

## FLORIDA PRODUCT APPROVAL

### 26GA 5V Crimp over 15/32 Plywood

#### Premier Metal Roof Manufacturing

17613 S. Hwy 475 | Summerfield FL 34491

[www.PMROOF.com](http://www.PMROOF.com) | 352-356-1609

#### Product Description

5V style metal roof panel anchored by exposed fasteners. Panel coverage is nominally 24" with nominal rib height of 1/2"

#### Product Material: 26ga (min) steel

26ga is nominally 0.0185" with yield strength of at least 50ksi, and shall be corrosion resistant per FBC 1507.4.3 where required

#### Fastener: #10 x 1.5 inch fastener with sealing washer

Compliant with FBC 1506.6 where required.

#### Substrate/Deck: 15/32" (min) plywood

#### Maximum Allowable Loads & Installation Requirements:

Method A: #10 x 1.5" fastener in 12"-12 pattern at 12": 108.5 PSF

A factor of safety of 2 has been applied.

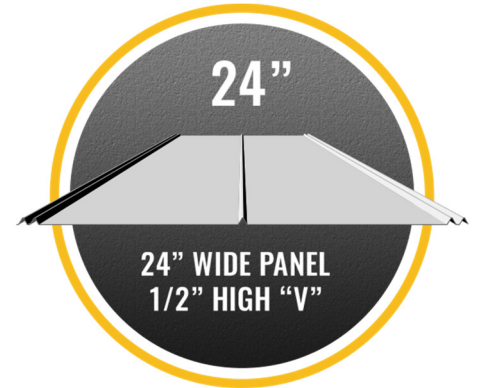
#### Evaluated by:

David Eng, PE | Timberlake Cove, LLC

1317 Edgewater Dr, Ste 2339 | Orlando FL 32804

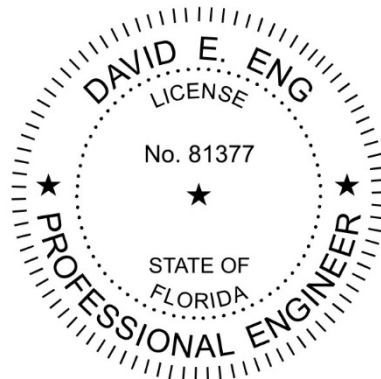
FL PE 81377 | FL CA 33344

[www.TimberLakeCove.com](http://www.TimberLakeCove.com)



### 5VCRIMP

Classic Exposed Fastener Panel



This item has been digitally signed and sealed by D.E. Eng, PE, on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

**Underlayment:** Comply with local building code or FBC 1507.1.1.

**Slope:** Comply with local building code or FBC 1507.4.2.

**Technical Documentation:**

This product has been tested to UL 580 by Intertek Testing (TST-1527), report K9550.03-450-44.

**Compliance Statement:**

This product as described has demonstrated compliance with Florida Building Code 2023, 1504.3.2 (**non-HVHZ**) as required by FL Rule 61G20-3, method 1D.

This product as described has been tested and demonstrated compliance with:

- UL580 – Test for Uplift Resistance of Roof Assemblies
- UL 1897 – Uplift test for roof covering systems

**Certification of Independence:**

David Eng, PE and Timberlake Cove, LLC do not have, nor will acquire a financial interest in any company manufacturing or distributing products under this evaluation. The same entities do not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

**Exclusions and Limitations:**

Design of deck and roof structure (to include attachment of plywood or wood plank) shall be completed by others. Fire classification and shear diaphragm design are outside the scope of this evaluation. This report is limited to compliance with structural wind load requirements of FBC 1504.3.2, as required by Rule 61G20-3. Neither Timberlake Cove nor the manufacturer shall be responsible for any conclusions, interpretations, or designs made by others based on this evaluation report. This report is limited solely to documenting compliance with Rule 61G20-3, and makes no express or implied warranty regarding performance of this product.

**Design Process:**

The load tables in this report provides *one* prescriptive option for the fastening requirement for the applicable wind loads for roofs within the parameters described. For roofs outside of the listed parameters, design wind loads shall be determined as required by FBC 1609, ASCE 7, or other design code in force, using allowable stress. These load tables are based on ASCE 7-22. Use of these tables assumes that the structure is:

- Enclosed and conforms to wind-borne debris provisions and is a regular shaped building
- Is not subject to across-wind loading, vortex shedding, or instability; nor does it have a site location for which channeling or buffeting warrant consideration

Engineering analysis may be completed by other licensed engineers for project specific approval by local authorities having jurisdiction.



**Use of Load Tables:**

These load tables are provided as a courtesy to provide one possible prescriptive option for a generic, typical structure without calculating the design pressures.

For structures outside the parameters of these load tables (e.g. height above 30 feet), calculate the required allowable design pressure and compare to the maximum allowable loads shown on page 2. These load tables shall not be construed to in any way limit the installation of this product to the cases shown.

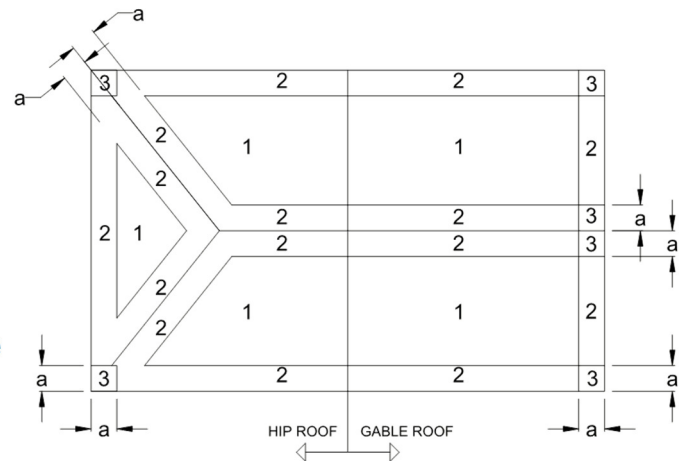
When applicable, the tables in FRC R301.2(2) and R301.2(3) may be used to determine the design uplift pressure. The FRC tables are copied below as a courtesy.

**Instructions:**

Select the appropriate load table that applies to the structure in question.

Determine the design wind speed for the project location.

Use the attachment method indicated for that windspeed within each roof zone.

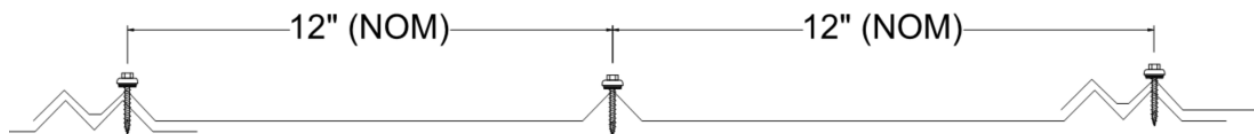


a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M), OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

**ROOF ZONES FOR GENERIC BUILDING**

METHOD A: 12" O.C.

NR: CONSULT DESIGN PROFESSIONAL



## Load Tables

Use this load table for structures which meet the following criteria:  
 Are located in **Exposure B** area  
 Has a **gable roof** with **max slope of 45° (±12:12)**  
 Have a mean roof height of **15 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |    |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |    |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A  |
| Zone 2: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A  |
| Zone 3: | A       | A   | A   | A   | A   | A   | A   | A   | A   | NR |

Use this load table for structures which meet the following criteria:  
 Are located in **Exposure B** area  
 Has a **hip roof** with **max slope of 45° (±12:12)**  
 Have a mean roof height of **15 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |   |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |   |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A |
| Zone 2: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A |
| Zone 3: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A |

Use this load table for structures which meet the following criteria:  
 Are located in **Exposure B** area  
 Has a **gable roof** with **max slope of 45° (±12:12)**  
 Have a mean roof height of **30 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |    |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |    |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A  |
| Zone 2: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A  |
| Zone 3: | A       | A   | A   | A   | A   | A   | NR  | NR  | NR  | NR |

Use this load table for structures which meet the following criteria:  
 Are located in **Exposure B** area  
 Has a **hip roof** with **max slope of 45° (±12:12)**  
 Have a mean roof height of **30 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |   |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |   |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A |
| Zone 2: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A |
| Zone 3: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A |

Use this load table for structures which meet the following criteria:  
 Are located in **Exposure C** area  
 Have either a **flat roof, or gable/hip roof** with **max slope of 45° (±12:12)**  
 Have a mean roof height of **15 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |    |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |    |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A  |
| Zone 2: | A       | A   | A   | A   | A   | A   | A   | NR  | NR  | NR |
| Zone 3: | A       | A   | A   | A   | A   | NR  | NR  | NR  | NR  | NR |

Use this load table for structures which meet the following criteria:  
 Are located in **D exposure** area  
 Have either a **flat roof, or gable/hip roof** with **max slope of 45° (±12:12)**  
 Have a mean roof height of **30 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |    |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |    |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | NR  | NR  | NR |
| Zone 2: | A       | A   | A   | A   | NR  | NR  | NR  | NR  | NR  | NR |
| Zone 3: | A       | A   | NR  | NR  | NR  | NR  | NR  | NR  | NR  | NR |

Use this load table for structures which meet the following criteria:  
 Are located in **Exposure B** area  
 Have either a **hip roof** with **max slope of 45° (±12:12)**  
**or gable roof with slope between 27° and 45° (±6.1:12 - 12:12)**  
 Have a mean roof height of **15 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |    |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |    |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | A   | A  |
| Zone 2: | A       | A   | A   | A   | A   | A   | A   | A   | NR  | NR |
| Zone 3: | A       | A   | A   | A   | A   | A   | NR  | NR  | NR  | NR |

Use this load table for structures which meet the following criteria:  
 Are located in **D exposure** area  
 Have either a **hip roof** with **max slope of 45° (±12:12)**  
**or gable roof with slope between 27° and 45° (±6.1:12 - 12:12)**  
 Have a mean roof height of **30 feet or less**

**FL30343.01 26ga (min) 5V Crimp on 15/32" (min)**

|         | plywood |     |     |     |     |     |     |     |     |    |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wind    | 120     | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |    |
| Zone 1: | A       | A   | A   | A   | A   | A   | A   | A   | NR  | NR |
| Zone 2: | A       | A   | A   | A   | A   | NR  | NR  | NR  | NR  | NR |
| Zone 3: | A       | A   | A   | NR  | NR  | NR  | NR  | NR  | NR  | NR |



FBC Residential, Chapter 3

<https://codes.iccsafe.org/content/FLRC2023P1/chapter-3-building-planning>

TABLE R301.2(2)  
 COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (ASD) (psf)<sup>a, b, c, d, e, f, g</sup>

| Zone                          | Effective Wind Area | 90                     |       | 95    |       | 100   |       | 105   |       | 110   |       | 115   |       | 120   |       | 130   |       | 140   |       | 150   |       | 160   |       | 170   |       | 180   |       |       |
|-------------------------------|---------------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                               |                     | POS                    | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   | POS   | NEG   |       |
|                               |                     | Gable Roof < 7 degrees | 1'    | 10    | 3.6   | -8    | 4     | -8.9  | 4.4   | -9.9  | 4.8   | -10.9 | 5.3   | -12   | 5.8   | -13.1 | 6.3   | -14.2 | 7.4   | -16.7 | 8.6   | -19.4 | 9.9   | -22.2 | 11.2  | -25.3 | 12.7  | -28.5 |
| Gable Roof < 7 degrees        | 1'                  | 20                     | 3.3   | -8    | 3.7   | -8.9  | 4.1   | -9.9  | 4.5   | -10.9 | 5     | -12   | 5.4   | -13.1 | 5.9   | -14.2 | 7     | -16.7 | 8.1   | -19.4 | 9.3   | -22.2 | 10.5  | -25.3 | 11.9  | -28.5 | 13.3  | -32   |
|                               | 1'                  | 50                     | 3     | -8    | 3.4   | -8.9  | 3.8   | -9.9  | 4.1   | -10.9 | 4.5   | -12   | 5     | -13.1 | 5.4   | -14.2 | 6.3   | -16.7 | 7.4   | -19.4 | 8.4   | -22.2 | 9.6   | -25.3 | 10.8  | -28.5 | 12.2  | -32   |
|                               | 1'                  | 100                    | 2.8   | -8    | 3.1   | -8.9  | 3.5   | -9.9  | 3.8   | -10.9 | 4.2   | -12   | 4.6   | -13.1 | 5     | -14.2 | 5.9   | -16.7 | 6.8   | -19.4 | 7.8   | -22.2 | 8.9   | -25.3 | 10    | -28.5 | 11.3  | -32   |
|                               | 1                   | 10                     | 3.6   | -13.9 | 4     | -15.5 | 4.4   | -17.2 | 4.8   | -19   | 5.3   | -20.8 | 5.8   | -22.7 | 6.3   | -24.8 | 7.4   | -29.1 | 8.6   | -33.7 | 9.9   | -38.7 | 11.2  | -44   | 12.7  | -49.7 | 14.2  | -55.7 |
|                               | 1                   | 20                     | 3.3   | -13   | 3.7   | -14.5 | 4.1   | -16.1 | 4.5   | -17.7 | 5     | -19.4 | 5.4   | -21.2 | 5.9   | -23.1 | 7     | -27.1 | 8.1   | -31.5 | 9.3   | -36.1 | 10.5  | -41.1 | 11.9  | -46.4 | 13.3  | -52   |
|                               | 1                   | 50                     | 3     | -11.8 | 3.4   | -13.1 | 3.8   | -14.6 | 4.1   | -16.1 | 4.5   | -17.6 | 5     | -19.3 | 5.4   | -21   | 6.3   | -24.6 | 7.4   | -28.5 | 8.4   | -32.8 | 9.6   | -37.3 | 10.8  | -42.1 | 12.2  | -47.2 |
|                               | 1                   | 100                    | 2.8   | -10.9 | 3.1   | -12.1 | 3.5   | -13.4 | 3.8   | -14.8 | 4.2   | -16.2 | 4.6   | -17.8 | 5     | -19.3 | 5.9   | -22.7 | 6.8   | -26.3 | 7.8   | -30.2 | 8.9   | -34.4 | 10    | -38.8 | 11.3  | -43.5 |
|                               | 2                   | 10                     | 3.6   | -18.4 | 4     | -20.5 | 4.4   | -22.7 | 4.8   | -25   | 5.3   | -27.4 | 5.8   | -30   | 6.3   | -32.7 | 7.4   | -38.3 | 8.6   | -44.5 | 9.9   | -51   | 11.2  | -58.1 | 12.7  | -65.6 | 14.2  | -73.5 |
|                               | 2                   | 20                     | 3.3   | -17.2 | 3.7   | -19.2 | 4.1   | -21.2 | 4.5   | -23.4 | 5     | -25.7 | 5.4   | -28.1 | 5.9   | -30.6 | 7     | -35.9 | 8.1   | -41.6 | 9.3   | -47.8 | 10.5  | -54.1 | 11.9  | -61.3 | 13.3  | -68.8 |
|                               | 2                   | 50                     | 3     | -15.6 | 3.4   | -17.4 | 3.8   | -19.3 | 4.1   | -21.3 | 4.5   | -23.4 | 5     | -25.5 | 5.4   | -27.8 | 6.3   | -32.6 | 7.4   | -37.8 | 8.4   | -43.4 | 9.6   | -49.4 | 10.8  | -55.8 | 12.2  | -62.5 |
|                               | 2                   | 100                    | 2.8   | -14.4 | 3.1   | -16.1 | 3.5   | -17.8 | 3.8   | -19.7 | 4.2   | -21.6 | 4.6   | -23.6 | 5     | -25.7 | 5.9   | -30.1 | 6.8   | -35   | 7.8   | -40.1 | 8.9   | -45.7 | 10    | -51.6 | 11.3  | -57.8 |
|                               | 3                   | 10                     | 3.6   | -25   | 4     | -27.9 | 4.4   | -30.9 | 4.8   | -34.1 | 5.3   | -37.4 | 5.8   | -40.9 | 6.3   | -44.5 | 7.4   | -52.2 | 8.6   | -60.6 | 9.9   | -69.6 | 11.2  | -79.1 | 12.7  | -89.4 | 14.2  | -100  |
| 3                             | 20                  | 3.3                    | -22.7 | 3.7   | -25.3 | 4.1   | -28   | 4.5   | -30.9 | 5     | -33.9 | 5.4   | -37   | 5.9   | -40.3 | 7     | -47.3 | 8.1   | -54.9 | 9.3   | -63   | 10.5  | -71.7 | 11.9  | -80.9 | 13.3  | -90.7 |       |
| 3                             | 50                  | 3                      | -19.6 | 3.4   | -21.8 | 3.8   | -24.1 | 4.1   | -26.6 | 4.5   | -29.2 | 5     | -31.9 | 5.4   | -34.8 | 6.3   | -40.8 | 7.4   | -47.3 | 8.4   | -54.3 | 9.6   | -61.8 | 10.8  | -69.8 | 12.2  | -78.2 |       |
| 3                             | 100                 | 2.8                    | -17.2 | 3.1   | -19.2 | 3.5   | -21.2 | 3.8   | -23.4 | 4.2   | -25.7 | 4.6   | -28.1 | 5     | -30.6 | 5.9   | -35.9 | 6.8   | -41.6 | 7.8   | -47.8 | 8.9   | -54.1 | 10    | -61.3 | 11.3  | -68.8 |       |
| Gable Roof > 7 to 20 degrees  | 1                   | 10                     | 5.8   | -16.2 | 6.4   | -18   | 7.1   | -19.9 | 7.9   | -22   | 8.6   | -24.1 | 9.4   | -26.4 | 10.3  | -28.7 | 12.1  | -33.7 | 14    | -39.1 | 16.1  | -44.9 | 18.3  | -51   | 20.6  | -57.6 | 23.1  | -64.6 |
|                               | 1                   | 20                     | 5.3   | -13.9 | 5.9   | -15.5 | 6.5   | -17.1 | 7.2   | -18.9 | 7.9   | -20.7 | 8.6   | -22.7 | 9.4   | -24.7 | 11    | -29   | 12.7  | -33.6 | 14.6  | -38.6 | 16.6  | -43.9 | 18.8  | -49.5 | 21.1  | -55.5 |
|                               | 1                   | 50                     | 4.6   | -10.9 | 5.1   | -12.1 | 5.7   | -13.4 | 6.2   | -14.8 | 6.8   | -16.3 | 7.5   | -17.8 | 8.2   | -19.4 | 9.6   | -22.7 | 11.1  | -26.4 | 12.7  | -30.3 | 14.5  | -34.4 | 16.4  | -38.9 | 18.3  | -43.6 |
|                               | 1                   | 100                    | 4.1   | -8.6  | 4.5   | -9.6  | 5     | -10.7 | 5.5   | -11.7 | 6.1   | -12.9 | 6.6   | -14.1 | 7.2   | -15.3 | 8.5   | -18   | 9.8   | -20.9 | 11.3  | -24   | 12.9  | -27.3 | 14.5  | -30.8 | 16.3  | -34.5 |
|                               | 2                   | 10                     | 5.8   | -21.3 | 6.4   | -23.8 | 7.1   | -26.3 | 7.9   | -29   | 8.6   | -31.9 | 9.4   | -34.8 | 10.3  | -37.9 | 12.1  | -44.5 | 14    | -51.6 | 16.1  | -59.3 | 18.3  | -67.4 | 20.6  | -76.1 | 23.1  | -85.4 |
|                               | 2                   | 20                     | 5.3   | -18.4 | 5.9   | -20.5 | 6.5   | -22.7 | 7.2   | -25.1 | 7.9   | -27.5 | 8.6   | -30.1 | 9.4   | -32.8 | 11    | -38.4 | 12.7  | -44.6 | 14.6  | -51.2 | 16.6  | -58.2 | 18.8  | -65.7 | 21.1  | -73.7 |
|                               | 2                   | 50                     | 4.6   | -14.6 | 5.1   | -16.2 | 5.7   | -18   | 6.2   | -19.8 | 6.8   | -21.8 | 7.5   | -23.8 | 8.2   | -25.9 | 9.6   | -30.4 | 11.1  | -35.3 | 12.7  | -40.5 | 14.5  | -46.1 | 16.4  | -52   | 18.3  | -58.3 |
|                               | 2                   | 100                    | 4.1   | -11.7 | 4.5   | -13   | 5     | -14.4 | 5.5   | -15.9 | 6.1   | -17.4 | 6.6   | -19   | 7.2   | -20.7 | 8.5   | -24.3 | 9.8   | -28.2 | 11.3  | -32.4 | 12.9  | -36.8 | 14.5  | -41.6 | 16.3  | -46.6 |
|                               | 3                   | 10                     | 5.8   | -28   | 6.4   | -31.2 | 7.1   | -34.6 | 7.9   | -38.1 | 8.6   | -41.8 | 9.4   | -45.7 | 10.3  | -49.8 | 12.1  | -58.4 | 14    | -67.8 | 16.1  | -77.8 | 18.3  | -88.5 | 20.6  | -99.9 | 23.1  | -112  |
|                               | 3                   | 20                     | 5.3   | -24   | 5.9   | -26.7 | 6.5   | -29.6 | 7.2   | -32.7 | 7.9   | -35.8 | 8.6   | -39.2 | 9.4   | -42.7 | 11    | -50.1 | 12.7  | -58.1 | 14.6  | -66.6 | 16.6  | -75.8 | 18.8  | -85.6 | 21.1  | -96   |
|                               | 3                   | 50                     | 4.6   | -18.7 | 5.1   | -20.8 | 5.7   | -23.1 | 6.2   | -25.4 | 6.8   | -27.9 | 7.5   | -30.5 | 8.2   | -33.2 | 9.6   | -39   | 11.1  | -45.2 | 12.7  | -51.9 | 14.5  | -59.1 | 16.4  | -66.7 | 18.3  | -74.7 |
|                               | 3                   | 100                    | 4.1   | -14.7 | 4.5   | -16.3 | 5     | -18.1 | 5.5   | -20   | 6.1   | -21.9 | 6.6   | -24   | 7.2   | -26.1 | 8.5   | -30.6 | 9.8   | -35.5 | 11.3  | -40.8 | 12.9  | -46.4 | 14.5  | -52.3 | 16.3  | -58.7 |
| Gable Roof > 20 to 27 degrees | 1                   | 10                     | 5.8   | -12.4 | 6.4   | -13.9 | 7.1   | -15.4 | 7.9   | -16.9 | 8.6   | -18.6 | 9.4   | -20.3 | 10.3  | -22.1 | 12.1  | -26   | 14    | -30.1 | 16.1  | -34.6 | 18.3  | -39.3 | 20.6  | -44.4 | 23.1  | -49.8 |
|                               | 1                   | 20                     | 5.3   | -11.2 | 5.9   | -12.5 | 6.5   | -13.9 | 7.2   | -15.3 | 7.9   | -16.8 | 8.6   | -18.4 | 9.4   | -20   | 11    | -23.5 | 12.7  | -27.2 | 14.6  | -31.2 | 16.6  | -35.5 | 18.8  | -40.1 | 21.1  | -45   |
|                               | 1                   | 50                     | 4.6   | -9.7  | 5.1   | -10.8 | 5.7   | -11.9 | 6.2   | -13.1 | 6.8   | -14.4 | 7.5   | -15.8 | 8.2   | -17.2 | 9.6   | -20.2 | 11.1  | -23.4 | 12.7  | -26.8 | 14.5  | -30.4 | 16.4  | -34.5 | 18.3  | -38.6 |
|                               | 1                   | 100                    | 4.1   | -8.5  | 4.5   | -9.4  | 5     | -10.4 | 5.5   | -11.5 | 6.1   | -12.6 | 6.6   | -13.8 | 7.2   | -15   | 8.5   | -17.7 | 9.8   | -20.5 | 11.3  | -23.5 | 12.9  | -26.7 | 14.5  | -30.2 | 16.3  | -33.8 |
|                               | 2                   | 10                     | 5.8   | -19.9 | 6.4   | -22.1 | 7.1   | -24.5 | 7.9   | -27   | 8.6   | -29.7 | 9.4   | -32.4 | 10.3  | -35.3 | 12.1  | -41.4 | 14    | -48   | 16.1  | -55.2 | 18.3  | -62.8 | 20.6  | -70.8 | 23.1  | -79.4 |
|                               | 2                   | 20                     | 5.3   | -17   | 5.9   | -18.9 | 6.5   | -20.9 | 7.2   | -23.1 | 7.9   | -25.3 | 8.6   | -27.7 | 9.4   | -30.1 | 11    | -35.4 | 12.7  | -41   | 14.6  | -47.1 | 16.6  | -53.6 | 18.8  | -60.5 | 21.1  | -67.8 |
|                               | 2                   | 50                     | 4.6   | -13.1 | 5.1   | -14.6 | 5.7   | -16.2 | 6.2   | -17.9 | 6.8   | -19.6 | 7.5   | -21.4 | 8.2   | -23.3 | 9.6   | -27.4 | 11.1  | -31.8 | 12.7  | -36.5 | 14.5  | -41.6 | 16.4  | -46.8 | 18.3  | -52.5 |
|                               | 2                   | 100                    | 4.1   | -10.2 | 4.5   | -11.4 | 5     | -12.6 | 5.5   | -13.9 | 6.1   | -15.3 | 6.6   | -16.7 | 7.2   | -18.2 | 8.5   | -21.3 | 9.8   | -24.7 | 11.3  | -28.4 | 12.9  | -32.3 | 14.5  | -36.5 | 16.3  | -40.9 |
|                               | 3                   | 10                     | 5.8   | -23.6 | 6.4   | -26.3 | 7.1   | -29.1 | 7.9   | -32.1 | 8.6   | -35.4 | 9.4   | -38.5 | 10.3  | -41.9 | 12.1  | -49.2 | 14    | -57   | 16.1  | -65.4 | 18.3  | -74.5 | 20.6  | -84.1 | 23.1  | -94.2 |
|                               | 3                   | 20                     | 5.3   | -20   | 5.9   | -22.3 | 6.5   | -24.7 | 7.2   | -27.2 | 7.9   | -29.9 | 8.6   | -32.6 | 9.4   | -35.5 | 11    | -41.7 | 12.7  | -48.4 | 14.6  | -55.5 | 16.6  | -62.8 | 18.8  | -71.3 | 21.1  | -80   |
|                               | 3                   | 50                     | 4.6   | -15.3 | 5.1   | -17   | 5.7   | -18.9 | 6.2   | -20.8 | 6.8   | -22.8 | 7.5   | -24.9 | 8.2   | -27.2 | 9.6   | -31.9 | 11.1  | -37   | 12.7  | -42.4 | 14.5  | -48.3 | 16.4  | -54.5 | 18.3  | -61.1 |
|                               | 3                   | 100                    | 4.1   | -11.7 | 4.5   | -13   | 5     | -14.5 | 5.5   | -15.9 | 6.1   | -17.5 | 6.6   | -19.1 | 7.2   | -20.8 | 8.5   | -24.4 | 9.8   | -28.3 | 11.3  | -32.5 | 12.9  | -37   | 14.5  | -41.8 | 16.3  | -46.8 |
| Gable Roof > 27 to 45 degrees | 1                   | 10                     | 8     | -14.7 | 8.9   | -16.3 | 9.9   | -18.1 | 10.9  | -20   | 12    | -21.9 | 13.1  | -24   | 14.2  | -26.1 | 16.7  | -30.6 | 19.4  | -35.5 | 22.2  | -40.8 | 25.3  | -46.4 | 28.5  | -52.3 | 32    | -58.7 |
|                               | 1                   | 20                     | 7.3   | -12.4 | 8.2   | -13.9 | 9     | -15.4 | 10    | -16.9 | 10.9  | -18.6 | 11.9  | -20.3 | 13    | -22.1 | 15.3  | -26   | 17.7  | -30   | 20.3  | -34.6 | 23.1  | -39.3 | 26.1  | -44.4 | 29.3  | -49.8 |
|                               | 1                   | 50                     | 6.4   | -9.5  | 7.1   | -10.6 | 7.9   | -11.7 | 8.7   | -12.9 | 9.6   | -14.2 | 10.5  | -15.5 | 11.4  | -16.9 | 13.4  | -19.8 | 15.5  | -23   | 17.8  | -26.4 | 20.3  | -30   | 22    |       |       |       |



FBC Residential, Chapter 3

<https://codes.iccsafe.org/content/FLRC2023P1/chapter-3-building-planning>

|                             | Zone | Effective Wind Area | 90   |       | 95  |       | 100  |       | 105  |       | 110  |       | 115  |       | 120  |       | 130  |       | 140  |       | 150  |       | 160  |       | 170  |       | 180  |       |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |   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|      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       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|                             |      |                     | POS  | NEG   | POS | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS  | NEG   | POS | NEG |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       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   |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |   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|      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             |      |                     | Hip Roof &gt; 20 to 27 degrees <tr> <td rowspan="12">Hip Roof &gt; 20 to 27 degrees</td> <td>1</td> <td>10</td> <td>6.5</td><td>-11.7</td><td>7.3</td><td>-13</td><td>8</td><td>-14.5</td><td>8.9</td><td>-15.9</td><td>9.7</td><td>-17.5</td><td>10.6</td><td>-19.1</td><td>11.6</td><td>-20.8</td><td>13.6</td><td>-24.4</td><td>15.8</td><td>-28.3</td><td>18.1</td><td>-32.5</td><td>20.6</td><td>-37</td><td>23.3</td><td>-41.8</td><td>26.1</td><td>-46.8</td> </tr> <tr> <td>1</td> <td>20</td> <td>5.6</td><td>-10.4</td><td>6.3</td><td>-11.6</td><td>6.9</td><td>-12.8</td><td>7.7</td><td>-14.1</td><td>8.4</td><td>-15.5</td><td>9.2</td><td>-16.9</td><td>10</td><td>-18.4</td><td>11.7</td><td>-21.6</td><td>13.6</td><td>-25.1</td><td>15.6</td><td>-28.8</td><td>17.8</td><td>-32.8</td><td>20.1</td><td>-37</td><td>22.5</td><td>-41.5</td> </tr> <tr> <td>1</td> <td>50</td> 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<td>8.7</td><td>-11.7</td><td>9.7</td><td>-13</td><td>10.8</td><td>-14.5</td><td>11.9</td><td>-15.9</td><td>13.1</td><td>-17.5</td><td>14.3</td><td>-19.1</td><td>15.5</td><td>-20.8</td><td>18.2</td><td>-24.4</td><td>21.2</td><td>-28.3</td><td>24.3</td><td>-32.5</td><td>27.6</td><td>-37</td><td>31.2</td><td>-41.8</td><td>35</td><td>-46.8</td> </tr> <tr> <td>5</td> <td>20</td> <td>8.3</td><td>-10.9</td><td>9.3</td><td>-12.2</td><td>10.3</td><td>-13.5</td><td>11.4</td><td>-14.9</td><td>12.5</td><td>-16.3</td><td>13.6</td><td>-17.8</td><td>14.8</td><td>-19.4</td><td>17.4</td><td>-22.8</td><td>20.2</td><td>-26.4</td><td>23.2</td><td>-30.3</td><td>26.4</td><td>-34.5</td><td>29.8</td><td>-39</td><td>33.4</td><td>-43.7</td> </tr> <tr> <td>5</td> <td>50</td> <td>7.8</td><td>-9.9</td><td>8.7</td><td>-11</td><td>9.7</td><td>-12.2</td><td>10.7</td><td>-13.4</td><td>11.7</td><td>-14.8</td><td>12.8</td><td>-16.1</td><td>13.9</td><td>-17.6</td><td>16.3</td><td>-20.6</td><td>18.9</td><td>-23.9</td><td>21.7</td><td>-27.4</td><td>24.7</td><td>-31.2</td><td>27.9</td><td>-35.2</td><td>31.3</td><td>-39.5</td> </tr> <tr> <td>5</td> <td>100</td> <td>7.4</td><td>-9.1</td><td>8.3</td><td>-10.1</td><td>9.2</td><td>-11.2</td><td>10.1</td><td>-12.4</td><td>11.1</td><td>-13.6</td><td>12.1</td><td>-14.8</td><td>13.2</td><td>-16.2</td><td>15.5</td><td>-19</td><td>18</td><td>-22</td><td>20.7</td><td>-25.2</td><td>23.5</td><td>-28.7</td><td>26.5</td><td>-32.4</td><td>29.7</td><td>-36.4</td> </tr> |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |     |     | Hip Roof > 20 to 27 degrees | 1 | 10 | 6.5 | -11.7 | 7.3 | -13 | 8 | -14.5 | 8.9 | -15.9 | 9.7 | -17.5 | 10.6 | -19.1 | 11.6 | -20.8 | 13.6 | -24.4 | 15.8 | -28.3 | 18.1 | -32.5 | 20.6 | -37 | 23.3 | -41.8 | 26.1 | -46.8 | 1 | 20 | 5.6 | -10.4 | 6.3 | -11.6 | 6.9 | -12.8 | 7.7 | -14.1 | 8.4 | -15.5 | 9.2 | -16.9 | 10 | -18.4 | 11.7 | -21.6 | 13.6 | -25.1 | 15.6 | -28.8 | 17.8 | -32.8 | 20.1 | -37 | 22.5 | -41.5 | 1 | 50 | 4.4 | -8.6 | 5 | -9.6 | 5.5 | -10.6 | 6.1 | -11.7 | 6.6 | -12.8 | 7.3 | -14 | 7.9 | -15.3 | 9.3 | -17.9 | 10.8 | -20.8 | 12.4 | -23.9 | 14.1 | -27.2 | 15.9 | -30.7 | 17.8 | -34.4 | 1 | 100 | 3.6 | -7.3 | 4 | -8.1 | 4.4 | -9 | 4.8 | -9.9 | 5.3 | -10.8 | 5.8 | -11.9 | 6.3 | -12.9 | 7.4 | -15.1 | 8.6 | -17.6 | 9.9 | -20.2 | 11.2 | -22.9 | 12.7 | -25.9 | 14.2 | -29 | 2 | 10 | 6.5 | -16.2 | 7.3 | -18 | 8 | -19.9 | 8.9 | -22 | 9.7 | -24.1 | 10.6 | -26.4 | 11.6 | -28.7 | 13.6 | -33.7 | 15.8 | -39.1 | 18.1 | -44.9 | 20.6 | -51 | 23.3 | -57.6 | 26.1 | -64.6 | 2 | 20 | 5.6 | -13.9 | 6.3 | -15.5 | 6.9 | -17.2 | 7.7 | -18.9 | 8.4 | -20.8 | 9.2 | -22.7 | 10 | -24.7 | 11.7 | -29 | 13.6 | -33.7 | 15.6 | -38.7 | 17.8 | -44 | 20.1 | -49.7 | 22.5 | -55.7 | 2 | 50 | 4.4 | -11 | 5 | -12.2 | 5.5 | -13.5 | 6.1 | -14.9 | 6.6 | -16.4 | 7.3 | -17.9 | 7.9 | -19.5 | 9.3 | -22.9 | 10.8 | -26.6 | 12.4 | -30.5 | 14.1 | -34.7 | 15.9 | -39.2 | 17.8 | -43.9 | 2 | 100 | 3.6 | -8.7 | 4 | -9.7 | 4.4 | -10.8 | 4.8 | -11.9 | 5.3 | -13.1 | 5.8 | -14.3 | 6.3 | -15.5 | 7.4 | -18.2 | 8.6 | -21.2 | 9.9 | -24.3 | 11.2 | -27.6 | 12.7 | -31.2 | 14.2 | -35 | 3 | 10 | 6.5 | -16.2 | 7.3 | -18 | 8 | -19.9 | 8.9 | -22 | 9.7 | -24.1 | 10.6 | -26.4 | 11.6 | -28.7 | 13.6 | -33.7 | 15.8 | -39.1 | 18.1 | -44.9 | 20.6 | -51 | 23.3 | -57.6 | 26.1 | -64.6 | 3 | 20 | 5.6 | -13.9 | 6.3 | -15.5 | 6.9 | -17.2 | 7.7 | -18.9 | 8.4 | -20.8 | 9.2 | -22.7 | 10 | -24.7 | 11.7 | -29 | 13.6 | -33.7 | 15.6 | -38.7 | 17.8 | -44 | 20.1 | -49.7 | 22.5 | -55.7 | 3 | 50 | 4.4 | -11 | 5 | -12.2 | 5.5 | -13.5 | 6.1 | -14.9 | 6.6 | -16.4 | 7.3 | -17.9 | 7.9 | -19.5 | 9.3 | -22.9 | 10.8 | -26.6 | 12.4 | -30.5 | 14.1 | -34.7 | 15.9 | -39.2 | 17.8 | -43.9 | 3 | 100 | 3.6 | -8.7 | 4 | -9.7 | 4.4 | -10.8 | 4.8 | -11.9 | 5.3 | -13.1 | 5.8 | -14.3 | 6.3 | -15.5 | 7.4 | -18.2 | 8.6 | -21.2 | 9.9 | -24.3 | 11.2 | -27.6 | 12.7 | -31.2 | 14.2 | -35 | Hip Roof = 45 degrees | 1 | 10 | 6.5 | -12.4 | 7.3 | -13.9 | 8 | -15.4 | 8.9 | -16.9 | 9.7 | -18.6 | 10.6 | -20.3 | 11.6 | -22.1 | 13.6 | -26 | 15.8 | -30.1 | 18.1 | -34.6 | 20.6 | -39.3 | 23.3 | -44.4 | 26.1 | -49.8 | 1 | 20 | 5.6 | -10.7 | 6.3 | -11.9 | 6.9 | -13.2 | 7.7 | -14.5 | 8.4 | -15.9 | 9.2 | -17.4 | 10 | -19 | 11.7 | -22.2 | 13.6 | -25.8 | 15.6 | -29.6 | 17.8 | -33.7 | 20.1 | -38 | 22.5 | -42.7 | 1 | 50 | 4.4 | -8.3 | 5 | -9.3 | 5.5 | -10.3 | 6.1 | -11.3 | 6.6 | -12.4 | 7.3 | -13.6 | 7.9 | -14.8 | 9.3 | -17.3 | 10.8 | -20.1 | 12.4 | -23.1 | 14.1 | -26.2 | 15.9 | -29.6 | 17.8 | -33.2 | 1 | 100 | 3.6 | -6.5 | 4 | -7.3 | 4.4 | -8 | 4.8 | -8.9 | 5.3 | -9.7 | 5.8 | -10.6 | 6.3 | -11.6 | 7.4 | -13.6 | 8.6 | -15.8 | 9.9 | -18.1 | 11.2 | -20.6 | 12.7 | -23.3 | 14.2 | -26.1 | 2 | 10 | 6.5 | -14.7 | 7.3 | -16.3 | 8 | -18.1 | 8.9 | -20 | 9.7 | -21.9 | 10.6 | -24 | 11.6 | -26.1 | 13.6 | -30.6 | 15.8 | -35.5 | 18.1 | -40.8 | 20.6 | -46.4 | 23.3 | -52.3 | 26.1 | -58.7 | 2 | 20 | 5.6 | -12.4 | 6.3 | -13.9 | 6.9 | -15.4 | 7.7 | -16.9 | 8.4 | -18.6 | 9.2 | -20.3 | 10 | -22.1 | 11.7 | -26 | 13.6 | -30.1 | 15.6 | -34.6 | 17.8 | -39.3 | 20.1 | -44.4 | 22.5 | -49.8 | 2 | 50 | 4.4 | -9.5 | 5 | -10.6 | 5.5 | -11.7 | 6.1 | -12.9 | 6.6 | -14.2 | 7.3 | -15.5 | 7.9 | -16.9 | 9.3 | -19.8 | 10.8 | -23 | 12.4 | -26.4 | 14.1 | -30 | 15.9 | -33.9 | 17.8 | -38 | 2 | 100 | 3.6 | -7.3 | 4 | -8.1 | 4.4 | -9 | 4.8 | -9.9 | 5.3 | -10.8 | 5.8 | -11.9 | 6.3 | -12.9 | 7.4 | -15.1 | 8.6 | -17.6 | 9.9 | -20.2 | 11.2 | -22.9 | 12.7 | -25.9 | 14.2 | -29 | 3 | 10 | 6.5 | -19.1 | 7.3 | -21.3 | 8 | -23.6 | 8.9 | -26 | 9.7 | -28.6 | 10.6 | -31.2 | 11.6 | -34 | 13.6 | -39.9 | 15.8 | -46.3 | 18.1 | -53.1 | 20.6 | -60.4 | 23.3 | -68.2 | 26.1 | -76.5 | 3 | 20 | 5.6 | -16 | 6.3 | -17.8 | 6.9 | -19.7 | 7.7 | -21.8 | 8.4 | -23.9 | 9.2 | -26.1 | 10 | -28.4 | 11.7 | -33.4 | 13.6 | -38.7 | 15.6 | -44.4 | 17.8 | -50.5 | 20.1 | -57.1 | 22.5 | -64 | 3 | 50 | 4.4 | -11.9 | 5 | -13.2 | 5.5 | -14.6 | 6.1 | -16.1 | 6.6 | -17.7 | 7.3 | -19.4 | 7.9 | -21.1 | 9.3 | -24.8 | 10.8 | -28.7 | 12.4 | -33 | 14.1 | -37.5 | 15.9 | -42.3 | 17.8 | -47.5 | 3 | 100 | 3.6 | -8.7 | 4 | -9.7 | 4.4 | -10.8 | 4.8 | -11.9 | 5.3 | -13.1 | 5.8 | -14.3 | 6.3 | -15.5 | 7.4 | -18.2 | 8.6 | -21.2 | 9.9 | -24.3 | 11.2 | -27.6 | 12.7 | -31.2 | 14.2 | -35 | Walls | 4 | 10 | 8.7 | -9.5 | 9.7 | -10.6 | 10.8 | -11.7 | 11.9 | -12.9 | 13.1 | -14.2 | 14.3 | -15.5 | 15.5 | -16.9 | 18.2 | -19.8 | 21.2 | -22.9 | 24.3 | -26.3 | 27.6 | -30 | 31.2 | -33.8 | 35 | -37.9 | 4 | 20 | 8.3 | -9.1 | 9.3 | -10.1 | 10.3 | -11.2 | 11.4 | -12.4 | 12.5 | -13.6 | 13.6 | -14.8 | 14.8 | -16.2 | 17.4 | -19 | 20.2 | -22 | 23.2 | -25.2 | 26.4 | -28.7 | 29.8 | -32.4 | 33.4 | -36.4 | 4 | 50 | 7.8 | -8.6 | 8.7 | -9.5 | 9.7 | -10.6 | 10.7 | -11.7 | 11.7 | -12.8 | 12.8 | -14 | 13.9 | -15.2 | 16.3 | -17.9 | 18.9 | -20.7 | 21.7 | -23.8 | 24.7 | -27.1 | 27.9 | -30.6 | 31.3 | -34.3 | 4 | 100 | 7.4 | -8.2 | 8.3 | -9.1 | 9.2 | -10.1 | 10.1 | -11.1 | 11.1 | -12.2 | 12.1 | -13.3 | 13.2 | -14.5 | 15.5 | -17.1 | 18 | -19.8 | 20.7 | -22.7 | 23.5 | -25.8 | 26.5 | -29.2 | 29.7 | -32.7 | 5 | 10 | 8.7 | -11.7 | 9.7 | -13 | 10.8 | -14.5 | 11.9 | -15.9 | 13.1 | -17.5 | 14.3 | -19.1 | 15.5 | -20.8 | 18.2 | -24.4 | 21.2 | -28.3 | 24.3 | -32.5 | 27.6 | -37 | 31.2 | -41.8 | 35 | -46.8 | 5 | 20 | 8.3 | -10.9 | 9.3 | -12.2 | 10.3 | -13.5 | 11.4 | -14.9 | 12.5 | -16.3 | 13.6 | -17.8 | 14.8 | -19.4 | 17.4 | -22.8 | 20.2 | -26.4 | 23.2 | -30.3 | 26.4 | -34.5 | 29.8 | -39 | 33.4 | -43.7 | 5 | 50 | 7.8 | -9.9 | 8.7 | -11 | 9.7 | -12.2 | 10.7 | -13.4 | 11.7 | -14.8 | 12.8 | -16.1 | 13.9 | -17.6 | 16.3 | -20.6 | 18.9 | -23.9 | 21.7 | -27.4 | 24.7 | -31.2 | 27.9 | -35.2 | 31.3 | -39.5 | 5 | 100 | 7.4 | -9.1 | 8.3 | -10.1 | 9.2 | -11.2 | 10.1 | -12.4 | 11.1 | -13.6 | 12.1 | -14.8 | 13.2 | -16.2 | 15.5 | -19 | 18 | -22 | 20.7 | -25.2 | 23.5 | -28.7 | 26.5 |
| Hip Roof > 20 to 27 degrees | 1    | 10                  | 6.5  | -11.7 | 7.3 | -13   | 8    | -14.5 | 8.9  | -15.9 | 9.7  | -17.5 | 10.6 | -19.1 | 11.6 | -20.8 | 13.6 | -24.4 | 15.8 | -28.3 | 18.1 | -32.5 | 20.6 | -37   | 23.3 | -41.8 | 26.1 | -46.8 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 1    | 20                  | 5.6  | -10.4 | 6.3 | -11.6 | 6.9  | -12.8 | 7.7  | -14.1 | 8.4  | -15.5 | 9.2  | -16.9 | 10   | -18.4 | 11.7 | -21.6 | 13.6 | -25.1 | 15.6 | -28.8 | 17.8 | -32.8 | 20.1 | -37   | 22.5 | -41.5 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 1    | 50                  | 4.4  | -8.6  | 5   | -9.6  | 5.5  | -10.6 | 6.1  | -11.7 | 6.6  | -12.8 | 7.3  | -14   | 7.9  | -15.3 | 9.3  | -17.9 | 10.8 | -20.8 | 12.4 | -23.9 | 14.1 | -27.2 | 15.9 | -30.7 | 17.8 | -34.4 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 1    | 100                 | 3.6  | -7.3  | 4   | -8.1  | 4.4  | -9    | 4.8  | -9.9  | 5.3  | -10.8 | 5.8  | -11.9 | 6.3  | -12.9 | 7.4  | -15.1 | 8.6  | -17.6 | 9.9  | -20.2 | 11.2 | -22.9 | 12.7 | -25.9 | 14.2 | -29   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 10                  | 6.5  | -16.2 | 7.3 | -18   | 8    | -19.9 | 8.9  | -22   | 9.7  | -24.1 | 10.6 | -26.4 | 11.6 | -28.7 | 13.6 | -33.7 | 15.8 | -39.1 | 18.1 | -44.9 | 20.6 | -51   | 23.3 | -57.6 | 26.1 | -64.6 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 20                  | 5.6  | -13.9 | 6.3 | -15.5 | 6.9  | -17.2 | 7.7  | -18.9 | 8.4  | -20.8 | 9.2  | -22.7 | 10   | -24.7 | 11.7 | -29   | 13.6 | -33.7 | 15.6 | -38.7 | 17.8 | -44   | 20.1 | -49.7 | 22.5 | -55.7 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 50                  | 4.4  | -11   | 5   | -12.2 | 5.5  | -13.5 | 6.1  | -14.9 | 6.6  | -16.4 | 7.3  | -17.9 | 7.9  | -19.5 | 9.3  | -22.9 | 10.8 | -26.6 | 12.4 | -30.5 | 14.1 | -34.7 | 15.9 | -39.2 | 17.8 | -43.9 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 100                 | 3.6  | -8.7  | 4   | -9.7  | 4.4  | -10.8 | 4.8  | -11.9 | 5.3  | -13.1 | 5.8  | -14.3 | 6.3  | -15.5 | 7.4  | -18.2 | 8.6  | -21.2 | 9.9  | -24.3 | 11.2 | -27.6 | 12.7 | -31.2 | 14.2 | -35   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 10                  | 6.5  | -16.2 | 7.3 | -18   | 8    | -19.9 | 8.9  | -22   | 9.7  | -24.1 | 10.6 | -26.4 | 11.6 | -28.7 | 13.6 | -33.7 | 15.8 | -39.1 | 18.1 | -44.9 | 20.6 | -51   | 23.3 | -57.6 | 26.1 | -64.6 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 20                  | 5.6  | -13.9 | 6.3 | -15.5 | 6.9  | -17.2 | 7.7  | -18.9 | 8.4  | -20.8 | 9.2  | -22.7 | 10   | -24.7 | 11.7 | -29   | 13.6 | -33.7 | 15.6 | -38.7 | 17.8 | -44   | 20.1 | -49.7 | 22.5 | -55.7 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 50                  | 4.4  | -11   | 5   | -12.2 | 5.5  | -13.5 | 6.1  | -14.9 | 6.6  | -16.4 | 7.3  | -17.9 | 7.9  | -19.5 | 9.3  | -22.9 | 10.8 | -26.6 | 12.4 | -30.5 | 14.1 | -34.7 | 15.9 | -39.2 | 17.8 | -43.9 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 100                 | 3.6  | -8.7  | 4   | -9.7  | 4.4  | -10.8 | 4.8  | -11.9 | 5.3  | -13.1 | 5.8  | -14.3 | 6.3  | -15.5 | 7.4  | -18.2 | 8.6  | -21.2 | 9.9  | -24.3 | 11.2 | -27.6 | 12.7 | -31.2 | 14.2 | -35   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
| Hip Roof = 45 degrees       | 1    | 10                  | 6.5  | -12.4 | 7.3 | -13.9 | 8    | -15.4 | 8.9  | -16.9 | 9.7  | -18.6 | 10.6 | -20.3 | 11.6 | -22.1 | 13.6 | -26   | 15.8 | -30.1 | 18.1 | -34.6 | 20.6 | -39.3 | 23.3 | -44.4 | 26.1 | -49.8 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 1    | 20                  | 5.6  | -10.7 | 6.3 | -11.9 | 6.9  | -13.2 | 7.7  | -14.5 | 8.4  | -15.9 | 9.2  | -17.4 | 10   | -19   | 11.7 | -22.2 | 13.6 | -25.8 | 15.6 | -29.6 | 17.8 | -33.7 | 20.1 | -38   | 22.5 | -42.7 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 1    | 50                  | 4.4  | -8.3  | 5   | -9.3  | 5.5  | -10.3 | 6.1  | -11.3 | 6.6  | -12.4 | 7.3  | -13.6 | 7.9  | -14.8 | 9.3  | -17.3 | 10.8 | -20.1 | 12.4 | -23.1 | 14.1 | -26.2 | 15.9 | -29.6 | 17.8 | -33.2 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 1    | 100                 | 3.6  | -6.5  | 4   | -7.3  | 4.4  | -8    | 4.8  | -8.9  | 5.3  | -9.7  | 5.8  | -10.6 | 6.3  | -11.6 | 7.4  | -13.6 | 8.6  | -15.8 | 9.9  | -18.1 | 11.2 | -20.6 | 12.7 | -23.3 | 14.2 | -26.1 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 10                  | 6.5  | -14.7 | 7.3 | -16.3 | 8    | -18.1 | 8.9  | -20   | 9.7  | -21.9 | 10.6 | -24   | 11.6 | -26.1 | 13.6 | -30.6 | 15.8 | -35.5 | 18.1 | -40.8 | 20.6 | -46.4 | 23.3 | -52.3 | 26.1 | -58.7 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 20                  | 5.6  | -12.4 | 6.3 | -13.9 | 6.9  | -15.4 | 7.7  | -16.9 | 8.4  | -18.6 | 9.2  | -20.3 | 10   | -22.1 | 11.7 | -26   | 13.6 | -30.1 | 15.6 | -34.6 | 17.8 | -39.3 | 20.1 | -44.4 | 22.5 | -49.8 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 50                  | 4.4  | -9.5  | 5   | -10.6 | 5.5  | -11.7 | 6.1  | -12.9 | 6.6  | -14.2 | 7.3  | -15.5 | 7.9  | -16.9 | 9.3  | -19.8 | 10.8 | -23   | 12.4 | -26.4 | 14.1 | -30   | 15.9 | -33.9 | 17.8 | -38   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 2    | 100                 | 3.6  | -7.3  | 4   | -8.1  | 4.4  | -9    | 4.8  | -9.9  | 5.3  | -10.8 | 5.8  | -11.9 | 6.3  | -12.9 | 7.4  | -15.1 | 8.6  | -17.6 | 9.9  | -20.2 | 11.2 | -22.9 | 12.7 | -25.9 | 14.2 | -29   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 10                  | 6.5  | -19.1 | 7.3 | -21.3 | 8    | -23.6 | 8.9  | -26   | 9.7  | -28.6 | 10.6 | -31.2 | 11.6 | -34   | 13.6 | -39.9 | 15.8 | -46.3 | 18.1 | -53.1 | 20.6 | -60.4 | 23.3 | -68.2 | 26.1 | -76.5 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 20                  | 5.6  | -16   | 6.3 | -17.8 | 6.9  | -19.7 | 7.7  | -21.8 | 8.4  | -23.9 | 9.2  | -26.1 | 10   | -28.4 | 11.7 | -33.4 | 13.6 | -38.7 | 15.6 | -44.4 | 17.8 | -50.5 | 20.1 | -57.1 | 22.5 | -64   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 50                  | 4.4  | -11.9 | 5   | -13.2 | 5.5  | -14.6 | 6.1  | -16.1 | 6.6  | -17.7 | 7.3  | -19.4 | 7.9  | -21.1 | 9.3  | -24.8 | 10.8 | -28.7 | 12.4 | -33   | 14.1 | -37.5 | 15.9 | -42.3 | 17.8 | -47.5 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 3    | 100                 | 3.6  | -8.7  | 4   | -9.7  | 4.4  | -10.8 | 4.8  | -11.9 | 5.3  | -13.1 | 5.8  | -14.3 | 6.3  | -15.5 | 7.4  | -18.2 | 8.6  | -21.2 | 9.9  | -24.3 | 11.2 | -27.6 | 12.7 | -31.2 | 14.2 | -35   |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
| Walls                       | 4    | 10                  | 8.7  | -9.5  | 9.7 | -10.6 | 10.8 | -11.7 | 11.9 | -12.9 | 13.1 | -14.2 | 14.3 | -15.5 | 15.5 | -16.9 | 18.2 | -19.8 | 21.2 | -22.9 | 24.3 | -26.3 | 27.6 | -30   | 31.2 | -33.8 | 35   | -37.9 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 4    | 20                  | 8.3  | -9.1  | 9.3 | -10.1 | 10.3 | -11.2 | 11.4 | -12.4 | 12.5 | -13.6 | 13.6 | -14.8 | 14.8 | -16.2 | 17.4 | -19   | 20.2 | -22   | 23.2 | -25.2 | 26.4 | -28.7 | 29.8 | -32.4 | 33.4 | -36.4 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 4    | 50                  | 7.8  | -8.6  | 8.7 | -9.5  | 9.7  | -10.6 | 10.7 | -11.7 | 11.7 | -12.8 | 12.8 | -14   | 13.9 | -15.2 | 16.3 | -17.9 | 18.9 | -20.7 | 21.7 | -23.8 | 24.7 | -27.1 | 27.9 | -30.6 | 31.3 | -34.3 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 4    | 100                 | 7.4  | -8.2  | 8.3 | -9.1  | 9.2  | -10.1 | 10.1 | -11.1 | 11.1 | -12.2 | 12.1 | -13.3 | 13.2 | -14.5 | 15.5 | -17.1 | 18   | -19.8 | 20.7 | -22.7 | 23.5 | -25.8 | 26.5 | -29.2 | 29.7 | -32.7 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 5    | 10                  | 8.7  | -11.7 | 9.7 | -13   | 10.8 | -14.5 | 11.9 | -15.9 | 13.1 | -17.5 | 14.3 | -19.1 | 15.5 | -20.8 | 18.2 | -24.4 | 21.2 | -28.3 | 24.3 | -32.5 | 27.6 | -37   | 31.2 | -41.8 | 35   | -46.8 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 5    | 20                  | 8.3  | -10.9 | 9.3 | -12.2 | 10.3 | -13.5 | 11.4 | -14.9 | 12.5 | -16.3 | 13.6 | -17.8 | 14.8 | -19.4 | 17.4 | -22.8 | 20.2 | -26.4 | 23.2 | -30.3 | 26.4 | -34.5 | 29.8 | -39   | 33.4 | -43.7 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 5    | 50                  | 7.8  | -9.9  | 8.7 | -11   | 9.7  | -12.2 | 10.7 | -13.4 | 11.7 | -14.8 | 12.8 | -16.1 | 13.9 | -17.6 | 16.3 | -20.6 | 18.9 | -23.9 | 21.7 | -27.4 | 24.7 | -31.2 | 27.9 | -35.2 | 31.3 | -39.5 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |                       |   |    |     |       |     |       |   |       |     |       |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |     |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |
|                             | 5    | 100                 | 7.4  | -9.1  | 8.3 | -10.1 | 9.2  | -11.2 | 10.1 | -12.4 | 11.1 | -13.6 | 12.1 | -14.8 | 13.2 | -16.2 | 15.5 | -19   | 18   | -22   | 20.7 | -25.2 | 23.5 | -28.7 | 26.5 | -32.4 | 29.7 | -36.4 |     |     |                             |   |    |     |       |     |     |   |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |   |      |     |       |     |       |     |       |     |     |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |     |      |       |      |       |   |    |     |     |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |     |   |       |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   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   |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |   |      |     |    |     |      |     |      |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |       |   |    |     |       |     |       |   |       |     |     |     |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |       |     |       |     |       |     |       |     |       |     |       |    |       |      |     |      |       |      |       |      |       |      |       |      |       |   |    |     |      |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |     |      |       |      |     |      |       |      |     |   |     |     |      |   |      |     |    |     |      |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |   |    |     |       |     |       |   |       |     |     |     |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |   |    |     |     |     |       |     |       |     |       |     |       |     |       |    |       |      |       |      |       |      |       |      |       |      |       |      |     |   |    |     |       |   |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |     |      |       |      |       |      |       |   |     |     |      |   |      |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |      |       |      |       |      |     |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |      |     |       |      |       |      |       |      |       |      |       |      |       |      |     |      |     |      |       |      |       |      |       |      |       |   |    |     |      |     |      |     |       |      |       |      |       |      |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |      |     |       |      |       |      |       |      |       |      |       |      |       |    |       |      |       |      |       |      |       |      |       |   |    |     |       |     |     |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |    |       |   |    |     |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |      |       |   |    |     |      |     |     |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |   |     |     |      |     |       |     |       |      |       |      |       |      |       |      |       |      |     |    |     |      |       |      |       |      |

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m<sup>2</sup>, 1 mile per hour = 0.447 m/s, 1 pound per square foot = 0.0479 kPa.

a.The effective wind area shall be equal to the span length multiplied by an effective width. This width shall be permitted to be not less than one-third the span length. For cladding fasteners, the effective wind area shall not be greater than the area that is tributary to an individual fastener.

b.For effective wind areas between those given, the load shall be interpolated or the load associated with the lower effective wind area shall be used.

c.Table values shall be adjusted for height and exposure by multiplying by the adjustment coefficient in Table R301.2(3).

d.See Figure R301.2(7) for location of zones.

e.Plus and minus signs signify pressures acting toward and away from the building surfaces.

f.Positive and negative design wind pressures shall not be less than 10 psf.

g.Roof overhang loads shall be determined by summing the applicable roof zone pressure with the adjacent wall zone pressure.

h.Table values have been multiplied by 0.6 to convert component and cladding pressures to ASD.

**TABLE R301.2(3)**  
**HEIGHT AND EXPOSURE**

| MEAN ROOF HEIGHT(ft) | EXPOSURE CATEGORY |      |      |
|----------------------|-------------------|------|------|
|                      | B                 | C    | D    |
| 15                   | 0.82              | 1.21 | 1.47 |
| 20                   | 0.89              | 1.29 | 1.55 |
| 25                   | 0.94              | 1.35 | 1.61 |
| 30                   | 1                 | 1.4  | 1.66 |
| 35                   | 1.05              | 1.45 | 1.7  |
| 40                   | 1.06              | 1.49 | 1.74 |
| 45                   | 1.1               | 1.53 | 1.78 |
| 50                   | 1.13              | 1.56 | 1.81 |
| 55                   | 1.16              | 1.59 | 1.84 |
| 60                   | 1.19              | 1.62 | 1.87 |