.91E-03 | -5.51E+06 | -4.10E-01 |
| -5.61E+11 | -1.92E-03 | -5.50E+06 | -4.12E-01 |
| -5.61E+11 | -1.93E-03 | -5.49E+06 | -4.12E-01 |
| -5.59E+11 | -1.94E-03 | -5.48E+06 | -4.14E-01 |
| -5.58E+11 | -1.95E-03 | -5.47E+06 | -4.16E-01 |
| -5.57E+11 | -1.96E-03 | -5.45E+06 | -4.19E-01 |
| -5.55E+11 | -1.97E-03 | -5.44E+06 | -4.21E-01 |
| -5.54E+11 | -1.98E-03 | -5.43E+06 | -4.23E-01 |
| -5.53E+11 | -1.99E-03 | -5.42E+06 | -4.25E-01 |
| -5.51E+11 | -2.00E-03 | -5.40E+06 | -4.27E-01 |
| -5.50E+11 | -2.01E-03 | -5.39E+06 | -4.29E-01 |
| -5.49E+11 | -2.02E-03 | -5.38E+06 | -4.31E-01 |
| -5.48E+11 | -2.03E-03 | -5.37E+06 | -4.34E-01 |
| -5.47E+11 | -2.04E-03 | -5.36E+06 | -4.36E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -5.46E+11 | -2.05E-03 | -5.35E+06 | -4.38E-01 |
| -5.44E+11 | -2.06E-03 | -5.34E+06 | -4.40E-01 |
| -5.43E+11 | -2.07E-03 | -5.32E+06 | -4.42E-01 |
| -5.42E+11 | -2.08E-03 | -5.31E+06 | -4.44E-01 |
| -5.41E+11 | -2.09E-03 | -5.30E+06 | -4.46E-01 |
| -5.40E+11 | -2.10E-03 | -5.29E+06 | -4.49E-01 |
| -5.39E+11 | -2.11E-03 | -5.28E+06 | -4.51E-01 |
| -5.38E+11 | -2.12E-03 | -5.27E+06 | -4.53E-01 |
| -5.37E+11 | -2.13E-03 | -5.26E+06 | -4.55E-01 |
| -5.36E+11 | -2.14E-03 | -5.25E+06 | -4.57E-01 |
| -5.35E+11 | -2.15E-03 | -5.24E+06 | -4.59E-01 |
| -5.34E+11 | -2.16E-03 | -5.23E+06 | -4.61E-01 |
| -5.32E+11 | -2.17E-03 | -5.22E+06 | -4.64E-01 |
| -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.31E+11 | -2.18E-03 | -5.21E+06 | -4.66E-01 |
| -5.30E+11 | -2.19E-03 | -5.20E+06 | -4.68E-01 |
| -5.29E+11 | -2.20E-03 | -5.19E+06 | -4.70E-01 |
| -5.28E+11 | -2.21E-03 | -5.17E+06 | -4.72E-01 |
| -5.27E+11 | -2.22E-03 | -5.16E+06 | -4.75E-01 |
| -5.26E+11 | -2.23E-03 | -5.15E+06 | -4.77E-01 |
| -5.25E+11 | -2.24E-03 | -5.14E+06 | -4.79E-01 |
| -5.24E+11 | -2.25E-03 | -5.13E+06 | -4.81E-01 |
| -5.23E+11 | -2.26E-03 | -5.12E+06 | -4.83E-01 |
| -5.21E+11 | -2.27E-03 | -5.11E+06 | -4.85E-01 |
| -5.20E+11 | -2.28E-03 | -5.10E+06 | -4.87E-01 |
| -5.19E+11 | -2.29E-03 | -5.09E+06 | -4.90E-01 |
| -5.19E+11 | -2.30E-03 | -5.08E+06 | -4.92E-01 |
| -5.18E+11 | -2.31E-03 | -5.07E+06 | -4.94E-01 |
| -5.17E+11 | -2.32E-03 | -5.06E+06 | -4.96E-01 |
| -5.16E+11 | -2.33E-03 | -5.05E+06 | -4.98E-01 |
| -5.15E+11 | -2.34E-03 | -5.05E+06 | -5.00E-01 |
| -5.14E+11 | -2.35E-03 | -5.04E+06 | -5.02E-01 |
| -5.13E+11 | -2.36E-03 | -5.03E+06 | -5.04E-01 |
| -5.12E+11 | -2.37E-03 | -5.02E+06 | -5.07E-01 |
| -5.11E+11 | -2.38E-03 | -5.01E+06 | -5.09E-01 |
| -5.10E+11 | -2.39E-03 | -5.00E+06 | -5.11E-01 |
| -5.10E+11 | -2.40E-03 | -4.99E+06 | -5.13E-01 |
| -5.09E+11 | -2.41E-03 | -4.99E+06 | -5.15E-01 |
| -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.17E-01 |
| -5.08E+11 | -2.42E-03 | -4.98E+06 | -5.18E-01 |
| -5.07E+11 | -2.43E-03 | -4.97E+06 | -5.20E-01 |
| -5.06E+11 | -2.44E-03 | -4.96E+06 | -5.22E-01 |
| -5.05E+11 | -2.45E-03 | -4.95E+06 | -5.24E-01 |
| -5.04E+11 | -2.46E-03 | -4.94E+06 | -5.26E-01 |
| -5.03E+11 | -2.47E-03 | -4.93E+06 | -5.28E-01 |

| | | | |
|-----------|-----------|-----------|-----------|
| -5.02E+11 | -2.48E-03 | -4.92E+06 | -5.30E-01 |
| -5.02E+11 | -2.49E-03 | -4.92E+06 | -5.33E-01 |
| -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -5.01E+11 | -2.50E-03 | -4.91E+06 | -5.35E-01 |
| -5.00E+11 | -2.51E-03 | -4.90E+06 | -5.37E-01 |
| -4.99E+11 | -2.52E-03 | -4.89E+06 | -5.39E-01 |
| -4.98E+11 | -2.53E-03 | -4.88E+06 | -5.41E-01 |
| -4.97E+11 | -2.54E-03 | -4.87E+06 | -5.43E-01 |
| -4.96E+11 | -2.55E-03 | -4.86E+06 | -5.46E-01 |
| -4.95E+11 | -2.56E-03 | -4.85E+06 | -5.48E-01 |
| -4.95E+11 | -2.57E-03 | -4.85E+06 | -5.50E-01 |
| -4.94E+11 | -2.58E-03 | -4.84E+06 | -5.52E-01 |
| -4.93E+11 | -2.59E-03 | -4.83E+06 | -5.54E-01 |
| -4.92E+11 | -2.60E-03 | -4.82E+06 | -5.56E-01 |
| -4.91E+11 | -2.61E-03 | -4.81E+06 | -5.58E-01 |
| -4.91E+11 | -2.62E-03 | -4.81E+06 | -5.61E-01 |
| -4.90E+11 | -2.63E-03 | -4.80E+06 | -5.63E-01 |
| -4.89E+11 | -2.64E-03 | -4.79E+06 | -5.65E-01 |
| -4.88E+11 | -2.65E-03 | -4.78E+06 | -5.67E-01 |

Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Muhammad Zubair Muis Alie^{1, a *}, Wahyuddin^{1, b}, Syamsul Asri^{1, c}, Farianto Fachruddin Lage^{1, d}, Juswan^{1, e} and Taufiqur Rachman^{1, f}

¹Department of Naval Architecture and Ocean Engineering, Engineering Faculty, Hasanuddin University, Indonesia

^azubair.m@eng.unhas.ac.id, ^bwahyumustafa@yahoo.co.id, ^csa_tanri_kapal83@yahoo.com, ^dfariantorma@gmail.com, ^ejuswansade@gmail.com, and ^focean_d321@yahoo.com,

Keywords: VLCC, cross section, longitudinal bending, damages

Abstract. The objective of the present study is to analyze the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Introduction

Grounding and collision damages may occur on ship when it operates at sea. The grounding and collision accidents of liquid cargo such as crude oil carriers effect the ship structure becomes damage and the oil spills makes the ocean environment polluted. In conjunction with this, the design of ship structure must be considered as one of the functional requirement for structural safety.

The investigations of ship damage due to grounding and collision have been conducted by some research. The mechanics of grounding on relatively plane slopes were analyzed with emphasis on evaluation of the overall forces on the ship hull girder was presented by Pedersen [1]. To get at much insight as possible into the mechanics of ship grounding, simplifications to the problem were sought such that analytical solutions could be derived. The same assumption as that used in the method of Wierzbicki and Thomas for a separated curved surface was employed by Zhang [2], in which the material rolls up into two curved surfaces behind the wedge tip. Damage to ship bottom in grounding accident is quite complex. So, a semi empirical method was proposed for determining bottom damage resistance in grounding scenario. Finally, simple expression, expressed in terms of the ship's principal particulars, for determining damage resistance and damage extent in ship grounding were presented. An investigation of the longitudinal strength of damaged ship hulls for a broad spectrum of collision and grounding accidents was reported by Wang [3]. Both the hull girder section modulus and hull girder ultimate strength were calculated. The aim is to obtain simple relations to assess residual hull girder strength, which may be used as handy and reliable tools to help make timely decisions in the event of an emergency. Muis Alie, M.Z [4] analyzed the residual

strength of asymmetrically damaged ship hull girder under longitudinal bending. Beam finite element method was used for the assessment of residual strength of two single hull bulk carriers and a three-cargo hold model of a single-side Panamax Bulk Carrier in hogging and sagging conditions. A fast and reasonably accurate method for exploring the collapse of hull girder in the damage condition was developed by Paik [5]. Location and amount of collision and grounding damage were defined based on the ABS safe hull guide. To characterize residual strength, an elastic section modulus based residual strength index and an ultimate bending strength based residual strength index were defined. As an illustrative example, these indices were obtained for the hull girder collapse of a hypothetical Panamax class bulk carrier after collision and grounding.

In the present study, a VLCC hull girder with damages subjected to longitudinal bending is analyzed. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The welding residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Analytical Formulation

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1. The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution. Although the grounding or collision damages takes place at the asymmetric position, the cross section is assumed to be remained plane. In conjunction with this, the axial strain at the structural element caused by vertical and horizontal curvature can be expressed as

$$\varepsilon_i(y_i, z_i) = \varepsilon_0 + y_i \varphi_H + z_i \varphi_V \quad (1)$$

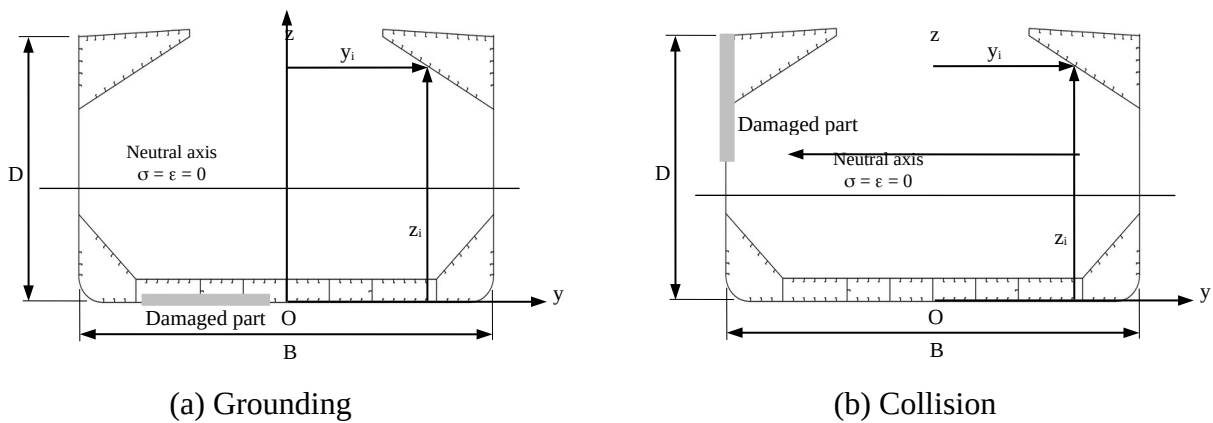


Fig. 1 Damages on the ship cross section

Where ε_0 , φ_H and φ_V are the axial strain at the origin O, horizontal curvature and vertical curvature respectively. The y and z are the coordinates with the origin at the bottom keel are defined according to Fig. 1. The relationship between axial stress and axial strain to calculate the individual element can be expressed by the following equation,

$$\sigma = f_i(\varepsilon) \quad (2)$$

Where $f_i(0)=0$. The axial force P , the vertical bending moment M_V and the horizontal bending moment M_H can be obtained by using the formulas,

$$\begin{aligned} P &= \sum_{i=1}^N \sigma_i A_i \simeq 0 \\ M_V &= \sum_{i=1}^N \sigma_i A_i y_i \\ M_H &= \sum_{i=1}^N \sigma_i A_i x_i \end{aligned} \quad (3)$$

Those values are obtained by integrating the axial stress over the intact part of the cross section. Where N is the number of intact elements and A_i is a cross section of individual element. The tangential stiffness obtained as a slope of the average stress-average strain relationship of the individual element by D_i as shown in Fig. 2, the relationship of axial stress and strain can be expressed as

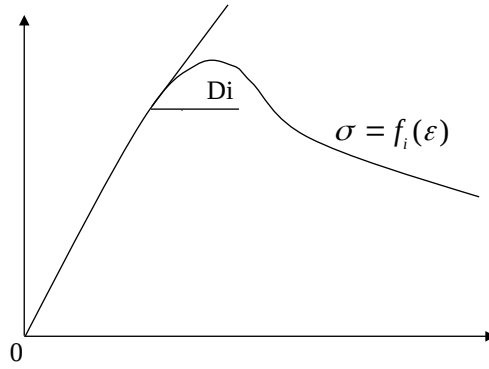


Fig. 2 Average stress-average strain relationship of an element

$$\Delta\sigma = D_i \Delta\varepsilon \left(D_i = \frac{df_i}{d\varepsilon} \right) \quad (4)$$

By performing Eqs. 1 and 4, the axial load, vertical curvature and horizontal curvature from Eq. 3 can be written into the matrix form as follow,

$$\begin{pmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} \bar{D}_{AA} & \bar{D}_{AH} & \bar{D}_{AV} \\ \bar{D}_{HA} & \bar{D}_{HH} & \bar{D}_{HV} \\ \bar{D}_{VA} & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{pmatrix} \Delta\varepsilon_0 \\ \Delta\phi_H \\ \Delta\phi_V \end{pmatrix} \quad (5)$$

The axial force ΔP from Eq. 5 may be rearranged in the form

$$\begin{aligned}
\Delta P &= \bar{D}_{AA} \Delta \varepsilon_0 + \bar{D}_{AH} \Delta \varphi_H + \bar{D}_{AV} \Delta \varphi_V \\
&= \sum_{i=1}^N D_i (\Delta \varepsilon_0 + y_i \Delta \varphi_H + z_i \Delta \varphi_V) A_i \\
&= \sum_{i=1}^N D_i \{ \Delta \varepsilon_G + (y_i - y_G) \Delta \varphi_H + (z_i - z_G) \Delta \varphi_V \} A_i
\end{aligned} \tag{6}$$

where

$$\Delta \varepsilon_G = \Delta \varepsilon_0 + y_G \Delta \varphi_H + z_G \Delta \varphi_V \tag{7}$$

y_G and z_G are given by,

$$\begin{aligned}
y_G &= \frac{\left(\sum_{i=1}^N y_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)} \\
z_G &= \frac{\left(\sum_{i=1}^N z_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)}
\end{aligned} \tag{8}$$

The Eq. 5 can be written by assuming that under pure longitudinal bending $\Delta P = 0$, therefore,

$$\begin{pmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} \bar{D}_{AA} & 0 & 0 \\ 0 & \bar{D}_{HH} & \bar{D}_{HV} \\ 0 & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{pmatrix} \Delta \varepsilon_G \\ \Delta \varphi_H \\ \Delta \varphi_V \end{pmatrix} \tag{9}$$

where

$$\begin{aligned}
D_{AA} &= \sum_{i=1}^N D_i A_i & D_{HV} &= D_{VH} = \sum_{i=1}^N D_i (y_i - y_G)(z_i - z_G) A_i \\
D_{HH} &= \sum_{i=1}^N D_i (y_i - y_G)^2 A_i & D_{VV} &= \sum_{i=1}^N D_i (z_i - z_G)^2 A_i
\end{aligned} \tag{10}$$

Using the Eq. 10, the relationship of the biaxial bending moments and curvatures can be given by the following formula,

$$\begin{pmatrix} \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{pmatrix} \Delta \varphi_H \\ \Delta \varphi_V \end{pmatrix} \tag{11}$$

The bending moment-curvature relationship, Eq. 11 can be applied to the ship hull girder strength by the following loading and/or constraint conditions. The first is the hull girder under pure vertical bending moment

$$\begin{Bmatrix} 0 \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \phi_H \\ \Delta \phi_V^0 \end{Bmatrix} \quad (12)$$

Where the superscript '0' indicates a prescribed value, and the solutions are

$$\begin{aligned} \Delta \phi_H &= -\frac{D_{HV}}{D_{HH}} \Delta \phi_V^0 \\ \Delta M_V &= \left(D_{VV} - \frac{D_{VH} D_{HV}}{D_{HH}} \right) \Delta \phi_V^0 \end{aligned} \quad (13)$$

The second is the hull girder under vertical bending moment with horizontal curvature constrained

$$\begin{Bmatrix} \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} 0 \\ \Delta \phi_V^0 \end{Bmatrix} \quad (14)$$

And the solutions are

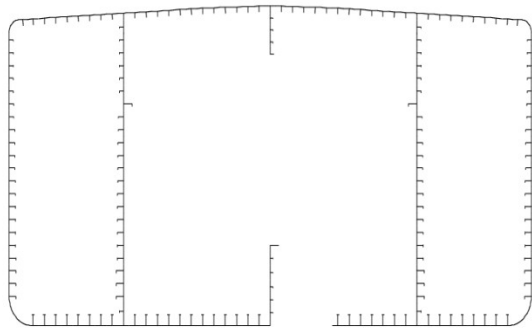
$$\begin{aligned} \Delta M_H &= D_{HV} \Delta \phi_V^0 \\ \Delta M_V &= D_{VV} \Delta \phi_V^0 \end{aligned} \quad (16)$$

Method of Analysis

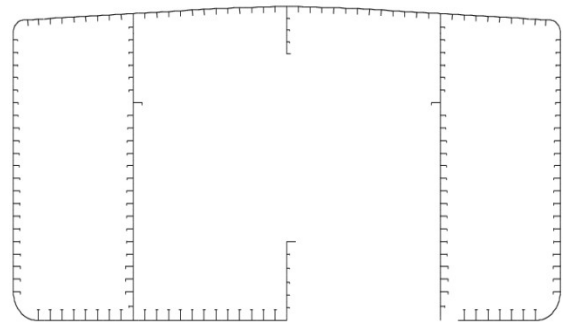
Collapse analysis of the ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken for the assessment of the collapse analysis. The ship breadth and high are 42000 mm and 20300 mm, respectively. The grounding damage is assumed to be asymmetric position of the cross section. The transversal damage extent is chosen 10% and 70% of the ship's breadth. For the case of collision damage, the transversal damage extent is B/16, while the vertical damage extent is set up to be 10% and 70%, respectively. The longitudinal damage extent is one-frame space for grounding and collision damages. The analysis procedures of the collapse analysis of VLCC tanker for grounding and collision damages are summarized as follow,

1. Subdivide the cross-section into elements consists of stiffener and attached plating.
2. Derive the average stress-average strain relationship of individual element by considering the influence of buckling and yielding.
3. Derive the tangential axial stiffness of individual element from the average stress-average strain relationship.
4. Calculate the center position of neutral axis y_G and z_G
5. Evaluate the flexural stiffness of the cross section with respect to neutral axis.
6. Calculate the curvature and/or bending moment under specified condition.
7. Calculate the strain in individual element from the curvature, and their stress using the slope of average stress-average strain curve.

The grounding damages for 10% and 70% of VLCC tanker are presented in the Fig. 3 as follow,



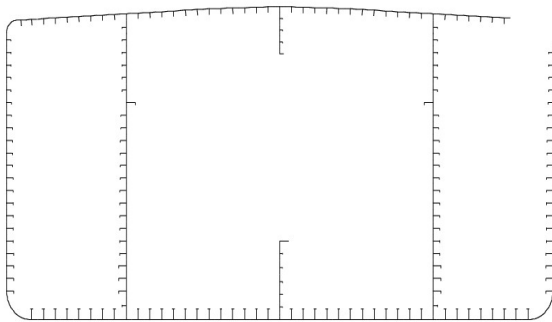
(a) 10 % damage



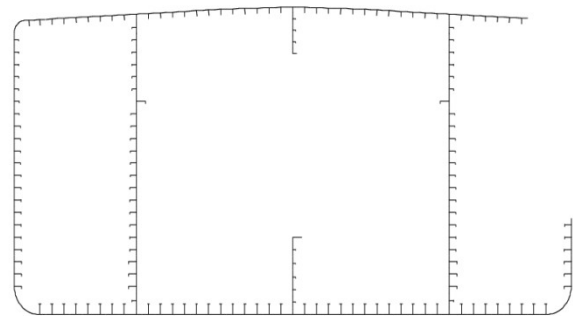
(b) 70% damage

Fig. 3 Grounding damage of VLCC Tanker

While the collision damages for 10% and 70% of VLCC tanker are presented in the Fig. 4 as follow,



(a) 10 % damage

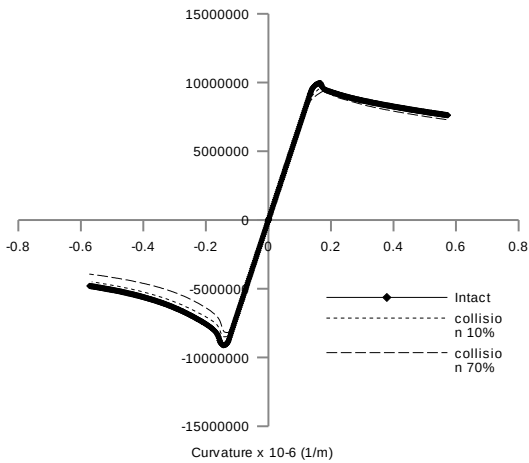


(b) 70% damage

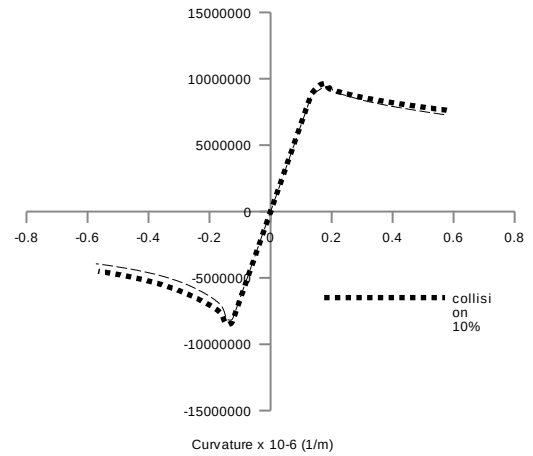
Fig. 4 Collision damage of VLCC Tanker

Results and Discussion

Collapse analysis of ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken as the object of the analysis and subjected to longitudinal bending moment by taking the hogging and sagging condition into account. The ultimate strength for 10% and 70% of grounding damages are summarized as follow,



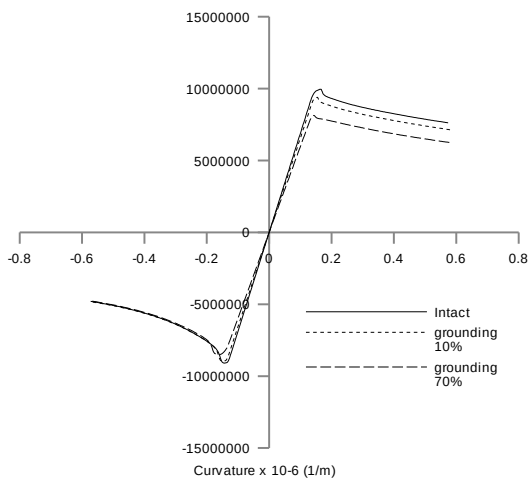
(a) Intact and damages



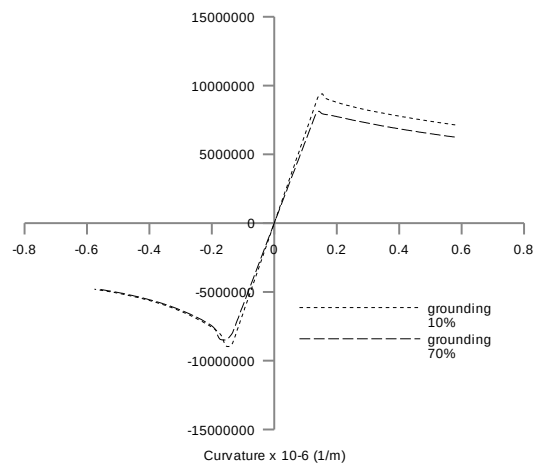
(b) Damages only

Fig. 5 Moment-curvature relationship

Fig. 5 shows the comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% collision damages. It is clear that the ultimate strength decreases not only hogging but also sagging conditions, when those compare to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression. This is because there is transversal damage extent of $B/16$ at the deck part.



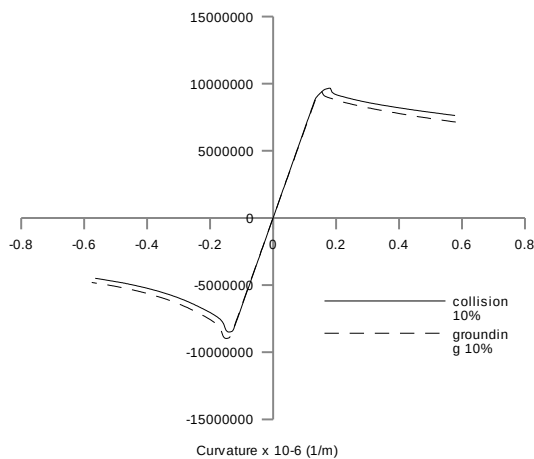
(a) Intact and damages



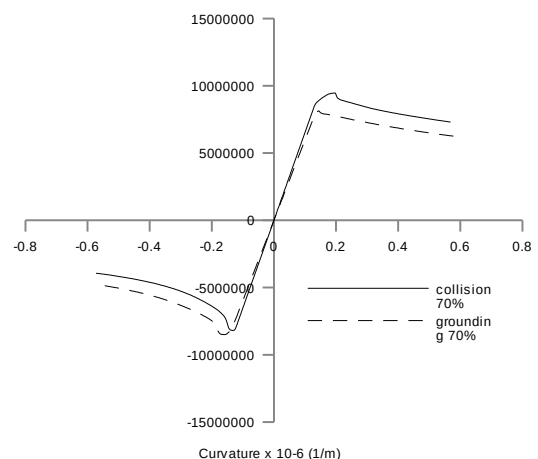
(b) Damages only

Fig. 6 Moment-curvature relationship

The comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% grounding damages are shown in Fig. 6. When the grounding damage is considered, the significant different of the collapse behavior takes place on the hogging condition. It is known well that under hogging condition, bottom part is under compression and deck is under tension. In this regard, some of the elements at the bottom part lost their rigidity due to grounding damage. This is also due to the asymmetric position of the damage.



(a) 10% damages



(b) 70% damages

Fig. 7 Moment-curvature relationship

The moment-curvature relationship obtained by analytical solution for 10% damage and 70% damages under hogging and sagging condition subjected to grounding and collision damages. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part. Similarly with the 70% damage both hogging and sagging condition.

Conclusion

Collapse analysis of ship hull girder with grounding and collision damages have been conducted using the Smith's method. The following conclusion of the collapse analysis of a VLCC of tanker are summarized:

1. It is clear that the ultimate strength decreases not only hogging but also sagging conditions when those are compared to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression.
2. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part.

References

- [1] Pedersen, P.T, Ship Grounding and Hull-Girder Strength, J. Marine Structures. 7 (1994) 1-29.
- [2] Zhang, S, Plate Tearing and Bottom Damage in Ship Grounding, J. Marine Structures. 15 (2002) 101-117.

- [3] Wang, G., Chen, Y., Zhang, H and Peng, H, Longitudinal Strength of Ships with Accidental Damages, *J. Marine Structures*. 15 (2002) 119-138.
- [4] Muis Alie, M.Z, Residual Strength Analysis of Asymmetrically Damaged Ship Hull Girder Using Beam Finite Element Method, *Makara J. of Technology*. 20 (2016) 7-12.
- [5] Paik, J.K., Thayamballi, A.K and Yang, S,H, Residual Strength Assessment of Ships after Collision and Grounding, *J. Marine Technology*. 35 (1998) 38-54.

Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Muhammad Zubair Muis Alie^{1, a*}, Wahyuddin^{1, b}, Syamsul Asri^{1, c}, Farianto Fachruddin Lage^{1, d}, Juswan^{1, e} and Taufiqur Rachman^{1, f}

¹Department of Naval Architect and Ocean Engineering, Engineering Faculty Hasanuddin University, Indonesia

^azubair.m@eng.unhas.ac.idl, ^bwahyumustafa@yahoo.co.id, ^csa_tanri_kapal83@yahoo.com, ^dfariantorma@gmail.com, ^ejuswansade@gmail.com, and ^focean_d321@yahoo.com,

Keywords: VLCC, cross section, longitudinal bending, damages

Abstract. The objective of the present study is to analyze the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Introduction

Grounding and collision damages may occur on ship when it operates at sea. The grounding and collision accidents of liquid cargo such as crude oil carriers cause the ship structure becomes damage and the oil spills makes the ocean environment polluted. In conjunction with this, the design of ship structure must be considered as one of the functional requirement for structural safety.

The investigations of ship damage due to grounding and collision have been conducted by some research. The mechanics of grounding on relatively plane slopes were analyzed with emphasis on evaluation of the overall forces on the ship hull girder was presented by Pedersen [1]. Those presentations were divided into three parts. Firstly, a mathematical analysis model would be presented for estimation of the contact pressure between grounded ship and the sea bottom. These ground contact forces were compared to the forces, which would crush the forward bottom of the ship. In the second part, the sectional area forces and bending moment due to grounding would be determined and compared to the ultimate-hull-girder sectional forces. Finally, model experiments and full-scale controlled grounding experiments were briefly described which have served to validate the mathematical model and used to determine appropriate frictional coefficients. To get at much insight as possible into the mechanics of ship grounding, simplifications to the problem were sought such that analytical solutions could be derived. The same assumption as that used in the method of Wierzbicki and Thomas for a separated curved surface was employed by Zhang [2], in which the material rolls up into two curved surfaces behind the wedge tip. Also, the material in front of the wedge tip. By assuming a plastic deformation in front of the wedge tip, analytical

formulae for plate-cutting force and absorbed energy are obtained with a character that the critical rupture strain of the material enters the solution. Damage to ship bottom in grounding accident is quite complex. So, a semi empirical method was proposed for determining bottom damage resistance in grounding scenario. Finally, simple expression, expressed in terms of the ship's principal particulars, for determining damage resistance and damage extent in ship grounding were presented. An investigation of the longitudinal strength of damaged ship hulls for a broad spectrum of collision and grounding accidents was reported by Wang [3]. Both the hull girder section modulus and hull girder ultimate strength were calculated. The aim is to obtain simple relations to assess residual hull girder strength, which may be used as handy and reliable tools to help make timely decisions in the event of an emergency. Theoretical analyses were presented and analytical formulae were derived. Typical designs of 67 commercial ships, including 21 double hull tankers, 18 bulk carriers, 22 single hull tankers and six container carriers, which have lost portions of bottom shell plating and side shell plating, were analyzed to obtain such simple equations for predicting residual strength of damaged ships. A VLCC designed according to the CSR for Tankers (IACS, 2010) was chosen as a target to calculate the residual strength [4]. Probability levels of 10%, 30%, 50% and 70% were taken into account for defining the extent of the damage. The residual longitudinal strengths were presented for all possible heeling angles with 15% increments from sagging to hogging conditions. Muis Alie, M.Z [5], analyzed the residual strength of asymmetrically damaged ship hull girder under longitudinal bending. Beam finite element method was used for the assessment of residual strength of two single hull bulk carriers and a three-cargo hold model of a single-side Panamax Bulk Carrier in hogging and sagging conditions. A fast and reasonably accurate method for exploring the collapse of hull girder in the damage condition was developed by Paik [6]. Location and amount of collision and grounding damage were defined based on the ABS safe hull guide. The risk of hull collapse was explored by comparing the applied extreme bending moment and ultimate hull girder strength, which were both estimated by using simplified design oriented methods or formulas. To characterize residual strength, an elastic section modulus based residual strength index and an ultimate bending strength based residual strength index were defined. As an illustrative example, these indices were obtained for the hull girder collapse of a hypothetical Panamax class bulk carrier after collision and grounding.

In the present study, a VLCC hull girder with damages subjected to longitudinal bending is analyzed. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The welding residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Analytical Formulation

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1 The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution. Although the grounding or collision damages takes place at the asymmetric position, the cross section is assumed to be remained plane. In conjunction with this, the axial strain at the structural element caused by vertical and horizontal curvature can be expressed as

using section headings are in boldface capital and lowercase letters. Second level headings are typed as part of the succeeding paragraph (like the subsection heading of this paragraph).

Page Numbers. Do *not* number your paper:

Tables. Tables (refer with: Table 1, Table 2, ...) should be presented as part of the text, but in such a way as to avoid confusion with the text. A descriptive title should be placed above each table. Units in tables should be given in square brackets [meV]. If square brackets are not available, use curly {meV} or standard brackets (meV).

Special Signs. for example , $\alpha \gamma \mu \Omega () \geq \pm \bullet \Gamma \{11 \bar{2} 0\}$ should always be written in with the fonts Times New Roman or Arial, especially also in the figures and tables.

Macros. Do not use any macros for the figures and tables. (We will not be able to convert such papers into our system)

Language. All text, figures and tables must be in English.

Figures. Figures (refer with: Fig. 1, Fig. 2, ...) also should be presented as part of the text, leaving enough space so that the caption will not be confused with the text. The caption should be self-contained and placed *below or beside* the figure. Generally, only original drawings or photographic reproductions are acceptable. Only very good photocopies are acceptable. Utmost care must be taken to *insert the figures in correct alignment with the text*. Half-tone pictures should be in the form of glossy prints. If possible, please include your figures as graphic images in the electronic version. For best quality the pictures should have a resolution of 300 dpi(dots per inch). Color figures are welcome for the online version of the journal. Generally, these figures will be reduced to black and white for the print version. The author should indicate on the checklist if he wishes to have them printed in full color and make the necessary payments in advance.

Equations. Equations (refer with: Eq. 1, Eq. 2, ...) should be indented 5 mm (0.2"). There should be one line of space above the equation and one line of space below it before the text continues. The equations have to be numbered sequentially, and the number put in parentheses at the right-hand edge of the text. Equations should be punctuated as if they were an ordinary part of the text. Punctuation appears after the equation but before the equation number. The use of Microsoft Equation is allowed.

$$c^2 = a^2 + b^2.$$

(1)

Literature References

References are cited in the text just by square brackets [1]. (If square brackets are not available, slashes may be used instead, e.g. /2/.) Two or more references at a time may be put in one set of brackets [3,4]. The references are to be numbered in the order in which they are cited in the text and are to be listed at the end of the contribution under a heading *References*, see our example below.

Summary

If you follow the “checklist” your paper will conform to the requirements of the publisher and facilitate a problem-free publication process.

References

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, J. Sci. Commun. 163 (2000) 51-59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, The Elements of Style, third ed., Macmillan, New York, 1979.

Reference to a chapter in an edited book:

- [3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), Introduction to the Electronic Age, E-Publishing Inc., New York, 1999, pp. 281-304.
- [4] R.J. Ong, J.T. Dawley and P.G. Clem: submitted to Journal of Materials Research (2003)
- [5] P.G. Clem, M. Rodriguez, J.A. Voigt and C.S. Ashley, U.S. Patent 6,231,666. (2001)
- [6] Information on <http://www.weld.labs.gov.cn>

Your Paper's Title Starts Here: Please Center use Helvetica (Arial) 14

FULL First Author^{1, a*}, FULL Second Author^{2, b} and FULL Last Author^{3, c}

¹Full address of first author, including country

²Full address of second author, including country

³List all distinct addresses in the same way

^aemail, ^bemail, ^cemail

* please mark the corresponding author with an asterisk

Keywords: List the keywords covered in your paper. These keywords will also be used by the publisher to produce a keyword index.

For the rest of the paper, please use Times Roman (Times New Roman) 12

Abstract. This template explains and demonstrates how to prepare your camera-ready paper for *Trans Tech Publications*. The best is to read these instructions and follow the outline of this text. Please make the page settings of your word processor to A4 format (21 x 29,7 cm or 8 x 11 inches); with the margins: bottom 1.5 cm (0.59 in) and top 2.5 cm (0.98 in), right/left margins must be 2 cm (0.78 in).

We shall be able to publish your paper in electronic form on our web page <http://www.scientific.net>, if the paper format and the margins are correct.

Your manuscript will be reduced by approximately 20% by the publisher. Please keep this in mind when designing your figures and tables etc.

Introduction

All manuscripts must be in English, also the table and figure texts, otherwise we cannot publish your paper.

Please keep a second copy of your manuscript in your office. When receiving the paper, we assume that the corresponding authors grant us the copyright to use the paper for the book or journal in question. Should authors use tables or figures from other Publications, they must ask the corresponding publishers to grant them the right to publish this material in their paper.

Use *italic* for emphasizing a word or phrase. Do not use boldface typing or capital letters except for section headings (cf. remarks on section headings, below).

Organization of the Text

Section Headings. The section headings are in boldface capital and lowercase letters. Second level headings are typed as part of the succeeding paragraph (like the subsection heading of this paragraph).

Page Numbers. Do *not* number your paper:

Tables. Tables (refer with: Table 1, Table 2, ...) should be presented as part of the text, but in such a way as to avoid confusion with the text. A descriptive title should be placed above each table. Units in tables should be given in square brackets [meV]. If square brackets are not available, use curly {meV} or standard brackets (meV).

Special Signs. for example , $\alpha \gamma \mu \Omega () \geq \pm \bullet \Gamma \{11 \bar{2} 0\}$ should always be written in with the fonts Times New Roman or Arial, especially also in the figures and tables.

Macros. Do not use any macros for the figures and tables. (We will not be able to convert such papers into our system)

Language. All text, figures and tables must be in English.

Figures. Figures (refer with: Fig. 1, Fig. 2, ...) also should be presented as part of the text, leaving enough space so that the caption will not be confused with the text. The caption should be self-contained and placed *below or beside* the figure. Generally, only original drawings or photographic reproductions are acceptable. Only very good photocopies are acceptable. Utmost care must be taken to *insert the figures in correct alignment with the text*. Half-tone pictures should be in the form of glossy prints. If possible, please include your figures as graphic images in the electronic version. For best quality the pictures should have a resolution of 300 dpi(dots per inch). Color figures are welcome for the online version of the journal. Generally, these figures will be reduced to black and white for the print version. The author should indicate on the checklist if he wishes to have them printed in full color and make the necessary payments in advance.

Equations. Equations (refer with: Eq. 1, Eq. 2, ...) should be indented 5 mm (0.2"). There should be one line of space above the equation and one line of space below it before the text continues. The equations have to be numbered sequentially, and the number put in parentheses at the right-hand edge of the text. Equations should be punctuated as if they were an ordinary part of the text. Punctuation appears after the equation but before the equation number. The use of Microsoft Equation is allowed.

$$c^2 = a^2 + b^2.$$

(1)

Literature References

References are cited in the text just by square brackets [1]. (If square brackets are not available, slashes may be used instead, e.g. /2/.) Two or more references at a time may be put in one set of brackets [3,4]. The references are to be numbered in the order in which they are cited in the text and are to be listed at the end of the contribution under a heading *References*, see our example below.

Summary

If you follow the “checklist” your paper will conform to the requirements of the publisher and facilitate a problem-free publication process.

References

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, J. Sci. Commun. 163 (2000) 51-59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, The Elements of Style, third ed., Macmillan, New York, 1979.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), Introduction to the Electronic Age, E-Publishing Inc., New York, 1999, pp. 281-304.

[4] R.J. Ong, J.T. Dawley and P.G. Clem: submitted to Journal of Materials Research (2003)

[5] P.G. Clem, M. Rodriguez, J.A. Voigt and C.S. Ashley, U.S. Patent 6,231,666. (2001)

[6] Information on <http://www.weld.labs.gov.cn>

Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Muhammad Zubair Muis Alie^{1, a *}, Wahyuddin^{1, b}, Syamsul Asri^{1, c}, Farianto Fachruddin Lage^{1, d}, Juswan^{1, e} and Taufiqur Rachman^{1, f}

¹Department of Naval Architecture and Ocean Engineering, Engineering Faculty, Hasanuddin University, Indonesia

^azubair.m@eng.unhas.ac.id, ^bwahyumustafa@yahoo.co.id, ^csa_tanri_kapal83@yahoo.com, ^dfariantorma@gmail.com, ^ejuswansade@gmail.com, and ^focean_d321@yahoo.com,

Keywords: VLCC, cross section, longitudinal bending, damages

Abstract. The objective of the present study is to analyze the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Introduction

Grounding and collision damages may occur on ship when it operates at sea. The grounding and collision accidents of liquid cargo such as crude oil carriers effect the ship structure becomes damage and the oil spills makes the ocean environment polluted. In conjunction with this, the design of ship structure must be considered as one of the functional requirement for structural safety.

The investigations of ship damage due to grounding and collision have been conducted by some research. The mechanics of grounding on relatively plane slopes were analyzed with emphasis on evaluation of the overall forces on the ship hull girder was presented by Pedersen [1]. To get at much insight as possible into the mechanics of ship grounding, simplifications to the problem were sought such that analytical solutions could be derived. The same assumption as that used in the method of Wierzbicki and Thomas for a separated curved surface was employed by Zhang [2], in which the material rolls up into two curved surfaces behind the wedge tip. Damage to ship bottom in grounding accident is quite complex. So, a semi empirical method was proposed for determining bottom damage resistance in grounding scenario. Finally, simple expression, expressed in terms of the ship's principal particulars, for determining damage resistance and damage extent in ship grounding were presented. An investigation of the longitudinal strength of damaged ship hulls for a broad spectrum of collision and grounding accidents was reported by Wang [3]. Both the hull girder section modulus and hull girder ultimate strength were calculated. The aim is to obtain simple relations to assess residual hull girder strength, which may be used as handy and reliable tools to help make timely decisions in the event of an emergency. Muis Alie, ~~M.Z~~ [4] analyzed the residual strength of asymmetrically damaged ship hull girder under longitudinal bending. Beam finite element method was used for the assessment of residual strength of two single hull bulk carriers and

a three-cargo hold model of a single-side Panamax Bulk Carrier in hogging and sagging conditions. A fast and reasonably accurate method for exploring the collapse of hull girder in the damage condition was developed by Paik [5]. Location and amount of collision and grounding damage were defined based on the ABS safe hull guide. To characterize residual strength, an elastic section modulus based residual strength index and an ultimate bending strength based residual strength index were defined. As an illustrative example, these indices were obtained for the hull girder collapse of a hypothetical Panamax class bulk carrier after collision and grounding.

In the present study, a VLCC hull girder with damages subjected to longitudinal bending is analyzed. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The welding residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Analytical Formulation

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1. The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution. Although the grounding or collision damages takes place at the asymmetric position, the cross section is assumed to be remained plane. In conjunction with this, the axial strain at the structural element caused by vertical and horizontal curvature can be expressed as

$$\epsilon_i = \epsilon_0 + \epsilon_H y_i + \epsilon_V z_i \quad (1)$$

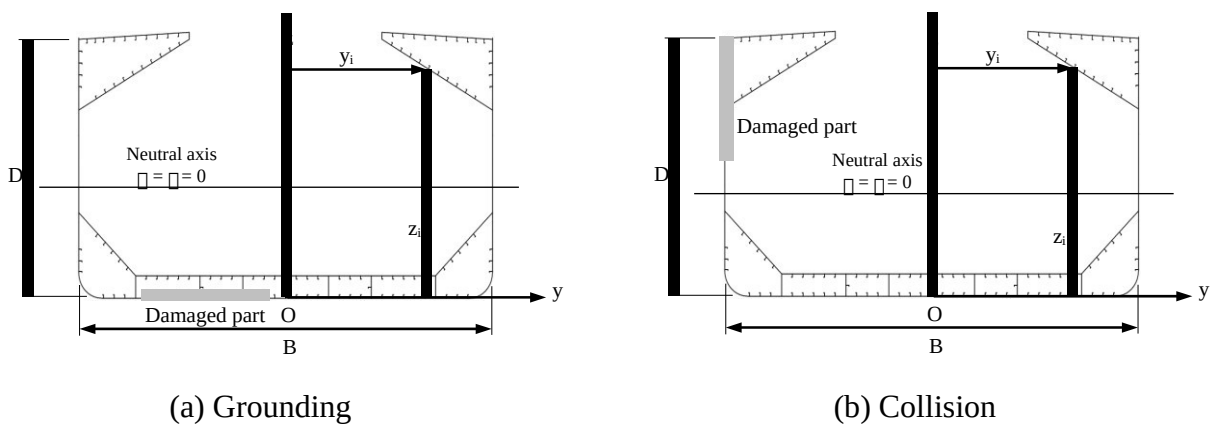


Fig. 1 Damages on the ship cross section

Where ϵ_0 , ϵ_H and ϵ_V are the axial strain at the origin O, horizontal curvature and vertical curvature respectively. The y and z are the coordinates with the origin at the bottom keel are defined according to Fig. 1. The relationship between axial stress and axial strain to calculate the individual element can be expressed by the following equation,

$$\sigma_i = E \epsilon_i \quad (2)$$

Where $f_i(0) \neq 0$. The axial force P , the vertical bending moment M_V and the horizontal bending moment M_H can be obtained by using the formulas,

$$\begin{aligned}
 P &= \sum_{i=1}^N A_i \sigma_i \\
 M_V &= \sum_{i=1}^N A_i y_i \sigma_i \\
 M_H &= \sum_{i=1}^N A_i x_i \sigma_i
 \end{aligned}
 \tag{3}$$

Those values are obtained by integrating the axial stress over the intact part of the cross section. Where N is the number of intact elements and A_i is a cross section of individual element. The tangential stiffness obtained as a slope of the average stress-average strain relationship of the individual element by D_i as shown in Fig. 2, the relationship of axial stress and strain can be expressed as

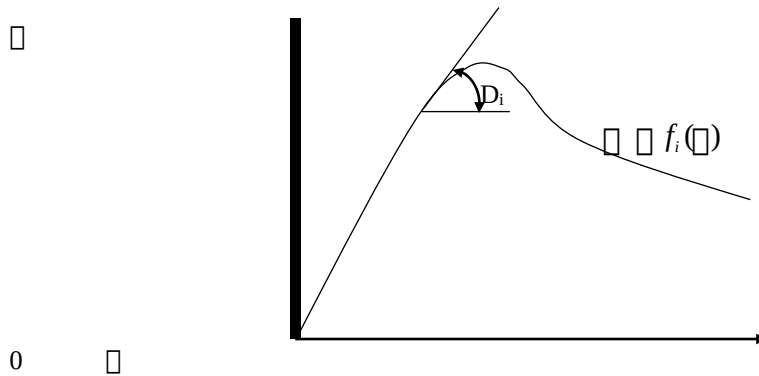


Fig. 2 Average stress-average strain relationship of an element

$$\sigma = D_i \epsilon \tag{4}$$

By performing Eqs. 1 and 4, the axial load, vertical curvature and horizontal curvature from Eq. 3 can be written into the matrix form as follow,

$$\begin{aligned}
 \begin{bmatrix} P \\ M_H \\ M_V \end{bmatrix} &= \begin{bmatrix} \bar{D}_{AA} & \bar{D}_{AH} & \bar{D}_{AV} \\ \bar{D}_{HA} & \bar{D}_{HH} & \bar{D}_{HV} \\ \bar{D}_{VA} & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{bmatrix} \epsilon_0 \\ \epsilon_H \\ \epsilon_V \end{bmatrix}
 \end{aligned}
 \tag{5}$$

The axial force P from Eq. 5 may be rearranged in the form

$$\begin{aligned}
& \begin{bmatrix} P \\ D_{AA} \\ D_{AH} \\ D_{AV} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \end{bmatrix} + \begin{bmatrix} D_{AA} \\ D_{AH} \\ D_{AV} \end{bmatrix} \\
& \begin{bmatrix} D_{AA} \\ D_{AH} \\ D_{AV} \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^N D_i A_i \\ \sum_{i=1}^N y_i D_i A_i \\ \sum_{i=1}^N z_i D_i A_i \end{bmatrix} \quad (6)
\end{aligned}$$

where

$$\begin{bmatrix} y_G \\ z_G \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^N y_i D_i A_i \\ \sum_{i=1}^N z_i D_i A_i \end{bmatrix} \quad (7)$$

y_G and z_G are given by,

$$\begin{aligned}
& \begin{bmatrix} y_G \\ z_G \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^N y_i D_i A_i \\ \sum_{i=1}^N z_i D_i A_i \end{bmatrix} \\
& \begin{bmatrix} y_G \\ z_G \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^N y_i D_i A_i \\ \sum_{i=1}^N z_i D_i A_i \end{bmatrix} \quad (8)
\end{aligned}$$

$$\begin{aligned}
& \begin{bmatrix} y_G \\ z_G \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^N y_i D_i A_i \\ \sum_{i=1}^N z_i D_i A_i \end{bmatrix} \\
& \begin{bmatrix} y_G \\ z_G \end{bmatrix} = \begin{bmatrix} \sum_{i=1}^N y_i D_i A_i \\ \sum_{i=1}^N z_i D_i A_i \end{bmatrix}
\end{aligned}$$

The Eq. 5 can be written by assuming that under pure longitudinal bending $P=0$, therefore,

$$\begin{bmatrix} P \\ M_H \\ M_V \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} + \begin{bmatrix} D_{AA} \\ D_{HH} \\ D_{HV} \\ D_{VH} \\ D_{VV} \end{bmatrix} \begin{bmatrix} 0 \\ y_G \\ z_G \end{bmatrix} \quad (9)$$

where

$$\begin{aligned}
& D_{AA} = \sum_{i=1}^N D_i A_i \\
& D_{HH} = \sum_{i=1}^N D_i (y_i - y_G)^2 A_i \\
& D_{HV} = D_{VH} = \sum_{i=1}^N D_i (y_i - y_G)(z_i - z_G) A_i \\
& D_{VV} = \sum_{i=1}^N D_i (z_i - z_G)^2 A_i
\end{aligned} \quad (10)$$

Using the Eq. 10, the relationship of the biaxial bending moments and curvatures can be given by the following formula,

$$\begin{bmatrix} M_H \\ M_v \end{bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{bmatrix} \kappa_H \\ \kappa_v \end{bmatrix} \quad (11)$$

The bending moment-curvature relationship, Eq. 11 can be applied to the ship hull girder strength by the following loading and/or constraint conditions. The first is the hull girder under pure vertical bending moment

$$\begin{bmatrix} 0 \\ M \end{bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{bmatrix} \kappa_H^0 \\ \kappa_v \end{bmatrix} \quad (12)$$

Where the superscript κ_H^0 indicates a prescribed value, and the solutions are

$$\begin{bmatrix} \kappa_H \\ \kappa_v \end{bmatrix} = \begin{bmatrix} D_{VV} & D_{VH} \\ D_{HV} & D_{HH} \end{bmatrix}^{-1} \begin{bmatrix} M \\ 0 \end{bmatrix} \quad (13)$$

The second is the hull girder under vertical bending moment with horizontal curvature constrained

$$\begin{bmatrix} M_H \\ M_v \end{bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{bmatrix} 0 \\ \kappa_v \end{bmatrix} \quad (14)$$

And the solutions are

$$\begin{bmatrix} M_H \\ M_v \end{bmatrix} = \begin{bmatrix} D_{HV} \\ D_{VV} \end{bmatrix} \begin{bmatrix} 0 \\ \kappa_v \end{bmatrix} \quad (16)$$

Method of Analysis

Collapse analysis of the ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken for the assessment of the collapse analysis. The ship breadth and high are 42000 mm and 20300 mm, respectively. The grounding damage is assumed to be asymmetric position of the cross section. The transversal damage extent is chosen 10% and 70% of the ship's breadth. For the case of collision damage, the transversal damage extent is B/16, while the vertical damage extent is set up to be 10% and 70%, respectively. The longitudinal damage extent is one-frame space for grounding and collision damages. The analysis

procedures of the collapse analysis of VLCC tanker for grounding and collision damages are summarized as follow,

1. Subdivide the cross-section into elements consists of stiffener and attached plating.
2. Derive the average stress-average strain relationship of individual element by considering the influence of buckling and yielding.
3. Derive the tangential axial stiffness of individual element from the average stress-average strain relationship.
4. Calculate the center position of neutral axis y_G and z_G
5. Evaluate the flexural stiffness of the cross section with respect to neutral axis.
6. Calculate the curvature and/or bending moment under specified condition.
7. Calculate the strain in individual element from the curvature, and their stress using the slope of average stress-average strain curve.

The grounding damages for 10% and 70% of VLCC tanker are presented in the Fig. 3 as follow,

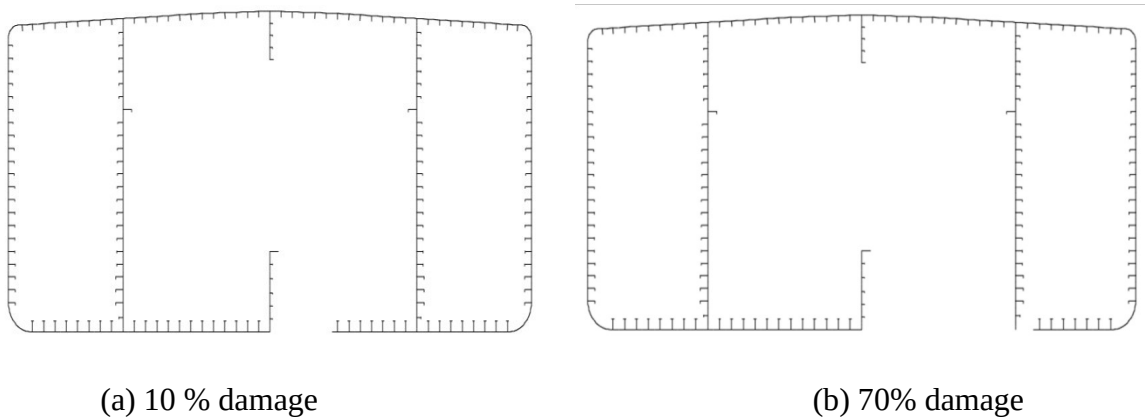


Fig. 3 Grounding damage of VLCC Tanker

While the collision damages for 10% and 70% of VLCC tanker are presented in the Fig. 4 as follow,

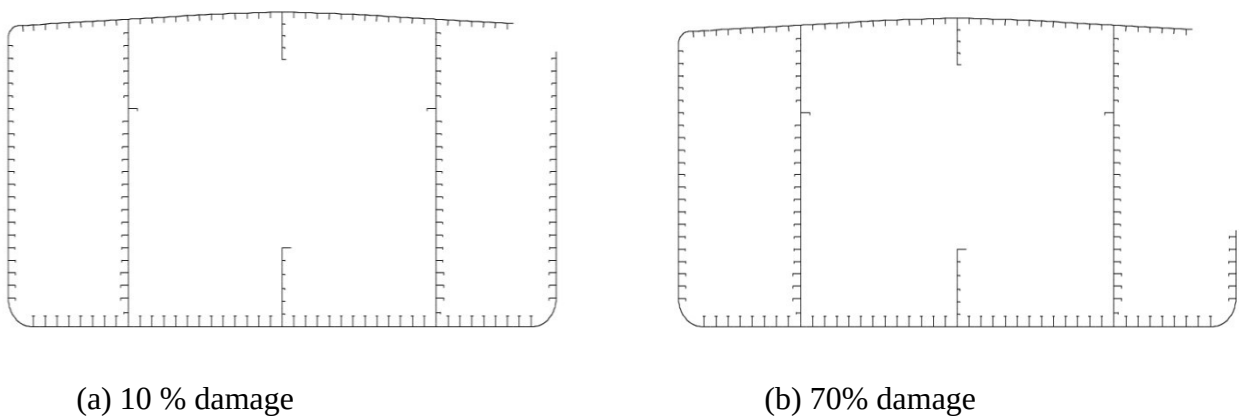


Fig. 4 Collision damage of VLCC Tanker

Results and Discussion

Collapse analysis of ship hull girder with grounding and collision damages are performed using the

Smith's method. A VLCC of tanker is taken as the object of the analysis and subjected to longitudinal bending moment by taking the hogging and sagging condition into account. The ultimate strength for 10% and 70% of grounding damages are summarized as follow,

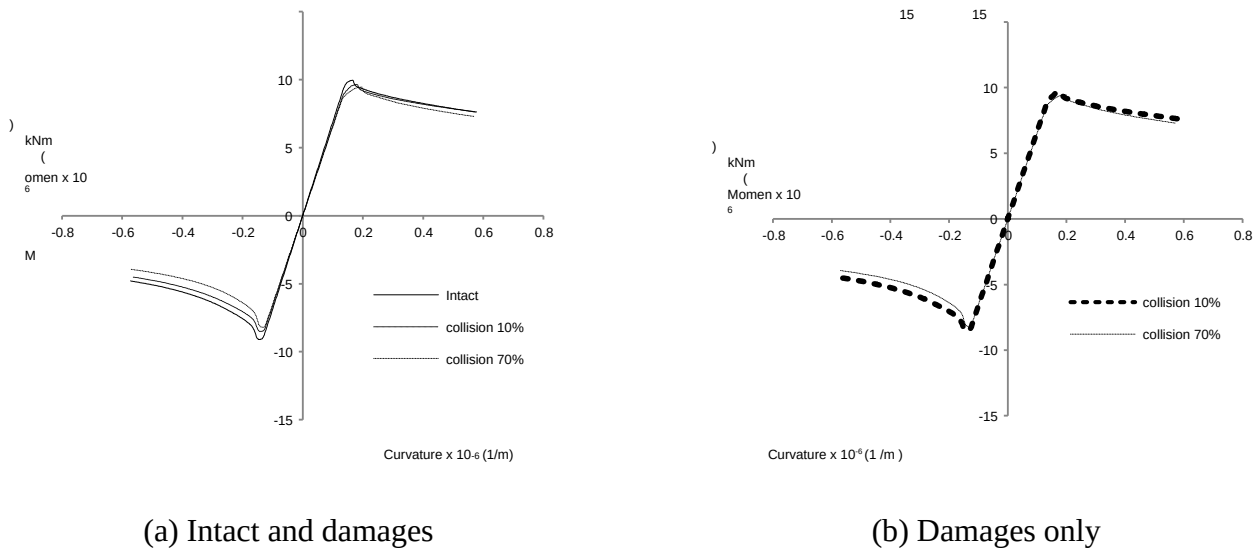


Fig. 5 Moment-curvature relationship

Fig. 5 shows the comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% collision damages. It is clear that the ultimate strength decreases not only hogging but also sagging conditions, when those compare to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression. This is because there is transversal damage extent of $B/16$ at the deck part.

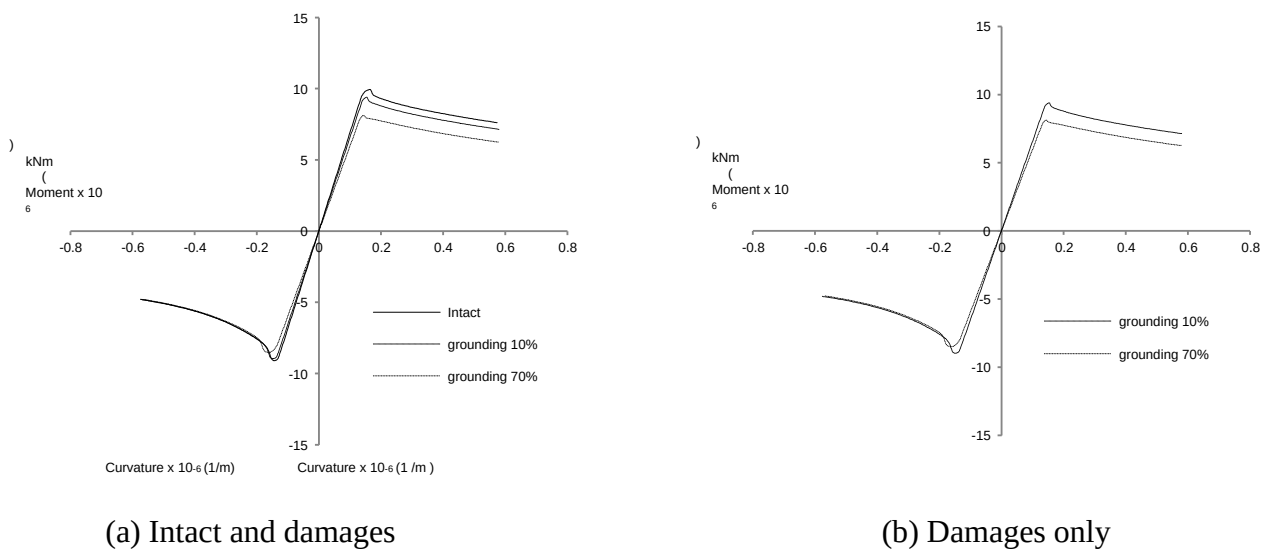


Fig. 6 Moment-curvature relationship

The comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% grounding damages are shown in Fig. 6. When the grounding damage is considered, the significant different of the collapse behavior takes place on the hogging condition. It is known well that under

hogging condition, bottom part is under compression and deck is under tension. In this regard, some of the elements at the bottom part lost their rigidity due to grounding damage. This is also due to the asymmetric position of the damage.

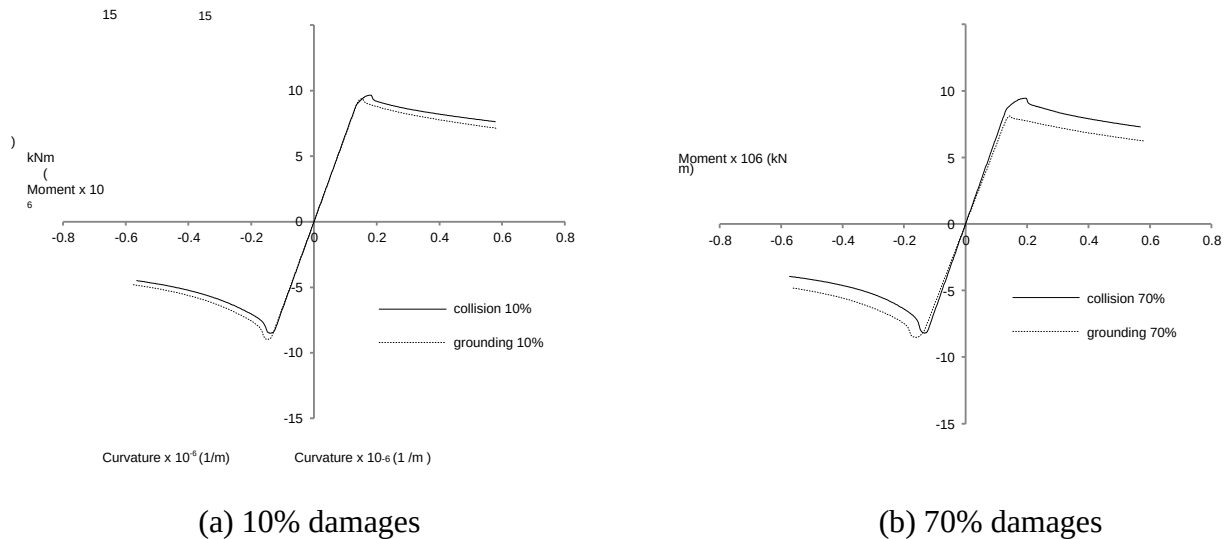


Fig. 7 Moment-curvature relationship

The moment-curvature relationship obtained by analytical solution for 10% damage and 70% damages under hogging and sagging condition subjected to grounding and collision damages. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part. Similarly with the 70% damage both hogging and sagging condition.

Conclusion

Collapse analysis of ship hull girder with grounding and collision damages have been conducted using the Smith's method. The following conclusion of the collapse analysis of a VLCC of tanker are summarized:

1. It is clear that the ultimate strength decreases not only hogging but also sagging conditions when those are compared to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression.
2. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part.

References

- [1] Pedersen, P.T, Ship Grounding and Hull-Girder Strength, *J. Marine Structures*. 7 (1994) 1-29.
- [2] Zhang, S, Plate Tearing and Bottom Damage in Ship Grounding, *J. Marine Structures*. 15 (2002) 101-117.

- [3] Wang, G., Chen, Y., Zhang, H and Peng, H, Longitudinal Strength of Ships with Accidental Damages, *J. Marine Structures*. 15 (2002) 119-138.
- [4] Muis Alie, M.Z, Residual Strength Analysis of Asymmetrically Damaged Ship Hull Girder Using Beam Finite Element Method, *Makara J. of Technology*. 20 (2016) 7-12.
- [5] Paik, J.K., Thayamballi, A.K and Yang, S,H, Residual Strength Assessment of Ships after Collision and Grounding, *J. Marine Technology*. 35 (1998) 38-54.

Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Muhammad Zubair Muis Alie^{1, a *}, Wahyuddin^{1, b}, Syamsul Asri^{1, c}, Farianto Fachruddin Lage^{1, d}, Juswan^{1, e} and Taufiqur Rachman^{1, f}

¹Department of Naval Architect and Ocean Engineering, Engineering Faculty Hasanuddin University, Indonesia

^azubair.m@eng.unhas.ac.id, ^bwahyumustafa@yahoo.co.id, ^csa_tanri_kapal83@yahoo.com, ^dfariantorma@gmail.com, ^ejuswansade@gmail.com, and ^focean_d321@yahoo.com,

Keywords: VLCC, cross section, longitudinal bending, damages

Abstract. The objective of the present study is to analyze the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Introduction

Grounding and collision damages may occur on ship when it operates at sea. The grounding and collision accidents of liquid cargo such as crude oil carriers effect the ship structure becomes damage and the oil spills makes the ocean environment polluted. In conjunction with this, the design of ship structure must be considered as one of the functional requirement for structural safety.

The investigations of ship damage due to grounding and collision have been conducted by some research. The mechanics of grounding on relatively plane slopes were analyzed with emphasis on evaluation of the overall forces on the ship hull girder was presented by Pedersen [1]. To get at much insight as possible into the mechanics of ship grounding, simplifications to the problem were sought such that analytical solutions could be derived. The same assumption as that used in the method of Wierzbicki and Thomas for a separated curved surface was employed by Zhang [2], in which the material rolls up into two curved surfaces behind the wedge tip. Damage to ship bottom in grounding accident is quite complex. So, a semi empirical method was proposed for determining bottom damage resistance in grounding scenario. Finally, simple expression, expressed in terms of the ship's principal particulars, for determining damage resistance and damage extent in ship grounding were presented. An investigation of the longitudinal strength of damaged ship hulls for a broad spectrum of collision and grounding accidents was reported by Wang [3]. Both the hull girder section modulus and hull girder ultimate strength were calculated. The aim is to obtain simple relations to assess residual hull girder strength, which may be used as handy and reliable tools to help make timely decisions in the event of an emergency. Muis Alie, M.Z [4] analyzed the residual

strength of asymmetrically damaged ship hull girder under longitudinal bending. Beam finite element method was used for the assessment of residual strength of two single hull bulk carriers and a three-cargo hold model of a single-side Panamax Bulk Carrier in hogging and sagging conditions. A fast and reasonably accurate method for exploring the collapse of hull girder in the damage condition was developed by Paik [5]. Location and amount of collision and grounding damage were defined based on the ABS safe hull guide. To characterize residual strength, an elastic section modulus based residual strength index and an ultimate bending strength based residual strength index were defined. As an illustrative example, these indices were obtained for the hull girder collapse of a hypothetical Panamax class bulk carrier after collision and grounding.

In the present study, a VLCC hull girder with damages subjected to longitudinal bending is analyzed. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The welding residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Analytical Formulation

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1 The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution. Although the grounding or collision damages takes place at the asymmetric position, the cross section is assumed to be remained plane. In conjunction with this, the axial strain at the structural element caused by vertical and horizontal curvature can be expressed as

$$\varepsilon_i(y_i, z_i) = \varepsilon_0 + y_i \varphi_H + z_i \varphi_V \quad (1)$$

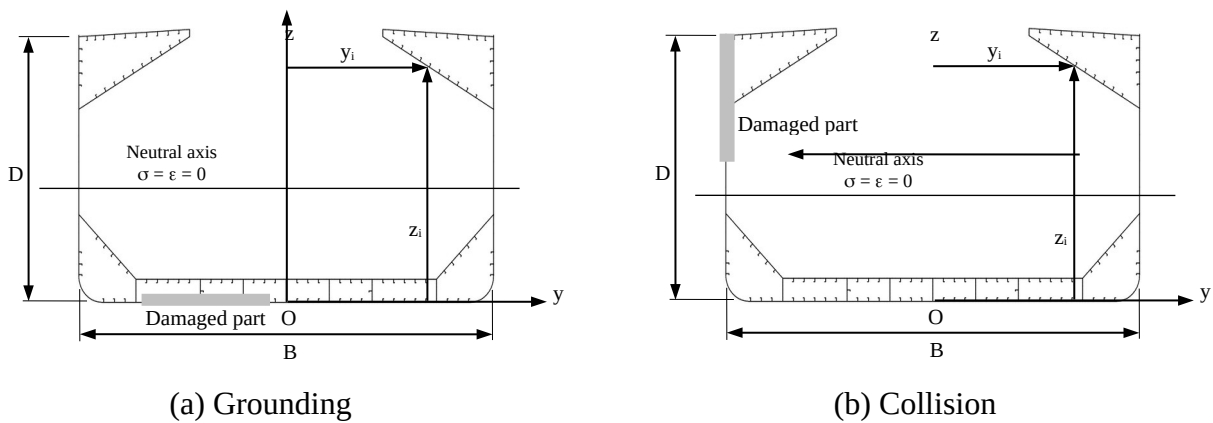


Fig. 1 Damages on the ship cross section

Where ε_0 , φ_H and φ_V are the axial strain at the origin O, horizontal curvature and vertical curvature respectively. The y and z are the coordinates with the origin at the bottom keel are defined according to Fig. 1. The relationship between axial stress and axial strain to calculate the individual element can be expressed by the following equation,

$$\sigma = f_i(\varepsilon) \quad (2)$$

Where $f_i(0)=0$. The axial force P , the vertical bending moment M_v and the horizontal bending moment M_H can be obtained by using the formulas,

$$\begin{aligned} P &= \sum_{i=1}^N \sigma_i A_i \simeq 0 \\ M_v &= \sum_{i=1}^N \sigma_i A_i y_i \\ M_H &= \sum_{i=1}^N \sigma_i A_i x_i \end{aligned} \quad (3)$$

Those values are obtained by integrating the axial stress over the intact part of the cross section. Where N is the number of intact elements and A_i is a cross section of individual element. The tangential stiffness obtained as a slope of the average stress-average strain relationship of the individual element by D_i as shown in Fig. 2, the relationship of axial stress and strain can be expressed as

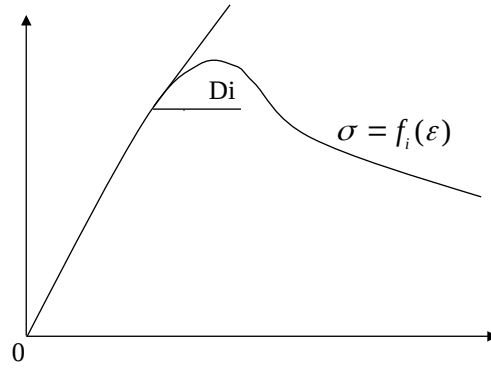


Fig. 2 Average stress-average strain relationship of an element

$$\Delta\sigma = D_i \Delta\varepsilon \left(D_i = \frac{df_i}{d\varepsilon} \right) \quad (4)$$

By performing Eqs. 1 and 4, the axial load, vertical curvature and horizontal curvature from Eq. 3 can be written into the matrix form as follow,

$$\begin{pmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_v \end{pmatrix} = \begin{bmatrix} \bar{D}_{AA} & \bar{D}_{AH} & \bar{D}_{AV} \\ \bar{D}_{HA} & \bar{D}_{HH} & \bar{D}_{HV} \\ \bar{D}_{VA} & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{pmatrix} \Delta\varepsilon_0 \\ \Delta\phi_H \\ \Delta\phi_v \end{pmatrix} \quad (5)$$

The axial force ΔP from Eq. 5 may be rearranged in the form

$$\begin{aligned}
\Delta P &= \bar{D}_{AA} \Delta \varepsilon_0 + \bar{D}_{AH} \Delta \varphi_H + \bar{D}_{AV} \Delta \varphi_V \\
&= \sum_{i=1}^N D_i (\Delta \varepsilon_0 + y_i \Delta \varphi_H + z_i \Delta \varphi_V) A_i \\
&= \sum_{i=1}^N D_i \{ \Delta \varepsilon_G + (y_i - y_G) \Delta \varphi_H + (z_i - z_G) \Delta \varphi_V \} A_i
\end{aligned} \tag{6}$$

where

$$\Delta \varepsilon_G = \Delta \varepsilon_0 + y_G \Delta \varphi_H + z_G \Delta \varphi_V \tag{7}$$

y_G and z_G are given by,

$$\begin{aligned}
y_G &= \frac{\left(\sum_{i=1}^N y_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)} \\
z_G &= \frac{\left(\sum_{i=1}^N z_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)}
\end{aligned} \tag{8}$$

The Eq. 5 can be written by assuming that under pure longitudinal bending $\Delta P = 0$, therefore,

$$\begin{pmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} \bar{D}_{AA} & 0 & 0 \\ 0 & \bar{D}_{HH} & \bar{D}_{HV} \\ 0 & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{pmatrix} \Delta \varepsilon_G \\ \Delta \varphi_H \\ \Delta \varphi_V \end{pmatrix} \tag{9}$$

where

$$\begin{aligned}
D_{AA} &= \sum_{i=1}^N D_i A_i & D_{HV} &= D_{VH} = \sum_{i=1}^N D_i (y_i - y_G)(z_i - z_G) A_i \\
D_{HH} &= \sum_{i=1}^N D_i (y_i - y_G)^2 A_i & D_{VV} &= \sum_{i=1}^N D_i (z_i - z_G)^2 A_i
\end{aligned} \tag{10}$$

Using the Eq. 10, the relationship of the biaxial bending moments and curvatures can be given by the following formula,

$$\begin{pmatrix} \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{pmatrix} \Delta \varphi_H \\ \Delta \varphi_V \end{pmatrix} \tag{11}$$

The bending moment-curvature relationship, Eq. 11 can be applied to the ship hull girder strength by the following loading and/or constraint conditions. The first is the hull girder under pure vertical bending moment

$$\begin{Bmatrix} 0 \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \phi_H \\ \Delta \phi_V^0 \end{Bmatrix} \quad (12)$$

Where the superscript '0' indicates a prescribed value, and the solutions are

$$\begin{aligned} \Delta \phi_H &= -\frac{D_{HV}}{D_{HH}} \Delta \phi_V^0 \\ \Delta M_V &= \left(D_{VV} - \frac{D_{VH} D_{HV}}{D_{HH}} \right) \Delta \phi_V^0 \end{aligned} \quad (13)$$

The second is the hull girder under vertical bending moment with horizontal curvature constrained

$$\begin{Bmatrix} \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} 0 \\ \Delta \phi_V^0 \end{Bmatrix} \quad (14)$$

And the solutions are

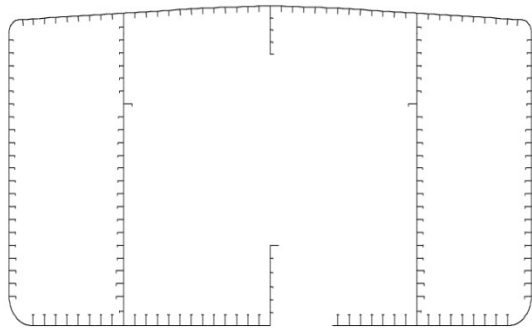
$$\begin{aligned} \Delta M_H &= D_{HV} \Delta \phi_V^0 \\ \Delta M_V &= D_{VV} \Delta \phi_V^0 \end{aligned} \quad (16)$$

Method of Analysis

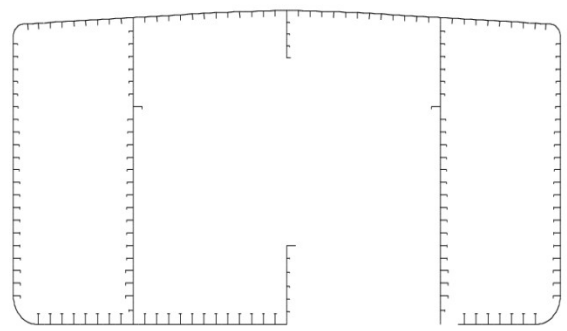
Collapse analysis of the ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken for the assessment of the collapse analysis. The ship breadth and height are 42000 mm and 20300 mm, respectively. The grounding damage is assumed to be asymmetric position of the cross section. The transversal damage extent is chosen 10% and 70% of the ship's breadth. For the case of collision damage, the transversal damage extent is B/16, while the vertical damage extent is set up to be 10% and 70%, respectively. The longitudinal damage extent is one-frame space for grounding and collision damages. The analysis procedures of the collapse analysis of VLCC tanker for grounding and collision damages are summarized as follow,

1. Subdivide the cross-section into elements consists of stiffener and attached plating.
2. Derive the average stress-average strain relationship of individual element by considering the influence of buckling and yielding.
3. Derive the tangential axial stiffness of individual element from the average stress-average strain relationship.
4. Calculate the center position of neutral axis y_G and z_G
5. Evaluate the flexural stiffness of the cross section with respect to neutral axis.
6. Calculate the curvature and/or bending moment under specified condition.
7. Calculate the strain in individual element from the curvature, and their stress using the slope of average stress-average strain curve.

The grounding damages for 10% and 70% of VLCC tanker are presented in the Fig. 3 as follow,



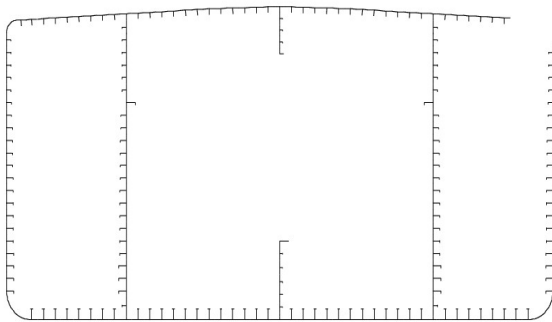
(a) 10 % damage



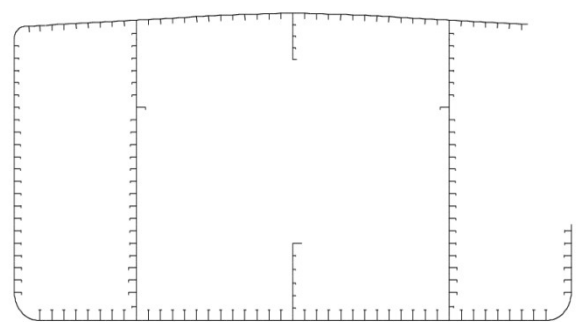
(b) 70% damage

Fig. 3 Grounding damage of VLCC Tanker

While the collision damages for 10% and 70% of VLCC tanker are presented in the Fig. 4 as follow,



(a) 10 % damage

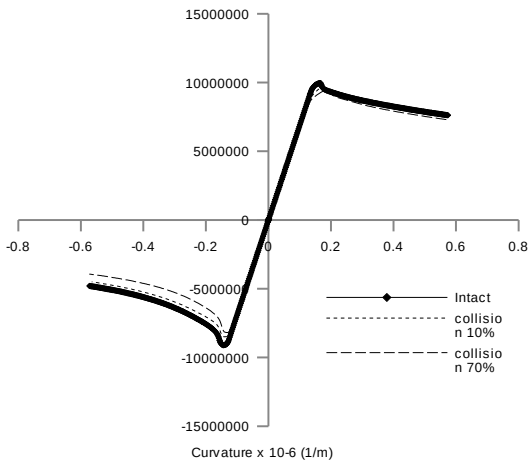


(b) 70% damage

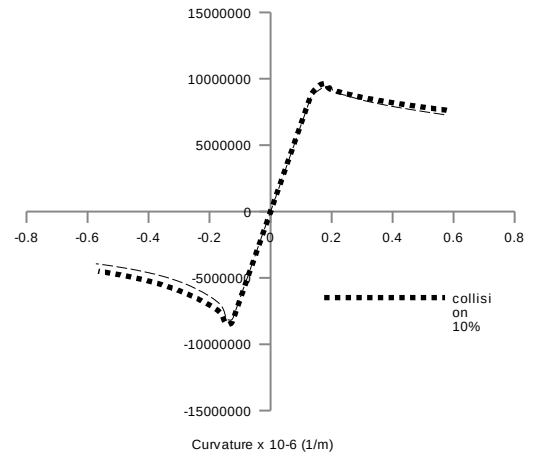
Fig. 4 Collision damage of VLCC Tanker

Result and Discussion

Collapse analysis of ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken as the object of the analysis and subjected to longitudinal bending moment by taking the hogging and sagging condition into account. The ultimate strength for 10% and 70% of grounding damages are summerized as follow,



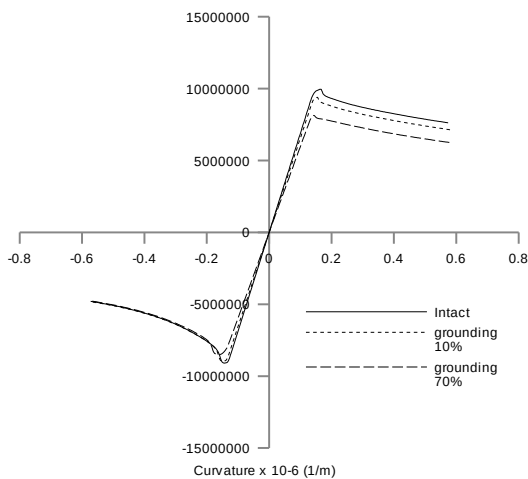
(a) Intact and damages



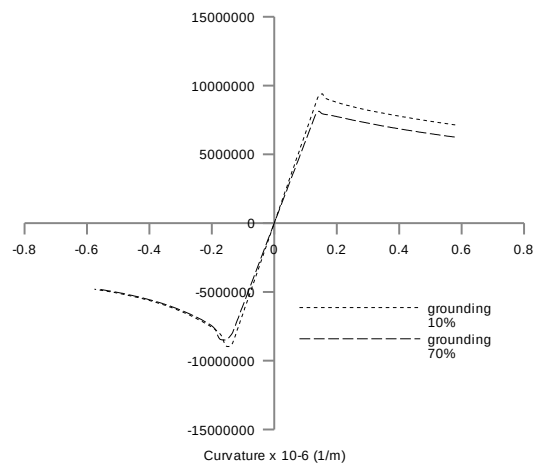
(b) Damages only

Fig. 5 Moment-curvature relationship

Fig. 5 shows the comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% collision damages. It is clear that the ultimate strength decreases not only hogging but also sagging conditions, when those compare to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression. This is because there is transversal damage extent of $B/16$ at the deck part.



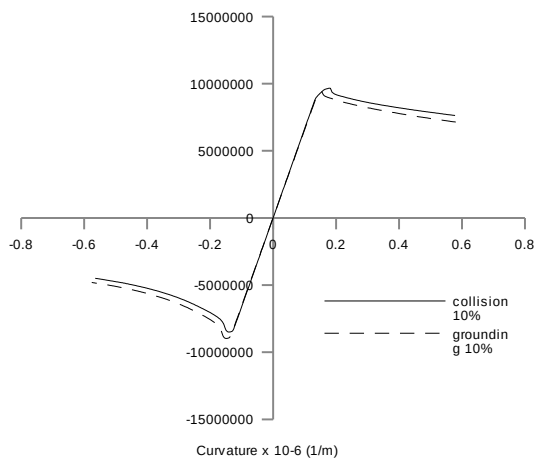
(a) Intact and damages



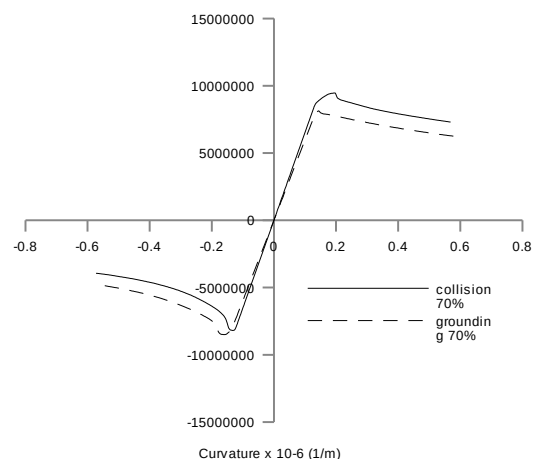
(b) Damages only

Fig. 6 Moment-curvature relationship

The comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% grounding damages are shown in Fig. 6. When the grounding damage is considered, the significant different of the collapse behavior takes place on the hogging condition. It is known well that under hogging condition, bottom part is under compression and deck is under tension. In this regard, some of the elements at the bottom part lost their rigidity due to grounding damage. This is also due to the asymmetric position of the damage.



(a) 10% damages



(b) 70% damages

Fig. 7 Moment-curvature relationship

The moment-curvature relationship obtained by analytical solution for 10% damage and 70% damages under hogging and sagging condition subjected to grounding and collision damages. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part. Similarly with the 70% damage both hogging and sagging condition.

Conclusion

Collapse analysis of ship hull girder with grounding and collision damages have been conducted using the Smith's method. The following conclusion of the collapse analysis of a VLCC of tanker are summarized;

1. It is clear that the ultimate strength decreases not only hogging but also sagging conditions when those compare to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression.
2. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part.

References

- [1] Pedersen, P.T, Ship Grounding and Hull-Girder Strength, J. Marine Structures. 7 (1994) 1-29.
- [2] Zhang, S, Plate Tearing and Bottom Damage in Ship Grounding, J. Marine Structures. 15 (2002) 101-117.

- [3] Wang, G., Chen, Y., Zhang, H and Peng, H, Longitudinal Strength of Ships with Accidental Damages, *J. Marine Structures*. 15 (2002) 119-138.
- [4] Muis Alie, M.Z, Residual Strength Analysis of Asymmetrically Damaged Ship Hull Girder Using Beam Finite Element Method, *Makara J. of Technology*. 20 (2016) 7-12.
- [5] Paik, J.K., Thayamballi, A.K and Yang, S,H, Residual Strength Assessment of Ships after Collision and Grounding, *J. Marine Technology*. 35 (1998) 38-54.

Your Paper's Title Starts Here: Please Center use Helvetica (Arial) 14

FULL First Author^{1, a*}, FULL Second Author^{2, b} and FULL Last Author^{3, c}

¹Full address of first author, including country

²Full address of second author, including country

³List all distinct addresses in the same way

^aemail, ^bemail, ^cemail

* please mark the corresponding author with an asterisk

Keywords: List the keywords covered in your paper. These keywords will also be used by the publisher to produce a keyword index.

For the rest of the paper, please use Times Roman (Times New Roman) 12

Abstract. This template explains and demonstrates how to prepare your camera-ready paper for *Trans Tech Publications*. The best is to read these instructions and follow the outline of this text. Please make the page settings of your word processor to A4 format (21 x 29,7 cm or 8 x 11 inches); with the margins: bottom 1.5 cm (0.59 in) and top 2.5 cm (0.98 in), right/left margins must be 2 cm (0.78 in).

We shall be able to publish your paper in electronic form on our web page <http://www.scientific.net>, if the paper format and the margins are correct.

Your manuscript will be reduced by approximately 20% by the publisher. Please keep this in mind when designing your figures and tables etc.

Introduction

All manuscripts must be in English, also the table and figure texts, otherwise we cannot publish your paper.

Please keep a second copy of your manuscript in your office. When receiving the paper, we assume that the corresponding authors grant us the copyright to use the paper for the book or journal in question. Should authors use tables or figures from other Publications, they must ask the corresponding publishers to grant them the right to publish this material in their paper.

Use *italic* for emphasizing a word or phrase. Do not use boldface typing or capital letters except for section headings (cf. remarks on section headings, below).

Organization of the Text

Section Headings. The section headings are in boldface capital and lowercase letters. Second level headings are typed as part of the succeeding paragraph (like the subsection heading of this paragraph).

Page Numbers. Do *not* number your paper:

Tables. Tables (refer with: Table 1, Table 2, ...) should be presented as part of the text, but in such a way as to avoid confusion with the text. A descriptive title should be placed above each table. Units in tables should be given in square brackets [meV]. If square brackets are not available, use curly {meV} or standard brackets (meV).

Special Signs. for example , $\alpha \gamma \mu \Omega () \geq \pm \bullet \Gamma \{11 \bar{2} 0\}$ should always be written in with the fonts Times New Roman or Arial, especially also in the figures and tables.

Macros. Do not use any macros for the figures and tables. (We will not be able to convert such papers into our system)

Language. All text, figures and tables must be in English.

Figures. Figures (refer with: Fig. 1, Fig. 2, ...) also should be presented as part of the text, leaving enough space so that the caption will not be confused with the text. The caption should be self-contained and placed *below or beside* the figure. Generally, only original drawings or photographic reproductions are acceptable. Only very good photocopies are acceptable. Utmost care must be taken to *insert the figures in correct alignment with the text*. Half-tone pictures should be in the form of glossy prints. If possible, please include your figures as graphic images in the electronic version. For best quality the pictures should have a resolution of 300 dpi (dots per inch). Color figures are welcome for the online version of the journal. Generally, these figures will be reduced to black and white for the print version. The author should indicate on the checklist if he wishes to have them printed in full color and make the necessary payments in advance.

Equations. Equations (refer with: Eq. 1, Eq. 2, ...) should be indented 5 mm (0.2"). There should be one line of space above the equation and one line of space below it before the text continues. The equations have to be numbered sequentially, and the number put in parentheses at the right-hand edge of the text. Equations should be punctuated as if they were an ordinary part of the text. Punctuation appears after the equation but before the equation number. The use of Microsoft Equation is allowed.

$$c^2 = a^2 + b^2.$$

(1)

Literature References

References are cited in the text just by square brackets [1]. (If square brackets are not available, slashes may be used instead, e.g. /2/.) Two or more references at a time may be put in one set of brackets [3,4]. The references are to be numbered in the order in which they are cited in the text and are to be listed at the end of the contribution under a heading *References*, see our example below.

Summary

If you follow the “checklist” your paper will conform to the requirements of the publisher and facilitate a problem-free publication process.

References

[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2000) 51-59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, third ed., Macmillan, New York, 1979.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 1999, pp. 281-304.

[4] R.J. Ong, J.T. Dawley and P.G. Clem: submitted to *Journal of Materials Research* (2003)

[5] P.G. Clem, M. Rodriguez, J.A. Voigt and C.S. Ashley, U.S. Patent 6,231,666. (2001)

[6] Information on <http://www.weld.labs.gov.cn>

The 1st International Conference on Marine Technology (SENTA)

December 15-16th, 2016

Surabaya, Indonesia

REGISTRATION FORM

Yes, I am interested in (please check):

- Presenting papers
 Attending the conference
 Sponsoring the exhibition

Title (please check):

Prof. Dr. Mr. Mrs. Ms.

Family Name : Muis Alie
Given Name : Muhammad Zubair
Position : Lecturer
Organization/Company : Hasanuddin University
Address : Jl. Poros Malino Bontomarannu km.6
City : Gowa
Country : Indonesia
Phone (Include country code) : +62-411-8981032
Mobile Phone : +62-81-382815767
Fax : +62-411-586015
Email : zubair.m@eng.unhas.ac.id

Please return this form by email to the 1st SENTA 2016 Committee (senta@its.ac.id).

The 1st International Conference on Marine Technology (SENTA)

December 15-16th, 2016

Surabaya, Indonesia

PRESENTER'S BIODATA

| | |
|-------------------|---|
| Paper Number | |
| Paper Title | Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages |
| Author(s) | Muhammad Zubair Muis Alie, Wahyuddin, Syamsul Asri, Farianto Fachruddin Lage, Juswan and Taufiqur Rachman |
| Name of Presenter | Muhammad Zubair Muis Alie |

Affiliation/Department/Firm/Organization/Institute:

1. Hasanuddin University/Naval Architect and Ocean Engineering/Engineering Faculty
-

Academic Background:

- Ship and Offshore Structure, Department of Naval Architect and Ocean Engineering

Brief Work Experience/Professional Background:

- Lecturer at Department of Naval Architect and Ocean Engineering _____

Brief Description of Paper (2-3 sentences):

- Investigation to the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending.

Others :

Please return this form by email to the 1st SENTA 2016 Committee (senta@its.ac.id).

Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Muhammad Zubair Muis Alie^{1, a *}, Wahyuddin^{1, b}, Syamsul Asri^{1, c}, Farianto Fachruddin Lage^{1, d}, Juswan^{1, e} and Taufiqur Rachman^{1, f}

¹Department of Naval Architect and Ocean Engineering, Engineering Faculty Hasanuddin University, Indonesia

^azubair.m@eng.unhas.ac.idl, ^bwahyumustafa@yahoo.co.id, ^csa_tanri_kapal83@yahoo.com, ^dfariantorma@gmail.com, ^ejuswansade@gmail.com, and ^focean_d321@yahoo.com,

Keywords: VLCC, cross section, longitudinal bending, damages

Abstract. The objective of the present study is to analyze the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Introduction

Grounding and collision damages may occur on ship when it operates at sea. The grounding and collision accidents of liquid cargo such as crude oil carriers cause the ship structure becomes damage and the oil spills makes the ocean environment polluted. In conjunction with this, the design of ship structure must be considered as one of the functional requirement for structural safety.

The investigations of ship damage due to grounding and collision have been conducted by some research. The mechanics of grounding on relatively plane slopes were analyzed with emphasis on evaluation of the overall forces on the ship hull girder was presented by Pedersen [1]. Those presentations were divided into three parts. Firstly, a mathematical analysis model would be presented for estimation of the contact pressure between grounded ship and the sea bottom. These ground contact forces were compared to the forces, which would crush the forward bottom of the ship. In the second part, the sectional area forces and bending moment due to grounding would be determined and compared to the ultimate-hull-girder sectional forces. Finally, model experiments and full-scale controlled grounding experiments were briefly described which have served to validate the mathematical model and used to determine appropriate frictional coefficients. To get at much insight as possible into the mechanics of ship grounding, simplifications to the problem were sought such that analytical solutions could be derived. The same assumption as that used in the method of Wierzbicki and Thomas for a separated curved surface was employed by Zhang [2], in which the material rolls up into two curved surfaces behind the wedge tip. Also, the material in front of the wedge tip. By assuming a plastic deformation in front of the wedge tip, analytical

formulae for plate-cutting force and absorbed energy are obtained with a character that the critical rupture strain of the material enters the solution. Damage to ship bottom in grounding accident is quite complex. So, a semi empirical method was proposed for determining bottom damage resistance in grounding scenario. Finally, simple expression, expressed in terms of the ship's principal particulars, for determining damage resistance and damage extent in ship grounding were presented. An investigation of the longitudinal strength of damaged ship hulls for a broad spectrum of collision and grounding accidents was reported by Wang [3]. Both the hull girder section modulus and hull girder ultimate strength were calculated. The aim is to obtain simple relations to assess residual hull girder strength, which may be used as handy and reliable tools to help make timely decisions in the event of an emergency. Theoretical analyses were presented and analytical formulae were derived. Typical designs of 67 commercial ships, including 21 double hull tankers, 18 bulk carriers, 22 single hull tankers and six container carriers, which have lost portions of bottom shell plating and side shell plating, were analyzed to obtain such simple equations for predicting residual strength of damaged ships. A VLCC designed according to the CSR for Tankers (IACS, 2010) was chosen as a target to calculate the residual strength [4]. Probability levels of 10%, 30%, 50% and 70% were taken into account for defining the extent of the damage. The residual longitudinal strengths were presented for all possible heeling angles with 15% increments from sagging to hogging conditions. Muis Alie, M.Z [5], analyzed the residual strength of asymmetrically damaged ship hull girder under longitudinal bending. Beam finite element method was used for the assessment of residual strength of two single hull bulk carriers and a three-cargo hold model of a single-side Panamax Bulk Carrier in hogging and sagging conditions. A fast and reasonably accurate method for exploring the collapse of hull girder in the damage condition was developed by Paik [6]. Location and amount of collision and grounding damage were defined based on the ABS safe hull guide. The risk of hull collapse was explored by comparing the applied extreme bending moment and ultimate hull girder strength, which were both estimated by using simplified design oriented methods or formulas. To characterize residual strength, an elastic section modulus based residual strength index and an ultimate bending strength based residual strength index were defined. As an illustrative example, these indices were obtained for the hull girder collapse of a hypothetical Panamax class bulk carrier after collision and grounding.

In the present study, a VLCC hull girder with damages subjected to longitudinal bending is analyzed. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The welding residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Analytical Formulation

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1 The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution. Although the grounding or collision damages takes place at the asymmetric position, the cross section is assumed to be remained plane. In conjunction with this, the axial strain at the structural element caused by vertical and horizontal curvature can be expressed as

$$\varepsilon_i(y_i, z_i) = \varepsilon_0 + y_i \varphi_H + z_i \varphi_V \quad (1)$$

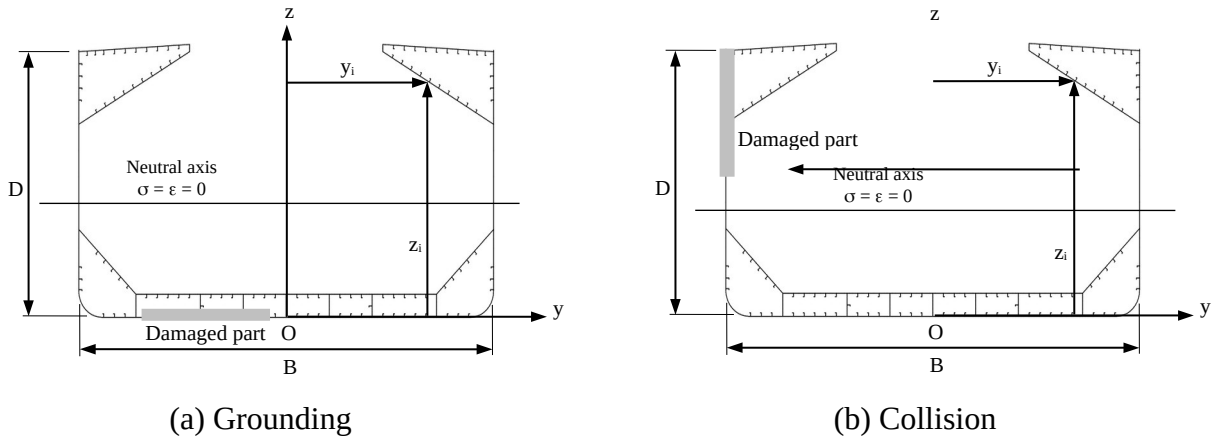


Fig. 1 Damages on the ship cross section

Where ε_0 , φ_H and φ_V are the axial strain at the origin O, horizontal curvature and vertical curvature respectively. The y and z are the coordinates with the origin at the bottom keel are defined according to Fig. 1. The relationship between axial stress and axial strain to calculate the individual element can be expressed by the following equation,

$$\sigma = f_i(\varepsilon) \quad (2)$$

Where $f_i(0)=0$. The axial force P , the vertical bending moment M_V and the horizontal bending moment M_H can be obtained by using the formulas,

$$\begin{aligned} P &= \sum_{i=1}^N \sigma_i A_i \approx 0 \\ M_V &= \sum_{i=1}^N \sigma_i A_i y_i \\ M_H &= \sum_{i=1}^N \sigma_i A_i x_i \end{aligned} \quad (3)$$

Those values are obtained by integrating the axial stress over the intact part of the cross section. Where N is the number of intact elements and A_i is a cross section of individual element. The tangential stiffness obtained as a slope of the average stress-average strain relationship of the individual element by D_i as shown in Fig. 2, the relationship of axial stress and strain can be expressed as

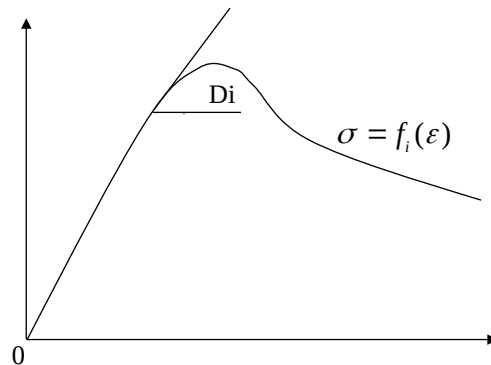


Fig. 2 Average stress-average strain relationship of an element

$$\Delta\sigma = D_i \Delta\varepsilon \left(D_i = \frac{df_i}{d\varepsilon} \right) \quad (4)$$

By performing Eqs. 1 and 4, the axial load, vertical curvature and horizontal curvature from Eq. 3 can be written into the matrix form as follow,

$$\begin{pmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} \bar{D}_{AA} & \bar{D}_{AH} & \bar{D}_{AV} \\ \bar{D}_{HA} & \bar{D}_{HH} & \bar{D}_{HV} \\ \bar{D}_{VA} & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{pmatrix} \Delta\varepsilon_0 \\ \Delta\varphi_H \\ \Delta\varphi_V \end{pmatrix} \quad (5)$$

The axial force ΔP from Eq. 5 may be rearranged in the form

$$\begin{aligned} \Delta P &= \bar{D}_{AA} \Delta\varepsilon_0 + \bar{D}_{AH} \Delta\varphi_H + \bar{D}_{AV} \Delta\varphi_V \\ &= \sum_{i=1}^N D_i (\Delta\varepsilon_0 + y_i \Delta\varphi_H + z_i \Delta\varphi_V) A_i \\ &= \sum_{i=1}^N D_i [\Delta\varepsilon_G + (y_i - y_G) \Delta\varphi_H + (z_i - z_G) \Delta\varphi_V] A_i \end{aligned} \quad (6)$$

where

$$\Delta\varepsilon_G = \Delta\varepsilon_0 + y_G \Delta\varphi_H + z_G \Delta\varphi_V \quad (7)$$

y_G and z_G are given by,

$$\begin{aligned} y_G &= \frac{\left(\sum_{i=1}^N y_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)} \\ z_G &= \frac{\left(\sum_{i=1}^N z_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)} \end{aligned} \quad (8)$$

The Eq. 5 can be written by assuming that under pure longitudinal bending $\Delta P = 0$, therefore,

$$\begin{pmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{pmatrix} = \begin{bmatrix} \bar{D}_{AA} & 0 & 0 \\ 0 & \bar{D}_{HH} & \bar{D}_{HV} \\ 0 & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{pmatrix} \Delta\varepsilon_G \\ \Delta\varphi_H \\ \Delta\varphi_V \end{pmatrix} \quad (9)$$

where

$$\begin{aligned}
D_{AA} &= \sum_{i=1}^N D_i A_i & D_{HV} = D_{VH} &= \sum_{i=1}^N D_i (y_i - y_G)(z_i - z_G) A_i \\
D_{HH} &= \sum_{i=1}^N D_i (y_i - y_G)^2 A_i & D_{VV} &= \sum_{i=1}^N D_i (z_i - z_G)^2 A_i
\end{aligned} \tag{10}$$

Using the Eq. 10, the relationship of the biaxial bending moments and curvatures can be given by the following formula,

$$\begin{Bmatrix} \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \phi_H \\ \Delta \phi_V \end{Bmatrix} \tag{11}$$

The bending moment-curvature relationship, Eq. 11 can be applied to the ship hull girder strength by the following loading and/or constraint conditions. The first is the hull girder under pure vertical bending moment

$$\begin{Bmatrix} 0 \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \phi_H \\ \Delta \phi_V^0 \end{Bmatrix} \tag{12}$$

Where the superscript '0' indicates a prescribed value, and the solutions are

$$\begin{aligned}
\Delta \phi_H &= -\frac{D_{HV}}{D_{HH}} \Delta \phi_V^0 \\
\Delta M_V &= \left(D_{VV} - \frac{D_{VH} D_{HV}}{D_{HH}} \right) \Delta \phi_V^0
\end{aligned} \tag{13}$$

The second is the hull girder under vertical bending moment with horizontal curvature constrained

$$\begin{Bmatrix} \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} 0 \\ \Delta \phi_V^0 \end{Bmatrix} \tag{14}$$

And the solutions are

$$\begin{aligned}
\Delta M_H &= D_{HV} \Delta \phi_V^0 \\
\Delta M_V &= D_{VV} \Delta \phi_V^0
\end{aligned} \tag{16}$$

Method of Analysis

Collapse analysis of the ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken for the assessment of the collapse analysis. The ship breadth and height are 42000 mm and 20300 mm, respectively. The grounding damage is assumed to be asymmetric position of the cross section. The transversal damage extent is chosen 10% and 70% of the ship's breadth. For the case of collision damage, the transversal damage extent is B/16, while the vertical damage extent is set up to be 10% and 70%, respectively. The longitudinal damage extent is one-frame space for grounding and collision damages. The analysis procedures of the collapse analysis of VLCC tanker for grounding and collision damages are summarized as follow,

1. Subdivide the cross-section into elements consists of stiffener and attached plating.
2. Derive the average stress-average strain relationship of individual element by considering the influence of buckling and yielding.
3. Derive the tangential axial stiffness of individual element from the average stress-average strain relationship.

The grounding and collision damages for 10% and 70% of VLCC tanker are presented in the following figures below,

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1 The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution.

Collapse Analysis on VLCC Subjected to Longitudinal Bending with Damages

Muhammad Zubair Muis ALIE^{1,a*}, WAHYUDDIN^{1,b}, Syamsul ASRI^{1,c},
Farianto Fachruddin LAGE^{1,d}, JUSWAN^{1,e}, Taufiqur RACHMAN^{1,f}

¹Department of Naval Architecture and Ocean Engineering, Engineering Faculty,
Hasanuddin University, Indonesia

^azubair.m@eng.unhas.ac.id, ^bwahyumustafa@yahoo.co.id, ^csa_tanri_kapal83@yahoo.com,
^dfariantorma@gmail.com, ^ejuswansade@gmail.com, ^focean_d321@yahoo.com

*corresponding author

Keywords: VLCC, cross section, longitudinal bending, damages.

Abstract. The objective of the present study is to analyze the progressive collapse of VLCC hull girder with damages subjected to longitudinal bending. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Introduction

Grounding and collision damages may occur on ship when it operates at sea. The grounding and collision accidents of liquid cargo such as crude oil carriers effect the ship structure becomes damage and the oil spills makes the ocean environment polluted. In conjunction with this, the design of ship structure must be considered as one of the functional requirement for structural safety.

The investigations of ship damage due to grounding and collision have been conducted by some research. The mechanics of grounding on relatively plane slopes were analyzed with emphasis on evaluation of the overall forces on the ship hull girder was presented by Pedersen [1]. To get at much insight as possible into the mechanics of ship grounding, simplifications to the problem were sought such that analytical solutions could be derived. The same assumption as that used in the method of Wierzbicki and Thomas for a separated curved surface was employed by Zhang [2], in which the material rolls up into two curved surfaces behind the wedge tip. Damage to ship bottom in grounding accident is quite complex. So, a semi empirical method was proposed for determining bottom damage resistance in grounding scenario. Finally, simple expression, expressed in terms of the ship's principal particulars, for determining damage resistance and damage extent in ship grounding were presented. An investigation of the longitudinal strength of damaged ship hulls for a broad spectrum of collision and grounding accidents was reported by Wang [3]. Both the hull girder section modulus and hull girder ultimate strength were calculated. The aim is to obtain simple relations to assess residual hull girder strength, which may be used as handy and reliable tools to help make timely decisions in the event of an emergency. Muis Alie, M.Z [4] analyzed the residual strength of asymmetrically damaged ship hull girder under longitudinal bending. Beam finite element method was used for the assessment of residual strength of two single hull bulk carriers and a three-cargo hold model of a single-side Panamax Bulk Carrier in hogging and sagging conditions. A fast and reasonably accurate method for exploring the collapse of hull girder in the damage condition was developed by Paik [5]. Location and amount of collision and grounding damage were defined based on the ABS safe hull guide. To characterize residual strength, an elastic section modulus based residual strength index and an ultimate bending strength based residual strength

index were defined. As an illustrative example, these indices were obtained for the hull girder collapse of a hypothetical Panamax class bulk carrier after collision and grounding.

In the present study, a VLCC hull girder with damages subjected to longitudinal bending is analyzed. For the simple case, the cross-section is assumed to be remained plane and the vertical bending moment is applied to the cross section. The welding residual stress, initial imperfection, and crack are not considered. The damages scenarios are located at the center part and asymmetric position of the cross section. To analyze the progressive collapse including its behavior of VLCC ship hull, the simply supported is imposed to the cross section and taking the hogging and sagging condition into account. The results obtained for intact and damages condition by the analytical solution is compared and summarized with one another.

Analytical Formulation

Generally, damages due to grounding or collision are assumed to be located at an asymmetric position of a hull girder cross section as shown in Fig.1. The progressive collapse of ship hull girder subjected to longitudinal bending moment due to grounding and collision damages is calculated using some formulations in the analytical solution. Although the grounding or collision damages takes place at the asymmetric position, the cross section is assumed to be remained plane. In conjunction with this, the axial strain at the structural element caused by vertical and horizontal curvature can be expressed as,

$$\varepsilon_i(y_i, z_i) = \varepsilon_0 + y_i \phi_H + z_i \phi_V \quad (1)$$

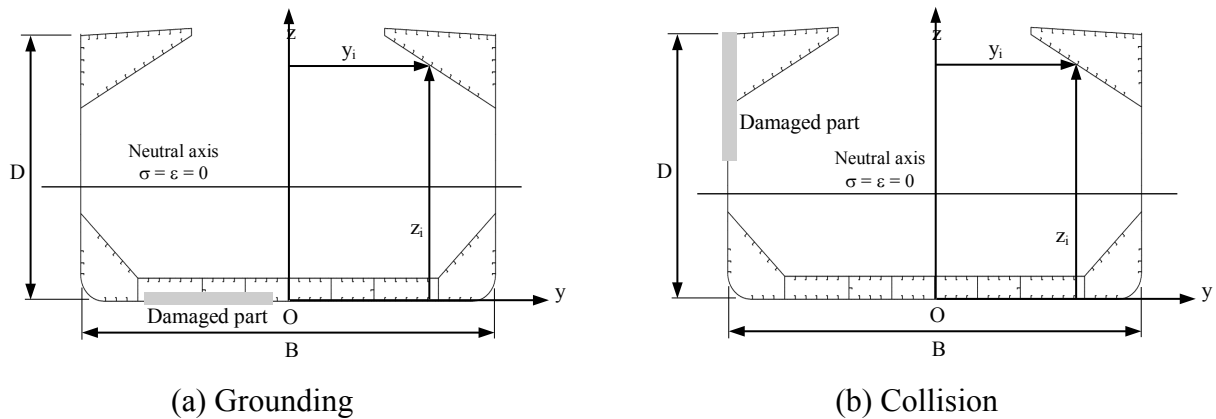


Figure 1. Damages on the ship cross section.

where ε_0 , ϕ_H and ϕ_V are the axial strain at the origin O, horizontal curvature and vertical curvature respectively. The y and z are the coordinates with the origin at the bottom keel are defined according to Fig. 1. The relationship between axial stress and axial strain to calculate the individual element can be expressed by the following equation

$$\sigma = f_i(\varepsilon) \quad (2)$$

where $f_i(0) = 0$. The axial force P , the vertical bending moment M_V and the horizontal bending moment M_H can be obtained by using the formulas:

$$\begin{aligned} P &= \sum_{i=1}^N \sigma_i A_i \cong 0 \\ M_V &= \sum_{i=1}^N \sigma_i A_i y_i \\ M_H &= \sum_{i=1}^N \sigma_i A_i x_i \end{aligned} \quad (3)$$

Those values are obtained by integrating the axial stress over the intact part of the cross section. Where N is the number of intact elements and A_i is a cross section of individual element. The tangential stiffness obtained as a slope of the average stress-average strain relationship of the individual element by D_i as shown in Fig. 2, the relationship of axial stress and strain can be expressed as,

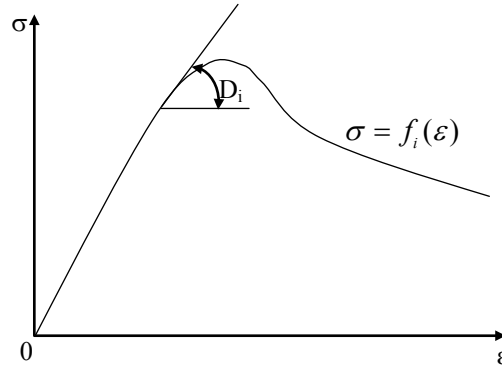


Figure 2. Average stress-average strain relationship of an element.

$$\Delta\sigma = D_i\Delta\varepsilon \left(D_i = \frac{df_i}{d\varepsilon} \right) \tag{4}$$

By performing Eqs. 1 and 4, the axial load, vertical curvature and horizontal curvature from Eq. 3 can be written into the matrix form as follow:

$$\begin{Bmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} \bar{D}_{AA} & \bar{D}_{AH} & \bar{D}_{AV} \\ \bar{D}_{HA} & \bar{D}_{HH} & \bar{D}_{HV} \\ \bar{D}_{VA} & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{Bmatrix} \Delta\varepsilon_0 \\ \Delta\phi_H \\ \Delta\phi_V \end{Bmatrix} \tag{5}$$

The axial force ΔP from Eq. 5 may be rearranged in the form

$$\begin{aligned} \Delta P &= \bar{D}_{AA}\Delta\varepsilon_0 + \bar{D}_{AH}\Delta\phi_H + \bar{D}_{AV}\Delta\phi_V \\ &= \sum_{i=1}^N D_i(\Delta\varepsilon_0 + y_i\Delta\phi_H + z_i\Delta\phi_V)A_i \\ &= \sum_{i=1}^N D_i\{\Delta\varepsilon_G + (y_i - y_G)\Delta\phi_H + (z_i - z_G)\Delta\phi_V\}A_i \end{aligned} \tag{6}$$

where

$$\Delta\varepsilon_G = \Delta\varepsilon_0 + y_G\Delta\phi_H + z_G\Delta\phi_V \tag{7}$$

y_G and z_G are given by

$$\begin{aligned} y_G &= \frac{\left(\sum_{i=1}^N y_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)} \\ z_G &= \frac{\left(\sum_{i=1}^N z_i D_i A_i \right)}{\left(\sum_{i=1}^N D_i A_i \right)} \end{aligned} \tag{8}$$

The Eq. 5 can be written by assuming that under pure longitudinal bending $\Delta P = 0$, therefore,

$$\begin{Bmatrix} \Delta P = 0 \\ \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} \bar{D}_{AA} & 0 & 0 \\ 0 & \bar{D}_{HH} & \bar{D}_{HV} \\ 0 & \bar{D}_{VH} & \bar{D}_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \varepsilon_G \\ \Delta \phi_H \\ \Delta \phi_V \end{Bmatrix} \quad (9)$$

where

$$\begin{aligned} D_{AA} &= \sum_{i=1}^N D_i A_i & D_{HV} &= D_{VH} = \sum_{i=1}^N D_i (y_i - y_G)(z_i - z_G) A_i \\ D_{HH} &= \sum_{i=1}^N D_i (y_i - y_G)^2 A_i & D_{VV} &= \sum_{i=1}^N D_i (z_i - z_G)^2 A_i \end{aligned} \quad (10)$$

Using the Eq. 10, the relationship of the biaxial bending moments and curvatures can be given by the following formula,

$$\begin{Bmatrix} \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \phi_H \\ \Delta \phi_V \end{Bmatrix} \quad (11)$$

The bending moment-curvature relationship, Eq. 11 can be applied to the ship hull girder strength by the following loading and/or constraint conditions. The first is the hull girder under pure vertical bending moment

$$\begin{Bmatrix} 0 \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} \Delta \phi_H \\ \Delta \phi_V^0 \end{Bmatrix} \quad (12)$$

where the superscript '0' indicates a prescribed value, and the solutions are:

$$\begin{aligned} \Delta \phi_H &= -\frac{D_{HV}}{D_{HH}} \Delta \phi_V^0 \\ \Delta M_V &= \left(D_{VV} - \frac{D_{VH} D_{HV}}{D_{HH}} \right) \Delta \phi_V^0 \end{aligned} \quad (13)$$

The second is the hull girder under vertical bending moment with horizontal curvature constrained,

$$\begin{Bmatrix} \Delta M_H \\ \Delta M_V \end{Bmatrix} = \begin{bmatrix} D_{HH} & D_{HV} \\ D_{VH} & D_{VV} \end{bmatrix} \begin{Bmatrix} 0 \\ \Delta \phi_V^0 \end{Bmatrix} \quad (14)$$

and the solutions are:

$$\begin{aligned} \Delta M_H &= D_{HV} \Delta \phi_V^0 \\ \Delta M_V &= D_{VV} \Delta \phi_V^0 \end{aligned} \quad (15)$$

Method of Analysis

Collapse analysis of the ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken for the assessment of the collapse analysis. The ship breadth and high are 42000 mm and 20300 mm, respectively. The grounding damage is assumed to be asymmetric position of the cross section. The transversal damage extent is chosen 10% and 70% of the ship's breadth. For the case of collision damage, the transversal damage extent is B/16, while the vertical damage extent is set up to be 10% and 70%, respectively. The longitudinal damage extent is one-frame space for grounding and collision damages. The analysis procedures of the collapse analysis of VLCC tanker for grounding and collision damages are summarized as follows:

1. Subdivide the cross-section into elements consists of stiffener and attached plating.
2. Derive the average stress-average strain relationship of individual element by considering the influence of buckling and yielding.
3. Derive the tangential axial stiffness of individual element from the average stress-average strain relationship.
4. Calculate the center position of neutral axis y_G and z_G
5. Evaluate the flexural stiffness of the cross section with respect to neutral axis.
6. Calculate the curvature and/or bending moment under specified condition.
7. Calculate the strain in individual element from the curvature, and their stress using the slope of average stress-average strain curve.

The grounding damages for 10% and 70% of VLCC tanker are presented in the Fig. 3 as follows:

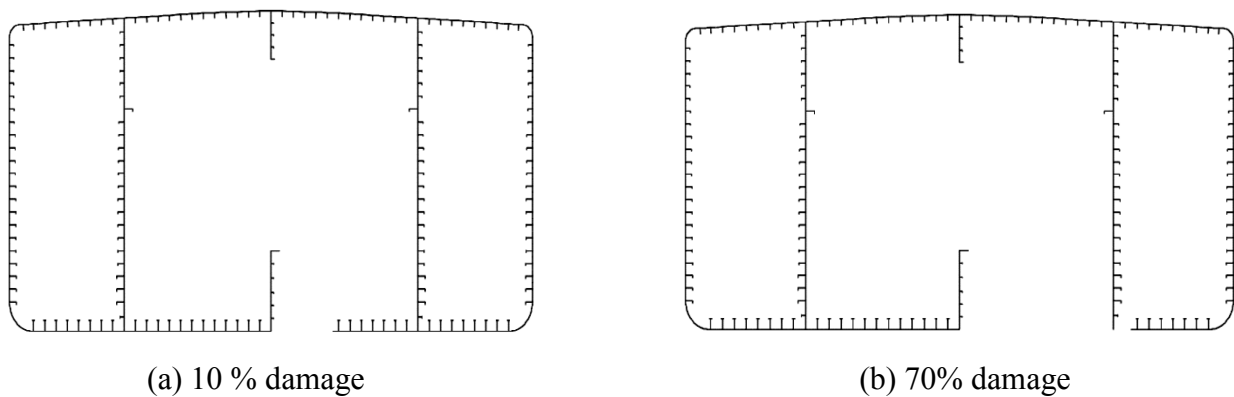


Figure 3. Grounding damage of VLCC Tanker.

while the collision damages for 10% and 70% of VLCC tanker are presented in the Fig. 4 as follows:

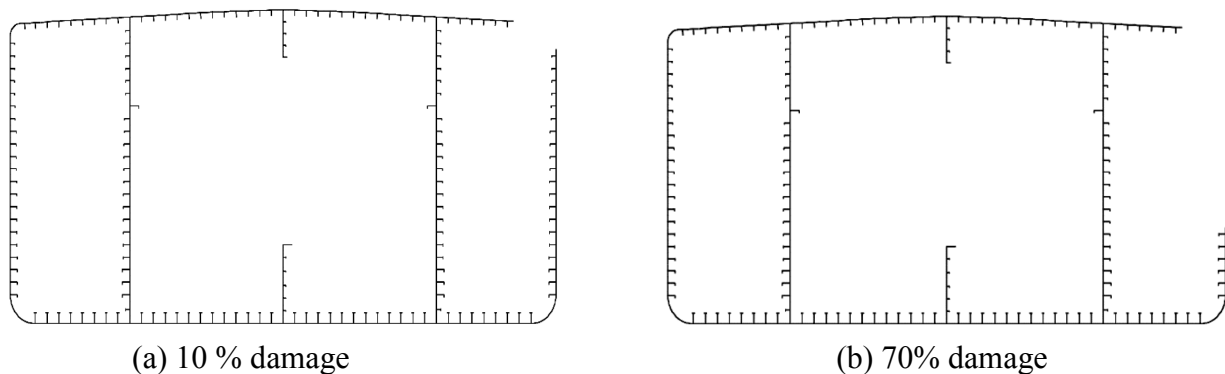


Figure 4. Collision damage of VLCC Tanker.

Results and Discussion

Collapse analysis of ship hull girder with grounding and collision damages are performed using the Smith's method. A VLCC of tanker is taken as the object of the analysis and subjected to longitudinal bending moment by taking the hogging and sagging condition into account. The ultimate strength for 10% and 70% of grounding damages are summarized as follows:

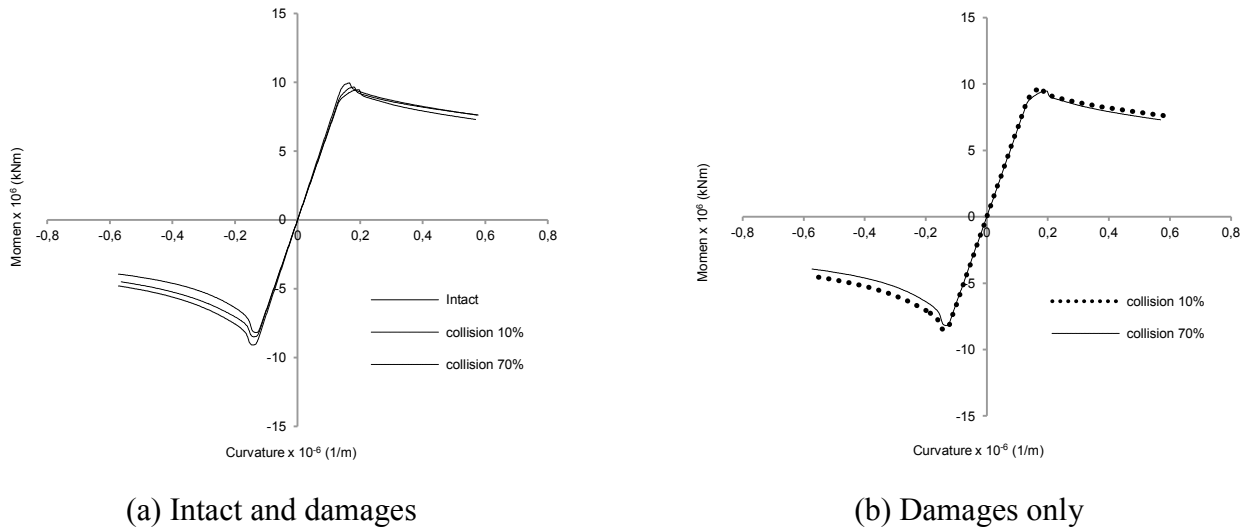


Figure 5. Moment-curvature relationship.

Figure 5 shows the comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% collision damages. It is clear that the ultimate strength decreases not only hogging but also sagging conditions, when those compare to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression. This is because there is transversal damage extent of B/16 at the deck part.

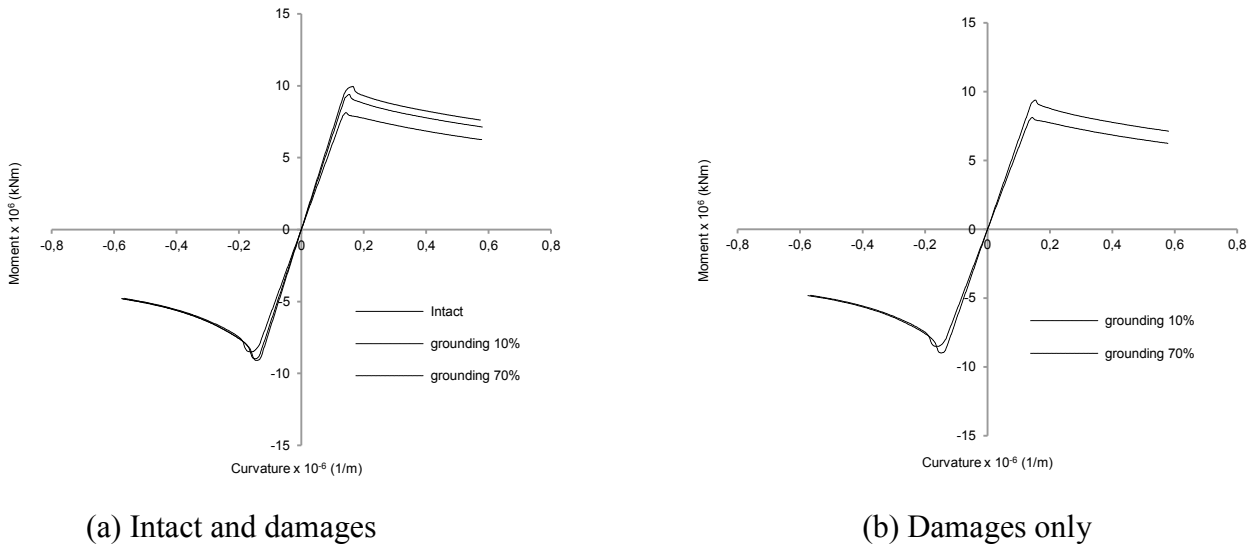


Figure 6. Moment-curvature relationship.

The comparison of the moment-curvature relationship of the ultimate strength for 10% and 70% grounding damages are shown in Fig. 6. When the grounding damage is considered, the significant different of the collapse behavior takes place on the hogging condition. It is known well that under hogging condition, bottom part is under compression and deck is under tension. In this regard, some of the elements at the bottom part lost their rigidity due to grounding damage. This is also due to the asymmetric position of the damage.

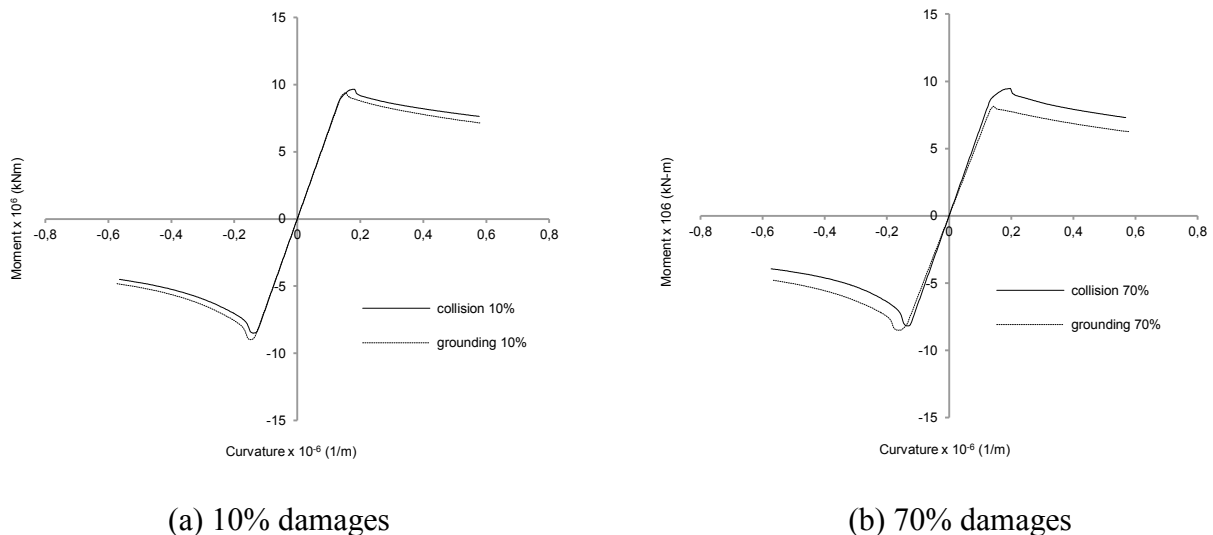


Figure 7. Moment-curvature relationship.

The moment-curvature relationship obtained by analytical solution for 10% damage and 70% damages under hogging and sagging condition subjected to grounding and collision damages. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part. Similarly with the 70% damage both hogging and sagging condition.

Conclusions

Collapse analysis of ship hull girder with grounding and collision damages have been conducted using the Smith's method. The following conclusion of the collapse analysis of a VLCC of tanker are summarized :

1. It is clear that the ultimate strength decreases not only hogging but also sagging conditions when those are compared to the intact one. The significant influence takes place on the post ultimate strength, particularly when the ship is under compression.
2. It is observed that the ultimate strength for the collision damage is larger than grounding one under hogging condition. This is due to the transversal damage extent at the deck part since the deck part is under hogging condition. On the other hand, grounding gives larger ultimate strength compared to the collision, since grounding located at the asymmetric position of the bottom part.

References

- [1] P.T. Pedersen, Ship Grounding and Hull-Girder Strength, *J. Marine Structures* 7 (1994) 1-29.
- [2] S. Zhang, Plate Tearing and Bottom Damage in Ship Grounding, *J. Marine Structures* 15 (2002) 101-117.
- [3] G. Wang, Y. Chen, H. Zhang and H. Peng, Longitudinal Strength of Ships with Accidental Damages, *J. Marine Structures* 15 (2002) 119-138.
- [4] M.Z. Muis Alie, Residual Strength Analysis of Asymmetrically Damaged Ship Hull Girder Using Beam Finite Element Method, *Makara J. of Technology* 20 (2016) 7-12.
- [5] J.K. Paik, A.K. Thayamballi and S.H. Yang, Residual Strength Assessment of Ships after Collision and Grounding, *J. Marine Technology* 35 (1998) 38-54.

