



770 USt



541 ft



335 ft +  
315 ft

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# Blending worlds, merging types

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**LR 1700-1.0**

Crawler crane  
Grue sur chenilles

**LIEBHERR**

Mobile and crawler cranes



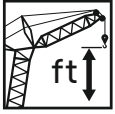
# Technical Data

## Caractéristiques technique

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|  |       |
|--|-------|
| <b>Crawler crane</b>                         |       |
| Grue sur chenilles .....                     | 3     |
| <b>Technical description</b>                 |       |
| Description techniques .....                 | 4-5   |
| <b>Dimensions</b>                            |       |
| Encombrement .....                           | 6-10  |
| <b>M-Wagon®</b> .....                        | 11    |
| <b>Crane data</b>                            |       |
| Dates de la grue .....                       | 12    |
| <b>Transportation plan</b>                   |       |
| Plan de transport .....                      | 13-14 |
| <b>Overview windsystems</b>                  |       |
| Vue d'ensemble des systèmes de treuils ..... | 15    |
| <b>Boom/jib combinations</b>                 |       |
| Configurations de flèche .....               | 16-17 |
| <b>HSL3</b> .....                            | 18-19 |
| <b>HSL3DB/HSL3DBV</b> .....                  | 20-21 |
| <b>HSL9DB/HSL9DBV</b> .....                  | 22-23 |
| <b>HS</b> .....                              | 24-25 |
| <b>HSDB</b> .....                            | 26-27 |
| <b>S2W</b> .....                             | 28-33 |
| <b>HSDWB/HSDWBV</b> .....                    | 34-47 |
| <b>HSL3AF</b> .....                          | 48-53 |
| <b>HSL3ADFB/ HSL3ADFBV</b> .....             | 54-58 |
| <b>HSL6ADFB/ HSL6ADFBV</b> .....             | 59-61 |
| <b>HSL9ADFB/ HSL9ADFBV</b> .....             | 62-64 |
| <b>Description of symbols</b>                |       |
| Explication des symboles .....               | 65    |
| <b>Remarks</b>                               |       |
| Remarques .....                              | 66    |

# LR 1700-1.0



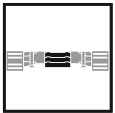
643 ft



525 ft



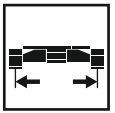
507,100 lb



198,400 lb



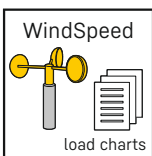
826,700 lb



28 ft 7 in



400 kW (544 h.p.)

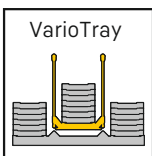


WindSpeed

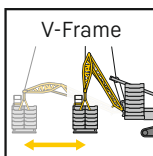
load charts



M-Wagon®



VarioTray



V-Frame



# Equipment

|                  |  |
|------------------|--|
| Max. capacity    | 1323 kip at 33 ft radius<br>HSDBV – System with HS 138 ft.                                   |
| Max. load moment | 71,175,000 lb-ft – 967,8 kip at 72 ft radius.<br>HSDBW – System with HS 138 ft and D 118 ft. |

770 Ust with additional equipment

## Crawler travel gear

|                 |   |
|-----------------|---|
| Crawler chassis | Liebherr crawler chassis consisting of one center section and two crawler carriers with crawler plates 5 ft (optional 6 ft 7 in) and quadruple drive. |
| Central ballast | 2 brackets 11 kip each. Total central ballast 198,4 kip. 8 ballast plates 22 kip each (option).   |



## Crane superstructure

|                                    |  |
|------------------------------------|--|
| Superstructure frame               | Liebherr-slewing platform frame, consisting of slewing platform with winch IV and removable SA-frame, connected to the center section by a roller slewing bearing.   |
| Crane engine with sound insulation | 6-cylinder diesel engine, make Liebherr, water cooled, rated power 400 kW (544 h.p.), max torque 1856 lb-ft. Fuel tank approx. 317 gallons, exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96.                                      |
| Winch I                            | Standard hoist winch, hydraulically driven with variable axial piston motor with integrated planetary gear.  |
| Winch IV                           | Boom hoist.  |
| Reeving winch                      | Auxiliary winch to reeve the hoist ropes.  |
| Slewing gear                       | 2 slewing gears with integrated planetary gear hydraulically driven by axial piston variable motor.  |
| Crane cabin                        | Air conditioned crane cabin tiltable to the rear with safety glazing, heat insulating glass, roof window with bullet proof glass, standardized control units ergonomically positioned. Additional thermostatically controlled hot water heating. |
| Crane control                      | Setting of configuration data by convenient interactive functions. All crane movements are initiated by means of three 4-way joystick hand levers and two 2-way hand/foot levers. All working movements are independently controllable.          |
| Safety devices                     | Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light.   |
| Camera observation                 | 2 color monitors, cameras for all winches, slewing platform, right-hand side and rear.   |
| Counterweight                      | 2 brackets 33 kip each. Total counterweight at superstructure 507 kip. 20 ballast plates 22 kip each.  |



## Boom system

|                                |   |
|--------------------------------|---|
| Main boom HS                   | System 3230/2825 with head section for max. 1323 kip load capacity. Boom length HS 98 ft – 316 ft. Boom length HSDB 138 ft – 354 ft with derrick system.  |
| Main boom (H) SL               | System 3230/2825/2420 with head section for max. 1323 kip load capacity. Boom length SL 177 ft – 364 ft, HSLDB 256 ft – 532 ft, HSL3DB 256 ft – 482 ft, HSL6DB 335 ft – 541 ft, HSL9DB 374 ft – 541 ft. |
| Lattice type luffing fly jib W | System 2420 with head section for max. 1323 kip load capacity. Luffing jib lengths W 39 ft 4 in – 315 ft. Winch V is needed for all luffing jib operations.   |
| Lattice fly jib F              | System 2116 with head section for max. 375 kip load capacity. Boom length F 39 ft – 128 ft.   |
| Derrick system D               | System 2419 including guy rods. Winch III is needed for all derrick operations. Length 118 ft / 138 ft.   |
| Counterweight frame B          | For max. derrick counterweight of 826,7 kip. D 118 ft: for infinitely variable radius from 34 ft 5 in – 59 ft. D 138 ft: for infinitely variable radius from 39 ft 4 in – 52 ft 6 in.                   |
| V-Frame                        | For max. derrick counterweight of 826,7 kip, for infinitely variable radius from 42 ft 8 in – 69 ft.  |
| Counterweight trailer BW       | For max. derrick counterweight of 826,7 kip, for infinitely variable radius from 42 ft 8 in – 69 ft.  |
| Derrick-Counterweight          | Plates for a total of 826,7 kip.  |
| Winch II                       | Second hoist winch.   |
| Winch III                      | Reeving main boom / Derrick operation.  |
| Winch V                        | Luffing for W-jib configuration.  |
| Winch VI                       | Auxiliary hoist gear.   |
| Whip line                      | 79,4 kip for attaching to the SW head.  |

## Additional equipment

|                             |  |
|-----------------------------|--|
| Mechanical outriggers       | For erection of long boom combinations without derrick-counterweight.  |
| Hydraulic assembly jacks    | Lifting of the basic machine for assembly/disassembly.   |
| Hydraulic assembly cylinder | For assembly/disassembly of the crawler carrier by the crane itself.   |
| Pin pulling device          | Including mobile hydraulic aggregate. For assembly/disassembly of the pins at S and L intermediate sections. |

Other items of equipment available on request.

# Équipement

|                       |   |
|-----------------------|---|
| Capacité max.         | 1323 kip pour une portée de 33 ft.<br>Système HSDBV avec HS 138 ft.                                 |
| Couple de charge max. | 71,175,000 lb-ft – 967,8 kip pour une portée de 72 ft.<br>Système HSDBW avec HS 138 ft et D 118 ft. |

770 UST avec équipement additionnel

## Train de chenilles

|                          |   |
|--------------------------|---|
| Mécanisme de translation | Le train de chenilles Liebherr est composé d'une partie centrale et de deux longerons avec patins de chenilles 5 ft (en option 6 ft 7 in) et un entraînement à 4 positions. |
| Contrepoids central      | 2 consoles de 11 kip. Contrepoids central total 198,4 kip. 8 plaques de lest de 22 kip (option).  |



## Partie tournante

|   |  |
|---|--|
| Cadre de la partie tournante              | Le cadre de la partie tournante Liebherr est composé de la partie tournante avec treuil IV et du chevalet démontable SA, il est relié à la partie centrale du train de roulement par une couronne d'orientation à rouleaux.  |
| Moteur de la grue avec isolation phonique | Diesel Liebherr 6 cylindres, refroidissement par eau, puissance 400 kW (544 ch), couple de rotation max. 1856 lb-ft. Réservoir de carburant: env. 317 gallons. Emissions des gaz d'échappement conformes au directive (EU) 2016/1628, EPA/CARB ou ECE-R.96.  |
| Treuil I                                  | Treuil de levage standard, commande hydraulique avec moteurs à cylindrée variable et pistons axiaux, réducteur planétaire intégré.   |
| Treuil IV                                 | Mécanisme de relevage.   |
| Treuil de mouflage                        | Treuil auxiliaire pour le mouflage des câbles de levage.   |
| Mécanisme d'orientation                   | 2 mécanismes d'orientation avec réducteur planétaire intégré, entraînés par un moteur à cylindrée variable et pistons axiaux.  |
| Cabine du grutier                         | La cabine du grutier est climatisée, inclinable vers l'arrière, possède un vitrage de sécurité, un vitrage isolant thermiquement, une fenêtre de toit en verre blindé, des unités de commande normalisées disposées de façon ergonomique. Chauffage d'appoint et chauffage de l'eau régulé thermostatiquement. |
| Commande de la grue                       | Entrée des données de configuration par des fonctions interactives simples. Tous les mouvements de la grue sont commandés par deux manipulateurs à 4 voies et deux pédale/levier à 2 voies. Tous les mouvements de travail peuvent être commandés indépendamment.  |
| Dispositifs de sécurité                   | Interrupteur de fin de course. Clapets de sécurité contre les ruptures de tuyaux et de flexibles. Coupure de fin de course du tambour avec 3 enroulements de sécurité. Anémomètre de sécurité. Inclinomètre électronique. Balise aérienne.   |
| Surveillance vidéo                        | 2 écrans couleur, caméras pour tous les treuils, partie tournante côté droit et arrière.   |
| Contrepoids                               | 2 consoles de 33 kip chacune. Contrepoids total 507 kip. 20 plaques de lest à 22 kip (option).   |



## Système de flèche

|                                       |  |
|---------------------------------------|--|
| Flèche principale HS                  | Système 3230/2825 avec élément de tête pour une capacité max. de 1323 kip. Longueur de la flèche HS 98 ft – 315 ft. Longueur de la flèche HSDB 138 ft – 354 ft avec système derrick.                                     |
| Flèche principale (H)SL               | Système 3230/2825/2420 avec élément de tête pour une capacité max. de 1323 kip. Longueur de la flèche SL 177 ft – 364 ft, HSLDB 256 ft – 532 ft, HSL3DB 256 ft – 482 ft, HSL6DB 335 ft – 541 ft, HSL9DB 374 ft – 541 ft. |
| Fléchette treillis à volée variable W | Système 2420 avec élément de tête pour une capacité max. de 1323 kip. Longueurs de flèche treillis 39 ft 4 in – 315 ft. Le treuil V est nécessaire pour fonctionnement fléchette treillis.                               |
| Fléchette treillis fixe F             | Système 2116 avec élément de tête pour une capacité max. de 375 kip. Longueur de la flèche F 39 ft – 128 ft.   |
| Système derrick D                     | Le système 2419 comprend des tirants. Le treuil III est nécessaire au mode derrick. Longueur 118 ft / 138 ft.  |
| PaLETTE de lest B                     | Pour un contrepoids derrick max. de 826,7 kip. D 118 ft: pour des rayons variables progressivement de 34 ft 5 in – 59 ft. D 138 ft: pour des rayons variables progressivement de 39 ft 4 in – 52 ft 6 in.                |
| V-Frame                               | Pour un contrepoids derrick max. de 826,7 kip et rayons variables progressivement de 42 ft 8 in – 69 ft.   |
| Remorque à contrepoids BW             | Pour un contrepoids derrick max. de 826,7 kip et rayons variables progressivement de 42 ft 8 in – 69 ft.   |
| Contrepoids derrick                   | Plaques de poids total de 826,7 kip.   |
| Treuil II                             | 2. treuil de levage.   |
| Treuil III                            | Réglage flèche principale/mode derrick.  |
| Treuil V                              | Réglage fléchette treillis à volée variable.   |
| Treuil VI                             | Treuil de levage auxiliaire.   |
| Poulies en extrémité de mât           | 79,4 kip pour le montage sur la tête SW.   |

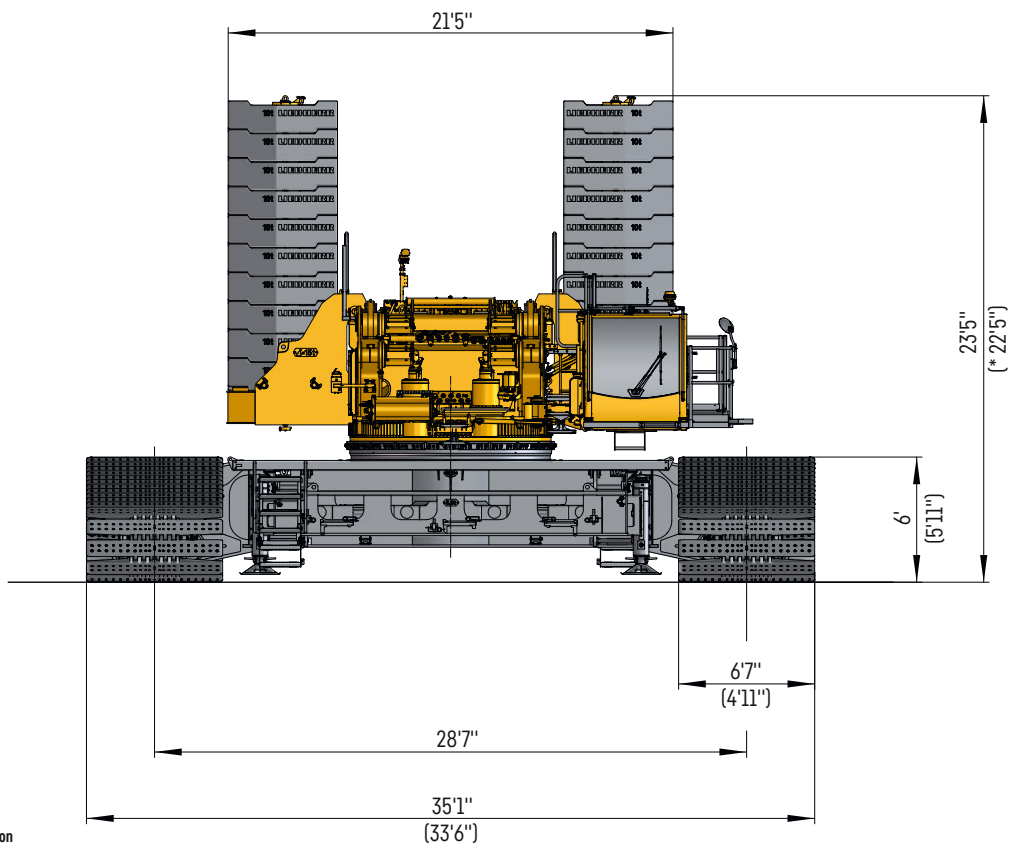
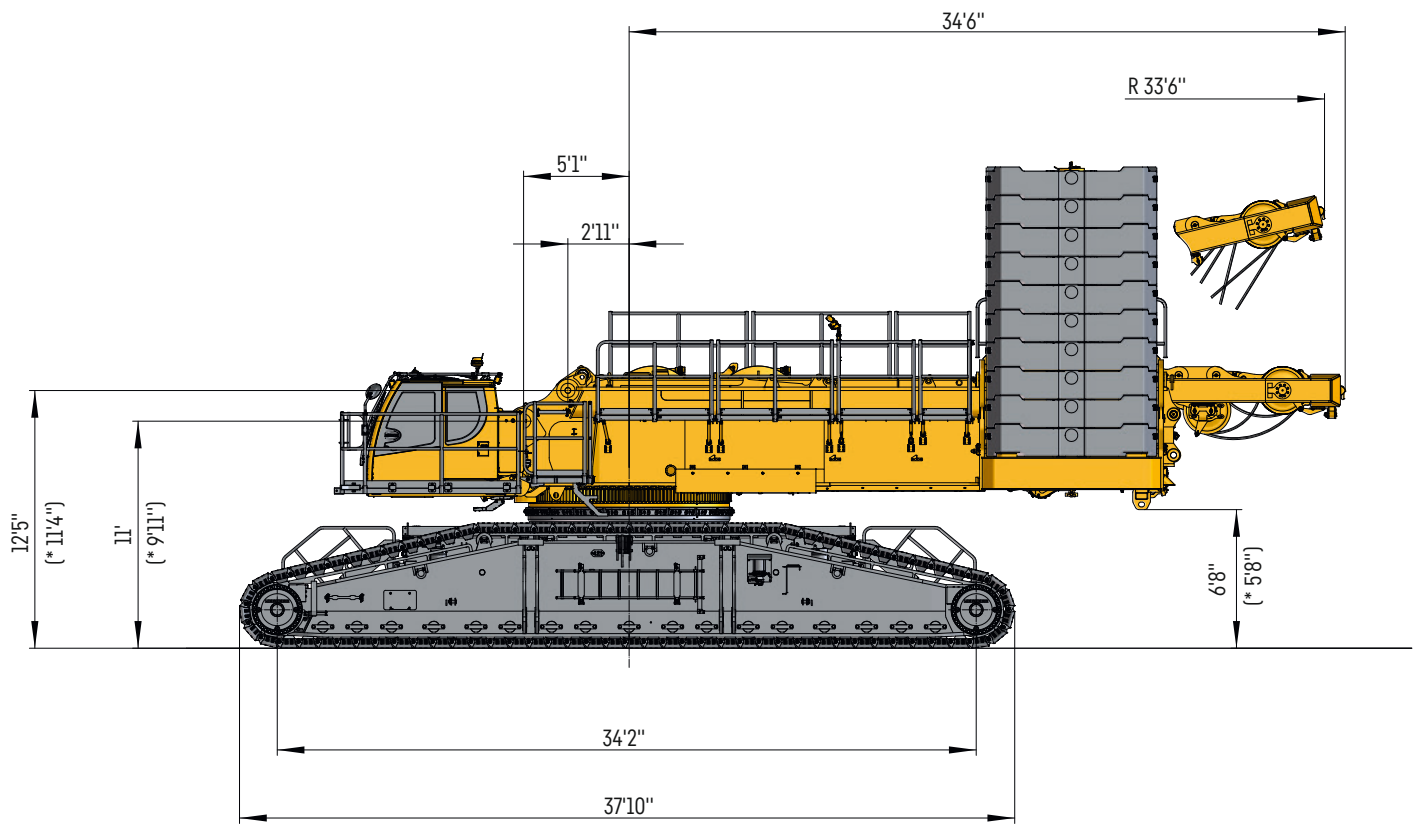
## Équipement additionnel

|  |  |
|--|--|
| Stab. additionnel mécanique            | Il sert au relevage de longues combinaisons de flèche sans contrepoids derrick.  |
| Stabilisateurs hydrauliques de montage | Levage de l'engin de base pour le montage/démontage.   |
| Vérin hydraulique de montage           | Pour le montage autonome/démontage du train de chenilles.  |
| Dispositif d'extraction des axes       | Il est constitué du composant hydraulique mobile. Il sert à l'insertion et l'extraction d'axes des éléments intermédiaires S et L. |

D'autres équipements additionnels sont disponibles sur demande.

# Dimensions

## Encombrement

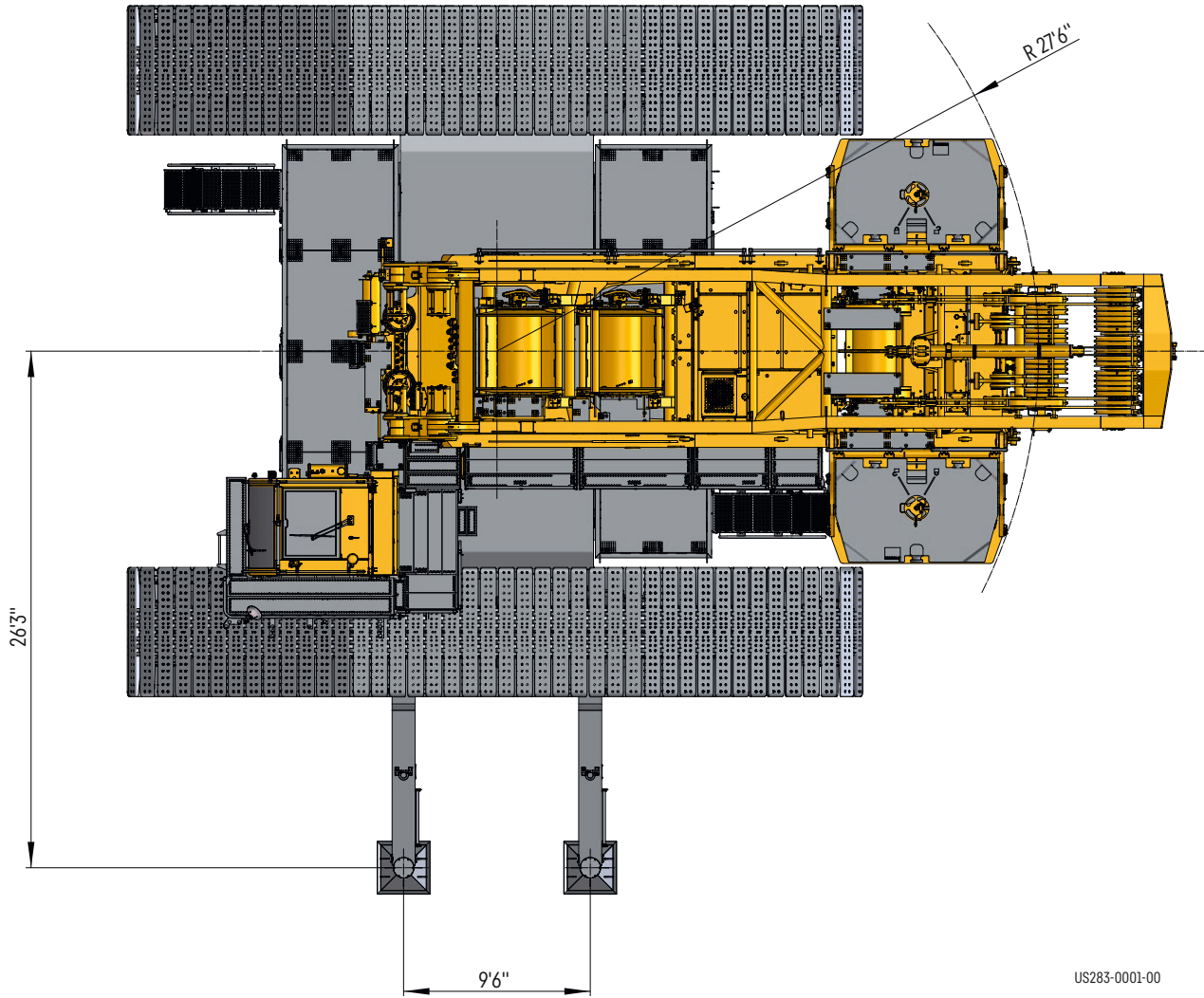


\*without - sans Quick Connection

US283-0001-00

# Dimensions

## Encombrement

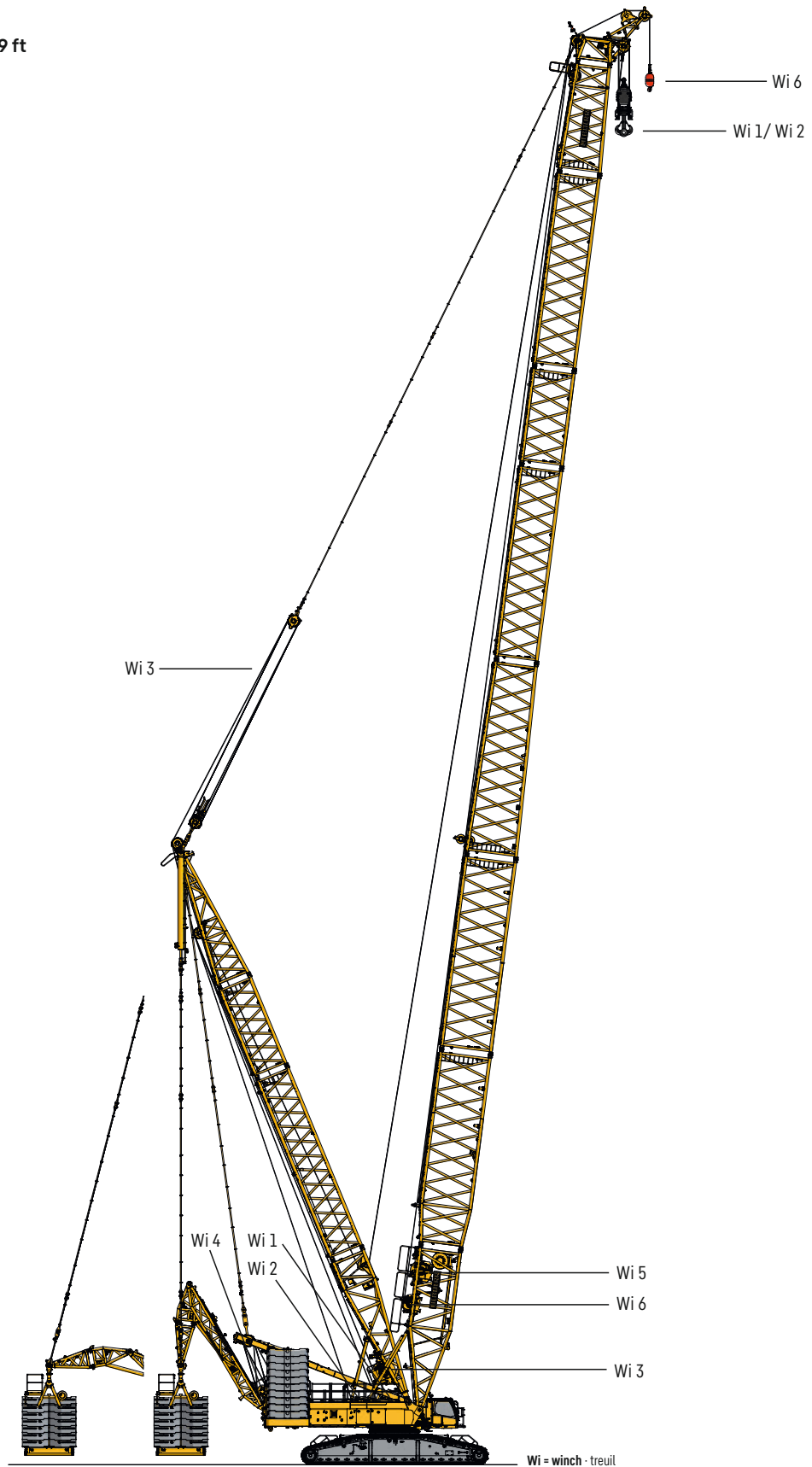


US283-0001-00

# HSDBV



42 ft 8 in - 69 ft



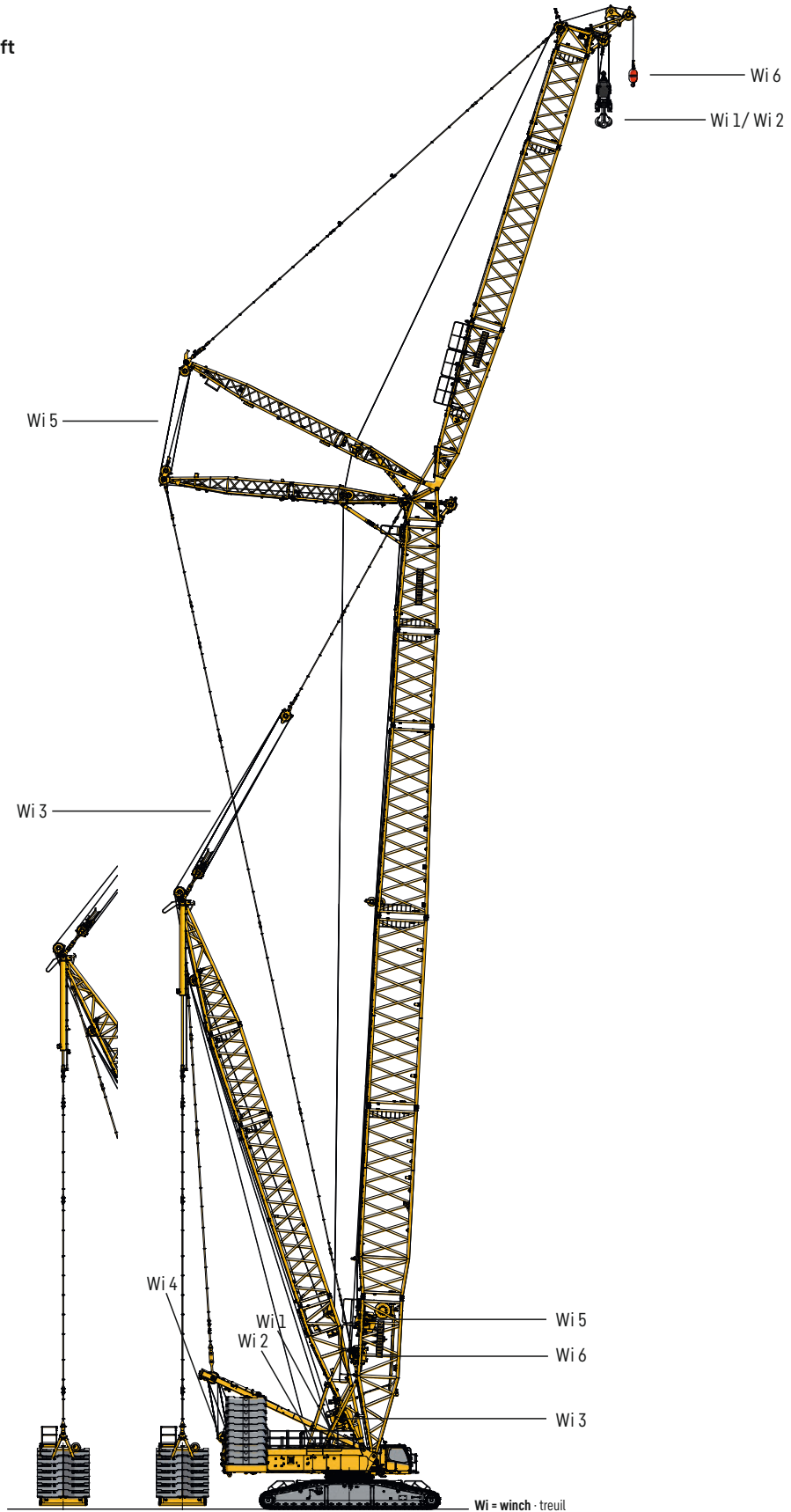
Wi = winch · treuil

S283-0030-00

# HSDWB



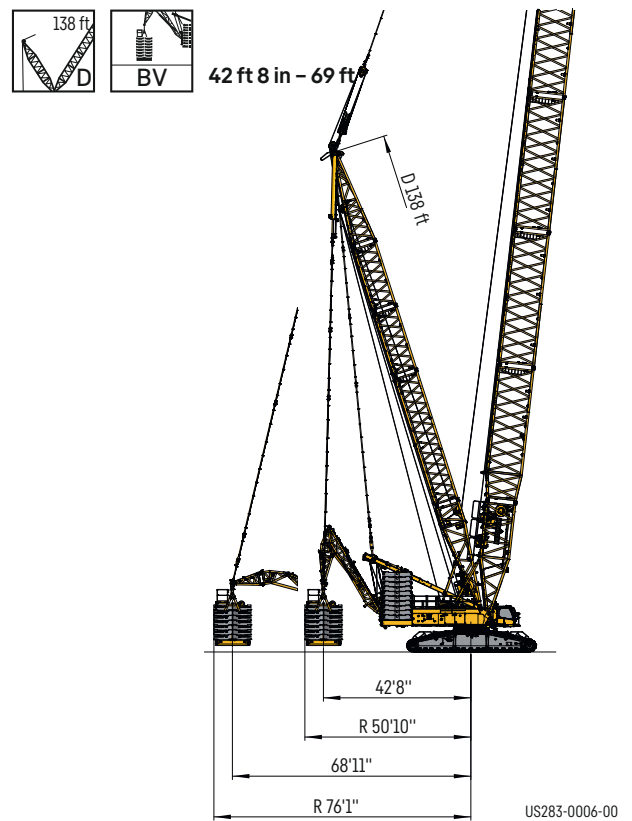
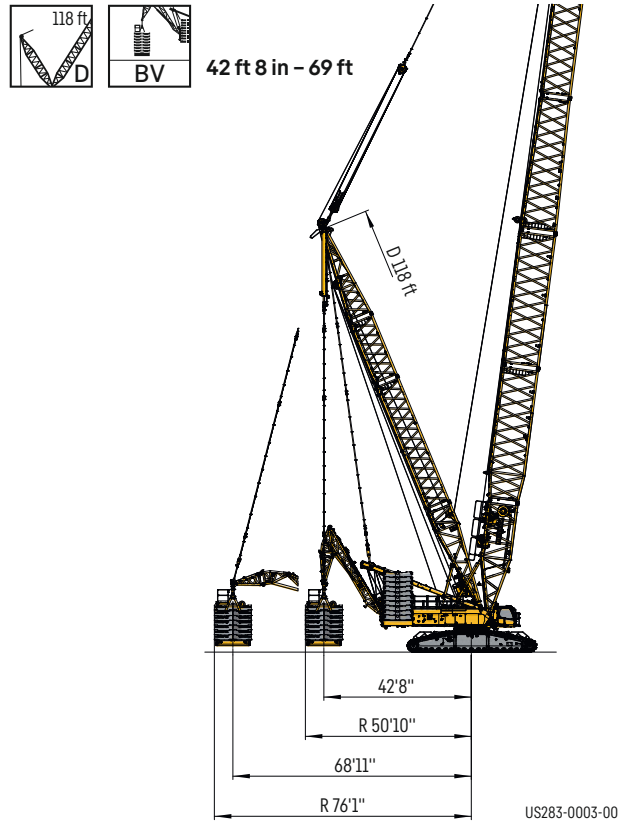
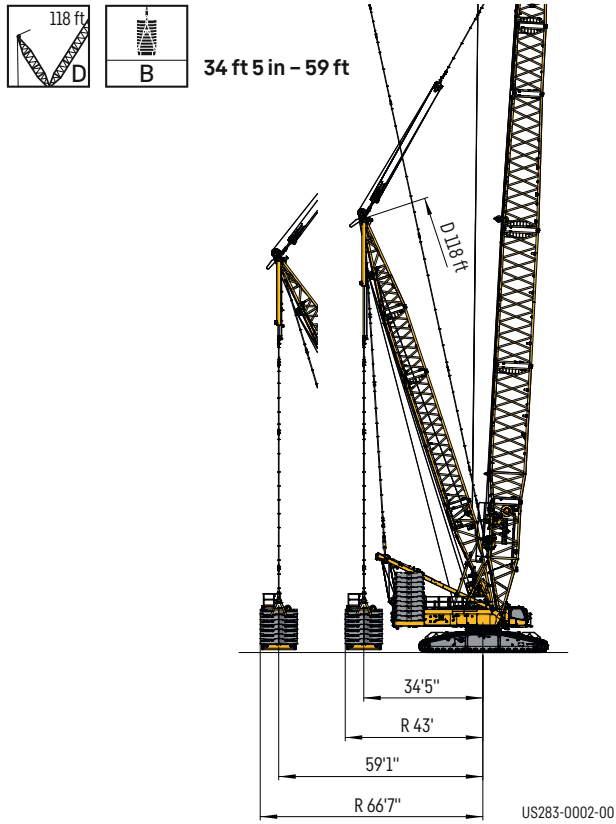
34 ft 5 in - 59 ft



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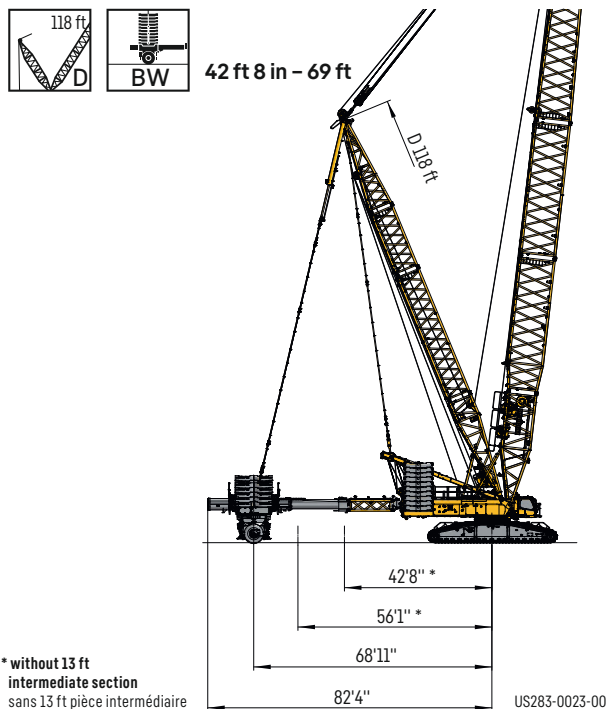
# Dimensions

## Encombrement



# M-Wagon® for 3 crane models

## M-Wagon® pour 3 types de grues



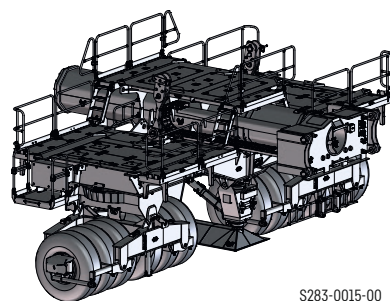
### M-Wagon®

13 ft intermediate section · pièce intermédiaire

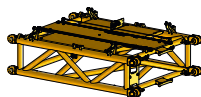
adapter · adaptateur

crane type · type de grue

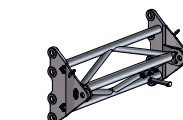
One fits all  
Équipement unique



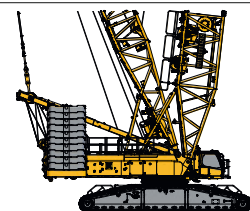
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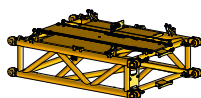
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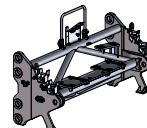
826,700 lb @ 69 ft



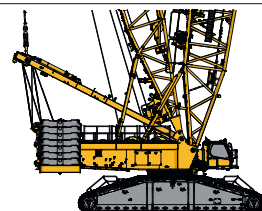
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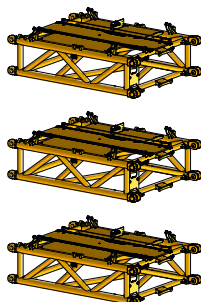
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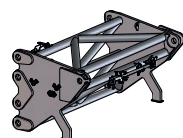
881,890 lb @ 75.5 ft



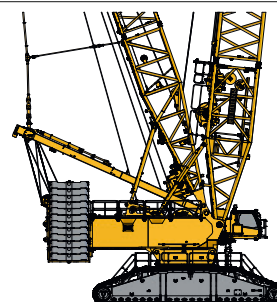
+



+







992,100 lb @ 98.5 ft





# Crane data

## Dates de la grue







### Winches · Treuils

|  | V <sub>ft/min</sub> |  F |  Ø |  |
|---|---------------------|---|---|---|
| 1   | 0 - 394 ft/min      | 40,465 lb   | 1.1"  | 3773 ft   |
| 2   | 0 - 394 ft/min      | 40,465 lb   | 1.1"  | 3773 ft   |
| 3   | 0 - 377 ft/min      | -   | -   | -   |
| 4   | 0 - 2 x 197 ft/min  | -   | -   | -   |
| 5   | 0 - 345 ft/min      | -   | -   | -   |
| 6   | 0 - 387 ft/min      | 28,100 lb   | 0.9"  | 1968 ft   |

### Working speeds · Vitesses

|   |  |              |
|---|--|--------------|
|  | <b>Slewing speeds</b> · Vitesses d'orientation | 0 - 0,76 rpm |
|  | <b>Travel speeds</b> · Vitesses de translation | 0 - 0.75 mph |

### Hook blocks · Moufles à crochet

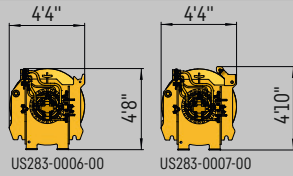
|  |  max |  Ø |  |  |  |
|---|---|---|---|---|---|
| 1323 / 661 kip  | 1389 kip  | 1.1"  | 2 x 9   | 2 x 19  | 18,740 / 24,250 - 35,300 lb   |
| 794 / 397 kip   | 882 kip   | 1.1"  | 2 x 5   | 2 x 11  | 11,250 - 15,650 / 13,700 - 24,700 lb  |
| 529 / 265 kip   | 551 kip   | 1.1"  | 2 x 3   | 2 x 7   | 5,300 - 16,300 / 7,930 - 18,950 lb  |
| 397 kip   | 441 kip   | 1.1"  | 5   | 11  | 4,400 - 15,430 lb   |
| 265 kip   | 276 kip   | 1.1"  | 3   | 7   | 3,300 - 12,125 lb   |
| 110 kip   | 139 kip   | 1.1"  | 1   | 3   | 2,200 - 6,615 lb  |
| 39.7 kip  | 44 kip  | 1.1"  | -   | 1   | 2,425 lb  |

# Transportation plan

## Plan de transport

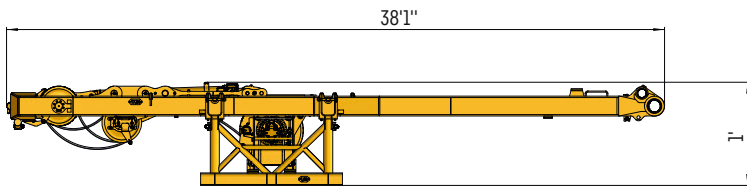
Part · Partie

Winches 1 and 2  
Treuils 1 et 2



18,5 kip +  
18,5 kip

SA-Frame incl. winch IV · Chevalet SA incl. treuil 4



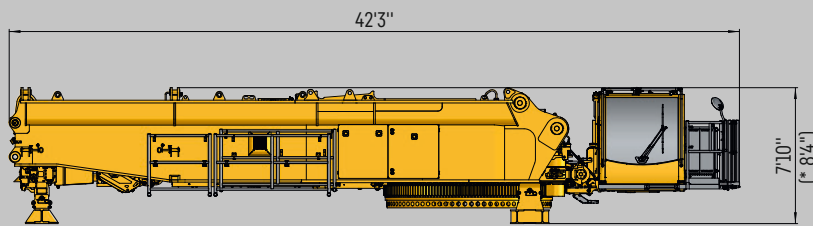
1

US283-0008-00

38,6 kip  
+ 3,5 kip  
Transport  
bracket  
Support de  
transport

1

Superstructure without SA-frame and winches · Partie tournante sans chevalet SA et treuils



2

2

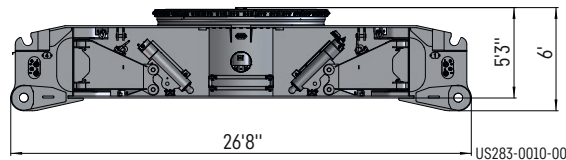
US283-0009-00

\* with SA-frame · avec chevalet SA

90,4 kip  
(incl. QC)  
+2,6 kip  
Transport  
bracket  
Support de  
transport

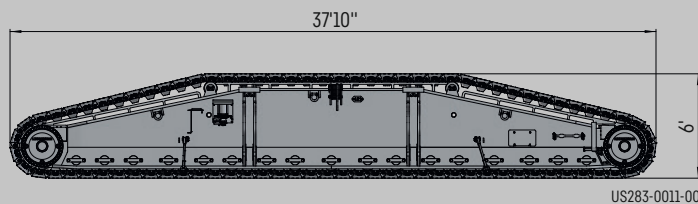
2

Middle section  
Partie centrale



66,1 kip

Crawler track (4-fold, 6'7" pads)  
Longeron (4 positions, plaques de 6'7")



2 x 94,8 kip

Total · total

421,7 kip

129 kip

156,5 kip

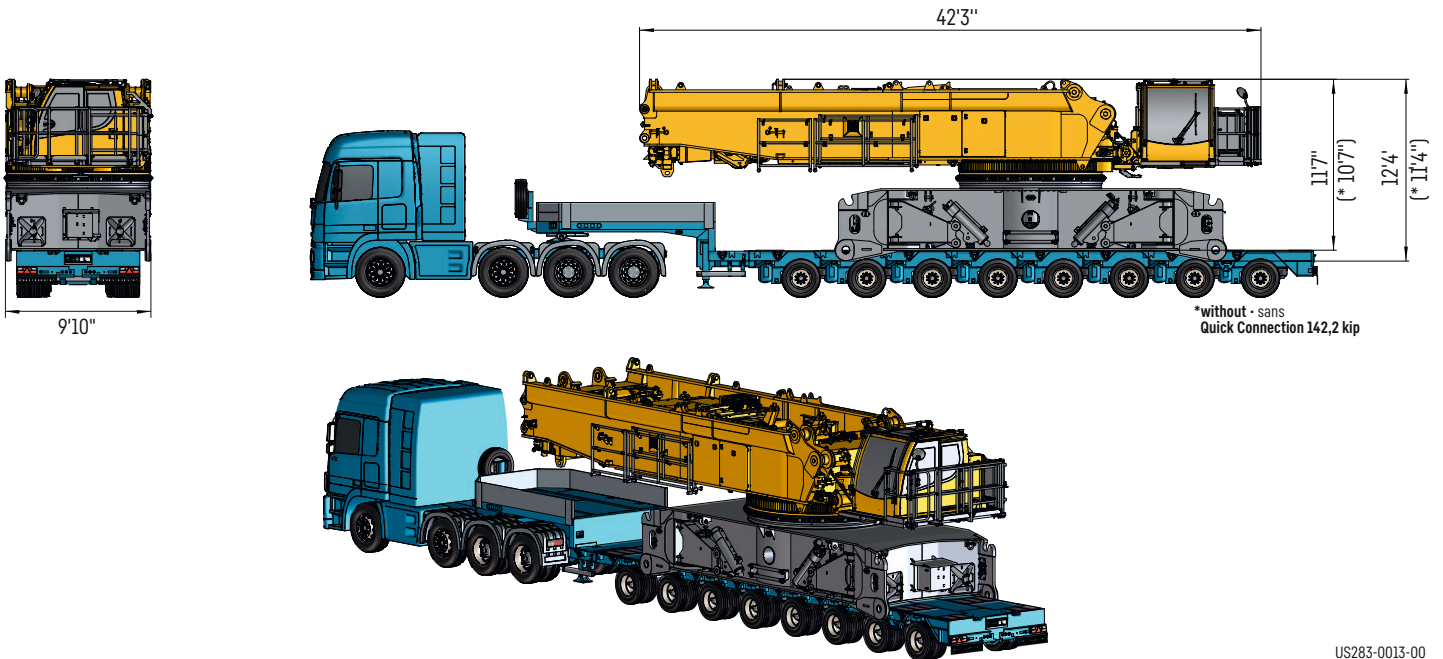
195,1 kip

166 kip

+Transport bracket  
+Support de transport

# Transportation plan

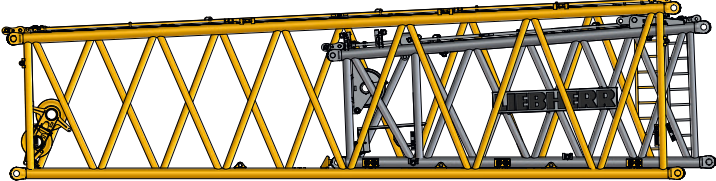
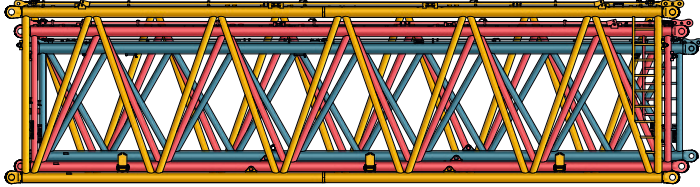
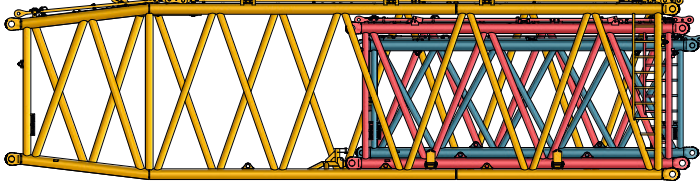
## Plan de transport



US283-0013-00

### 3 x Transport >11 ft 6 in<

### 3 x transport >11 ft 6 in<

|                             |          |  |
|-----------------------------|----------|--|
| Gross weight<br>Poids total | 44 kip   |  |
|                             | 65,5 kip |  |
|                             | 49,2 kip |  |

All other components are ≤ 10 ft • Tous les autres composants sont ≤ 10 ft

# Overview windsystems

## Vue d'ensemble des systèmes de treuils

Easy to identify · Identification facile



S3486

# Boom/jib combinations

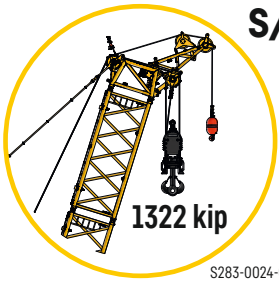
## Configurations de flèche

|            |   |
|------------|---|
| <b>HS</b>  | <b>Main boom, heavy</b> · Flèche principale, lourde                   |
| <b>HSL</b> | <b>Main boom, heavy/light</b> · Flèche principale, lourde/légère      |
| <b>D</b>   | <b>Derrick</b> · Flèche derrick                                       |
| <b>W</b>   | <b>Luffin fly jib, heavy</b> · Fléchette, lourde                      |
| <b>B</b>   | <b>Suspended ballast</b> · Lest suspendu                              |
| <b>BV</b>  | <b>Suspended ballast V-frame</b> · V-Frame de contreponds suspendu    |
| <b>BW</b>  | <b>Counterweight trailer M-Wagon</b> · Remorque à contreponds M-Wagon |
| <b>S2</b>  | <b>Main boom S2</b> · Flèche principale S2                            |
| <b>A</b>   | <b>Adapter</b> · Pièce d'adaptateur                                   |
| <b>F</b>   | <b>Fixed lattice jib F</b> · Fléchette a treillis fixe F              |



# Boom/jib combinations

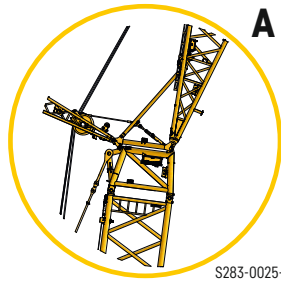
## Configurations de flèche



S/W

1322 kip

S283-0024-00



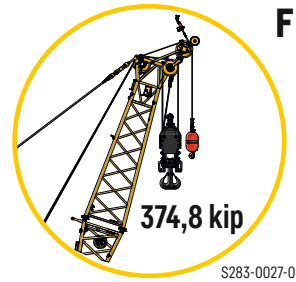
A

S283-0025-00



W

S283-0026-00



F

374,8 kip

S283-0027-00



**HSDWB/BV**

HSDWB 177 ft - 354 ft  
W 39 ft - 315 ft

**HSL3AF**

HSL3AF 256 ft - 335 ft  
F 39 ft - 128 ft

**HSL3ADFB/BV**

HSL3ADFB 256 ft - 482 ft  
F 39 ft - 128 ft

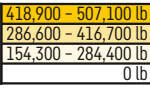
**HSL6ADFB/BV**

HSL6ADFB 335 ft - 541 ft  
F 39 ft - 128 ft

**HSL9ADFB/BV**

HSL9ADFB 374 ft - 541 ft  
F 39 ft - 128 ft

S3488

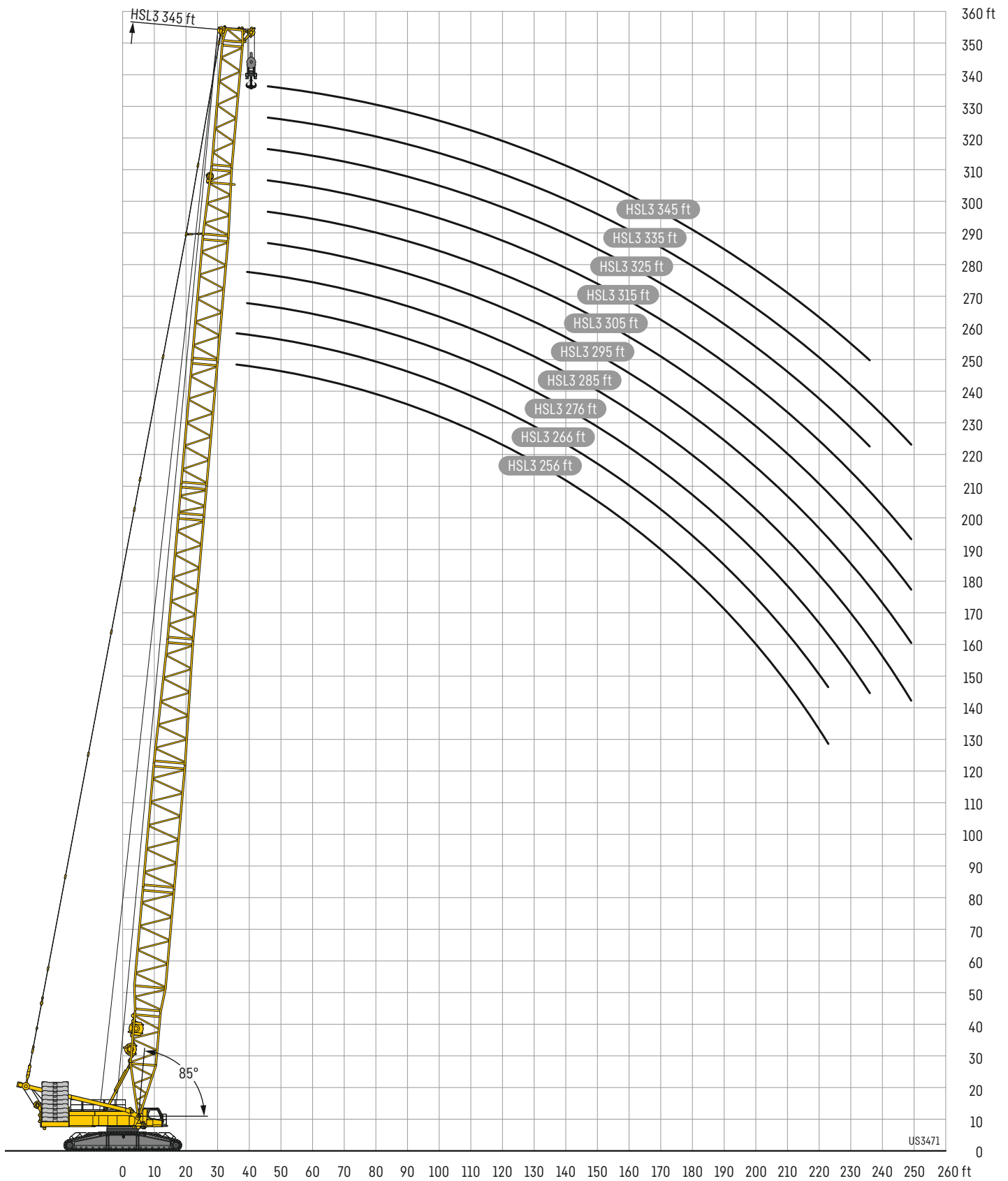


|     |      | HSL3 256 - 345 ft |        |        |        |        |        |        |        |        |        |     |  |
|-----|------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|--|
| ft  |      | 256 ft            | 266 ft | 276 ft | 285 ft | 295 ft | 305 ft | 315 ft | 325 ft | 335 ft | 345 ft | ft  |  |
| 36  | 614  | 424               |        |        |        |        |        |        |        |        |        | 36  |  |
| 38  | 585  | 570               | 552    |        |        |        |        |        |        |        |        | 38  |  |
| 40  | 556  | 544               | 529    | 514    | 496    |        |        |        |        |        |        | 40  |  |
| 45  | 488  | 478               | 469    | 459    | 449    |        | 435    | 427    | 418    | 403    | 382    | 45  |  |
| 50  | 436  | 429               | 420    | 410    | 401    |        | 389    | 385    | 379    | 369    | 356    | 50  |  |
| 55  | 391  | 384               | 377    | 371    | 364    |        | 353    | 348    | 342    | 334    | 326    | 55  |  |
| 60  | 354  | 348               | 342    | 336    | 329    |        | 320    | 317    | 312    | 306    | 299    | 60  |  |
| 65  | 322  | 317               | 311    | 306    | 302    |        | 294    | 289    | 284    | 279    | 274    | 65  |  |
| 70  | 294  | 289               | 284    | 280    | 276    |        | 270    | 267    | 261    | 257    | 251    | 70  |  |
| 75  | 270  | 266               | 261    | 257    | 254    |        | 248    | 245    | 240    | 237    | 233    | 75  |  |
| 80  | 249  | 245               | 240    | 236    | 234    |        | 228    | 226    | 220    | 218    | 215    | 80  |  |
| 85  | 230  | 226               | 222    | 218    | 216    |        | 210    | 208    | 203    | 201    | 198    | 85  |  |
| 90  | 213  | 210               | 206    | 202    | 200    |        | 195    | 193    | 188    | 186    | 183    | 90  |  |
| 95  | 198  | 195               | 191    | 188    | 185    |        | 180    | 178    | 174    | 172    | 170    | 95  |  |
| 100 | 185  | 181               | 177    | 174    | 172    |        | 167    | 166    | 161    | 160    | 157    | 100 |  |
| 105 | 172  | 169               | 165    | 162    | 160    |        | 156    | 154    | 149    | 148    | 146    | 105 |  |
| 110 | 161  | 157               | 154    | 152    | 149    |        | 145    | 143    | 139    | 138    | 136    | 110 |  |
| 115 | 150  | 147               | 144    | 141    | 140    |        | 135    | 134    | 129    | 128    | 126    | 115 |  |
| 120 | 141  | 138               | 135    | 132    | 130    |        | 126    | 125    | 120    | 119    | 117    | 120 |  |
| 125 | 132  | 129               | 126    | 124    | 122    |        | 118    | 116    | 112    | 111    | 109    | 125 |  |
| 130 | 123  | 121               | 118    | 116    | 114    |        | 110    | 109    | 105    | 104    | 102    | 130 |  |
| 135 | 115  | 114               | 111    | 108    | 107    |        | 103    | 101    | 97.5   | 96.7   | 95     | 135 |  |
| 140 | 108  | 106               | 104    | 102    | 99.9   |        | 96.2   | 94.7   | 90.8   | 90.3   | 88.2   | 140 |  |
| 145 | 100  | 99.1              | 97.4   | 95     | 93.8   |        | 89.8   | 88.5   | 84.6   | 84     | 82.3   | 145 |  |
| 150 | 94   | 92.4              | 91     | 89.1   | 87.8   |        | 84     | 82.6   | 78.8   | 78.3   | 76.3   | 150 |  |
| 155 | 87.9 | 86.4              | 84.8   | 83.4   | 82.3   |        | 78.4   | 77.1   | 73.3   | 72.9   | 71.1   | 155 |  |
| 160 | 82.2 | 80.7              | 79.2   | 77.7   | 77     |        | 73.3   | 71.9   | 68.2   | 67.8   | 66     | 160 |  |
| 165 | 77   | 75.4              | 73.8   | 72.5   | 72     |        | 68.5   | 67.1   | 63.4   | 63     | 61.3   | 165 |  |
| 170 | 72.1 | 70.5              | 68.9   | 67.4   | 67.2   |        | 63.9   | 62.6   | 58.9   | 58.5   | 56.7   | 170 |  |
| 175 | 67.5 | 65.8              | 64.3   | 62.8   | 62.4   |        | 59.6   | 58.2   | 54.6   | 54.3   | 52.5   | 175 |  |
| 180 | 63.2 | 61.4              | 59.9   | 58.4   | 58.2   |        | 55.5   | 54.2   | 50.5   | 50.2   | 48.5   | 180 |  |
| 185 | 59.2 | 57.4              | 55.9   | 54.2   | 54     |        | 51.5   | 50.3   | 46.7   | 46.4   | 44.7   | 185 |  |
| 190 | 55.4 | 53.6              | 52.1   | 50.4   | 50.1   |        | 47.5   | 46.7   | 43.1   | 42.8   | 41     | 190 |  |
| 195 | 51.9 | 50                | 48.4   | 46.8   | 46.5   |        | 43.9   | 43.1   | 39.7   | 39.4   | 37.6   | 195 |  |
| 200 | 48.5 | 46.6              | 45     | 43.3   | 43     |        | 40.5   | 39.7   | 36.3   | 36.2   | 34.3   | 200 |  |
| 205 | 45.3 | 43.4              | 41.8   | 40.1   | 39.8   |        | 37.1   | 36.4   | 33.3   | 33     | 31.2   | 205 |  |
| 210 | 42.3 | 40.4              | 38.8   | 37     | 36.7   |        | 34.1   | 33.3   | 30.3   | 30.1   | 28.3   | 210 |  |
| 215 | 39.5 | 37.5              | 35.9   | 34.1   | 33.8   |        | 31.2   | 30.4   | 27.5   | 27.3   | 25.5   | 215 |  |
| 220 | 36.9 | 34.8              | 33.2   | 31.3   | 31     |        | 28.4   | 27.5   | 24.8   | 24.7   | 22.8   | 220 |  |
| 225 | 34.4 | 32.3              | 30.6   | 28.7   | 28.4   |        | 25.8   | 24.9   | 22.2   | 22.1   | 20.2   | 225 |  |
| 230 |      | 29.8              | 28.2   | 26.3   | 25.9   |        | 23.3   | 22.4   | 19.8   | 19.7   | 17.7   | 230 |  |
| 235 |      |                   | 25.9   | 23.9   | 23.5   |        | 20.9   | 19.9   | 17.3   | 17.4   | 15.4   | 235 |  |
| 240 |      |                   | 23.7   | 21.7   | 21.3   |        | 18.6   | 17.7   | 15     | 15.2   | 13.1   | 240 |  |
| 245 |      |                   |        | 19.5   | 19.2   |        | 16.5   | 15.5   | 12.8   | 13.1   | 11     | 245 |  |
| 250 |      |                   |        | 17.5   | 17.2   |        | 14.4   | 13.3   |        |        |        | 250 |  |
| 255 |      |                   |        |        | 15.2   |        | 12.5   | 11.4   |        |        |        | 255 |  |

# Lifting heights

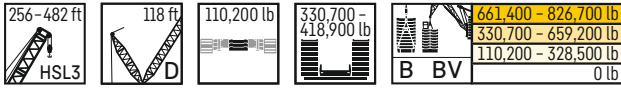
## Hauteurs de levage

# HSL3



# HSL3DB/BV

# HSL3 256 - 482

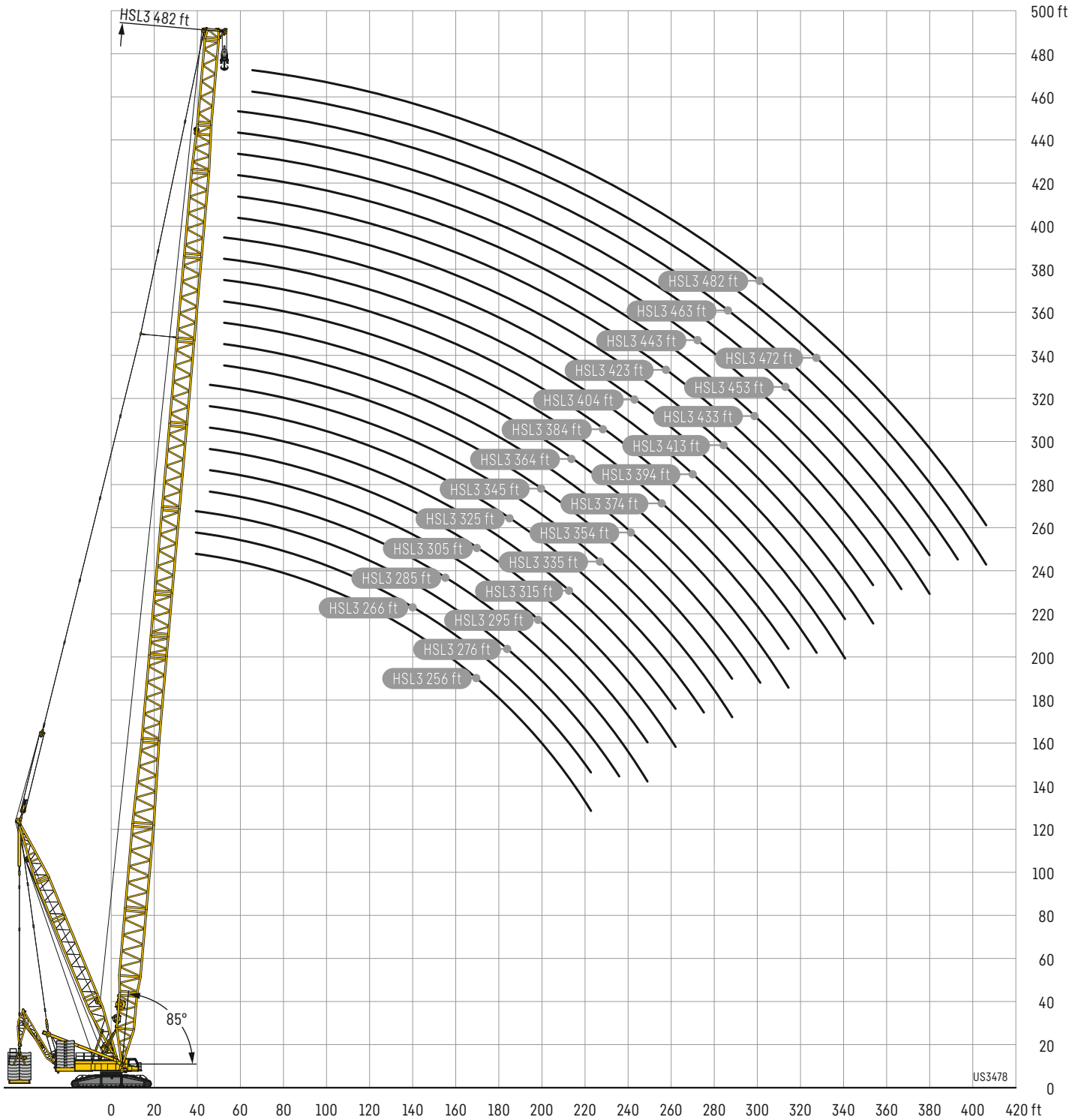


|     |    | HSL3 256 - 482 ft |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|-----|----|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| ft  |    | 256 ft            | 266 ft | 276 ft | 285 ft | 295 ft | 305 ft | 315 ft | 325 ft | 335 ft | 345 ft | 354 ft | 364 ft | 374 ft | 384 ft | 394 ft | 404 ft | 413 ft | 423 ft | 433 ft | 443 ft | 453 ft | 463 ft | 472 ft | 482 ft |      |
| 38  | Ot | 566               | 482    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV | 818               | 794    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| 40  | Ot | 537               | 527    | 515    | 436    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV | 820               | 796    | 770    | 744    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| 50  | Ot | 419               | 412    | 404    | 395    | 391    | 383    | 375    | 369    | 365    | 359    | 352    | 345    | 341    |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV | 828               | 803    | 777    | 750    | 725    | 697    | 671    | 645    | 613    | 587    | 559    | 529    | 501    |        |        |        |        |        |        |        |        |        |        |        |      |
| 60  | Ot | 339               | 333    | 327    | 320    | 317    | 310    | 304    | 300    | 296    | 292    | 286    | 280    | 278    | 272    | 269    | 262    | 260    | 257    | 252    | 246    | 242    | 239    | 233    | 233    |      |
|     | BV | 834               | 809    | 782    | 755    | 729    | 701    | 673    | 645    | 613    | 585    | 554    | 524    | 497    | 468    | 441    | 414    | 384    | 365    | 346    | 329    | 311    | 296    | 283    | 283    |      |
| 70  | Ot | 280               | 275    | 271    | 264    | 263    | 257    | 252    | 248    | 245    | 242    | 237    | 232    | 230    | 225    | 223    | 217    | 215    | 212    | 208    | 203    | 200    | 197    | 193    | 193    |      |
|     | BV | 837               | 812    | 784    | 756    | 729    | 700    | 674    | 646    | 612    | 579    | 548    | 519    | 492    | 462    | 434    | 411    | 380    | 364    | 346    | 328    | 311    | 295    | 282    | 282    |      |
| 80  | Ot | 235               | 231    | 227    | 222    | 221    | 215    | 211    | 208    | 205    | 203    | 199    | 193    | 193    | 188    | 186    | 181    | 180    | 178    | 174    | 169    | 166    | 164    | 160    | 160    |      |
|     | BV | 763               | 756    | 750    | 739    | 722    | 699    | 672    | 642    | 606    | 573    | 542    | 513    | 485    | 453    | 423    | 408    | 375    | 361    | 343    | 325    | 307    | 292    | 278    | 278    |      |
| 90  | Ot | 200               | 197    | 193    | 188    | 187    | 182    | 179    | 176    | 174    | 171    | 167    | 163    | 163    | 158    | 157    | 152    | 151    | 149    | 146    | 141    | 138    | 137    | 133    | 133    |      |
|     | BV | 678               | 674    | 670    | 664    | 659    | 651    | 637    | 621    | 594    | 563    | 534    | 503    | 474    | 441    | 410    | 403    | 368    | 354    | 338    | 321    | 303    | 288    | 275    | 275    |      |
| 100 | Ot | 172               | 169    | 165    | 161    | 160    | 156    | 152    | 149    | 148    | 146    | 142    | 138    | 138    | 134    | 133    | 128    | 128    | 126    | 122    | 118    | 116    | 114    | 111    | 111    |      |
|     | BV | 609               | 605    | 602    | 596    | 594    | 589    | 584    | 577    | 563    | 541    | 518    | 489    | 461    | 427    | 397    | 397    | 361    | 349    | 334    | 317    | 299    | 285    | 274    | 274    |      |
| 110 | Ot | 149               | 146    | 143    | 138    | 138    | 133    | 130    | 128    | 127    | 125    | 121    | 117    | 117    | 113    | 112    | 108    | 108    | 106    | 103    | 98.7   | 96.7   | 95.5   | 92.1   | 92.1   |      |
|     | BV | 548               | 546    | 544    | 540    | 539    | 534    | 530    | 525    | 521    | 509    | 493    | 468    | 442    | 414    | 384    | 391    | 355    | 344    | 331    | 314    | 296    | 282    | 268    | 268    |      |
| 120 | Ot | 130               | 127    | 124    | 119    | 119    | 115    | 112    | 109    | 109    | 107    | 103    | 99.5   | 99.6   | 95.8   | 95     | 90.7   | 90.7   | 89.1   | 86.2   | 82.3   | 80.2   | 79.2   | 76.1   | 76.1   |      |
|     | BV | 498               | 495    | 493    | 490    | 490    | 487    | 483    | 480    | 478    | 473    | 466    | 446    | 423    | 397    | 371    | 381    | 350    | 339    | 327    | 310    | 293    | 279    | 266    | 266    |      |
| 130 | Ot | 113               | 110    | 107    | 103    | 103    | 99.3   | 96.2   | 94     | 93.4   | 91.2   | 88.2   | 84.3   | 84.6   | 80.8   | 80.2   | 76     | 76     | 74.7   | 71.7   | 68.1   | 66.2   | 65     | 62.2   | 62.2   |      |
|     | BV | 454               | 453    | 450    | 447    | 446    | 444    | 441    | 439    | 438    | 435    | 431    | 419    | 403    | 377    | 355    | 366    | 342    | 331    | 319    | 305    | 289    | 276    | 262    | 262    |      |
| 140 | Ot | 98.9              | 96.1   | 93.2   | 89.3   | 89.3   | 85.5   | 82.6   | 80.4   | 79.9   | 77.8   | 75.1   | 71.4   | 71.7   | 67.9   | 67.3   | 63.4   | 62     | 59.3   | 55.5   | 53.9   | 52.9   | 50     | 50     | 50     |      |
|     | BV | 417               | 415    | 413    | 410    | 410    | 407    | 404    | 402    | 399    | 397    | 390    | 382    | 361    | 341    | 352    | 334    | 321    | 308    | 296    | 282    | 270    | 257    | 243    | 243    |      |
| 150 | Ot | 86.6              | 83.8   | 81.2   | 77.2   | 77.4   | 73.6   | 70.7   | 68.6   | 68.2   | 66.1   | 63.6   | 59.8   | 60.1   | 56.7   | 56.2   | 52     | 52.2   | 51     | 48.2   | 44.7   | 42.9   | 42.1   | 39.3   | 39.3   |      |
|     | BV | 385               | 382    | 380    | 377    | 378    | 375    | 373    | 371    | 370    | 368    | 366    | 362    | 359    | 344    | 325    | 337    | 321    | 310    | 298    | 286    | 273    | 262    | 250    | 250    |      |
| 160 | Ot | 75.1              | 73.2   | 70.6   | 66.6   | 66.9   | 63.1   | 60.3   | 58.3   | 57.9   | 55.9   | 53.4   | 49.6   | 50.2   | 46.7   | 46.1   | 42     | 42.5   | 41.3   | 38.5   | 35     | 33.3   | 32.4   | 29.8   | 29.8   |      |
|     | BV | 357               | 354    | 353    | 349    | 349    | 346    | 344    | 343    | 340    | 338    | 334    | 333    | 324    | 308    | 319    | 307    | 297    | 287    | 276    | 264    | 254    | 244    | 244    | 244    |      |
| 170 | Ot | 65.2              | 63.5   | 61.2   | 57.3   | 57.6   | 53.8   | 51.2   | 49.1   | 48.7   | 46.8   | 44.3   | 40.6   | 41.2   | 37.7   | 37.1   | 33.3   | 33.7   | 32.4   | 29.8   | 26.5   | 24.9   | 23.9   | 21.2   | 21.2   |      |
|     | BV | 331               | 329    | 328    | 324    | 325    | 321    | 319    | 317    | 317    | 315    | 314    | 310    | 309    | 303    | 290    | 299    | 292    | 285    | 276    | 265    | 254    | 245    | 236    | 236    |      |
| 180 | Ot | 56.3              | 54.6   | 52.9   | 49.1   | 49.4   | 45.6   | 43     | 40.9   | 40.6   | 38.7   | 36.2   | 32.6   | 33.2   | 29.7   | 29.2   | 25.3   | 25.7   | 24.6   | 22.1   | 18.7   | 16.3   | 16.3   | 16.3   |        |      |
|     | BV | 309               | 307    | 304    | 302    | 303    | 299    | 297    | 295    | 295    | 293    | 291    | 288    | 287    | 283    | 273    | 279    | 277    | 273    | 264    | 255    | 245    | 236    | 228    | 228    |      |
| 190 | Ot | 48.7              | 46.9   | 45.3   | 41.8   | 42     | 38.3   | 35.7   | 33.6   | 33.4   | 31.5   | 28.9   | 25.4   | 26     | 22.4   | 22.1   | 18.1   | 18.6   | 17.6   | 15     | 11.5   | 11.5   | 11.5   | 11.5   |        |      |
|     | BV | 289               | 286    | 285    | 282    | 282    | 280    | 278    | 275    | 275    | 273    | 271    | 268    | 267    | 263    | 256    | 260    | 259    | 257    | 252    | 244    | 235    | 227    | 219    | 219    |      |
| 200 | Ot | 41.9              | 39.9   | 38.4   | 35.2   | 35.5   | 31.8   | 29.2   | 27     | 26.8   | 24.9   | 22.4   | 18.9   | 19.5   | 16     | 15.6   | 12.3   | 12.3   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   | 11.5   |      |
|     | BV | 271               | 268    | 266    | 264    | 264    | 261    | 259    | 258    | 258    | 255    | 253    | 250    | 250    | 245    | 239    | 242    | 242    | 240    | 236    | 231    | 224    | 218    | 211    | 211    |      |
| 220 | Ot | 30.6              | 28.4   | 26.7   | 23.9   | 24.3   | 20.6   | 18     | 15.8   | 15.6   | 13.6   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   |      |
|     | BV | 240               | 237    | 235    | 232    | 233    | 229    | 228    | 226    | 226    | 224    | 223    | 220    | 219    | 215    | 208    | 212    | 211    | 209    | 207    | 204    | 201    | 199    | 194    | 194    |      |
| 240 | Ot |                   |        | 17.6   | 14.6   | 15     | 11.6   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        | 209    | 206    | 206    | 203    | 201    | 200    | 199    | 198    | 196    | 193    | 193    | 190    | 182    | 186    | 186    | 185    | 182    | 179    | 177    | 176    | 173    | 173    |      |
| 260 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        | 180    | 179    | 176    | 177    | 175    | 172    | 170    | 171    | 166    | 157    | 164    | 164    | 163    | 161    | 158    | 156    | 155    | 152    | 152    |      |
| 280 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        | 157    | 157    | 155    | 153    | 151    | 150    | 143    | 135    | 145    | 146    | 146    | 144    | 142    | 139    | 138    | 137    | 134    | 134    |      |
| 300 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        |        |        | 139    | 136    | 131    | 130    | 121    | 114    | 128    | 129    | 128    | 126    | 123    | 121    | 120    | 118    | 118    | 118    |      |
| 320 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        |        |        |        |        | 107    | 99.8   | 94.7   | 113    | 114    | 113    | 111    | 108    | 107    | 106    | 104    | 104    | 104    | 104    |      |
| 340 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        |        |        |        |        |        |        |        | 77.4   | 100    | 101    | 99.7   | 97.9   | 95.6   | 94.5   | 93.3   | 91.1   | 91.1   | 91.1   |      |
| 360 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 88     | 86.4   | 84     | 82.9   | 81.8   | 79.9   | 79.9   | 79.9   |      |
| 380 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 73.5   | 72.5   | 71.3   | 69.6   | 69.6   |      |
| 400 | Ot |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV |                   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 61.9   | 60.2 |

# Lifting heights

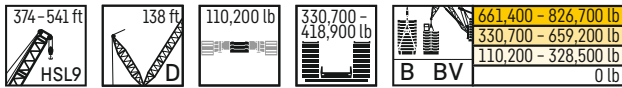
## Hauteurs de levage

# HSL3DB/BV



# HSL9DB/BV

# HSL9 374 - 541

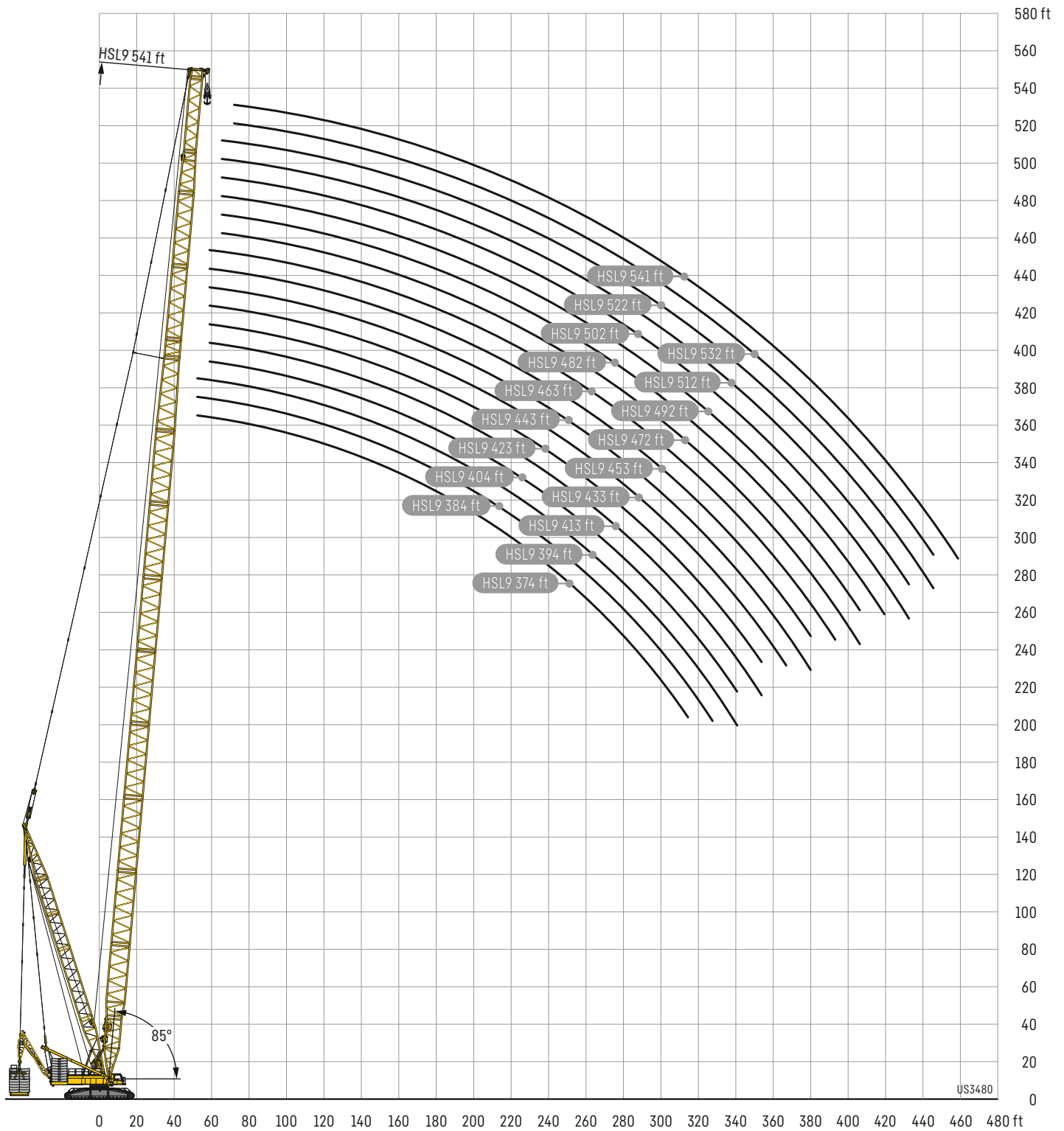


| ft  | HSL9 374 - 541 ft |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|-----|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
|     | 374 ft            | 384 ft | 394 ft | 404 ft | 413 ft | 423 ft | 433 ft | 443 ft | 453 ft | 463 ft | 472 ft | 482 ft | 492 ft | 502 ft | 512 ft | 522 ft | 532 ft | 541 ft |      |
| 50  | Ot 329            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 592             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | BV 607            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| 60  | Ot 267            | 260    | 255    | 251    | 246    | 240    | 238    | 232    | 227    | 221    | 217    |        |        |        |        |        |        |        |      |
|     | B 588             | 561    | 536    | 511    | 491    | 467    | 446    | 423    | 406    | 386    | 365    |        |        |        |        |        |        |        |      |
|     | BV 608            | 579    | 552    | 526    | 506    | 482    | 459    | 435    | 417    | 396    | 349    |        |        |        |        |        |        |        |      |
| 70  | Ot 219            | 213    | 209    | 206    | 202    | 196    | 195    | 189    | 185    | 179    | 178    | 173    |        |        |        |        |        |        |      |
|     | B 582             | 555    | 530    | 506    | 487    | 463    | 442    | 419    | 403    | 382    | 364    | 346    |        |        |        |        |        |        |      |
|     | BV 605            | 577    | 550    | 524    | 505    | 480    | 459    | 436    | 418    | 396    | 375    | 358    | 342    | 325    | 310    | 294    | 280    | 265    |      |
| 80  | Ot 182            | 177    | 173    | 170    | 167    | 161    | 160    | 155    | 151    | 146    | 146    | 141    |        |        |        |        |        |        |      |
|     | B 569             | 543    | 519    | 495    | 478    | 454    | 433    | 411    | 394    | 375    | 357    | 339    |        |        |        |        |        |        |      |
|     | BV 589            | 567    | 545    | 519    | 501    | 475    | 449    | 422    | 407    | 396    | 358    | 356    | 340    | 322    | 308    | 291    | 277    | 262    |      |
| 90  | Ot 152            | 147    | 144    | 141    | 138    | 133    | 132    | 128    | 124    | 119    | 119    | 115    |        |        |        |        |        |        |      |
|     | B 540             | 520    | 500    | 479    | 465    | 443    | 424    | 403    | 386    | 367    | 350    | 332    |        |        |        |        |        |        |      |
|     | BV 551            | 533    | 514    | 496    | 481    | 460    | 424    | 410    | 393    | 391    | 350    | 353    | 337    | 319    | 304    | 288    | 274    | 260    |      |
| 100 | Ot 127            | 123    | 119    | 117    | 115    | 110    | 109    | 105    | 101    | 96.8   | 96.7   | 92.5   |        |        |        |        |        |        |      |
|     | B 502             | 487    | 471    | 455    | 442    | 425    | 410    | 393    | 377    | 360    | 343    | 326    |        |        |        |        |        |        |      |
|     | BV 516            | 499    | 482    | 467    | 452    | 427    | 402    | 388    | 372    | 355    | 344    | 349    | 333    | 316    | 301    | 285    | 272    | 257    |      |
| 110 | Ot 107            | 102    | 99.4   | 97.5   | 94.7   | 90.2   | 89.8   | 85.4   | 82.4   | 78.1   | 78.1   | 73.8   |        |        |        |        |        |        |      |
|     | B 457             | 449    | 440    | 427    | 416    | 401    | 389    | 375    | 361    | 348    | 335    | 320    |        |        |        |        |        |        |      |
|     | BV 486            | 470    | 454    | 440    | 426    | 406    | 391    | 391    | 375    | 365    | 341    | 342    | 330    | 313    | 299    | 282    | 269    | 254    |      |
| 120 | Ot 89.2           | 85.1   | 82.2   | 80.5   | 78     | 73.4   | 73.3   | 69.1   | 65.9   | 61.9   | 62.1   | 57.9   |        |        |        |        |        |        |      |
|     | B 417             | 410    | 404    | 398    | 391    | 377    | 367    | 355    | 343    | 331    | 319    | 307    |        |        |        |        |        |        |      |
|     | BV 461            | 447    | 432    | 417    | 404    | 384    | 381    | 371    | 356    | 347    | 334    | 326    | 319    | 308    | 296    | 280    | 267    | 252    |      |
| 130 | Ot 74.3           | 70.2   | 67.6   | 65.9   | 63.5   | 59.1   | 58.9   | 54.9   | 52     | 47.8   | 48.2   | 44.2   |        |        |        |        |        |        |      |
|     | B 382             | 375    | 370    | 366    | 361    | 354    | 346    | 335    | 324    | 313    | 303    | 292    |        |        |        |        |        |        |      |
|     | BV 436            | 424    | 410    | 398    | 384    | 367    | 364    | 354    | 339    | 329    | 320    | 311    | 305    | 296    | 290    | 278    | 265    | 251    |      |
| 140 | Ot 61.4           | 57.4   | 54.8   | 53.2   | 50.9   | 46.6   | 46.5   | 42.5   | 39.7   | 35.7   | 36     | 32.2   |        |        |        |        |        |        |      |
|     | B 352             | 346    | 341    | 336    | 331    | 325    | 322    | 314    | 305    | 296    | 287    | 277    |        |        |        |        |        |        |      |
|     | BV 411            | 402    | 391    | 379    | 367    | 354    | 349    | 339    | 324    | 315    | 305    | 297    | 291    | 283    | 279    | 270    | 263    | 249    |      |
| 150 | Ot 50             | 46.3   | 43.9   | 42.1   | 39.8   | 35.6   | 35.5   | 31.7   | 28.9   | 25     | 25.3   | 21.5   |        |        |        |        |        |        |      |
|     | B 323             | 319    | 315    | 311    | 307    | 301    | 299    | 293    | 287    | 280    | 272    | 263    |        |        |        |        |        |        |      |
|     | BV 384            | 378    | 371    | 362    | 351    | 340    | 335    | 325    | 311    | 302    | 293    | 285    | 279    | 271    | 267    | 259    | 254    | 245    |      |
| 160 | Ot 40.1           | 36.3   | 33.8   | 32.2   | 30.2   | 26     | 25.9   | 22     | 19.3   |        |        |        |        |        |        |        |        |        |      |
|     | B 298             | 294    | 290    | 287    | 284    | 279    | 278    | 273    | 268    | 262    | 257    | 249    |        |        |        |        |        |        |      |
|     | BV 356            | 353    | 349    | 342    | 334    | 325    | 321    | 312    | 299    | 290    | 282    | 273    | 268    | 260    | 256    | 248    | 244    | 236    |      |
| 170 | Ot 31.2           | 27.4   | 24.9   | 23.6   | 21.5   |        | 17.2   |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 275             | 271    | 266    | 266    | 263    | 258    | 257    | 253    | 248    | 243    | 240    | 234    |        |        |        |        |        |        |      |
|     | BV 331            | 328    | 323    | 320    | 314    | 309    | 305    | 298    | 287    | 279    | 272    | 263    | 258    | 250    | 246    | 238    | 234    | 226    |      |
| 180 | Ot 23.3           | 19.5   | 17.2   | 15.7   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 254             | 251    | 249    | 246    | 243    | 239    | 238    | 234    | 230    | 226    | 224    | 218    |        |        |        |        |        |        |      |
|     | BV 308            | 305    | 301    | 298    | 294    | 289    | 288    | 282    | 274    | 266    | 260    | 253    | 248    | 241    | 237    | 229    | 225    | 217    |      |
| 190 | Ot 16.1           | 12.3   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 235             | 232    | 231    | 228    | 225    | 222    | 221    | 216    | 213    | 209    | 208    | 203    |        |        |        |        |        |        |      |
|     | BV 287            | 284    | 281    | 278    | 275    | 270    | 269    | 264    | 258    | 253    | 248    | 242    | 238    | 231    | 228    | 221    | 217    | 209    |      |
| 200 | Ot 219            | 215    | 214    | 212    | 209    | 206    | 205    | 201    | 197    | 193    | 192    | 188    |        |        |        |        |        |        |      |
|     | B 268             | 265    | 262    | 259    | 257    | 252    | 251    | 247    | 243    | 238    | 235    | 230    | 227    | 221    | 218    | 212    | 208    | 201    |      |
| 220 | Ot 190            | 187    | 185    | 183    | 181    | 177    | 177    | 173    | 170    | 166    | 166    | 161    |        |        |        |        |        |        |      |
|     | B 235             | 233    | 230    | 227    | 224    | 220    | 220    | 216    | 212    | 208    | 207    | 203    | 202    | 198    | 197    | 192    | 190    | 184    |      |
| 240 | Ot 165            | 163    | 161    | 159    | 157    | 154    | 153    | 150    | 147    | 143    | 142    | 138    |        |        |        |        |        |        |      |
|     | B 207             | 206    | 203    | 201    | 198    | 194    | 193    | 189    | 186    | 182    | 181    | 177    | 177    | 173    | 173    | 169    | 168    | 164    |      |
| 260 | Ot 145            | 142    | 140    | 138    | 137    | 134    | 134    | 130    | 127    | 123    | 122    | 118    |        |        |        |        |        |        |      |
|     | B 183             | 181    | 179    | 177    | 175    | 172    | 171    | 167    | 164    | 160    | 159    | 155    | 155    | 150    | 151    | 147    | 147    | 143    |      |
| 280 | Ot 127            | 124    | 123    | 121    | 120    | 116    | 116    | 113    | 110    | 106    | 105    | 101    |        |        |        |        |        |        |      |
|     | B 162             | 160    | 158    | 156    | 154    | 151    | 151    | 147    | 145    | 141    | 140    | 136    | 136    | 132    | 132    | 128    | 128    | 125    |      |
| 300 | Ot 112            | 109    | 107    | 105    | 104    | 100    | 99.9   | 96.9   | 94.2   | 90.6   | 89.9   | 86.4   |        |        |        |        |        |        |      |
|     | B 144             | 142    | 140    | 136    | 134    | 134    | 134    | 131    | 128    | 124    | 123    | 120    | 120    | 116    | 116    | 112    | 112    | 109    |      |
| 320 | Ot 98.9           | 95.4   | 93.5   | 91.2   | 89.7   | 86     | 85.6   | 82.1   | 79.8   | 76.6   | 76.3   | 72.6   |        |        |        |        |        |        |      |
|     | B 128             | 126    | 123    | 116    | 115    | 118    | 118    | 115    | 113    | 109    | 109    | 105    | 105    | 105    | 101    | 101    | 97.9   | 98.3   | 94.7 |
| 340 | Ot 81.3           | 78.9   | 77.2   | 73.5   | 72.8   | 70.5   | 72.8   | 69.7   | 67.3   | 63.9   | 63.4   | 60.1   |        |        |        |        |        |        |      |
|     | B 105             | 96.1   | 96.2   | 104    | 104    | 104    | 104    | 101    | 99.1   | 95.9   | 95.2   | 91.9   | 91.6   | 88.3   | 88     | 84.7   | 85     | 81.7   |      |
| 360 | Ot 62.5           | 61.9   | 58.5   | 56.1   | 52.7   | 52.4   | 49.1   |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 92              | 91.5   | 88.8   | 86.6   | 83.7   | 83.3   | 80.3   | 79.9   | 76.4   | 76.3   | 73.1   | 73.7   | 70.3   |        |        |        |        |        |      |
| 380 | Ot 48.6           | 46.3   | 42.9   | 42.4   | 39     |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 77.8            | 75.7   | 72.8   | 72.4   | 69.4   |        |        |        |        |        |        |        | 69.3   | 66.3   | 66     | 62.6   | 62.9   | 59.8   |      |
| 400 | Ot 34.2           | 33.5   | 30.5   | 30.5   | 30.5   |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 63              | 62.4   | 59.5   | 59.5   | 59.5   |        |        |        |        |        |        |        | 59.5   | 56.7   | 56.4   | 53.3   | 53.9   | 50.6   |      |
| 420 | Ot 50.5           | 47.7   | 47.5   | 44.6   | 45.2   | 42.2   |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 50.5            | 47.7   | 47.5   | 44.6   | 45.2   | 42.2   |        |        |        |        |        |        |        |        |        |        |        |        |      |
| 440 | Ot 39.3           | 36.5   | 37.3   | 34.5   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 39.3            | 36.5   | 37.3   | 34.5   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
| 460 | Ot 27.5           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|     | B 27.5            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |

# Lifting heights

## Hauteurs de levage

# HSL9DB/BV





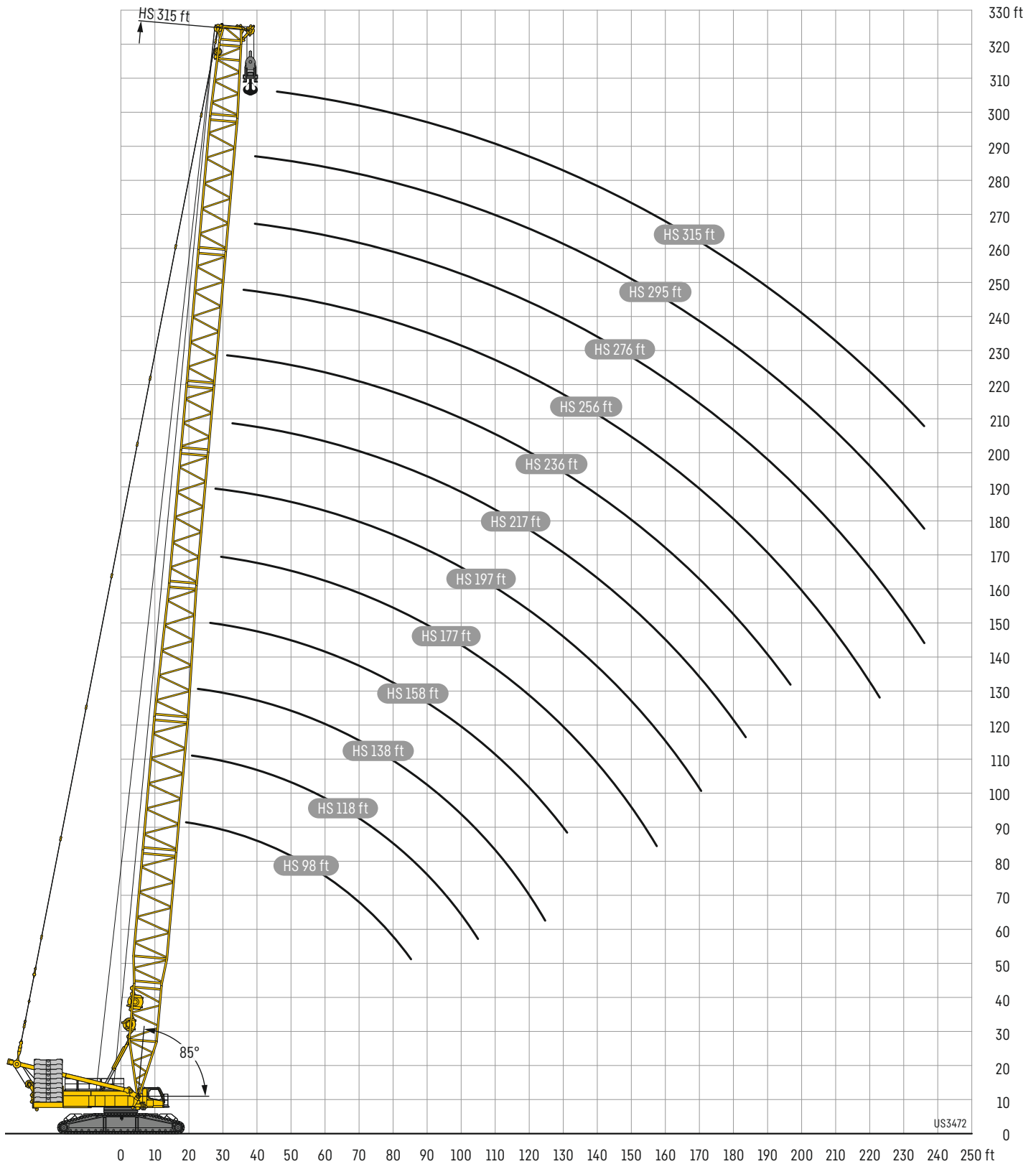
|                      |
|----------------------|
| 418,900 - 507,100 lb |
| 286,600 - 416,700 lb |
| 154,300 - 284,400 lb |
| 0 lb                 |

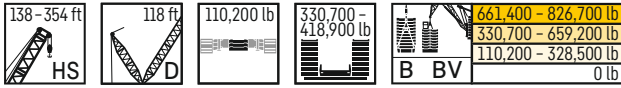
| HS 98 - 315 ft |       |        |        |        |        |        |        |        |        |        |        |        |     |
|----------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| ft             | 98 ft | 118 ft | 138 ft | 158 ft | 177 ft | 197 ft | 217 ft | 236 ft | 256 ft | 276 ft | 295 ft | 315 ft | ft  |
| 19             | 1322  |        |        |        |        |        |        |        |        |        |        |        | 19  |
| 20             | 1322  |        |        |        |        |        |        |        |        |        |        |        | 20  |
| 22             | 1319  | 1286   |        |        |        |        |        |        |        |        |        |        | 22  |
| 24             | 1240  | 1216   | 1215   |        |        |        |        |        |        |        |        |        | 24  |
| 26             | 1139  | 1134   | 1119   | 1088   |        |        |        |        |        |        |        |        | 26  |
| 28             | 1054  | 1043   | 1029   | 1002   | 960    |        |        |        |        |        |        |        | 28  |
| 30             | 972   | 967    | 954    | 919    | 892    | 849    |        |        |        |        |        |        | 30  |
| 32             | 903   | 901    | 879    | 857    | 824    | 794    | 758    |        |        |        |        |        | 32  |
| 34             | 841   | 838    | 826    | 798    | 769    | 742    | 710    | 677    |        |        |        |        | 34  |
| 36             | 788   | 784    | 776    | 745    | 723    | 694    | 667    | 637    | 609    |        |        |        | 36  |
| 38             | 742   | 738    | 727    | 706    | 676    | 653    | 628    | 602    | 578    | 548    |        |        | 38  |
| 40             | 698   | 694    | 684    | 667    | 640    | 617    | 593    | 568    | 548    | 524    | 494    |        | 40  |
| 50             | 539   | 535    | 527    | 516    | 494    | 476    | 460    | 443    | 428    | 412    | 396    | 379    | 50  |
| 60             | 434   | 430    | 422    | 413    | 396    | 382    | 370    | 356    | 346    | 334    | 323    | 311    | 60  |
| 70             | 354   | 352    | 345    | 340    | 326    | 315    | 305    | 295    | 286    | 276    | 269    | 260    | 70  |
| 80             | 292   | 289    | 283    | 282    | 275    | 265    | 257    | 248    | 240    | 232    | 226    | 218    | 80  |
| 90             | 246   | 243    | 237    | 235    | 231    | 226    | 219    | 211    | 205    | 197    | 192    | 185    | 90  |
| 100            |       | 208    | 202    | 200    | 195    | 192    | 189    | 181    | 176    | 169    | 165    | 158    | 100 |
| 110            |       |        | 174    | 172    | 167    | 164    | 163    | 157    | 152    | 146    | 142    | 136    | 110 |
| 120            |       |        | 152    | 149    | 144    | 141    | 140    | 136    | 132    | 126    | 123    | 117    | 120 |
| 130            |       |        |        | 131    | 126    | 122    | 121    | 118    | 115    | 110    | 106    | 101    | 130 |
| 140            |       |        |        | 116    | 110    | 107    | 105    | 102    | 100    | 95.2   | 92.4   | 87.4   | 140 |
| 150            |       |        |        |        | 96.9   | 93.4   | 91.4   | 88.1   | 86.4   | 82.9   | 80.2   | 75.3   | 150 |
| 160            |       |        |        |        |        | 82     | 79.8   | 76.4   | 74.6   | 71.6   | 69.5   | 64.7   | 160 |
| 170            |       |        |        |        |        | 72.3   | 69.8   | 66.4   | 64.5   | 61.3   | 60.1   | 55.3   | 170 |
| 180            |       |        |        |        |        |        | 61.2   | 57.5   | 55.5   | 52.3   | 51.4   | 46.9   | 180 |
| 190            |       |        |        |        |        |        | 53.6   | 49.8   | 47.8   | 44.4   | 43.5   | 39.4   | 190 |
| 200            |       |        |        |        |        |        |        | 43     | 40.8   | 37.3   | 36.3   | 32.6   | 200 |
| 220            |       |        |        |        |        |        |        |        | 29.2   | 25.5   | 24.3   | 21     | 220 |
| 240            |       |        |        |        |        |        |        |        |        | 16     | 14.6   | 11.2   | 240 |

# Lifting heights

## Hauteurs de levage

HS



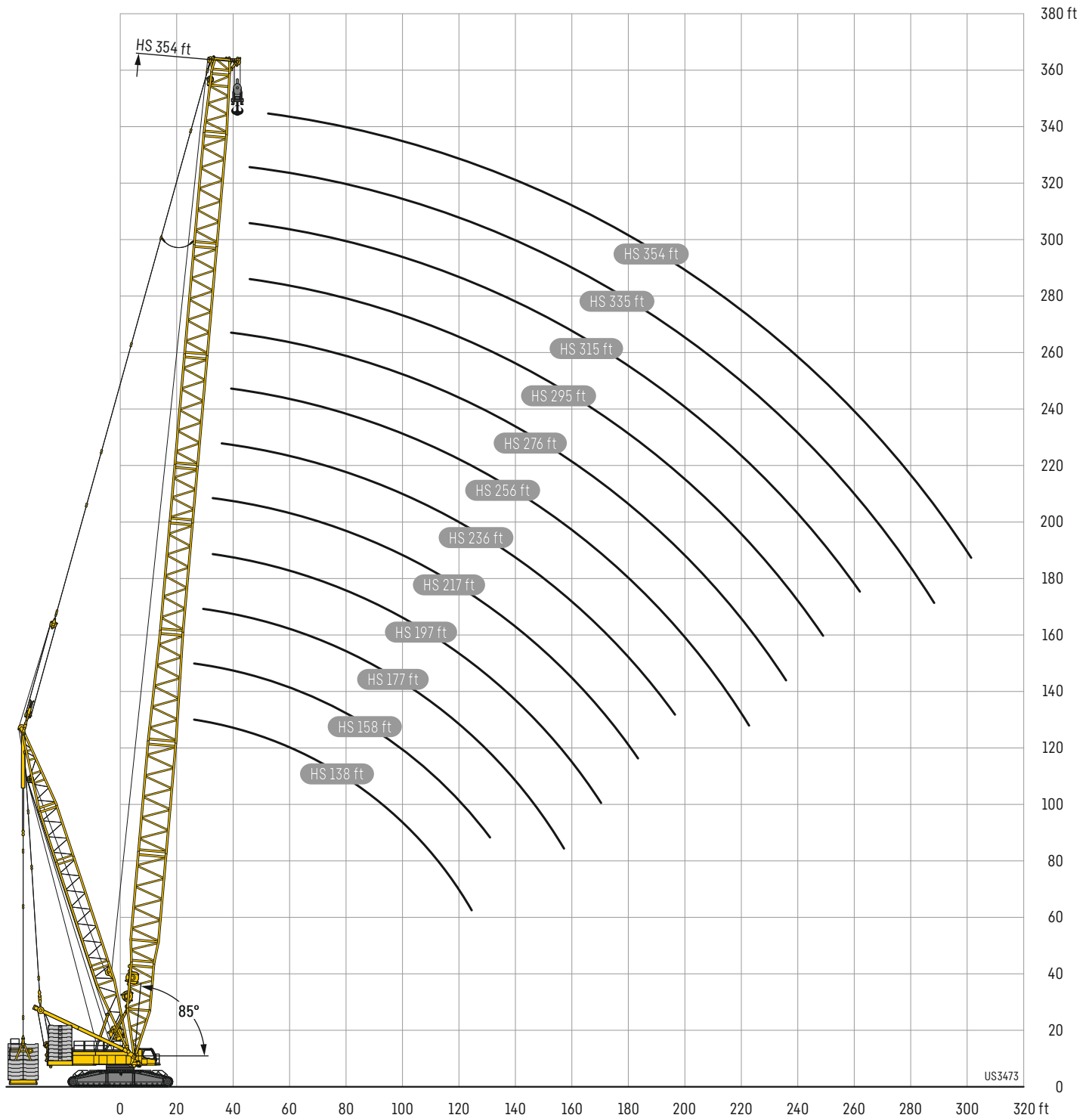


|     |    | HS 138 - 354 ft |        |        |        |        |        |        |        |        |        |        |        |     |
|-----|----|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| ft  |    | 138 ft          | 158 ft | 177 ft | 197 ft | 217 ft | 236 ft | 256 ft | 276 ft | 295 ft | 315 ft | 335 ft | 354 ft |     |
| 26  | Ot | 1133            |        |        |        |        |        |        |        |        |        |        |        |     |
|     | B  | 1322            |        |        |        |        |        |        |        |        |        |        |        |     |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |
| 28  | Ot | 1041            | 987    |        |        |        |        |        |        |        |        |        |        |     |
|     | B  | 1322            | 1322   |        |        |        |        |        |        |        |        |        |        |     |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |
| 30  | Ot | 963             | 925    | 871    |        |        |        |        |        |        |        |        |        |     |
|     | B  | 1322            | 1322   | 1322   |        |        |        |        |        |        |        |        |        |     |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |
| 32  | Ot | 908             | 857    | 806    | 767    |        |        |        |        |        |        |        |        |     |
|     | B  | 1322            | 1322   | 1322   | 1287   |        |        |        |        |        |        |        |        |     |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |
| 34  | Ot | 843             | 797    | 752    | 716    | 684    |        |        |        |        |        |        |        |     |
|     | B  | 1322            | 1322   | 1322   | 1289   | 1222   |        |        |        |        |        |        |        |     |
|     | BV | 1322            | 1322   | 1322   |        |        |        |        |        |        |        |        |        |     |
| 36  | Ot | 785             | 744    | 703    | 671    | 642    | 615    |        |        |        |        |        |        |     |
|     | B  | 1322            | 1322   | 1322   | 1291   | 1224   | 1095   |        |        |        |        |        |        |     |
|     | BV | 1322            | 1322   | 1322   | 1302   |        |        |        |        |        |        |        |        |     |
| 38  | Ot | 734             | 696    | 659    | 629    | 604    | 580    | 558    |        |        |        |        |        |     |
|     | B  | 1322            | 1322   | 1322   | 1293   | 1225   | 1094   | 981    |        |        |        |        |        |     |
|     | BV | 1321            | 1322   | 1322   | 1307   | 1241   |        |        |        |        |        |        |        |     |
| 40  | Ot | 689             | 655    | 621    | 594    | 570    | 547    | 528    | 508    |        |        |        |        |     |
|     | B  | 1322            | 1322   | 1322   | 1295   | 1225   | 1092   | 979    | 876    |        |        |        |        |     |
|     | BV | 1314            | 1322   | 1322   | 1310   | 1244   | 1118   |        |        |        |        |        |        |     |
| 50  | Ot | 522             | 499    | 474    | 456    | 439    | 424    | 410    | 397    | 384    | 370    | 359    | 347    |     |
|     | B  | 1251            | 1232   | 1219   | 1202   | 1153   | 1082   | 972    | 870    | 779    | 699    | 628    | 563    |     |
|     | BV | 1238            | 1251   | 1285   | 1240   | 1186   | 1116   | 1001   | 881    | 796    | 712    | 637    | 570    |     |
| 60  | Ot | 416             | 398    | 378    | 364    | 351    | 339    | 330    | 320    | 310    | 299    | 290    | 280    |     |
|     | B  | 1075            | 1063   | 1050   | 1037   | 1023   | 996    | 931    | 862    | 773    | 694    | 624    | 559    |     |
|     | BV | 1152            | 1147   | 1130   | 1108   | 1073   | 1030   | 960    | 881    | 797    | 713    | 638    | 570    |     |
| 70  | Ot | 341             | 327    | 310    | 298    | 288    | 279    | 272    | 263    | 256    | 246    | 239    | 231    |     |
|     | B  | 919             | 912    | 902    | 891    | 883    | 872    | 852    | 818    | 764    | 688    | 619    | 556    |     |
|     | BV | 993             | 985    | 974    | 963    | 954    | 936    | 883    | 844    | 792    | 713    | 639    | 569    |     |
| 80  | Ot | 279             | 274    | 260    | 250    | 241    | 233    | 227    | 220    | 214    | 206    | 199    | 192    |     |
|     | B  | 800             | 794    | 785    | 780    | 772    | 765    | 757    | 745    | 723    | 677    | 613    | 550    |     |
|     | BV | 865             | 859    | 849    | 844    | 836    | 827    | 807    | 780    | 750    | 700    | 638    | 568    |     |
| 90  | Ot | 233             | 229    | 221    | 211    | 204    | 197    | 192    | 186    | 180    | 173    | 168    | 161    |     |
|     | B  | 709             | 701    | 693    | 686    | 683    | 678    | 671    | 665    | 655    | 636    | 601    | 539    |     |
|     | BV | 768             | 759    | 751    | 743    | 740    | 734    | 727    | 711    | 690    | 648    | 617    | 568    |     |
| 100 | Ot | 198             | 194    | 187    | 181    | 174    | 168    | 164    | 158    | 153    | 147    | 142    | 136    |     |
|     | B  | 633             | 628    | 617    | 613    | 608    | 604    | 602    | 596    | 589    | 581    | 568    | 524    |     |
|     | BV | 687             | 681    | 670    | 665    | 660    | 656    | 653    | 646    | 634    | 598    | 570    | 538    |     |
| 110 | Ot | 171             | 166    | 159    | 155    | 150    | 144    | 140    | 136    | 131    | 125    | 120    | 115    |     |
|     | B  | 570             | 566    | 557    | 551    | 548    | 544    | 541    | 538    | 534    | 526    | 519    | 496    |     |
|     | BV | 615             | 614    | 606    | 599    | 595    | 591    | 588    | 584    | 579    | 554    | 530    | 501    |     |
| 120 | Ot | 149             | 144    | 137    | 133    | 130    | 124    | 121    | 116    | 112    | 107    | 102    | 97.1   |     |
|     | B  | 495             | 514    | 506    | 501    | 496    | 493    | 491    | 487    | 484    | 479    | 474    | 464    |     |
|     | BV | 536             | 558    | 550    | 545    | 540    | 536    | 534    | 529    | 527    | 516    | 495    | 468    |     |
| 130 | Ot |                 | 126    | 119    | 114    | 112    | 108    | 104    | 100    | 96.1   | 90.9   | 87.1   | 81.9   |     |
|     | B  |                 | 470    | 462    | 457    | 453    | 449    | 447    | 444    | 441    | 437    | 434    | 427    |     |
|     | BV |                 | 511    | 503    | 498    | 494    | 490    | 488    | 484    | 481    | 477    | 464    | 441    |     |
| 140 | Ot |                 | 111    | 103    | 99.2   | 96.4   | 93.6   | 90.4   | 86     | 82.4   | 77.3   | 73.6   | 68.8   |     |
|     | B  |                 | 420    | 425    | 420    | 417    | 412    | 410    | 407    | 405    | 400    | 397    | 393    |     |
|     | BV |                 | 457    | 463    | 459    | 455    | 450    | 448    | 444    | 442    | 437    | 432    | 415    |     |
| 150 | Ot |                 |        | 90.8   | 86.3   | 83.2   | 80.5   | 78.3   | 74     | 70.5   | 65.4   | 61.8   | 57.3   |     |
|     | B  |                 |        | 393    | 387    | 384    | 381    | 378    | 374    | 372    | 369    | 366    | 361    |     |
|     | BV |                 |        | 429    | 424    | 420    | 416    | 414    | 409    | 408    | 404    | 400    | 391    |     |
| 160 | Ot |                 |        |        | 75.4   | 72.1   | 69.1   | 67.6   | 63.4   | 60     | 55     | 51.5   | 47.1   |     |
|     | B  |                 |        |        | 359    | 355    | 352    | 350    | 346    | 344    | 340    | 338    | 334    |     |
|     | BV |                 |        |        | 393    | 388    | 385    | 384    | 380    | 377    | 373    | 371    | 365    |     |
| 170 | Ot |                 |        |        | 66.1   | 62.5   | 59.4   | 58.2   | 54.1   | 50.8   | 45.9   | 42.4   | 38     |     |
|     | B  |                 |        |        | 334    | 330    | 326    | 325    | 322    | 319    | 315    | 312    | 309    |     |
|     | BV |                 |        |        | 366    | 362    | 358    | 356    | 353    | 351    | 346    | 343    | 340    |     |
| 180 | Ot |                 |        |        |        | 54.3   | 50.8   | 49.4   | 45.8   | 42.7   | 37.7   | 34.3   | 29.9   |     |
|     | B  |                 |        |        |        | 308    | 304    | 302    | 299    | 297    | 293    | 290    | 286    |     |
|     | BV |                 |        |        |        | 339    | 334    | 332    | 328    | 327    | 323    | 319    | 316    |     |
| 190 | Ot |                 |        |        |        | 47.3   | 43.4   | 41.9   | 38.6   | 35.3   | 30.5   | 27     | 22.6   |     |
|     | B  |                 |        |        |        | 289    | 284    | 282    | 279    | 277    | 273    | 270    | 266    |     |
|     | BV |                 |        |        |        | 318    | 313    | 311    | 307    | 305    | 302    | 298    | 294    |     |
| 200 | Ot |                 |        |        |        |        | 37     | 35.1   | 32.1   | 28.8   | 23.9   | 20.5   | 16.1   |     |
|     | B  |                 |        |        |        |        | 267    | 264    | 260    | 259    | 255    | 253    | 249    |     |
|     | BV |                 |        |        |        |        | 294    | 291    | 287    | 286    | 282    | 280    | 275    |     |
| 220 | Ot |                 |        |        |        |        |        | 24.1   | 20.8   | 17.9   | 12.7   |        |        |     |
|     | B  |                 |        |        |        |        |        | 233    | 229    | 228    | 224    | 221    | 218    |     |
|     | BV |                 |        |        |        |        |        | 258    | 254    | 252    | 248    | 246    | 242    |     |
| 240 | Ot |                 |        |        |        |        |        |        | 11.7   |        |        |        |        |     |
|     | B  |                 |        |        |        |        |        |        | 203    | 201    | 197    | 195    | 191    |     |
|     | BV |                 |        |        |        |        |        |        | 227    | 224    | 220    | 217    | 214    |     |
| 260 | Ot |                 |        |        |        |        |        |        |        |        |        | 175    | 168    |     |
|     | B  |                 |        |        |        |        |        |        |        |        |        | 197    | 190    |     |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |
| 280 | Ot |                 |        |        |        |        |        |        |        |        |        |        | 152    | 149 |
|     | B  |                 |        |        |        |        |        |        |        |        |        |        | 174    | 170 |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |
| 300 | Ot |                 |        |        |        |        |        |        |        |        |        |        |        | 132 |
|     | B  |                 |        |        |        |        |        |        |        |        |        |        |        | 152 |
|     | BV |                 |        |        |        |        |        |        |        |        |        |        |        |     |

# Lifting heights

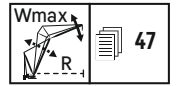
## Hauteurs de levage

HSDB/BV





|                      |
|----------------------|
| 418,900 - 507,100 lb |
| 286,600 - 416,700 lb |
| 154,300 - 284,400 lb |
| 0 lb                 |



|     |    | S2 118 ft            |                      |                      |                      |                     |                      |                     |                      |                     |                      |          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        |      |
|-----|----|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|---------------------|----------------------|---------------------|----------------------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------|----------------------|--------|----------------------|------|--------|------|
|     |    | W 79 ft              |                      | W 98 ft              |                      | W 118 ft            |                      | W 138 ft            |                      | W 158 ft            |                      | W 177 ft |                      | W 197 ft             |                      | W 217 ft             |                      | W 236 ft             |                      | W 256 ft             |                      | W 276 ft             |        | W 295 ft             |        | W 315 ft             |      |        |      |
|     |    | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*              | Wmax                 | 87/85*              | Wmax                 | 87/85*              | Wmax                 | 87/85*   | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax   | 87/85*               | Wmax   | 87/85*               | Wmax | 87/85* | Wmax |
| 38  | ft | 313.0                | 313.0                |                      |                      |                     |                      |                     |                      |                     |                      |          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 38   |
| 40  | ft | 670.0                | 670.0 <sup>(1)</sup> |                      |                      |                     |                      |                     |                      |                     |                      |          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 40   |
| 50  | ft | 531.0                | 531.0                | 512.0                | 512.0                | 495.0               | 495.0 <sup>(1)</sup> |                     |                      |                     |                      |          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 50   |
| 60  | ft | 438.0                | 438.0                | 423.0                | 423.0                | 411.0               | 411.0 <sup>(1)</sup> | 399.0               | 399.0                | 388.0               | 388.0                |          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 60   |
| 70  | ft | 367.0                | 367.0                | 360.0                | 360.0                | 350.0               | 350.0 <sup>(1)</sup> | 340.0               | 340.0                | 331.0               | 331.0                | 323.0    | 323.0                | 313.0                | 313.0                |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 70   |
| 80  | ft | 311.0                | 311.0                | 309.0                | 309.0                | 304.0               | 304.0                | 295.0               | 295.0                | 288.0               | 288.0                | 280.0    | 280.0 <sup>(2)</sup> | 272.0                | 284.0 <sup>(1)</sup> | 265.0                | 265.0                | 244.0                | 244.0                | 89.7                 | 89.7                 |                      |        |                      |        |                      |      |        | 80   |
| 90  | ft | 267.0                | 267.0                | 266.0                | 266.0                | 267.0               | 267.0                | 260.0               | 260.0                | 254.0               | 254.0                | 247.0    | 247.0                | 240.0                | 255.0 <sup>(1)</sup> | 234.0                | 234.0                | 227.0                | 227.0                | 208.0                | 208.0                | 180.0                | 180.0  | 66.1                 | 66.1   |                      |      |        | 90   |
| 100 | ft | 226.0 <sup>(1)</sup> | 233.0                | 233.0                | 233.0                | 233.0               | 231.0                | 231.0               | 226.0                | 226.0               | 220.0                | 220.0    | 214.0                | 226.0 <sup>(1)</sup> | 208.0                | 208.0 <sup>(1)</sup> | 202.0                | 204.0 <sup>(1)</sup> | 197.0                | 197.0                | 178.0*               | 178.0*               | 152.0  | 152.0 <sup>(1)</sup> | 130.0  | 130.0                |      |        | 100  |
| 110 | ft | 195.0 <sup>(1)</sup> | 206.0                | 206.0                | 206.0                | 206.0               | 204.0                | 204.0               | 203.0                | 203.0               | 198.0                | 198.0    | 192.0                | 197.0 <sup>(1)</sup> | 187.0                | 187.0                | 181.0                | 190.0 <sup>(1)</sup> | 177.0                | 177.0                | 170.0                | 170.0                | 150.0* | 150.0 <sup>(1)</sup> | 127.0  | 128.0 <sup>(1)</sup> |      |        | 110  |
| 120 | ft | 170.0 <sup>(1)</sup> | 175.0 <sup>(1)</sup> | 183.0                | 183.0 <sup>(1)</sup> | 182.0               | 182.0                | 181.0               | 181.0 <sup>(1)</sup> | 179.0               | 179.0                | 174.0    | 174.0                | 169.0                | 169.0                | 164.0                | 175.0 <sup>(1)</sup> | 160.0                | 168.0 <sup>(1)</sup> | 154.0                | 158.0 <sup>(1)</sup> | 145.0*               | 145.0* | 125.0*               | 125.0* |                      |      |        | 120  |
| 130 | ft | 146.0 <sup>(1)</sup> | 153.0 <sup>(1)</sup> | 164.0                | 164.0                | 163.0               | 163.0 <sup>(1)</sup> | 162.0               | 162.0 <sup>(1)</sup> | 161.0               | 161.0                | 158.0    | 158.0                | 153.0                | 153.0                | 148.0                | 161.0 <sup>(1)</sup> | 145.0                | 155.0 <sup>(1)</sup> | 139.0                | 146.0 <sup>(1)</sup> | 135.0                | 135.0  | 122.0*               | 122.0* |                      |      |        | 130  |
| 140 | ft | 123.0 <sup>(1)</sup> | 134.0 <sup>(1)</sup> | 140.0 <sup>(1)</sup> | 147.0                | 147.0               | 146.0                | 146.0               | 145.0                | 145.0               | 143.0                | 143.0    | 140.0                | 140.0                | 135.0                | 146.0 <sup>(1)</sup> | 132.0                | 142.0 <sup>(1)</sup> | 126.0                | 135.0 <sup>(1)</sup> | 122.0                | 122.0                | 116.0  | 116.0                |        |                      |      |        | 140  |
| 150 | ft | 105.0 <sup>(1)</sup> | 116.0 <sup>(1)</sup> | 124.0 <sup>(1)</sup> | 133.0                | 133.0               | 132.0                | 132.0               | 130.0                | 130.0               | 129.0                | 129.0    | 127.0                | 127.0                | 124.0                | 132.0 <sup>(1)</sup> | 121.0                | 130.0 <sup>(1)</sup> | 115.0                | 124.0 <sup>(1)</sup> | 111.0                | 112.0 <sup>(1)</sup> | 106.0  | 106.0                |        |                      |      |        | 150  |
| 160 | ft | 89.2 <sup>(1)</sup>  | 98.0 <sup>(1)</sup>  | 109.0 <sup>(1)</sup> | 113.0 <sup>(1)</sup> | 120.0               | 120.0 <sup>(1)</sup> | 119.0               | 119.0                | 116.0               | 116.0 <sup>(1)</sup> | 115.0    | 115.0                | 112.0                | 117.0 <sup>(1)</sup> | 110.0                | 117.0 <sup>(1)</sup> | 105.0                | 112.0 <sup>(1)</sup> | 102.0                | 102.0 <sup>(1)</sup> | 96.8                 | 96.8   |                      |        |                      |      |        | 160  |
| 170 | ft | 75.7 <sup>(1)</sup>  | 84.1 <sup>(1)</sup>  | 94.7 <sup>(1)</sup>  | 101.0 <sup>(1)</sup> | 109.0               | 109.0                | 108.0               | 108.0                | 106.0               | 106.0                | 104.0    | 104.0                | 102.0                | 103.0 <sup>(1)</sup> | 101.0                | 104.0 <sup>(1)</sup> | 96.7                 | 101.0 <sup>(1)</sup> | 92.9                 | 93.0 <sup>(1)</sup>  | 88.2                 | 88.2   |                      |        |                      |      |        | 170  |
| 180 | ft |                      | 70.8 <sup>(1)</sup>  | 80.1 <sup>(1)</sup>  | 89.1 <sup>(1)</sup>  | 92.2 <sup>(1)</sup> | 98.7                 | 98.7                | 96.6                 | 96.6                | 94.4                 | 94.4     | 92.3                 | 92.3                 | 91.3                 | 91.3                 | 87.8                 | 89.5 <sup>(1)</sup>  | 85.2                 | 85.2                 | 80.6                 | 80.6                 |        |                      |        |                      |      |        | 180  |
| 190 | ft |                      | 59.8 <sup>(1)</sup>  | 68.8 <sup>(1)</sup>  | 77.1 <sup>(1)</sup>  | 83.6 <sup>(1)</sup> | 90.4                 | 90.4                | 88.3                 | 88.3                | 86.1                 | 86.1     | 84.0                 | 84.0                 | 82.7                 | 82.7                 | 79.5                 | 79.5                 | 77.2                 | 77.2                 | 73.7                 | 73.7                 |        |                      |        |                      |      |        | 190  |
| 200 | ft |                      |                      | 57.4 <sup>(1)</sup>  | 64.7 <sup>(1)</sup>  | 74.0 <sup>(1)</sup> | 80.9                 | 80.9                | 78.8                 | 78.8                | 76.5                 | 76.5     | 75.1                 | 75.1                 | 71.8                 | 71.8                 | 69.7                 | 69.7                 | 66.5                 | 66.5                 |                      |                      |        |                      |        |                      |      |        | 200  |
| 220 | ft |                      |                      |                      | 45.3 <sup>(1)</sup>  | 53.4 <sup>(1)</sup> | 59.9 <sup>(1)</sup>  | 61.0 <sup>(1)</sup> | 66.0                 | 66.0                | 63.9                 | 63.9     | 62.2                 | 62.2                 | 58.8                 | 58.8                 | 56.6                 | 56.6                 | 53.3                 | 53.3                 |                      |                      |        |                      |        |                      |      |        | 220  |
| 240 | ft |                      |                      |                      |                      | 36.3 <sup>(1)</sup> | 42.0 <sup>(1)</sup>  | 47.8 <sup>(1)</sup> | 53.5                 | 51.6                | 51.6                 | 48.3     | 48.3                 | 46.1                 | 46.1                 | 42.8                 | 42.8                 | 40.6                 | 40.6                 |                      |                      |                      |        |                      |        |                      |      |        | 240  |
| 260 | ft |                      |                      |                      |                      |                     | 27.0 <sup>(1)</sup>  | 32.6 <sup>(1)</sup> | 37.9 <sup>(1)</sup>  | 42.7                | 42.7                 | 39.4     | 39.4                 | 37.3                 | 37.3                 | 34.0                 | 34.0                 |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 260  |
| 280 | ft |                      |                      |                      |                      |                     |                      | 19.6 <sup>(1)</sup> | 23.7 <sup>(1)</sup>  | 28.5 <sup>(1)</sup> | 31.9                 | 31.9     | 30.1                 | 30.1                 | 27.4                 | 27.4                 |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 280  |
| 300 | ft |                      |                      |                      |                      |                     |                      |                     | 15.0 <sup>(1)</sup>  | 20.9 <sup>(1)</sup> | 24.1                 | 24.1     | 22.1                 | 22.1                 | 21.5                 | 21.5                 |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 300  |
| 320 | ft |                      |                      |                      |                      |                     |                      |                     |                      |                     |                      |          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |        |                      |        |                      |      |        | 320  |

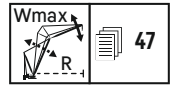
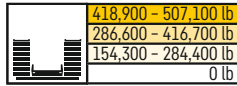


|                      |
|----------------------|
| 418,900 - 507,100 lb |
| 286,600 - 416,700 lb |
| 154,300 - 284,400 lb |
| 0 lb                 |

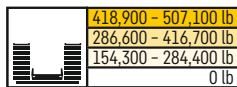
|     |    | S2 138 ft            |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |          |       |          |        |                      |        |                      |      |        |      |
|-----|----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|-------|----------|--------|----------------------|--------|----------------------|------|--------|------|
|     |    | W 79 ft              |                      | W 98 ft              |                      | W 118 ft             |                      | W 138 ft             |                      | W 158 ft             |                      | W 177 ft             |                      | W 197 ft             |                      | W 217 ft             |                      | W 236 ft             |                      | W 256 ft |       | W 276 ft |        | W 295 ft             |        | W 315 ft             |      |        |      |
|     |    | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*   | Wmax  | 87/85*   | Wmax   | 87/85*               | Wmax   | 87/85*               | Wmax | 87/85* | Wmax |
| 40  | ft | 640.0                | 640.0                |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |          |       |          |        |                      |        |                      |      |        | 40   |
| 50  | ft | 510.0                | 510.0                | 494.0                | 494.0                | 479.0                | 479.0                |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |          |       |          |        |                      |        |                      |      |        | 50   |
| 60  | ft | 423.0                | 423.0                | 410.0                | 410.0                | 399.0                | 409.0 <sup>(1)</sup> | 387.0                | 393.0 <sup>(1)</sup> | 375.0                | 375.0                |                      |                      |                      |                      |                      |                      |                      |                      |          |       |          |        |                      |        |                      |      |        | 60   |
| 70  | ft | 360.0                | 360.0 <sup>(1)</sup> | 349.0                | 349.0 <sup>(1)</sup> | 341.0                | 342.0 <sup>(1)</sup> | 331.0                | 338.0 <sup>(1)</sup> | 321.0                | 335.0 <sup>(1)</sup> | 312.0                | 322.0 <sup>(1)</sup> | 302.0                | 302.0                |                      |                      |                      |                      |          |       |          |        |                      |        |                      |      |        | 70   |
| 80  | ft | 308.0                | 308.0 <sup>(1)</sup> | 304.0                | 304.0                | 296.0                | 296.0                | 288.0                | 288.0                | 279.0                | 298.0 <sup>(1)</sup> | 272.0                | 298.0 <sup>(1)</sup> | 266.0                | 282.0 <sup>(1)</sup> | 257.0                | 257.0                | 231.0                | 231.0                |          |       |          |        |                      |        |                      |      |        | 80   |
| 90  | ft | 265.0                | 265.0 <sup>(1)</sup> | 266.0                | 266.0                | 261.0                | 261.0                | 254.0                | 254.0                | 246.0                | 261.0 <sup>(1)</sup> | 240.0                | 275.0 <sup>(1)</sup> | 235.0                | 262.0 <sup>(1)</sup> | 227.0                | 239.0 <sup>(1)</sup> | 221.0                | 221.0                | 197.0    | 197.0 | 172.0    | 172.0  |                      |        |                      |      |        | 90   |
| 100 | ft | 225.0 <sup>(1)</sup> | 232.0                | 232.0 <sup>(1)</sup> | 232.0                | 232.0                | 227.0                | 227.0                | 220.0                | 224.0 <sup>(1)</sup> | 214.0                | 252.0 <sup>(1)</sup> | 210.0                | 242.0 <sup>(1)</sup> | 202.0                | 222.0 <sup>(1)</sup> | 198.0                | 204.0 <sup>(1)</sup> | 191.0                | 191.0    | 167.0 | 167.0    | 146.0  | 146.0                | 125.0  | 125.0                |      |        | 100  |
| 110 | ft | 191.0 <sup>(1)</sup> | 204.0                | 204.0                | 205.0                | 205.0 <sup>(1)</sup> | 204.0                | 204.0                | 198.0                | 198.0                | 192.0                | 229.0 <sup>(1)</sup> | 188.0                | 222.0 <sup>(1)</sup> | 182.0                | 205.0 <sup>(1)</sup> | 178.0                | 189.0 <sup>(1)</sup> | 172.0                | 172.0    | 162.0 | 162.0    | 142.0  | 142.0 <sup>(1)</sup> | 122.0  | 122.0 <sup>(1)</sup> |      |        | 110  |
| 120 | ft | 167.0 <sup>(1)</sup> | 175.0 <sup>(1)</sup> | 183.0                | 183.0 <sup>(1)</sup> | 182.0                | 182.0                | 179.0                | 179.0                | 174.0                | 205.0 <sup>(1)</sup> | 171.0                | 202.0 <sup>(1)</sup> | 164.0                | 188.0 <sup>(1)</sup> | 161.0                | 175.0 <sup>(1)</sup> | 155.0                | 157.0 <sup>(1)</sup> | 149.0    | 149.0 | 138.0*   | 138.0* | 120.0*               | 120.0* |                      |      |        | 120  |
| 130 | ft | 145.0 <sup>(1)</sup> | 150.0 <sup>(1)</sup> | 164.0                | 164.0                | 163.0                | 163.0                | 161.0                | 161.0                | 159.0                | 182.0 <sup>(1)</sup> | 155.0                | 182.0 <sup>(1)</sup> | 149.0                | 171.0 <sup>(1)</sup> | 146.0                | 161.0 <sup>(1)</sup> | 141.0                | 145.0 <sup>(1)</sup> | 135.0    | 135.0 | 130.0    | 130.0  | 117.0*               | 117.0* |                      |      |        | 130  |
| 140 | ft | 123.0 <sup>(1)</sup> | 133.0 <sup>(1)</sup> | 140.0 <sup>(1)</sup> | 147.0                | 147.0                | 144.0                | 144.0 <sup>(1)</sup> | 144.0                | 144.0 <sup>(1)</sup> | 142.0                | 161.0 <sup>(1)</sup> | 136.0                | 154.0 <sup>(1)</sup> | 133.0                | 147.0 <sup>(1)</sup> | 128.0                | 133.0 <sup>(1)</sup> | 123.0                | 123.0    | 118.0 | 118.0    | 111.0  | 111.0                |        |                      |      |        | 140  |
| 150 | ft | 104.0 <sup>(1)</sup> | 116.0 <sup>(1)</sup> | 122.0 <sup>(1)</sup> | 132.0                | 132.0                | 131.0                | 131.0                | 129.0                | 136.0 <sup>(1)</sup> | 129.0                | 141.0 <sup>(1)</sup> | 125.0                | 137.0 <sup>(1)</sup> | 122.0                | 133.0 <sup>(1)</sup> | 117.0                | 121.0 <sup>(1)</sup> | 112.0                | 112.0    | 108.0 | 108.0    | 103.0  | 103.0                |        |                      |      |        | 150  |
| 160 | ft | 88.4 <sup>(1)</sup>  | 98.7 <sup>(1)</sup>  | 109.0 <sup>(1)</sup> | 113.0 <sup>(1)</sup> | 119.0                | 119.0                | 117.0                | 117.0                | 117.0                | 121.0 <sup>(1)</sup> | 114.0                | 120.0 <sup>(1)</sup> | 112.0                | 119.0 <sup>(1)</sup> | 107.0                | 109.0 <sup>(1)</sup> | 102.0                | 102.0 <sup>(1)</sup> | 98.3     | 98.3  | 93.5     | 93.5   |                      |        |                      |      |        | 160  |
| 170 | ft | 73.9 <sup>(1)</sup>  | 83.2 <sup>(1)</sup>  | 94.5 <sup>(1)</sup>  | 99.3 <sup>(1)</sup>  | 108.0                | 108.0                | 107.0                | 107.0                | 106.0                | 106.0 <sup>(1)</sup> | 103.0                | 104.0 <sup>(1)</sup> | 103.0                | 104.0 <sup>(1)</sup> | 98.5                 | 98.5                 | 93.7                 | 93.7                 | 89.9     | 89.9  | 85.2     | 85.2   |                      |        |                      |      |        | 170  |
| 180 | ft | 62.4 <sup>(1)</sup>  | 70.8 <sup>(1)</sup>  | 80.9 <sup>(1)</sup>  | 87.8 <sup>(1)</sup>  | 90.9 <sup>(1)</sup>  | 97.6                 | 97.6                 | 96.9                 | 96.9                 | 93.2                 | 93.2                 | 93.4                 | 93.4                 | 90.2                 | 90.2                 | 86.0                 | 86.0                 | 82.4                 | 82.4     | 77.8  | 77.8     |        |                      |        |                      |      |        | 180  |
| 190 | ft |                      | 58.8 <sup>(1)</sup>  | 67.8 <sup>(1)</sup>  | 76.7 <sup>(1)</sup>  | 80.6 <sup>(1)</sup>  | 89.2                 | 89.2                 | 88.5                 | 88.5                 | 85.0                 | 85.0                 | 84.8                 | 84.8                 | 81.7                 | 81.7                 | 78.5                 | 78.5                 | 75.6                 | 75.6     | 71.1  | 71.1     |        |                      |        |                      |      |        | 190  |
| 200 | ft |                      | 49.0 <sup>(1)</sup>  | 57.5 <sup>(1)</sup>  | 65.5 <sup>(1)</sup>  | 71.8 <sup>(1)</sup>  | 73.7 <sup>(1)</sup>  | 81.0                 | 8                    |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |          |       |          |        |                      |        |                      |      |        |      |

# S2W

# S2 158 - 177

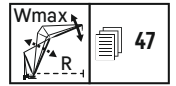
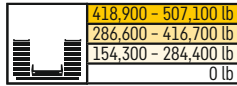


| ft  |  | S2 158 ft            |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                     |                     |                     | ft                  |                     |                     |        |          |       |          |      |        |      |
|-----|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|----------|-------|----------|------|--------|------|
|     |  | W 79 ft              |                      | W 98 ft              |                      | W 118 ft             |                      | W 138 ft             |                      | W 158 ft             |                      | W 177 ft             |                      | W 197 ft             |                      | W 217 ft             |                     | W 236 ft             |                     | W 256 ft            |                     |                     |                     | W 276 ft            |        | W 295 ft |       | W 315 ft |      |        |      |
|     |  | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                 | 87/85*               | Wmax                | 87/85*               | Wmax                | 87/85*              | Wmax                |                     |                     | 87/85*              | Wmax   | 87/85*   | Wmax  | 87/85*   | Wmax | 87/85* | Wmax |
| 50  |  | 492.0                | 509.0 <sup>(1)</sup> | 475.0                | 487.0 <sup>(1)</sup> | 275.0                | 275.0                |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                     |                     |                     |                     |                     |                     |        |          |       |          | 50   |        |      |
| 60  |  | 409.0                | 413.0 <sup>(1)</sup> | 396.0                | 427.0 <sup>(1)</sup> | 385.0                | 415.0 <sup>(1)</sup> | 374.0                | 384.0 <sup>(1)</sup> | 364.0                | 364.0                |                      |                      |                      |                      |                      |                     |                      |                     |                     |                     |                     |                     |                     |        |          |       |          | 60   |        |      |
| 70  |  | 350.0                | 350.0                | 338.0                | 367.0 <sup>(1)</sup> | 330.0                | 380.0 <sup>(1)</sup> | 321.0                | 355.0 <sup>(1)</sup> | 312.0                | 332.0 <sup>(1)</sup> | 302.0                | 310.0 <sup>(1)</sup> | 284.0                | 284.0                |                      |                     |                      |                     |                     |                     |                     |                     |                     |        |          |       |          | 70   |        |      |
| 80  |  | 304.0                | 304.0 <sup>(1)</sup> | 294.0                | 307.0 <sup>(1)</sup> | 287.0                | 345.0 <sup>(1)</sup> | 279.0                | 325.0 <sup>(1)</sup> | 273.0                | 307.0 <sup>(1)</sup> | 264.0                | 292.0 <sup>(1)</sup> | 258.0                | 269.0 <sup>(1)</sup> | 242.0                | 242.0               | 217.0                | 217.0               |                     |                     |                     |                     |                     |        |          |       |          | 80   |        |      |
| 90  |  | 264.0                | 264.0 <sup>(1)</sup> | 260.0                | 260.0                | 253.0                | 309.0 <sup>(1)</sup> | 247.0                | 295.0 <sup>(1)</sup> | 241.0                | 282.0 <sup>(1)</sup> | 233.0                | 275.0 <sup>(1)</sup> | 228.0                | 254.0 <sup>(1)</sup> | 220.0                | 220.0               | 209.0                | 209.0               | 186.0               | 186.0               | 163.0               | 163.0               |                     |        |          |       |          | 90   |        |      |
| 100 |  | 224.0*               | 224.0*               | 230.0                | 230.0 <sup>(1)</sup> | 226.0                | 274.0 <sup>(1)</sup> | 220.0                | 266.0 <sup>(1)</sup> | 215.0                | 257.0 <sup>(1)</sup> | 208.0                | 257.0 <sup>(1)</sup> | 204.0                | 239.0 <sup>(1)</sup> | 196.0                | 196.0               | 193.0                | 193.0               | 180.0               | 180.0               | 157.0               | 157.0               | 138.0               | 138.0  | 119.0    | 119.0 |          | 100  |        |      |
| 110 |  | 188.0 <sup>(1)</sup> | 203.0                | 203.0                | 203.0                | 238.0 <sup>(1)</sup> | 198.0                | 236.0 <sup>(1)</sup> | 194.0                | 231.0 <sup>(1)</sup> | 187.0                | 240.0 <sup>(1)</sup> | 183.0                | 224.0 <sup>(1)</sup> | 176.0                | 177.0 <sup>(1)</sup> | 173.0               | 173.0                | 167.0               | 167.0               | 153.0*              | 153.0*              | 134.0               | 134.0               | 116.0  | 116.0    |       |          | 110  |        |      |
| 120 |  | 164.0 <sup>(1)</sup> | 175.0*               | 175.0*               | 181.0                | 203.0 <sup>(1)</sup> | 180.0                | 206.0 <sup>(1)</sup> | 176.0                | 206.0 <sup>(1)</sup> | 169.0                | 223.0 <sup>(1)</sup> | 166.0                | 209.0 <sup>(1)</sup> | 159.0                | 161.0 <sup>(1)</sup> | 157.0               | 157.0 <sup>(1)</sup> | 151.0               | 151.0               | 143.0               | 143.0               | 131.0*              | 131.0*              | 113.0  | 113.0    |       |          | 120  |        |      |
| 130 |  | 143.0 <sup>(1)</sup> |                      | 147.0 <sup>(1)</sup> | 162.0                | 168.0 <sup>(1)</sup> | 161.0                | 177.0 <sup>(1)</sup> | 160.0                | 181.0 <sup>(1)</sup> | 154.0                | 205.0 <sup>(1)</sup> | 151.0                | 194.0 <sup>(1)</sup> | 145.0                | 146.0 <sup>(1)</sup> | 142.0               | 143.0 <sup>(1)</sup> | 137.0               | 137.0               | 131.0               | 131.0               | 125.0               | 125.0               | 110.0* | 110.0*   |       |          | 130  |        |      |
| 140 |  | 123.0 <sup>(1)</sup> |                      | 130.0 <sup>(1)</sup> |                      | 138.0 <sup>(1)</sup> | 145.0                | 147.0 <sup>(1)</sup> | 144.0                | 156.0 <sup>(1)</sup> | 141.0                | 188.0 <sup>(1)</sup> | 138.0                | 179.0 <sup>(1)</sup> | 132.0                | 132.0                | 130.0               | 130.0 <sup>(1)</sup> | 124.0               | 124.0               | 119.0               | 119.0               | 115.0               | 115.0               | 105.0  | 105.0    |       |          | 140  |        |      |
| 150 |  | 103.0 <sup>(1)</sup> |                      | 113.0 <sup>(1)</sup> |                      | 119.0 <sup>(1)</sup> | 131.0                | 131.0                | 131.0                | 131.0 <sup>(1)</sup> | 128.0                | 170.0 <sup>(1)</sup> | 127.0                | 164.0 <sup>(1)</sup> | 121.0                | 121.0                | 119.0               | 119.0                | 114.0               | 114.0               | 108.0               | 108.0               | 104.0               | 104.0               | 99.3   | 99.3     |       |          | 150  |        |      |
| 160 |  | 87.1 <sup>(1)</sup>  |                      | 97.7 <sup>(1)</sup>  |                      | 105.0 <sup>(1)</sup> |                      | 111.0 <sup>(1)</sup> | 119.0                | 119.0                | 116.0                | 153.0 <sup>(1)</sup> | 116.0                | 149.0 <sup>(1)</sup> | 111.0                | 111.0 <sup>(1)</sup> | 109.0               | 109.0                | 104.0               | 104.0               | 99.0                | 99.0                | 95.1                | 95.1                | 90.2   | 90.2     |       |          | 160  |        |      |
| 170 |  | 73.6 <sup>(1)</sup>  |                      | 82.3 <sup>(1)</sup>  |                      | 92.1 <sup>(1)</sup>  |                      | 96.1 <sup>(1)</sup>  | 108.0                | 108.0                | 105.0                | 135.0 <sup>(1)</sup> | 105.0                | 134.0 <sup>(1)</sup> | 101.0                | 101.0                | 101.0               | 101.0                | 95.5                | 95.5                | 90.7                | 90.7                | 86.9                | 86.9                | 82.2   | 82.2     |       |          | 170  |        |      |
| 180 |  | 60.2 <sup>(1)</sup>  |                      | 68.8 <sup>(1)</sup>  |                      | 79.6 <sup>(1)</sup>  |                      | 85.4 <sup>(1)</sup>  |                      | 90.8 <sup>(1)</sup>  | 96.2                 | 118.0 <sup>(1)</sup> | 95.6                 | 119.0 <sup>(1)</sup> | 92.0                 | 92.0                 | 92.2                | 92.2                 | 88.0                | 88.0                | 83.2                | 83.2                | 79.5                | 79.5                | 74.9   | 74.9     |       |          | 180  |        |      |
| 190 |  | 50.2 <sup>(1)</sup>  |                      | 57.7 <sup>(1)</sup>  |                      | 67.2 <sup>(1)</sup>  |                      | 74.2 <sup>(1)</sup>  |                      | 78.8 <sup>(1)</sup>  | 87.9                 | 100.0 <sup>(1)</sup> | 87.3                 | 104.0 <sup>(1)</sup> | 83.7                 | 83.7                 | 83.6                | 83.6                 | 80.7                | 80.7                | 76.4                | 76.4                | 72.9                | 72.9 <sup>(1)</sup> | 68.4   | 68.4     |       |          | 190  |        |      |
| 200 |  |                      |                      | 46.4 <sup>(1)</sup>  |                      | 55.7 <sup>(1)</sup>  |                      | 63.8 <sup>(1)</sup>  |                      | 69.9 <sup>(1)</sup>  |                      | 82.5 <sup>(1)</sup>  | 79.9                 | 89.3 <sup>(1)</sup>  | 76.5                 | 76.5                 | 76.1                | 76.1                 | 73.2                | 73.2                | 69.6                | 69.6                | 66.8                | 66.8                | 62.4   | 62.4     |       |          | 200  |        |      |
| 220 |  |                      |                      |                      |                      | 36.4 <sup>(1)</sup>  |                      | 43.3 <sup>(1)</sup>  |                      | 51.3 <sup>(1)</sup>  |                      | 55.2 <sup>(1)</sup>  |                      | 59.4 <sup>(1)</sup>  | 63.8                 | 63.8                 | 63.5                | 63.5                 | 60.2                | 60.2                | 56.8                | 56.8                | 54.6                | 54.6                | 51.3   | 51.3     |       |          | 220  |        |      |
| 240 |  |                      |                      |                      |                      |                      |                      | 26.4 <sup>(1)</sup>  |                      | 34.5 <sup>(1)</sup>  |                      | 39.8 <sup>(1)</sup>  |                      | 44.3 <sup>(1)</sup>  | 52.8                 | 52.8                 | 52.8                | 52.8                 | 49.7                | 49.7                | 46.4                | 46.4                | 44.1                | 44.1                | 40.8   | 40.8     |       |          | 240  |        |      |
| 260 |  |                      |                      |                      |                      |                      |                      |                      |                      | 15.4 <sup>(1)</sup>  |                      | 24.7 <sup>(1)</sup>  |                      | 31.7 <sup>(1)</sup>  | 40.9                 | 40.9                 | 40.9                | 40.9                 | 37.6                | 37.6                | 35.5                | 35.5                | 32.2                | 32.2                |        |          |       |          | 260  |        |      |
| 280 |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 12.7 <sup>(1)</sup>  | 22.2 <sup>(1)</sup>  | 22.2 <sup>(1)</sup>  | 22.2 <sup>(1)</sup> | 22.2 <sup>(1)</sup>  | 25.8 <sup>(1)</sup> | 25.8 <sup>(1)</sup> | 25.9 <sup>(1)</sup> | 25.9 <sup>(1)</sup> | 23.4                | 23.4                |        |          |       |          | 280  |        |      |
| 300 |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                     |                     |                     |                     | 18.1 <sup>(1)</sup> | 23.4                | 23.4   |          |       |          |      | 300    |      |
| 320 |  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                     |                      |                     |                     |                     |                     |                     |                     | 16.5   | 16.5     |       |          |      |        | 320  |



| ft  |  | S2 177 ft |                      |         |                      |          |                      |          |                      |          |                      |          |                     |          |                      |          |       |          |                      |          |                      | ft    |                      |          |        |          |        |          |      |        |
|-----|--|-----------|----------------------|---------|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|---------------------|----------|----------------------|----------|-------|----------|----------------------|----------|----------------------|-------|----------------------|----------|--------|----------|--------|----------|------|--------|
|     |  | W 79 ft   |                      | W 98 ft |                      | W 118 ft |                      | W 138 ft |                      | W 158 ft |                      | W 177 ft |                     | W 197 ft |                      | W 217 ft |       | W 236 ft |                      | W 256 ft |                      |       |                      | W 276 ft |        | W 295 ft |        | W 315 ft |      |        |
|     |  | 87/85*    | Wmax                 | 87/85*  | Wmax                 | 87/85*   | Wmax                 | 87/85*   | Wmax                 | 87/85*   | Wmax                 | 87/85*   | Wmax                | 87/85*   | Wmax                 | 87/85*   | Wmax  | 87/85*   | Wmax                 | 87/85*   | Wmax                 |       |                      | 87/85*   | Wmax   | 87/85*   | Wmax   | 87/85*   | Wmax | 87/85* |
| 50  |  | 475.0     | 517.0 <sup>(1)</sup> | 458.0   | 470.0 <sup>(1)</sup> |          |                      |          |                      |          |                      |          |                     |          |                      |          |       |          |                      |          |                      |       |                      |          |        |          |        |          | 50   |        |
| 60  |  | 396.0     | 470.0 <sup>(1)</sup> | 384.0   | 431.0 <sup>(1)</sup> | 373.0    | 399.0 <sup>(1)</sup> | 363.0    | 363.0                |          |                      |          |                     |          |                      |          |       |          |                      |          |                      |       |                      |          |        |          |        |          |      | 60     |
| 70  |  | 339.0     | 422.0 <sup>(1)</sup> | 329.0   | 392.0 <sup>(1)</sup> | 320.0    | 367.0 <sup>(1)</sup> | 312.0    | 312.0 <sup>(1)</sup> | 302.0    | 302.0                | 290.0    | 290.0               |          |                      |          |       |          |                      |          |                      |       |                      |          |        |          |        |          |      | 70     |
| 80  |  | 296.0     | 374.0 <sup>(1)</sup> | 286.0   | 353.0 <sup>(1)</sup> | 280.0    | 334.0 <sup>(1)</sup> | 272.0    | 272.0                | 264.0    | 264.0                | 258.0    | 258.0               | 248.0    | 248.0                | 224.0    | 224.0 |          |                      |          |                      |       |                      |          |        |          |        |          |      | 80     |
| 90  |  | 262.0     | 326.0 <sup>(1)</sup> | 253.0   | 314.0 <sup>(1)</sup> | 247.0    | 302.0 <sup>(1)</sup> | 241.0    | 241.0                | 234.0    | 234.0                | 228.0    | 228.0               | 221.0    | 221.0 <sup>(1)</sup> | 214.0    | 214.0 | 194.0    | 194.0                | 172.0    | 172.0                | 151.0 | 151.0                |          |        |          |        |          |      | 90     |
| 100 |  | 223.0*    | 278.0 <sup>(1)</sup> | 227.0   | 275.0 <sup>(1)</sup> | 221.0    | 270.0 <sup>(1)</sup> | 215.0    | 215.0                | 209.0    | 209.0                | 204.0    | 204.0               | 198.0    | 198.0                | 193.0    | 193.0 | 186.0    | 186.0                | 166.0    | 166.0                | 146.0 | 146.0                | 128.0    | 128.0  | 110.0    | 110.0  |          |      | 100    |
| 110 |  |           | 230.0 <sup>(1)</sup> | 202.0   | 237.0 <sup>(1)</sup> | 200.0    | 238.0 <sup>(1)</sup> | 194.0    | 194.0 <sup>(1)</sup> | 188.0    | 188.0                | 183.0    | 183.0               | 178.0    | 178.0                | 173.0    | 173.0 | 168.0    | 168.0                | 159.0    | 159.0 <sup>(1)</sup> | 141.0 | 141.0                | 124.0    | 124.0  | 107.0    | 107.0  |          |      | 110    |
| 120 |  |           | 182.0 <sup>(1)</sup> | 174.0*  | 198.0 <sup>(1)</sup> | 180.0    | 205.0 <sup>(1)</sup> | 176.0    | 176.0                | 171.0    | 171.0                | 166.0    | 166.0               | 161.0    | 161.0                | 157.0    | 157.0 | 152.0    | 152.0                | 146.0    | 146.0                | 135.0 | 135.0                | 121.0*   | 121.0* | 104.0    | 104.0  |          |      | 120    |
| 130 |  |           | 140.0 <sup>(1)</sup> |         | 159.0 <sup>(1)</sup> | 162.0    | 173.0 <sup>(1)</sup> | 160.0    | 160.0                | 155.0    | 155.0                | 151.0    | 151.0               | 146.0    | 146.0                | 142.0    | 142.0 | 138.0    | 138.0                | 132.0    | 132.0                | 126.0 | 126.0                | 116.0*   | 116.0* | 102.0*   | 102.0* |          |      | 130    |
| 140 |  |           | 122.0 <sup>(1)</sup> |         | 127.0 <sup>(1)</sup> | 140.0*   | 141.0 <sup>(1)</sup> | 145.0    | 145.0                | 141.0    | 141.0                | 138.0    | 138.0               | 134.0    | 134.0                | 130.0    | 130.0 | 126.0    | 126.0 <sup>(1)</sup> | 120.0    | 120.0                | 115.0 | 115.0 <sup>(1)</sup> | 110.0    | 110.0  | 97.6     | 97.6   |          |      | 140    |
| 150 |  |           | 104.0 <sup>(1)</sup> |         | 111.0 <sup>(1)</sup> |          | 118.0 <sup>(1)</sup> | 131.0    | 131.0                | 129.0    | 129.0 <sup>(1)</sup> | 126.0    | 126.0               | 122.0    | 122.0 <sup>(1)</sup> | 119.0    | 119.0 | 115.0    | 115.0                | 110.0    | 110.0 <sup>(1)</sup> | 105.0 | 105.0                | 101.0    | 101.0  | 94.0     | 94.0   |          |      | 150    |
| 160 |  |           | 86.5 <sup>(1)</sup>  |         | 96.6 <sup>(1)</sup>  |          | 104.0 <sup>(1)</sup> | 114.0*   | 114.0*               | 117.0    | 117.0                | 116.0    | 116.0               | 112.0    | 112.0                | 109.0    | 109.0 | 106.0    | 106.0                | 101.0    | 101.0                | 95.6  | 95.6                 | 91.8     | 91.8   | 86.9     | 86.9   |          |      | 160    |
| 170 |  |           | 72.8 <sup>(1)</sup>  |         | 82.6 <sup>(1)</sup>  |          | 90.8 <sup>(1)</sup>  |          | 95.4 <sup>(1)</sup>  | 107.0    | 107.0                | 106.0    | 106.0               | 103.0    | 103.0                | 100.0    | 100.0 | 97.1     | 97.1                 | 92.5     | 92.5                 | 87.5  | 87.5                 | 83.8     | 83.8   | 79.0     | 79.0   |          |      | 170    |
| 180 |  |           | 60.8 <sup>(1)</sup>  |         | 68.6 <sup>(1)</sup>  |          | 78.6 <sup>(1)</sup>  |          | 83.9 <sup>(1)</sup>  | 93.3*    | 93.3*                | 96.4     | 96.4 <sup>(1)</sup> | 94.2     | 94.2                 | 92.3     | 92.3  | 89.2     | 89.2                 | 84.9     | 84.9                 | 80.2  | 80.2                 | 76.6     | 76.6   | 71.9     | 71.9   |          |      | 180    |
| 190 |  |           | 48.6 <sup>(1)</sup>  |         | 57.1 <sup>(1)</sup>  |          | 67.1 <sup>(1)</sup>  |          | 72.6 <sup>(1)</sup>  |          | 76.4 <sup>(1)</sup>  | 88.0     | 88.0                | 86.0     | 86.0                 | 84.4     | 84.4  | 81.9     | 81.9                 | 77.9     | 77.9                 | 73.6  | 73.6                 | 70.1     | 70.1   | 65.6     | 65.6   |          |      | 190    |
| 200 |  |           | 39.8 <sup>(1)</sup>  |         | 47.0 <sup>(1)</sup>  |          | 55.6 <sup>(1)</sup>  |          | 62.9 <sup>(1)</sup>  |          | 67.4 <sup>(1)</sup>  | 76.8*    | 76.8*               | 78.7     | 78.7                 | 77.1     | 77.1  | 75.0     | 75.0                 | 71.5     | 71.5                 | 67.3  | 67.3                 | 64.3     | 64.3   | 59.8     | 59.8   |          |      | 200    |
| 220 |  |           |                      |         | 28.9 <sup>(1)</sup>  |          | 36.7 <sup>(1)</sup>  |          | 43.3 <sup>(1)</sup>  |          | 49.4 <sup>(1)</sup>  |          | 54.1 <sup>(1)</sup> | 62.7*    | 62.7*                | 64.3     | 64.3  | 62.4     | 62.4                 | 59.1     | 59.1                 | 55.7  | 55.7                 | 53.4     | 53.4   | 49.6     | 49.6   |          |      | 220    |
| 240 |  |           |                      |         |                      |          | 20.9 <sup>(1)</sup>  |          | 27.4 <sup>(1)</sup>  |          | 32.8 <sup>(1)</sup>  |          | 39.5 <sup>(1)</sup> |          |                      |          |       |          |                      |          |                      |       |                      |          |        |          |        |          |      |        |





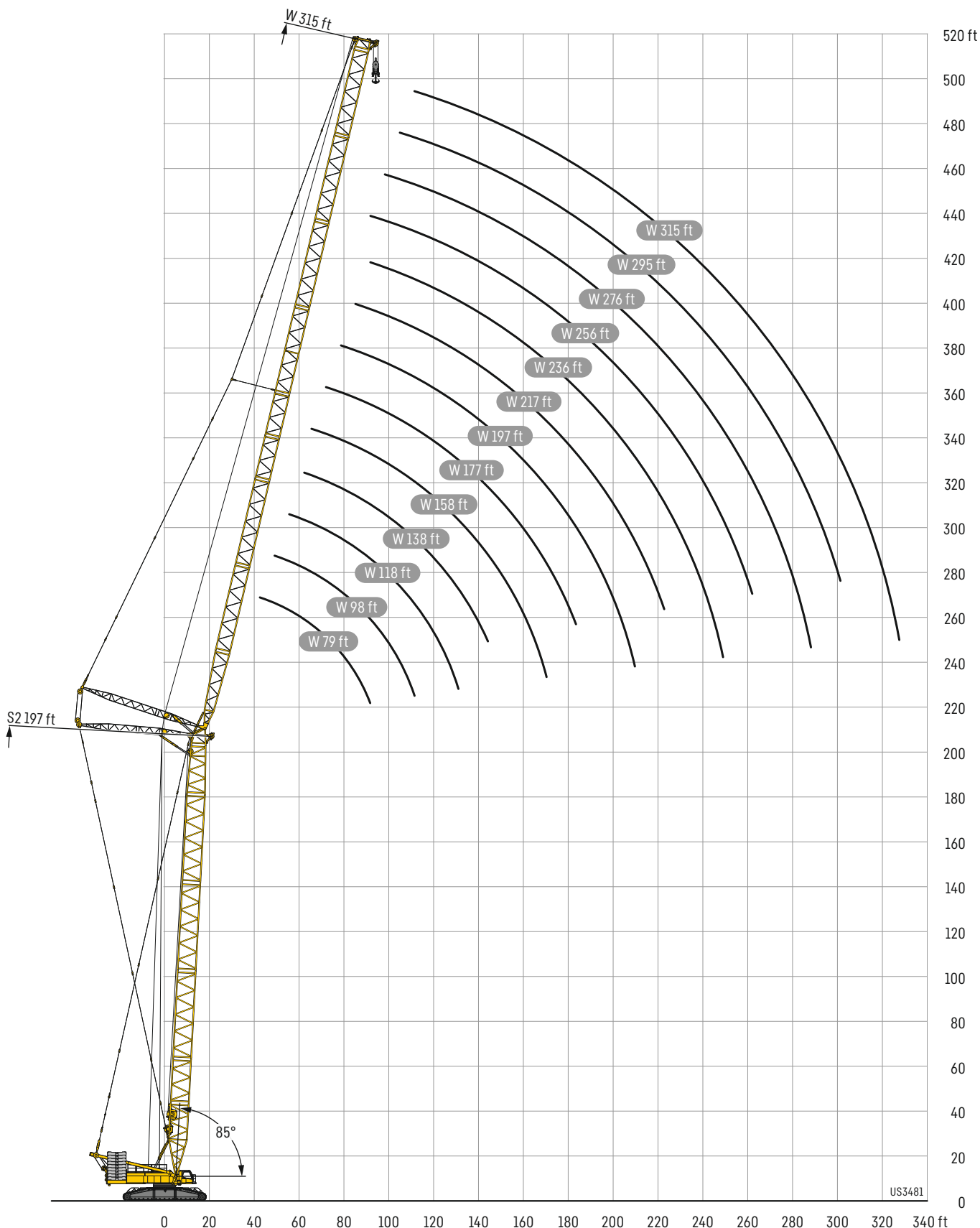
| ft  | S2 236 ft |                      |          |                      |          |                      | ft  |
|-----|-----------|----------------------|----------|----------------------|----------|----------------------|-----|
|     | W 158 ft  |                      | W 177 ft |                      | W 197 ft |                      |     |
|     | 87/85*    | Wmax                 | 87/85*   | Wmax                 | 87/85*   | Wmax                 |     |
| 70  | 225,0     | 225,0                |          |                      |          |                      | 70  |
| 80  | 212,0     | 212,0 <sup>(2)</sup> | 194,0    | 194,0                | 177,0    | 177,0                | 80  |
| 90  | 203,0*    | 203,0*               | 186,0*   | 186,0*               | 168,0    | 168,0                | 90  |
| 100 | 184,0     | 184,0                | 176,0*   | 176,0 <sup>(2)</sup> | 162,0*   | 162,0*               | 100 |
| 110 | 166,0     | 167,0 <sup>(4)</sup> | 159,0    | 159,0 <sup>(3)</sup> | 152,0*   | 152,0*               | 110 |
| 120 | 150,0*    | 151,0 <sup>(5)</sup> | 145,0*   | 145,0 <sup>(4)</sup> | 139,0*   | 139,0 <sup>(3)</sup> | 120 |
| 130 | 137,0*    | 137,0*               | 132,0*   | 132,0*               | 127,0*   | 127,0 <sup>(4)</sup> | 130 |
| 140 | 126,0*    | 126,0*               | 120,0*   | 120,0 <sup>(5)</sup> | 116,0*   | 116,0*               | 140 |
| 150 | 116,0*    | 116,0*               | 111,0*   | 111,0*               | 106,0*   | 106,0 <sup>(5)</sup> | 150 |
| 160 | 107,0*    | 107,0*               | 102,0*   | 102,0 <sup>(7)</sup> | 97,6*    | 97,6*                | 160 |
| 170 | 99,2*     | 99,2 <sup>(10)</sup> | 94,2*    | 94,2*                | 90,0*    | 90,0*                | 170 |
| 180 | 90,6*     | 90,6*                | 87,3*    | 87,3 <sup>(9)</sup>  | 83,3*    | 83,3*                | 180 |
| 190 |           | 75,9 <sup>(11)</sup> | 80,2*    | 80,2*                | 77,1*    | 77,1*                | 190 |
| 200 |           | 63,1 <sup>(11)</sup> | 73,0*    | 73,0*                | 71,1*    | 71,1*                | 200 |
| 220 |           | 45,1 <sup>(11)</sup> |          | 48,6 <sup>(11)</sup> | 58,9*    | 58,9*                | 220 |
| 240 |           | 25,8 <sup>(8)</sup>  |          | 33,1 <sup>(11)</sup> |          | 37,2 <sup>(11)</sup> | 240 |
| 260 |           | 11,1 <sup>(8)</sup>  |          |                      |          | 24,9 <sup>(11)</sup> | 260 |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°

# Lifting heights

## Hauteurs de levage

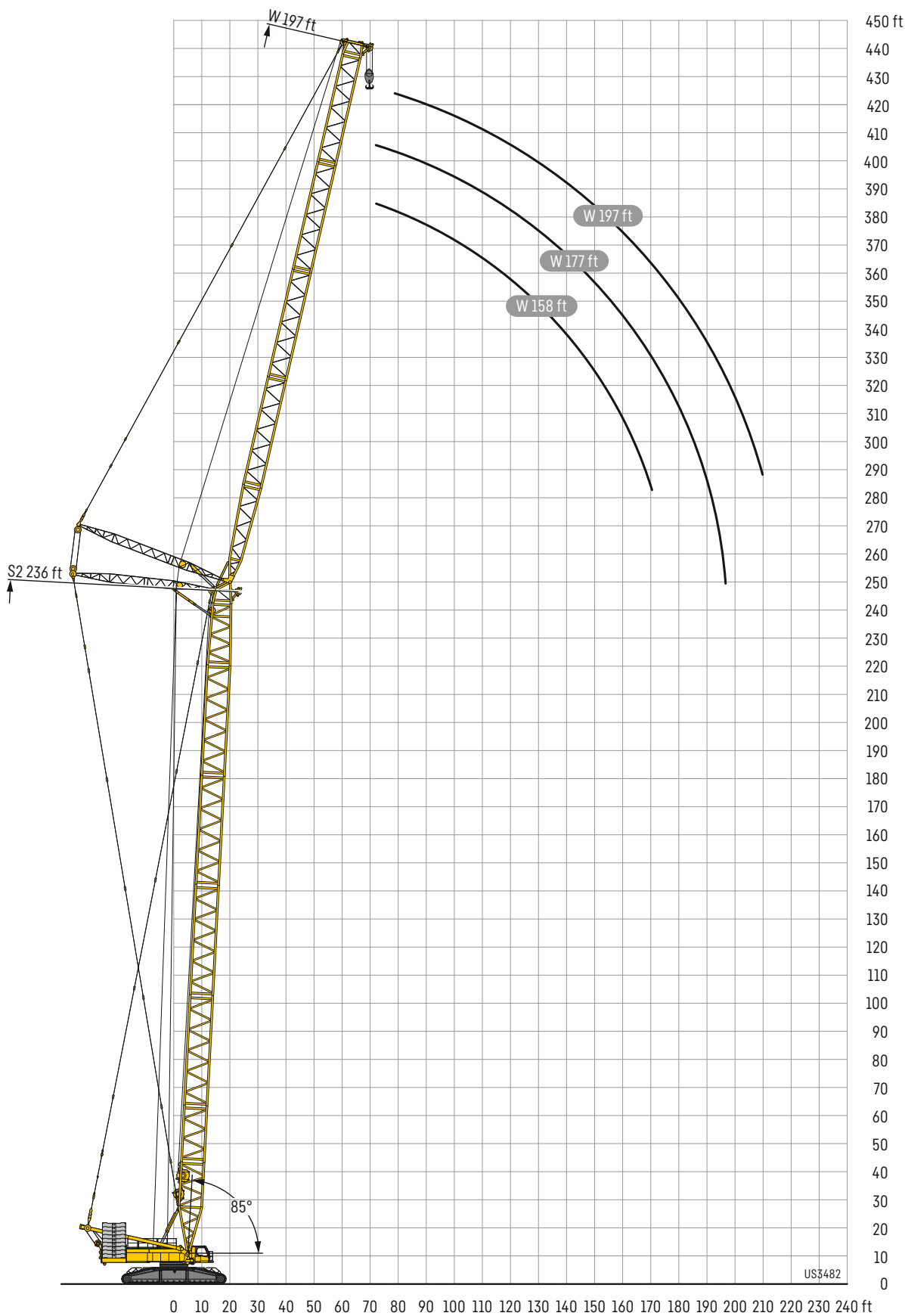
S2W

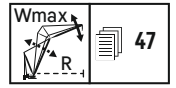
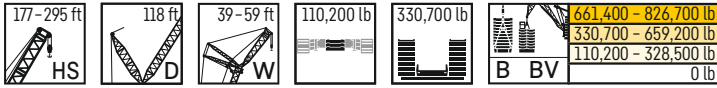


# Lifting heights

## Hauteurs de levage

S2W





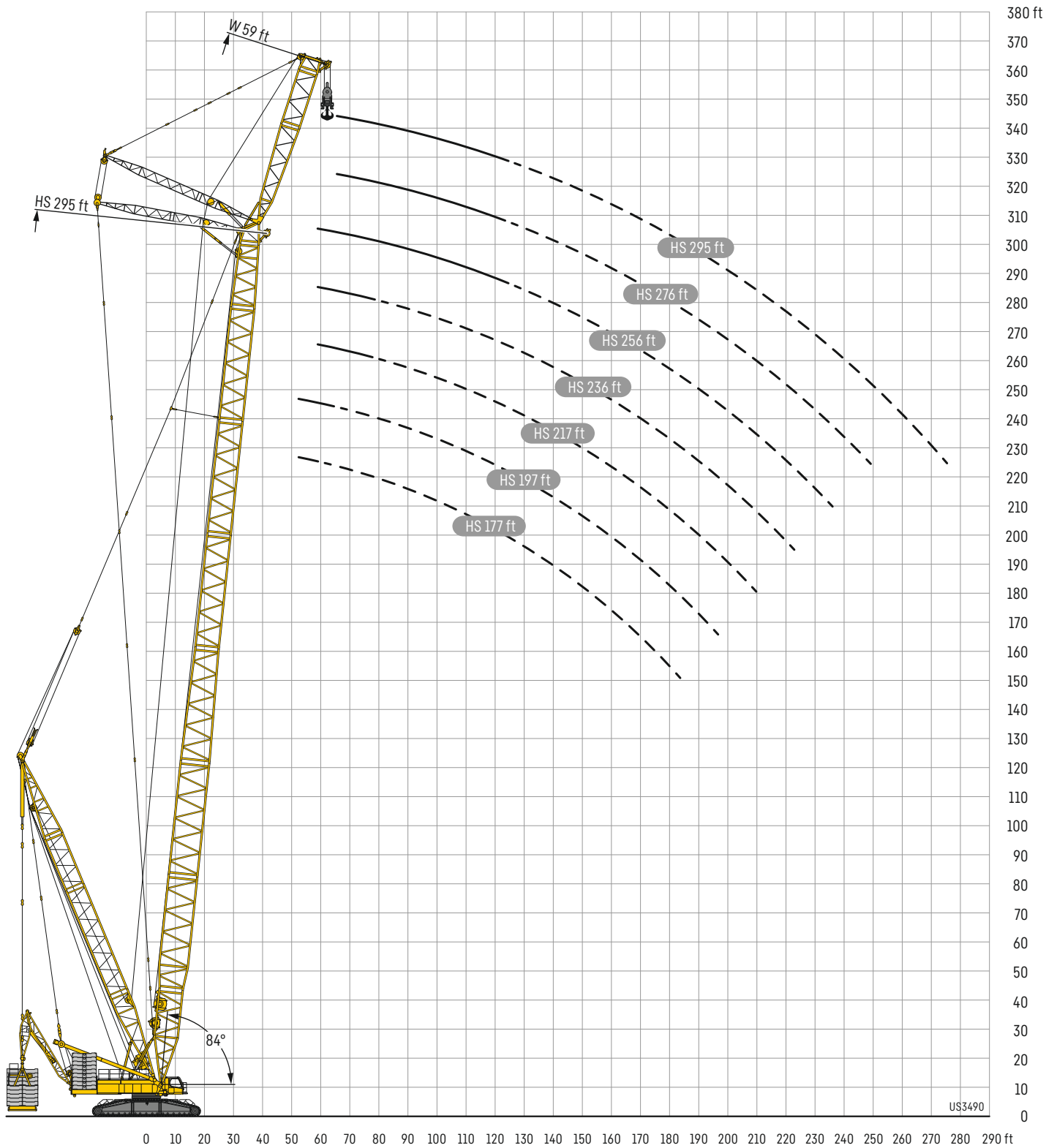
|     |    | HS 177 - 295 ft |                      |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           |                     |           |                     |       |                     |       |                     |  |
|-----|----|-----------------|----------------------|-----------|---------------------|--------|----------------------|-----------|---------------------|--------|---------------------|-----------|---------------------|--------|---------------------|-----------|---------------------|--------|---------------------|-----------|---------------------|-----------|---------------------|-------|---------------------|-------|---------------------|--|
|     |    | HS 177 ft       |                      | HS 197 ft |                     |        |                      | HS 217 ft |                     |        |                     | HS 236 ft |                     |        |                     | HS 256 ft |                     |        |                     | HS 276 ft |                     | HS 295 ft |                     |       |                     |       |                     |  |
|     |    | W39 ft          | W59 ft               | W39 ft    | W59 ft              | W39 ft | W59 ft               | W39 ft    | W59 ft              | W39 ft | W59 ft              | W39 ft    | W59 ft              | W39 ft | W59 ft              | W39 ft    | W59 ft              | W39 ft | W59 ft              | W39 ft    | W59 ft              |           |                     |       |                     |       |                     |  |
| ft  |    | 84              | Wmax                 | 84        | Wmax                | 84     | Wmax                 | 84        | Wmax                | 84     | Wmax                | 84        | Wmax                | 84     | Wmax                | 84        | Wmax                | 84     | Wmax                | 84        | Wmax                | 84        | Wmax                |       |                     |       |                     |  |
| 45  | B  | 1077.0          | 1069.0 <sup>1)</sup> |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           |                     |           |                     |       |                     |       |                     |  |
|     | BV | 1077.0          | 1077.0 <sup>1)</sup> |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           |                     |           |                     |       |                     |       |                     |  |
| 50  | B  | 1014.0          | 1046.0 <sup>1)</sup> | 821.0     | 821.0 <sup>1)</sup> | 949.0  | 972.0 <sup>1)</sup>  |           |                     | 865.0  | 875.0 <sup>1)</sup> |           |                     | 782.0  |                     |           |                     |        |                     |           |                     |           |                     |       |                     |       |                     |  |
|     | BV | 1032.0          | 1076.0 <sup>1)</sup> | 826.0     | 826.0 <sup>1)</sup> | 969.0  | 1001.0 <sup>1)</sup> |           |                     | 881.0  | 895.0 <sup>1)</sup> |           |                     | 797.0  |                     |           |                     |        |                     |           |                     |           |                     |       |                     |       |                     |  |
| 60  | B  |                 | 990.0 <sup>1)</sup>  | 846.0     | 849.0 <sup>3)</sup> |        | 938.0 <sup>1)</sup>  | 795.0     | 799.0 <sup>2)</sup> |        | 855.0 <sup>1)</sup> | 732.0     | 753.0 <sup>1)</sup> |        | 777.0 <sup>1)</sup> | 664.0     | 682.0 <sup>1)</sup> | 659.0  | 695.0 <sup>1)</sup> | 605.0     | 612.0 <sup>1)</sup> | 599.0     | 620.0 <sup>1)</sup> | 549.0 |                     |       |                     |  |
|     | BV |                 | 1059.0 <sup>1)</sup> | 860.0     | 865.0 <sup>3)</sup> |        | 994.0 <sup>1)</sup>  | 800.0     | 811.0 <sup>2)</sup> |        | 894.0 <sup>1)</sup> | 743.0     | 762.0 <sup>1)</sup> |        | 796.0 <sup>1)</sup> | 677.0     | 695.0 <sup>1)</sup> | 671.0  | 711.0 <sup>1)</sup> | 616.0     | 623.0 <sup>1)</sup> | 609.0     | 633.0 <sup>1)</sup> | 558.0 |                     |       |                     |  |
| 70  | B  |                 | 867.0 <sup>3)</sup>  |           | 844.0 <sup>2)</sup> |        | 848.0 <sup>3)</sup>  |           | 808.0 <sup>1)</sup> |        | 808.0 <sup>3)</sup> |           | 757.0 <sup>1)</sup> |        | 766.0 <sup>3)</sup> | 613.0     | 679.0 <sup>1)</sup> |        | 690.0 <sup>1)</sup> | 564.0     | 608.0 <sup>1)</sup> |           | 616.0 <sup>1)</sup> | 514.0 | 542.0 <sup>1)</sup> | 470.0 | 489.0 <sup>1)</sup> |  |
|     | BV |                 | 939.0 <sup>3)</sup>  |           | 879.0 <sup>2)</sup> |        | 920.0 <sup>3)</sup>  |           | 813.0 <sup>2)</sup> |        | 864.0 <sup>3)</sup> |           | 769.0 <sup>1)</sup> |        | 789.0 <sup>3)</sup> | 627.0     | 692.0 <sup>1)</sup> |        | 709.0 <sup>1)</sup> | 574.0     | 621.0 <sup>1)</sup> |           | 632.0 <sup>1)</sup> | 523.0 | 556.0 <sup>1)</sup> | 476.0 | 498.0 <sup>1)</sup> |  |
| 80  | B  |                 | 756.0 <sup>4)</sup>  |           | 755.0 <sup>3)</sup> |        | 749.0 <sup>4)</sup>  |           | 739.0 <sup>3)</sup> |        | 733.0 <sup>4)</sup> |           | 713.0 <sup>2)</sup> |        | 710.0 <sup>4)</sup> |           | 660.0 <sup>1)</sup> |        | 655.0 <sup>3)</sup> |           | 604.0 <sup>1)</sup> |           | 601.0 <sup>1)</sup> |       | 538.0 <sup>1)</sup> |       | 485.0 <sup>1)</sup> |  |
|     | BV |                 | 830.0 <sup>4)</sup>  |           | 827.0 <sup>3)</sup> |        | 821.0 <sup>4)</sup>  |           | 785.0 <sup>3)</sup> |        | 789.0 <sup>4)</sup> |           | 738.0 <sup>1)</sup> |        | 741.0 <sup>3)</sup> |           | 680.0 <sup>1)</sup> |        | 687.0 <sup>3)</sup> |           | 620.0 <sup>1)</sup> |           | 624.0 <sup>1)</sup> |       | 554.0 <sup>1)</sup> |       | 498.0 <sup>1)</sup> |  |
| 90  | B  |                 | 675.0 <sup>1)</sup>  |           | 671.0 <sup>4)</sup> |        | 663.0 <sup>1)</sup>  |           | 662.0 <sup>4)</sup> |        | 650.0 <sup>4)</sup> |           | 649.0 <sup>4)</sup> |        | 640.0 <sup>4)</sup> |           | 612.0 <sup>4)</sup> |        | 608.0 <sup>1)</sup> |           | 572.0 <sup>1)</sup> |           | 571.0 <sup>1)</sup> |       | 524.0 <sup>1)</sup> |       | 479.0 <sup>1)</sup> |  |
|     | BV |                 | 747.0 <sup>1)</sup>  |           | 735.0 <sup>3)</sup> |        | 733.0 <sup>1)</sup>  |           | 718.0 <sup>4)</sup> |        | 715.0 <sup>1)</sup> |           | 690.0 <sup>1)</sup> |        | 693.0 <sup>1)</sup> |           | 650.0 <sup>1)</sup> |        | 657.0 <sup>1)</sup> |           | 603.0 <sup>1)</sup> |           | 610.0 <sup>1)</sup> |       | 547.0 <sup>1)</sup> |       | 498.0 <sup>1)</sup> |  |
| 100 | B  |                 | 602.0 <sup>4)</sup>  |           | 602.0 <sup>1)</sup> |        | 596.0 <sup>1)</sup>  |           | 592.0 <sup>1)</sup> |        | 588.0 <sup>1)</sup> |           | 584.0 <sup>4)</sup> |        | 576.0 <sup>1)</sup> |           | 563.0 <sup>4)</sup> |        | 562.0 <sup>1)</sup> |           | 540.0 <sup>1)</sup> |           | 541.0 <sup>1)</sup> |       | 506.0 <sup>1)</sup> |       | 470.0 <sup>1)</sup> |  |
|     | BV |                 | 667.0 <sup>4)</sup>  |           | 667.0 <sup>1)</sup> |        | 661.0 <sup>1)</sup>  |           | 655.0 <sup>1)</sup> |        | 652.0 <sup>1)</sup> |           | 640.0 <sup>1)</sup> |        | 639.0 <sup>1)</sup> |           | 620.0 <sup>1)</sup> |        | 623.0 <sup>1)</sup> |           | 595.0 <sup>1)</sup> |           | 595.0 <sup>1)</sup> |       | 536.0 <sup>1)</sup> |       | 497.0 <sup>1)</sup> |  |
| 110 | B  |                 | 534.0 <sup>4)</sup>  |           | 543.0 <sup>3)</sup> |        | 535.0 <sup>4)</sup>  |           | 537.0 <sup>2)</sup> |        | 530.0 <sup>3)</sup> |           | 528.0 <sup>1)</sup> |        | 524.0 <sup>1)</sup> |           | 518.0 <sup>1)</sup> |        | 516.0 <sup>1)</sup> |           | 505.0 <sup>1)</sup> |           | 503.0 <sup>1)</sup> |       | 487.0 <sup>1)</sup> |       | 460.0 <sup>1)</sup> |  |
|     | BV |                 | 594.0 <sup>4)</sup>  |           | 602.0 <sup>3)</sup> |        | 594.0 <sup>4)</sup>  |           | 595.0 <sup>1)</sup> |        | 589.0 <sup>2)</sup> |           | 587.0 <sup>1)</sup> |        | 582.0 <sup>1)</sup> |           | 574.0 <sup>1)</sup> |        | 573.0 <sup>1)</sup> |           | 560.0 <sup>1)</sup> |           | 558.0 <sup>1)</sup> |       | 525.0 <sup>1)</sup> |       | 496.0 <sup>1)</sup> |  |
| 120 | B  |                 | 473.0 <sup>1)</sup>  |           | 490.0 <sup>4)</sup> |        | 475.0 <sup>4)</sup>  |           | 487.0 <sup>4)</sup> |        | 477.0 <sup>4)</sup> |           | 481.0 <sup>3)</sup> |        | 475.0 <sup>4)</sup> |           | 474.0 <sup>2)</sup> |        | 470.0 <sup>3)</sup> |           | 466.0 <sup>1)</sup> |           | 461.0 <sup>1)</sup> |       | 454.0 <sup>1)</sup> |       | 443.0 <sup>1)</sup> |  |
|     | BV |                 | 528.0 <sup>1)</sup>  |           | 544.0 <sup>4)</sup> |        | 530.0 <sup>4)</sup>  |           | 541.0 <sup>4)</sup> |        | 532.0 <sup>4)</sup> |           | 535.0 <sup>3)</sup> |        | 529.0 <sup>4)</sup> |           | 527.0 <sup>1)</sup> |        | 523.0 <sup>2)</sup> |           | 518.0 <sup>1)</sup> |           | 513.0 <sup>1)</sup> |       | 495.0 <sup>2)</sup> |       | 484.0 <sup>1)</sup> |  |
| 130 | B  |                 | 432.0 <sup>4)</sup>  |           | 438.0 <sup>4)</sup> |        | 425.0 <sup>2)</sup>  |           | 440.0 <sup>4)</sup> |        | 425.0 <sup>4)</sup> |           | 438.0 <sup>4)</sup> |        | 428.0 <sup>4)</sup> |           | 433.0 <sup>4)</sup> |        | 427.0 <sup>4)</sup> |           | 428.0 <sup>3)</sup> |           | 422.0 <sup>4)</sup> |       | 419.0 <sup>2)</sup> |       | 411.0 <sup>1)</sup> |  |
|     | BV |                 | 483.0 <sup>4)</sup>  |           | 488.0 <sup>4)</sup> |        | 476.0 <sup>1)</sup>  |           | 490.0 <sup>4)</sup> |        | 475.0 <sup>4)</sup> |           | 488.0 <sup>4)</sup> |        | 478.0 <sup>4)</sup> |           | 483.0 <sup>4)</sup> |        | 477.0 <sup>4)</sup> |           | 476.0 <sup>3)</sup> |           | 469.0 <sup>1)</sup> |       | 460.0 <sup>2)</sup> |       | 454.0 <sup>2)</sup> |  |
| 140 | B  |                 | 392.0 <sup>4)</sup>  |           | 398.0 <sup>4)</sup> |        | 389.0 <sup>4)</sup>  |           | 393.0 <sup>4)</sup> |        | 383.0 <sup>4)</sup> |           | 396.0 <sup>4)</sup> |        | 381.0 <sup>4)</sup> |           | 395.0 <sup>4)</sup> |        | 385.0 <sup>4)</sup> |           | 392.0 <sup>4)</sup> |           | 384.0 <sup>4)</sup> |       | 387.0 <sup>4)</sup> |       | 380.0 <sup>4)</sup> |  |
|     | BV |                 | 439.0 <sup>4)</sup>  |           | 445.0 <sup>4)</sup> |        | 437.0 <sup>4)</sup>  |           | 440.0 <sup>4)</sup> |        | 430.0 <sup>1)</sup> |           | 443.0 <sup>4)</sup> |        | 427.0 <sup>4)</sup> |           | 442.0 <sup>4)</sup> |        | 431.0 <sup>4)</sup> |           | 439.0 <sup>4)</sup> |           | 428.0 <sup>4)</sup> |       | 426.0 <sup>2)</sup> |       | 421.0 <sup>2)</sup> |  |
| 150 | B  |                 | 354.0 <sup>4)</sup>  |           | 366.0 <sup>4)</sup> |        | 355.0 <sup>4)</sup>  |           | 361.0 <sup>4)</sup> |        | 353.0 <sup>4)</sup> |           | 354.0 <sup>4)</sup> |        | 348.0 <sup>4)</sup> |           | 357.0 <sup>4)</sup> |        | 342.0 <sup>4)</sup> |           | 358.0 <sup>4)</sup> |           | 346.0 <sup>4)</sup> |       | 355.0 <sup>4)</sup> |       | 351.0 <sup>4)</sup> |  |
|     | BV |                 | 399.0 <sup>3)</sup>  |           | 410.0 <sup>4)</sup> |        | 399.0 <sup>4)</sup>  |           | 405.0 <sup>4)</sup> |        | 397.0 <sup>4)</sup> |           | 397.0 <sup>4)</sup> |        | 391.0 <sup>3)</sup> |           | 400.0 <sup>4)</sup> |        | 386.0 <sup>4)</sup> |           | 401.0 <sup>4)</sup> |           | 388.0 <sup>4)</sup> |       | 392.0 <sup>4)</sup> |       | 389.0 <sup>2)</sup> |  |
| 160 | B  |                 | 327.0 <sup>4)</sup>  |           | 334.0 <sup>4)</sup> |        | 320.0 <sup>3)</sup>  |           | 333.0 <sup>4)</sup> |        | 322.0 <sup>4)</sup> |           | 328.0 <sup>4)</sup> |        | 320.0 <sup>4)</sup> |           | 321.0 <sup>4)</sup> |        | 316.0 <sup>3)</sup> |           | 323.0 <sup>4)</sup> |           | 308.0 <sup>2)</sup> |       | 323.0 <sup>4)</sup> |       | 323.0 <sup>4)</sup> |  |
|     | BV |                 | 369.0 <sup>4)</sup>  |           | 376.0 <sup>4)</sup> |        | 362.0 <sup>2)</sup>  |           | 374.0 <sup>4)</sup> |        | 364.0 <sup>4)</sup> |           | 369.0 <sup>4)</sup> |        | 362.0 <sup>4)</sup> |           | 362.0 <sup>4)</sup> |        | 357.0 <sup>4)</sup> |           | 364.0 <sup>4)</sup> |           | 349.0 <sup>1)</sup> |       | 360.0 <sup>4)</sup> |       | 359.0 <sup>4)</sup> |  |
| 170 | B  |                 | 299.0 <sup>4)</sup>  |           | 306.0 <sup>4)</sup> |        | 297.0 <sup>4)</sup>  |           | 304.0 <sup>4)</sup> |        | 291.0 <sup>4)</sup> |           | 302.0 <sup>4)</sup> |        | 293.0 <sup>4)</sup> |           | 298.0 <sup>4)</sup> |        | 292.0 <sup>4)</sup> |           | 293.0 <sup>4)</sup> |           | 286.0 <sup>4)</sup> |       | 292.0 <sup>4)</sup> |       | 294.0 <sup>4)</sup> |  |
|     | BV |                 | 339.0 <sup>4)</sup>  |           | 345.0 <sup>4)</sup> |        | 336.0 <sup>4)</sup>  |           | 344.0 <sup>4)</sup> |        | 330.0 <sup>4)</sup> |           | 342.0 <sup>4)</sup> |        | 332.0 <sup>4)</sup> |           | 337.0 <sup>4)</sup> |        | 331.0 <sup>4)</sup> |           | 331.0 <sup>4)</sup> |           | 325.0 <sup>4)</sup> |       | 329.0 <sup>4)</sup> |       | 330.0 <sup>4)</sup> |  |
| 180 | B  |                 |                      |           | 283.0 <sup>4)</sup> |        | 273.0 <sup>4)</sup>  |           | 279.0 <sup>4)</sup> |        | 270.0 <sup>4)</sup> |           | 277.0 <sup>4)</sup> |        | 266.0 <sup>4)</sup> |           | 275.0 <sup>4)</sup> |        | 267.0 <sup>4)</sup> |           | 272.0 <sup>4)</sup> |           | 265.0 <sup>4)</sup> |       | 266.0 <sup>4)</sup> |       | 265.0 <sup>4)</sup> |  |
|     | BV |                 |                      |           | 321.0 <sup>4)</sup> |        | 310.0 <sup>4)</sup>  |           | 316.0 <sup>4)</sup> |        | 307.0 <sup>4)</sup> |           | 314.0 <sup>4)</sup> |        | 303.0 <sup>4)</sup> |           | 312.0 <sup>4)</sup> |        | 304.0 <sup>4)</sup> |           | 309.0 <sup>4)</sup> |           | 301.0 <sup>4)</sup> |       | 303.0 <sup>4)</sup> |       | 301.0 <sup>4)</sup> |  |
| 190 | B  |                 |                      |           | 261.0 <sup>4)</sup> |        |                      |           | 259.0 <sup>4)</sup> |        | 249.0 <sup>4)</sup> |           | 253.0 <sup>4)</sup> |        | 246.0 <sup>4)</sup> |           | 252.0 <sup>4)</sup> |        | 243.0 <sup>4)</sup> |           | 252.0 <sup>4)</sup> |           | 243.0 <sup>4)</sup> |       | 248.0 <sup>4)</sup> |       | 244.0 <sup>4)</sup> |  |
|     | BV |                 |                      |           | 296.0 <sup>4)</sup> |        |                      |           | 294.0 <sup>4)</sup> |        | 284.0 <sup>4)</sup> |           | 288.0 <sup>4)</sup> |        | 281.0 <sup>4)</sup> |           | 288.0 <sup>4)</sup> |        | 278.0 <sup>4)</sup> |           | 287.0 <sup>4)</sup> |           | 278.0 <sup>4)</sup> |       | 283.0 <sup>4)</sup> |       | 279.0 <sup>4)</sup> |  |
| 200 | B  |                 |                      |           |                     |        |                      |           | 239.0 <sup>4)</sup> |        | 228.0 <sup>4)</sup> |           | 236.0 <sup>4)</sup> |        | 227.0 <sup>4)</sup> |           | 230.0 <sup>4)</sup> |        | 224.0 <sup>4)</sup> |           | 231.0 <sup>4)</sup> |           | 221.0 <sup>4)</sup> |       | 229.0 <sup>4)</sup> |       | 227.0 <sup>4)</sup> |  |
|     | BV |                 |                      |           |                     |        |                      |           | 273.0 <sup>4)</sup> |        | 262.0 <sup>4)</sup> |           | 269.0 <sup>4)</sup> |        | 261.0 <sup>4)</sup> |           | 264.0 <sup>4)</sup> |        | 258.0 <sup>4)</sup> |           | 265.0 <sup>4)</sup> |           | 254.0 <sup>4)</sup> |       | 262.0 <sup>4)</sup> |       | 260.0 <sup>4)</sup> |  |
| 220 | B  |                 |                      |           |                     |        |                      |           |                     |        |                     |           | 201.0 <sup>4)</sup> |        |                     |           | 199.0 <sup>4)</sup> |        | 192.0 <sup>4)</sup> |           | 196.0 <sup>4)</sup> |           | 188.0 <sup>4)</sup> |       | 192.0 <sup>4)</sup> |       | 193.0 <sup>4)</sup> |  |
|     | BV |                 |                      |           |                     |        |                      |           |                     |        |                     |           | 231.0 <sup>4)</sup> |        |                     |           | 230.0 <sup>4)</sup> |        | 227.0 <sup>4)</sup> |           | 227.0 <sup>4)</sup> |           | 219.0 <sup>4)</sup> |       | 222.0 <sup>4)</sup> |       | 224.0 <sup>4)</sup> |  |
| 240 | B  |                 |                      |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           | 168.0 <sup>4)</sup> |           | 159.0 <sup>4)</sup> |       | 165.0 <sup>4)</sup> |       | 163.0 <sup>4)</sup> |  |
|     | BV |                 |                      |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           | 196.0 <sup>4)</sup> |           | 188.0 <sup>4)</sup> |       | 194.0 <sup>4)</sup> |       | 191.0 <sup>4)</sup> |  |
| 260 | B  |                 |                      |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           |                     |           | 140.0 <sup>4)</sup> |       | 140.0 <sup>4)</sup> |       | 140.0 <sup>4)</sup> |  |
|     | BV |                 |                      |           |                     |        |                      |           |                     |        |                     |           |                     |        |                     |           |                     |        |                     |           |                     |           | 166.0 <sup>4)</sup> |       | 166.0 <sup>4)</sup> |       | 166.0 <sup>4)</sup> |  |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°

# Lifting heights

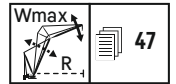
## Hauteurs de levage

# HSDWB/BV





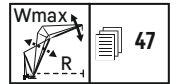
|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



|     |         | HS 177 ft           |                     |                     |                     |                     |                     |                     |                     |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
|-----|---------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|--------|
| ft  | B<br>BV | W79 ft              |                     | W98 ft              |                     | W118 ft             |                     | W138 ft             |                     | W158 ft                |                     | W177 ft             |                     | W197 ft             |                     | W217 ft             |                     | W236 ft             |                     | W256 ft             |                     | W276 ft             |                     | W295 ft             |                     | W315 ft             |        |        |
|     |         | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85                 | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax                | 87*/85              | Wmax   | 87*/85 |
| 45  | B       | 783.0*              | 800.0 <sup>1)</sup> |                     |                     |                     |                     |                     |                     |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 45  | BV      |                     |                     |                     |                     |                     |                     |                     |                     |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 50  | B       | 747.0*              | 805.0 <sup>1)</sup> | 677.0*              | 682.0 <sup>1)</sup> |                     |                     |                     |                     |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 50  | BV      |                     |                     |                     |                     |                     |                     |                     |                     |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 60  | B       | 752.0               | 798.0 <sup>1)</sup> | 684.0               | 691.0 <sup>1)</sup> | 572.0*              | 597.0 <sup>1)</sup> | 507.0*              | 509.0 <sup>1)</sup> |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 60  | BV      | 756.0               | 810.0 <sup>1)</sup> | 688.0               | 696.0 <sup>1)</sup> |                     |                     |                     |                     |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 70  | B       | 689.0               | 788.0 <sup>1)</sup> | 637.0               | 692.0 <sup>1)</sup> | 583.0               | 597.0 <sup>1)</sup> | 512.0               | 512.0               | 433.0*                 | 442.0 <sup>1)</sup> | 378.0*              | 379.0 <sup>1)</sup> | 325.0*              | 325.0*              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 70  | BV      | 694.0               | 812.0 <sup>1)</sup> | 640.0               | 699.0 <sup>1)</sup> | 585.0               | 603.0 <sup>1)</sup> | 517.0               | 517.0               |                        |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 80  | B       | 624.0               | 741.0 <sup>2)</sup> | 591.0               | 693.0 <sup>1)</sup> | 547.0               | 596.0 <sup>1)</sup> | 499.0               | 499.0               | 440.0                  | 440.0               | 380.0               | 380.0               | 313.0*              | 318.0 <sup>1)</sup> | 276.0*              | 277.0 <sup>1)</sup> | 234.0*              | 234.0*              |                     |                     |                     |                     |                     |                     |                     |        |        |
| 80  | BV      | 629.0               | 779.0 <sup>2)</sup> | 593.0               | 703.0 <sup>1)</sup> | 550.0               | 603.0 <sup>1)</sup> | 500.0               | 500.0               | 444.0                  | 444.0               | 382.0               | 382.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 90  | B       | 527.0               | 665.0 <sup>2)</sup> | 543.0               | 654.0 <sup>2)</sup> | 512.0               | 589.0 <sup>1)</sup> | 472.0               | 499.0 <sup>2)</sup> | 428.0                  | 431.0 <sup>2)</sup> | 368.0               | 368.0               | 311.0               | 311.0               | 276.0               | 276.0               | 228.0*              | 230.0 <sup>1)</sup> | 197.0*              | 197.0 <sup>1)</sup> | 169.0*              | 169.0*              |                     |                     |                     |        |        |
| 90  | BV      | 528.0               | 719.0 <sup>2)</sup> | 547.0               | 670.0 <sup>2)</sup> | 516.0               | 599.0 <sup>1)</sup> | 475.0               | 504.0 <sup>2)</sup> | 432.0                  | 436.0 <sup>2)</sup> | 371.0               | 371.0               | 313.0               | 313.0               | 278.0               | 278.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |
| 100 | B       | 411.0               | 599.0 <sup>4)</sup> | 470.0               | 592.0 <sup>3)</sup> | 473.0               | 566.0 <sup>2)</sup> | 442.0               | 499.0 <sup>2)</sup> | 408.0                  | 427.0 <sup>2)</sup> | 350.0               | 356.0 <sup>2)</sup> | 296.0               | 296.0               | 271.0               | 271.0               | 227.0               | 227.0               | 195.0               | 195.0 <sup>1)</sup> | 165.0*              | 166.0 <sup>1)</sup> | 142.0*              | 142.0 <sup>1)</sup> | 121.0*              | 121.0* |        |
| 100 | BV      | 411.0               | 656.0 <sup>4)</sup> | 471.0               | 633.0 <sup>3)</sup> | 477.0               | 583.0 <sup>2)</sup> | 447.0               | 508.0 <sup>2)</sup> | 412.0                  | 432.0 <sup>2)</sup> | 354.0               | 361.0 <sup>2)</sup> | 299.0               | 299.0               | 274.0               | 274.0               | 229.0               | 229.0               | 196.0               | 196.0               |                     |                     |                     |                     |                     |        |        |
| 110 | B       | 541.0 <sup>1)</sup> | 391.0               | 538.0 <sup>1)</sup> | 416.0               | 531.0 <sup>3)</sup> | 416.0               | 489.0 <sup>2)</sup> | 386.0               | 423.0 <sup>2)</sup>    | 333.0               | 350.0 <sup>2)</sup> | 283.0               | 289.0 <sup>2)</sup> | 266.0               | 266.0 <sup>2)</sup> | 224.0               | 224.0               | 192.0               | 192.0               | 164.0               | 164.0               | 139.0               | 140.0 <sup>1)</sup> | 118.0*              | 119.0 <sup>1)</sup> |        |        |
| 110 | BV      | 600.0 <sup>1)</sup> | 391.0               | 590.0 <sup>1)</sup> | 415.0               | 556.0 <sup>2)</sup> | 417.0               | 505.0 <sup>2)</sup> | 391.0               | 429.0 <sup>2)</sup>    | 337.0               | 355.0 <sup>2)</sup> | 286.0               | 292.0 <sup>2)</sup> | 269.0               | 269.0 <sup>2)</sup> | 225.0               | 225.0               | 193.0               | 193.0               | 165.0               | 165.0               | 140.0               | 140.0               |                     |                     |        |        |
| 120 | B       | 492.0 <sup>3)</sup> | 304.0               | 489.0 <sup>1)</sup> | 362.0               | 496.0 <sup>1)</sup> | 369.0               | 463.0 <sup>2)</sup> | 362.0               | 416.0 <sup>2)</sup>    | 315.0               | 345.0 <sup>2)</sup> | 270.0               | 284.0 <sup>2)</sup> | 261.0               | 264.0 <sup>2)</sup> | 220.0               | 221.0 <sup>2)</sup> | 189.0               | 189.0               | 162.0               | 162.0               | 139.0               | 139.0               | 118.0               | 118.0 <sup>1)</sup> |        |        |
| 120 | BV      | 546.0 <sup>3)</sup> | 304.0               | 543.0 <sup>1)</sup> | 362.0               | 530.0 <sup>2)</sup> | 369.0               | 490.0 <sup>2)</sup> | 364.0               | 423.0 <sup>2)</sup>    | 319.0               | 349.0 <sup>2)</sup> | 272.0               | 287.0 <sup>2)</sup> | 263.0               | 267.0 <sup>2)</sup> | 222.0               | 223.0 <sup>2)</sup> | 190.0               | 190.0               | 163.0               | 163.0               | 139.0               | 139.0               | 118.0               | 118.0               |        |        |
| 130 | B       | 450.0 <sup>3)</sup> |                     | 448.0 <sup>3)</sup> | 307.0               | 465.0 <sup>1)</sup> | 324.0               | 436.0 <sup>2)</sup> | 325.0               | 406.0 <sup>2)</sup>    | 298.0               | 338.0 <sup>2)</sup> | 257.0               | 279.0 <sup>2)</sup> | 255.0               | 263.0 <sup>2)</sup> | 217.0               | 220.0 <sup>2)</sup> | 186.0               | 187.0 <sup>2)</sup> | 160.0               | 160.0               | 136.0               | 136.0               | 116.0               | 116.0               |        |        |
| 130 | BV      | 500.0 <sup>3)</sup> |                     | 498.0 <sup>3)</sup> | 308.0               | 495.0 <sup>1)</sup> | 324.0               | 476.0 <sup>2)</sup> | 325.0               | 413.0 <sup>2)</sup>    | 302.0               | 342.0 <sup>2)</sup> | 259.0               | 282.0 <sup>2)</sup> | 258.0               | 266.0 <sup>2)</sup> | 219.0               | 222.0 <sup>2)</sup> | 187.0               | 188.0 <sup>2)</sup> | 161.0               | 161.0               | 137.0               | 137.0               | 116.0               | 116.0               |        |        |
| 140 | B       | 414.0 <sup>3)</sup> |                     | 413.0 <sup>3)</sup> | 243.0               | 435.0 <sup>1)</sup> | 289.0               | 408.0 <sup>2)</sup> | 288.0               | 397.0 <sup>2)</sup>    | 282.0               | 330.0 <sup>2)</sup> | 243.0               | 273.0 <sup>2)</sup> | 250.0               | 261.0 <sup>2)</sup> | 214.0               | 219.0 <sup>2)</sup> | 183.0               | 185.0 <sup>2)</sup> | 157.0               | 158.0 <sup>2)</sup> | 134.0               | 134.0 <sup>2)</sup> | 114.0               | 114.0               |        |        |
| 140 | BV      | 457.0 <sup>3)</sup> |                     | 459.0 <sup>4)</sup> | 243.0               | 458.0 <sup>2)</sup> | 289.0               | 449.0 <sup>2)</sup> | 288.0               | 403.0 <sup>2)</sup>    | 285.0               | 334.0 <sup>2)</sup> | 245.0               | 276.0 <sup>2)</sup> | 253.0               | 264.0 <sup>2)</sup> | 216.0               | 221.0 <sup>2)</sup> | 184.0               | 187.0 <sup>2)</sup> | 158.0               | 159.0 <sup>2)</sup> | 135.0               | 135.0 <sup>2)</sup> | 114.0               | 114.0               |        |        |
| 150 | B       | 379.0 <sup>4)</sup> |                     | 382.0 <sup>7)</sup> |                     | 404.0 <sup>1)</sup> | 248.0               | 379.0 <sup>2)</sup> | 260.0               | 375.0 <sup>2)</sup>    | 261.0               | 322.0 <sup>2)</sup> | 228.0               | 266.0 <sup>2)</sup> | 245.0               | 258.0 <sup>2)</sup> | 211.0               | 218.0 <sup>2)</sup> | 180.0               | 184.0 <sup>2)</sup> | 155.0               | 157.0 <sup>2)</sup> | 132.0               | 133.0 <sup>2)</sup> | 112.0               | 112.0 <sup>2)</sup> |        |        |
| 150 | BV      | 417.0 <sup>4)</sup> |                     | 422.0 <sup>6)</sup> |                     | 426.0 <sup>1)</sup> | 248.0               | 419.0 <sup>2)</sup> | 260.0               | 386.0 <sup>2)</sup>    | 262.0               | 327.0 <sup>2)</sup> | 230.0               | 269.0 <sup>2)</sup> | 247.0               | 261.0 <sup>2)</sup> | 212.0               | 220.0 <sup>2)</sup> | 181.0               | 185.0 <sup>2)</sup> | 156.0               | 158.0 <sup>2)</sup> | 133.0               | 134.0 <sup>2)</sup> | 112.0               | 113.0 <sup>2)</sup> |        |        |
| 160 | B       | 345.0 <sup>4)</sup> |                     | 353.0 <sup>7)</sup> |                     | 373.0 <sup>1)</sup> | 198.0               | 353.0 <sup>3)</sup> | 228.0               | 350.0 <sup>2)</sup>    | 239.0               | 310.0 <sup>2)</sup> | 215.0               | 259.0 <sup>2)</sup> | 237.0               | 255.0 <sup>3)</sup> | 207.0               | 215.0 <sup>2)</sup> | 177.0               | 182.0 <sup>2)</sup> | 152.0               | 155.0 <sup>2)</sup> | 130.0               | 131.0 <sup>2)</sup> | 110.0               | 111.0 <sup>2)</sup> |        |        |
| 160 | BV      | 383.0 <sup>4)</sup> |                     | 388.0 <sup>7)</sup> |                     | 397.0 <sup>1)</sup> | 199.0               | 389.0 <sup>2)</sup> | 228.0               | 367.0 <sup>2)</sup>    | 239.0               | 318.0 <sup>2)</sup> | 216.0               | 262.0 <sup>2)</sup> | 239.0               | 259.0 <sup>3)</sup> | 209.0               | 217.0 <sup>2)</sup> | 178.0               | 184.0 <sup>2)</sup> | 153.0               | 156.0 <sup>2)</sup> | 131.0               | 132.0 <sup>2)</sup> | 110.0               | 111.0 <sup>2)</sup> |        |        |
| 170 | B       | 317.0 <sup>8)</sup> |                     | 323.0 <sup>7)</sup> |                     | 342.0 <sup>1)</sup> |                     | 327.0 <sup>6)</sup> | 197.0               | 325.0 <sup>3)</sup>    | 214.0               | 296.0 <sup>2)</sup> | 203.0               | 252.0 <sup>3)</sup> | 218.0               | 251.0 <sup>3)</sup> | 203.0               | 214.0 <sup>3)</sup> | 174.0               | 180.0 <sup>2)</sup> | 150.0               | 153.0 <sup>2)</sup> | 128.0               | 130.0 <sup>2)</sup> | 108.0               | 109.0 <sup>2)</sup> |        |        |
| 170 | BV      | 357.0 <sup>8)</sup> |                     | 356.0 <sup>6)</sup> |                     | 369.0 <sup>1)</sup> |                     | 359.0 <sup>2)</sup> | 197.0               | 347.0 <sup>2)</sup>    | 214.0               | 309.0 <sup>2)</sup> | 204.0               | 255.0 <sup>2)</sup> | 218.0               | 255.0 <sup>2)</sup> | 205.0               | 216.0 <sup>3)</sup> | 176.0               | 182.0 <sup>2)</sup> | 151.0               | 155.0 <sup>2)</sup> | 129.0               | 131.0 <sup>2)</sup> | 109.0               | 110.0 <sup>2)</sup> |        |        |
| 180 | B       | 293.0 <sup>8)</sup> |                     | 297.0 <sup>9)</sup> |                     | 311.0 <sup>1)</sup> |                     | 303.0 <sup>6)</sup> | 156.0               | 302.0 <sup>3)</sup>    | 190.0               | 282.0 <sup>3)</sup> | 193.0               | 245.0 <sup>3)</sup> | 198.0               | 246.0 <sup>3)</sup> | 197.0               | 212.0 <sup>3)</sup> | 172.0               | 179.0 <sup>3)</sup> | 148.0               | 152.0 <sup>3)</sup> | 126.0               | 128.0 <sup>2)</sup> | 106.0               | 108.0 <sup>2)</sup> |        |        |
| 180 | BV      | 330.0 <sup>8)</sup> |                     | 334.0 <sup>8)</sup> |                     | 340.0 <sup>1)</sup> |                     | 331.0 <sup>5)</sup> | 156.0               | 327.0 <sup>3)</sup>    | 190.0               | 300.0 <sup>2)</sup> | 194.0               | 247.0 <sup>3)</sup> | 198.0               | 249.0 <sup>3)</sup> | 198.0               | 214.0 <sup>3)</sup> | 173.0               | 181.0 <sup>3)</sup> | 149.0               | 153.0 <sup>3)</sup> | 127.0               | 129.0 <sup>2)</sup> | 107.0               | 108.0 <sup>2)</sup> |        |        |
| 190 | B       | 267.0 <sup>4)</sup> |                     | 276.0 <sup>8)</sup> |                     | 280.0 <sup>1)</sup> |                     | 280.0 <sup>5)</sup> |                     | 281.0 <sup>3)</sup>    | 165.0               | 268.0 <sup>3)</sup> | 178.0               | 237.0 <sup>2)</sup> | 182.0               | 241.0 <sup>3)</sup> | 184.0               | 210.0 <sup>3)</sup> | 169.0               | 177.0 <sup>3)</sup> | 146.0               | 151.0 <sup>3)</sup> | 124.0               | 127.0 <sup>3)</sup> | 104.0               | 106.0 <sup>2)</sup> |        |        |
| 190 | BV      | 303.0 <sup>4)</sup> |                     | 312.0 <sup>8)</sup> |                     | 313.0 <sup>1)</sup> |                     | 310.0 <sup>5)</sup> |                     | 308.0 <sup>2)</sup>    | 165.0               | 291.0 <sup>2)</sup> | 178.0               | 240.0 <sup>2)</sup> | 182.0               | 243.0 <sup>2)</sup> | 184.0               | 212.0 <sup>3)</sup> | 171.0               | 179.0 <sup>3)</sup> | 147.0               | 152.0 <sup>3)</sup> | 125.0               | 128.0 <sup>3)</sup> | 105.0               | 107.0 <sup>2)</sup> |        |        |
| 200 | B       | 249.0 <sup>4)</sup> |                     | 256.0 <sup>8)</sup> |                     | 263.0 <sup>8)</sup> |                     | 261.0 <sup>5)</sup> |                     | 261.0 <sup>4)</sup>    | 131.0               | 255.0 <sup>3)</sup> | 159.0               | 230.0 <sup>3)</sup> | 167.0               | 232.0 <sup>3)</sup> | 169.0               | 208.0 <sup>3)</sup> | 165.0               | 176.0 <sup>3)</sup> | 144.0               | 149.0 <sup>3)</sup> | 122.0               | 126.0 <sup>3)</sup> | 103.0               | 105.0 <sup>3)</sup> |        |        |
| 200 | BV      | 283.0 <sup>4)</sup> |                     | 290.0 <sup>8)</sup> |                     | 295.0 <sup>7)</sup> |                     | 293.0 <sup>4)</sup> |                     | 290.0 <sup>3)</sup>    | 131.0               | 282.0 <sup>2)</sup> | 159.0               | 232.0 <sup>2)</sup> | 167.0               | 236.0 <sup>2)</sup> | 169.0               | 211.0 <sup>3)</sup> | 166.0               | 177.0 <sup>3)</sup> | 145.0               | 150.0 <sup>3)</sup> | 123.0               | 127.0 <sup>3)</sup> | 103.0               | 105.0 <sup>3)</sup> |        |        |
| 220 | B       |                     |                     | 219.0 <sup>6)</sup> |                     | 228.0 <sup>8)</sup> |                     | 232.0 <sup>8)</sup> |                     | 231.0 <sup>5)</sup>    |                     | 228.0 <sup>4)</sup> | 109.0               | 215.0 <sup>2)</sup> | 134.0               | 216.0 <sup>2)</sup> | 143.0               | 197.0 <sup>2)</sup> | 142.0               | 171.0 <sup>4)</sup> | 137.0               | 146.0 <sup>4)</sup> | 118.0               | 123.0 <sup>4)</sup> | 98.7                | 102.0 <sup>3)</sup> |        |        |
| 220 | BV      |                     |                     | 250.0 <sup>6)</sup> |                     | 258.0 <sup>8)</sup> |                     | 259.0 <sup>5)</sup> |                     | 258.0 <sup>3)</sup>    |                     | 256.0 <sup>2)</sup> | 109.0               | 217.0 <sup>2)</sup> | 134.0               | 223.0 <sup>2)</sup> | 143.0               | 198.0 <sup>2)</sup> | 142.0               | 173.0 <sup>4)</sup> | 137.0               | 148.0 <sup>4)</sup> | 119.0               | 124.0 <sup>4)</sup> | 99.3                | 103.0 <sup>3)</sup> |        |        |
| 240 | B       |                     |                     |                     |                     | 196.0 <sup>4)</sup> |                     | 202.0 <sup>8)</sup> |                     | 207.0 <sup>7)</sup>    |                     | 205.0 <sup>5)</sup> |                     | 195.0 <sup>3)</sup> |                     | 199.0 <sup>2)</sup> | 116.0               | 190.0 <sup>2)</sup> | 121.0               | 163.0 <sup>3)</sup> | 119.0               | 143.0 <sup>4)</sup> | 114.0               | 120.0 <sup>4)</sup> | 95.1                | 99.3 <sup>4)</sup>  |        |        |
| 240 | BV      |                     |                     |                     |                     | 224.0 <sup>4)</sup> |                     | 227.0 <sup>6)</sup> |                     | 227.0 <sup>4)</sup>    |                     | 226.0 <sup>2)</sup> |                     | 204.0 <sup>2)</sup> |                     | 209.0 <sup>2)</sup> | 116.0               | 191.0 <sup>2)</sup> | 121.0               | 164.0 <sup>3)</sup> | 119.0               | 144.0 <sup>4)</sup> | 115.0               | 121.0 <sup>4)</sup> | 95.7                | 99.9 <sup>4)</sup>  |        |        |
| 260 | B       |                     |                     |                     |                     |                     |                     | 175.0 <sup>6)</sup> |                     | 181.0 <sup>8)</sup>    |                     | 182.0 <sup>6)</sup> |                     | 175.0 <sup>4)</sup> |                     | 178.0 <sup>3)</sup> |                     | 175.0 <sup>3)</sup> | 97.5                | 156.0 <sup>3)</sup> | 102.0               | 136.0 <sup>4)</sup> | 102.0               | 117.0 <sup>4)</sup> | 92.0                | 96.8 <sup>4)</sup>  |        |        |
| 260 | BV      |                     |                     |                     |                     |                     |                     | 201.0 <sup>6)</sup> |                     | 204.0 <sup>8)</sup>    |                     | 201.0 <sup>3)</sup> |                     | 191.0 <sup>2)</sup> |                     | 193.0 <sup>2)</sup> |                     | 180.0 <sup>2)</sup> | 97.5                | 157.0 <sup>2)</sup> | 101.0               | 137.0 <sup>3)</sup> | 102.0               | 118.0 <sup>4)</sup> | 92.7                | 97.4 <sup>4)</sup>  |        |        |
| 280 | B       |                     |                     |                     |                     |                     |                     |                     |                     | 157.0 <sup>4)</sup> </ |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |        |



|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



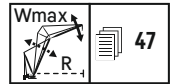
|     |         | HS 197 ft |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
|-----|---------|-----------|---------------------|--------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|--------|
| ft  | B<br>BV | W79 ft    |                     | W98 ft |                     | W118 ft |                     | W138 ft |                     | W158 ft |                     | W177 ft |                     | W197 ft |                     | W217 ft |                     | W236 ft |                     | W256 ft |                     | W276 ft |                     | W295 ft |                     | W315 ft |                     |        |
|     |         | 87°/85    | Wmax                | 87°/85 | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85 |
| 45  | B       | 725.0*    | 734.0 <sup>21</sup> |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 45  | BV      |           |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 50  | B       | 684.0*    | 736.0 <sup>21</sup> | 625.0* | 631.0 <sup>21</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 50  | BV      |           |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 60  | B       | 696.0     | 736.0 <sup>21</sup> | 633.0  | 637.0 <sup>21</sup> | 528.0*  | 549.0 <sup>21</sup> | 471.0*  | 472.0 <sup>21</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 60  | BV      | 697.0     | 739.0 <sup>21</sup> | 634.0  | 638.0 <sup>21</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 70  | B       | 630.0     | 733.0 <sup>21</sup> | 590.0  | 635.0 <sup>21</sup> | 538.0   | 551.0 <sup>21</sup> | 477.0   | 477.0 <sup>21</sup> | 404.0*  | 412.0 <sup>21</sup> | 354.0*  | 355.0 <sup>21</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 70  | BV      | 641.0     | 739.0 <sup>21</sup> | 590.0  | 638.0 <sup>21</sup> | 539.0   | 556.0 <sup>21</sup> | 481.0   | 481.0               |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 80  | B       | 567.0     | 711.0 <sup>21</sup> | 546.0  | 632.0 <sup>21</sup> | 507.0   | 549.0 <sup>21</sup> | 461.0   | 461.0               | 412.0   | 412.0               | 358.0   | 358.0               | 297.0*  | 301.0 <sup>21</sup> | 262.0*  | 262.0 <sup>21</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 80  | BV      | 580.0     | 725.0 <sup>21</sup> | 549.0  | 638.0 <sup>21</sup> | 507.0   | 556.0 <sup>21</sup> | 461.0   | 461.0               | 415.0   | 415.0               | 360.0   | 360.0               |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 90  | B       | 507.0     | 651.0 <sup>21</sup> | 494.0  | 607.0 <sup>21</sup> | 474.0   | 547.0 <sup>21</sup> | 436.0   | 456.0 <sup>21</sup> | 398.0   | 400.0 <sup>21</sup> | 349.0   | 349.0               | 296.0   | 296.0               | 256.0*  | 260.0 <sup>21</sup> | 218.0*  | 219.0 <sup>21</sup> | 187.0*  | 188.0 <sup>21</sup> | 161.0*  | 161.0*              |         |                     |         |                     |        |
| 90  | BV      | 524.0     | 682.0 <sup>21</sup> | 507.0  | 625.0 <sup>21</sup> | 476.0   | 557.0 <sup>21</sup> | 438.0   | 458.0 <sup>21</sup> | 400.0   | 402.0 <sup>21</sup> | 352.0   | 352.0               | 298.0   | 298.0               |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 100 | B       | 444.0     | 589.0 <sup>21</sup> | 441.0  | 569.0 <sup>21</sup> | 431.0   | 525.0 <sup>21</sup> | 409.0   | 455.0 <sup>21</sup> | 377.0   | 399.0 <sup>21</sup> | 333.0   | 337.0 <sup>21</sup> | 284.0   | 284.0               | 257.0   | 257.0               | 217.0   | 217.0               | 183.0*  | 186.0 <sup>21</sup> | 157.0*  | 159.0 <sup>21</sup> | 136.0*  | 136.0 <sup>21</sup> | 116.0*  | 116.0*              |        |
| 100 | BV      | 445.0     | 639.0 <sup>21</sup> | 456.0  | 602.0 <sup>21</sup> | 443.0   | 536.0 <sup>21</sup> | 412.0   | 460.0 <sup>21</sup> | 380.0   | 403.0 <sup>21</sup> | 338.0   | 342.0 <sup>21</sup> | 286.0   | 286.0               | 259.0   | 259.0               | 219.0   | 219.0               |         |                     |         |                     |         |                     |         |                     |        |
| 110 | B       |           | 536.0 <sup>21</sup> | 398.0  | 528.0 <sup>21</sup> | 394.0   | 498.0 <sup>21</sup> | 382.0   | 455.0 <sup>21</sup> | 359.0   | 399.0 <sup>21</sup> | 318.0   | 333.0 <sup>21</sup> | 272.0   | 276.0 <sup>21</sup> | 252.0   | 252.0               | 214.0   | 214.0               | 183.0   | 183.0               | 157.0   | 157.0 <sup>21</sup> | 133.0*  | 134.0 <sup>21</sup> | 113.0*  | 114.0 <sup>21</sup> |        |
| 110 | BV      |           | 589.0 <sup>21</sup> | 406.0  | 576.0 <sup>21</sup> | 407.0   | 519.0 <sup>21</sup> | 388.0   | 462.0 <sup>21</sup> | 361.0   | 404.0 <sup>21</sup> | 323.0   | 338.0 <sup>21</sup> | 275.0   | 279.0 <sup>21</sup> | 255.0   | 255.0               | 215.0   | 215.0               | 185.0   | 185.0               | 158.0   | 158.0               |         |                     |         |                     |        |
| 120 | B       |           | 485.0 <sup>21</sup> | 324.0  | 486.0 <sup>21</sup> | 362.0   | 471.0 <sup>21</sup> | 353.0   | 437.0 <sup>21</sup> | 340.0   | 397.0 <sup>21</sup> | 303.0   | 329.0 <sup>21</sup> | 260.0   | 273.0 <sup>21</sup> | 247.0   | 250.0 <sup>21</sup> | 211.0   | 211.0 <sup>21</sup> | 181.0   | 181.0               | 155.0   | 155.0               | 133.0   | 133.0               | 113.0   | 113.0 <sup>21</sup> |        |
| 120 | BV      |           | 539.0 <sup>21</sup> | 324.0  | 534.0 <sup>21</sup> | 371.0   | 505.0 <sup>21</sup> | 364.0   | 458.0 <sup>21</sup> | 343.0   | 404.0 <sup>21</sup> | 307.0   | 334.0 <sup>21</sup> | 263.0   | 276.0 <sup>21</sup> | 250.0   | 253.0 <sup>21</sup> | 212.0   | 213.0 <sup>21</sup> | 182.0   | 182.0               | 156.0   | 156.0               | 134.0   | 134.0               | 113.0   | 113.0               |        |
| 130 | B       |           | 444.0 <sup>21</sup> |        | 443.0 <sup>21</sup> | 317.0   | 444.0 <sup>21</sup> | 326.0   | 419.0 <sup>21</sup> | 318.0   | 388.0 <sup>21</sup> | 289.0   | 325.0 <sup>21</sup> | 249.0   | 269.0 <sup>21</sup> | 242.0   | 249.0 <sup>21</sup> | 208.0   | 210.0 <sup>21</sup> | 178.0   | 179.0 <sup>21</sup> | 153.0   | 153.0               | 131.0   | 131.0               | 111.0   | 111.0               |        |
| 130 | BV      |           | 494.0 <sup>21</sup> |        | 491.0 <sup>21</sup> | 318.0   | 484.0 <sup>21</sup> | 331.0   | 455.0 <sup>21</sup> | 325.0   | 398.0 <sup>21</sup> | 292.0   | 330.0 <sup>21</sup> | 251.0   | 272.0 <sup>21</sup> | 245.0   | 252.0 <sup>21</sup> | 210.0   | 212.0 <sup>21</sup> | 180.0   | 180.0 <sup>21</sup> | 154.0   | 154.0               | 132.0   | 132.0               | 112.0   | 112.0               |        |
| 140 | B       |           | 409.0 <sup>21</sup> |        | 407.0 <sup>21</sup> | 259.0   | 417.0 <sup>21</sup> | 296.0   | 399.0 <sup>21</sup> | 292.0   | 380.0 <sup>21</sup> | 274.0   | 318.0 <sup>21</sup> | 236.0   | 264.0 <sup>21</sup> | 237.0   | 248.0 <sup>21</sup> | 205.0   | 209.0 <sup>21</sup> | 176.0   | 178.0 <sup>21</sup> | 151.0   | 152.0 <sup>21</sup> | 129.0   | 129.0 <sup>21</sup> | 109.0   | 109.0               |        |
| 140 | BV      |           | 455.0 <sup>21</sup> |        | 453.0 <sup>21</sup> | 259.0   | 451.0 <sup>21</sup> | 296.0   | 443.0 <sup>21</sup> | 294.0   | 391.0 <sup>21</sup> | 277.0   | 323.0 <sup>21</sup> | 239.0   | 267.0 <sup>21</sup> | 240.0   | 251.0 <sup>21</sup> | 207.0   | 211.0 <sup>21</sup> | 177.0   | 179.0 <sup>21</sup> | 152.0   | 153.0 <sup>21</sup> | 130.0   | 130.0               | 110.0   | 110.0               |        |
| 150 | B       |           | 377.0 <sup>21</sup> |        | 377.0 <sup>21</sup> |         | 390.0 <sup>21</sup> | 256.0   | 372.0 <sup>21</sup> | 266.0   | 367.0 <sup>21</sup> | 259.0   | 312.0 <sup>21</sup> | 223.0   | 259.0 <sup>21</sup> | 232.0   | 246.0 <sup>21</sup> | 202.0   | 209.0 <sup>21</sup> | 173.0   | 177.0 <sup>21</sup> | 149.0   | 150.0 <sup>21</sup> | 127.0   | 128.0 <sup>21</sup> | 108.0   | 108.0 <sup>21</sup> |        |
| 150 | BV      |           | 419.0 <sup>21</sup> |        | 420.0 <sup>21</sup> |         | 419.0 <sup>21</sup> | 256.0   | 415.0 <sup>21</sup> | 266.0   | 381.0 <sup>21</sup> | 262.0   | 317.0 <sup>21</sup> | 225.0   | 262.0 <sup>21</sup> | 235.0   | 250.0 <sup>21</sup> | 204.0   | 211.0 <sup>21</sup> | 174.0   | 178.0 <sup>21</sup> | 150.0   | 151.0 <sup>21</sup> | 128.0   | 129.0 <sup>21</sup> | 108.0   | 108.0 <sup>21</sup> |        |
| 160 | B       |           | 345.0 <sup>21</sup> |        | 351.0 <sup>21</sup> |         | 363.0 <sup>21</sup> | 212.0   | 347.0 <sup>21</sup> | 234.0   | 344.0 <sup>21</sup> | 242.0   | 304.0 <sup>21</sup> | 212.0   | 253.0 <sup>21</sup> | 226.0   | 243.0 <sup>21</sup> | 199.0   | 207.0 <sup>21</sup> | 170.0   | 176.0 <sup>21</sup> | 146.0   | 149.0 <sup>21</sup> | 125.0   | 127.0 <sup>21</sup> | 106.0   | 106.0 <sup>21</sup> |        |
| 160 | BV      |           | 383.0 <sup>21</sup> |        | 389.0 <sup>21</sup> |         | 388.0 <sup>21</sup> | 212.0   | 386.0 <sup>21</sup> | 234.0   | 362.0 <sup>21</sup> | 243.0   | 310.0 <sup>21</sup> | 214.0   | 256.0 <sup>21</sup> | 227.0   | 247.0 <sup>21</sup> | 201.0   | 209.0 <sup>21</sup> | 172.0   | 177.0 <sup>21</sup> | 148.0   | 150.0 <sup>21</sup> | 126.0   | 127.0 <sup>21</sup> | 106.0   | 107.0 <sup>21</sup> |        |
| 170 | B       |           | 313.0 <sup>21</sup> |        | 324.0 <sup>21</sup> |         | 336.0 <sup>21</sup> |         | 324.0 <sup>21</sup> | 203.0   | 322.0 <sup>21</sup> | 219.0   | 293.0 <sup>21</sup> | 200.0   | 247.0 <sup>21</sup> | 217.0   | 242.0 <sup>21</sup> | 196.0   | 206.0 <sup>21</sup> | 168.0   | 174.0 <sup>21</sup> | 144.0   | 148.0 <sup>21</sup> | 123.0   | 125.0 <sup>21</sup> | 104.0   | 105.0 <sup>21</sup> |        |
| 170 | BV      |           | 351.0 <sup>21</sup> |        | 359.0 <sup>21</sup> |         | 360.0 <sup>21</sup> |         | 358.0 <sup>21</sup> | 203.0   | 342.0 <sup>21</sup> | 219.0   | 301.0 <sup>21</sup> | 202.0   | 250.0 <sup>21</sup> | 218.0   | 246.0 <sup>21</sup> | 198.0   | 208.0 <sup>21</sup> | 169.0   | 176.0 <sup>21</sup> | 146.0   | 149.0 <sup>21</sup> | 124.0   | 126.0 <sup>21</sup> | 105.0   | 106.0 <sup>21</sup> |        |
| 180 | B       |           | 290.0 <sup>21</sup> |        | 297.0 <sup>21</sup> |         | 310.0 <sup>21</sup> |         | 303.0 <sup>21</sup> | 167.0   | 301.0 <sup>21</sup> | 195.0   | 279.0 <sup>21</sup> | 191.0   | 241.0 <sup>21</sup> | 201.0   | 239.0 <sup>21</sup> | 193.0   | 205.0 <sup>21</sup> | 165.0   | 173.0 <sup>21</sup> | 142.0   | 146.0 <sup>21</sup> | 121.0   | 124.0 <sup>21</sup> | 102.0   | 104.0 <sup>21</sup> |        |
| 180 | BV      |           | 327.0 <sup>21</sup> |        | 330.0 <sup>21</sup> |         | 335.0 <sup>21</sup> |         | 332.0 <sup>21</sup> | 167.0   | 323.0 <sup>21</sup> | 194.0   | 291.0 <sup>21</sup> | 192.0   | 244.0 <sup>21</sup> | 202.0   | 243.0 <sup>21</sup> | 195.0   | 207.0 <sup>21</sup> | 167.0   | 174.0 <sup>21</sup> | 144.0   | 147.0 <sup>21</sup> | 122.0   | 125.0 <sup>21</sup> | 103.0   | 105.0 <sup>21</sup> |        |
| 190 | B       |           | 267.0 <sup>21</sup> |        | 274.0 <sup>21</sup> |         | 283.0 <sup>21</sup> |         | 282.0 <sup>21</sup> |         | 281.0 <sup>21</sup> | 170.0   | 266.0 <sup>21</sup> | 179.0   | 234.0 <sup>21</sup> | 185.0   | 237.0 <sup>21</sup> | 185.0   | 203.0 <sup>21</sup> | 163.0   | 171.0 <sup>21</sup> | 140.0   | 146.0 <sup>21</sup> | 120.0   | 122.0 <sup>21</sup> | 101.0   | 103.0 <sup>21</sup> |        |
| 190 | BV      |           | 303.0 <sup>21</sup> |        | 308.0 <sup>21</sup> |         | 310.0 <sup>21</sup> |         | 307.0 <sup>21</sup> |         | 304.0 <sup>21</sup> | 170.0   | 282.0 <sup>21</sup> | 180.0   | 237.0 <sup>21</sup> | 185.0   | 241.0 <sup>21</sup> | 187.0   | 205.0 <sup>21</sup> | 164.0   | 173.0 <sup>21</sup> | 142.0   | 147.0 <sup>21</sup> | 121.0   | 123.0 <sup>21</sup> | 101.0   | 104.0 <sup>21</sup> |        |
| 200 | B       |           | 245.0 <sup>21</sup> |        | 254.0 <sup>21</sup> |         | 259.0 <sup>21</sup> |         | 261.0 <sup>21</sup> |         | 262.0 <sup>21</sup> | 139.0   | 252.0 <sup>21</sup> | 164.0   | 228.0 <sup>21</sup> | 169.0   | 231.0 <sup>21</sup> | 172.0   | 202.0 <sup>21</sup> | 160.0   | 170.0 <sup>21</sup> | 138.0   | 144.0 <sup>21</sup> | 118.0   | 122.0 <sup>21</sup> | 99.1    | 101.0 <sup>21</sup> |        |
| 200 | BV      |           | 278.0 <sup>21</sup> |        | 287.0 <sup>21</sup> |         | 289.0 <sup>21</sup> |         | 287.0 <sup>21</sup> |         | 286.0 <sup>21</sup> | 140.0   | 272.0 <sup>21</sup> | 164.0   | 231.0 <sup>21</sup> | 170.0   | 236.0 <sup>21</sup> | 171.0   | 204.0 <sup>21</sup> | 162.0   | 172.0 <sup>21</sup> | 140.0   | 145.0 <sup>21</sup> | 119.0   | 123.0 <sup>21</sup> | 99.8    | 102.0 <sup>21</sup> |        |
| 220 | B       |           | 211.0 <sup>21</sup> |        | 216.0 <sup>21</sup> |         | 225.0 <sup>21</sup> |         | 227.0 <sup>21</sup> |         | 227.0 <sup>21</sup> |         | 225.0 <sup>21</sup> | 119.0   | 215.0 <sup>21</sup> | 138.0   | 212.0 <sup>21</sup> | 146.0   | 196.0 <sup>21</sup> | 144.0   | 167.0 <sup>21</sup> | 134.0   | 142.0 <sup>21</sup> | 114.0   | 119.0 <sup>21</sup> | 95.4    | 99.2 <sup>21</sup>  |        |
| 220 | BV      |           | 241.0 <sup>21</sup> |        | 247.0 <sup>21</sup> |         | 256.0 <sup>21</sup> |         | 256.0 <sup>21</sup> |         | 254.0 <sup>21</sup> |         | 251.0 <sup>21</sup> | 119.0   | 218.0 <sup>21</sup> | 138.0   | 221.0 <sup>21</sup> | 146.0   | 196.0 <sup>21</sup> | 144.0   | 169.0 <sup>21</sup> | 136.0   | 143.0 <sup>21</sup> | 115.0   | 120.0 <sup>21</sup> | 96.1    | 99.9 <sup>21</sup>  |        |
| 240 | B       |           |                     |        | 187.0 <sup>21</sup> |         | 192.0 <sup>21</sup> |         | 200.0 <sup>21</sup> |         | 203.0 <sup>21</sup> |         | 200.0 <sup>21</sup> |         | 198.0 <sup>21</sup> | 99.1    | 193.0 <sup>21</sup> | 119.0   | 183.0 <sup>21</sup> | 123.0   | 162.0 <sup>21</sup> | 120.0   | 139.0 <sup>21</sup> | 110.0   | 117.0 <sup>21</sup> | 91.9    | 96.5 <sup>21</sup>  |        |
| 240 | BV      |           |                     |        | 215.0 <sup>21</sup> |         | 220.0 <sup>21</sup> |         | 228.0 <sup>21</sup> |         | 228.0 <sup>21</sup> |         | 225.0 <sup>21</sup> |         | 204.0 <sup>21</sup> | 99.0    | 212.0 <sup>21</sup> | 119.0   | 188.0 <sup>21</sup> | 123.0   | 164.0 <sup>21</sup> | 120.0   | 141.0 <sup>21</sup> | 111.0   | 118.0 <sup>21</sup> | 92.7    | 97.3 <sup>21</sup>  |        |
| 260 | B       |           |                     |        |                     |         | 167.0 <sup>21</sup> |         | 171.0 <sup>21</sup> |         | 179.0 <sup>21</sup> |         | 181.0 <sup>21</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |

# HSDWB/BV

# HS 217



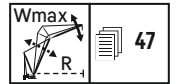
|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



| ft  |    | HS 217 ft           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|-----|----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|     |    | W79 ft              |                     | W98 ft              |                     | W118 ft             |                     | W138 ft             |                     | W158 ft             |                     | W177 ft             |                     | W197 ft             |                     | W217 ft             |                     | W236 ft             |                     | W256 ft             |                     | W276 ft             |                     | W295 ft             |                     | W315 ft             |                     |
|     |    | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                |
| 45  | B  | 667.0*              | 668.0 <sup>1)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|     | BV |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 50  | B  | 639.0*              | 669.0 <sup>2)</sup> | 581.0*              | 581.0 <sup>3)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|     | BV |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 60  | B  | 647.0               | 670.0 <sup>2)</sup> | 588.0               | 588.0               | 491.0*              | 509.0 <sup>2)</sup> | 440.0*              | 440.0*              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|     | BV | 647.0               | 674.0 <sup>2)</sup> | 588.0               | 588.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 70  | B  | 596.0               | 667.0 <sup>2)</sup> | 550.0               | 581.0 <sup>3)</sup> | 501.0               | 510.0 <sup>3)</sup> | 448.0               | 448.0               | 378.0*              | 385.0 <sup>3)</sup> | 333.0*              | 333.0*              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|     | BV | 597.0               | 671.0 <sup>2)</sup> | 549.0               | 583.0 <sup>3)</sup> | 501.0               | 511.0 <sup>3)</sup> | 452.0               | 452.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 80  | B  | 538.0               | 664.0 <sup>2)</sup> | 513.0               | 577.0 <sup>2)</sup> | 472.0               | 506.0 <sup>2)</sup> | 430.0               | 430.0 <sup>2)</sup> | 386.0               | 386.0               | 325.0*              | 335.0 <sup>2)</sup> | 282.0*              | 286.0 <sup>2)</sup> | 249.0*              | 249.0*              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|     | BV | 550.0               | 667.0 <sup>2)</sup> | 511.0               | 581.0 <sup>2)</sup> | 472.0               | 509.0 <sup>2)</sup> | 430.0               | 433.0 <sup>2)</sup> | 388.0               | 388.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 90  | B  | 488.0               | 617.0 <sup>2)</sup> | 470.0               | 566.0 <sup>2)</sup> | 443.0               | 502.0 <sup>2)</sup> | 407.0               | 421.0 <sup>2)</sup> | 371.0               | 371.0               | 330.0               | 330.0               | 282.0               | 282.0               | 243.0*              | 247.0 <sup>2)</sup> | 208.0*              | 209.0 <sup>2)</sup> | 179.0*              | 179.0*              |                     |                     |                     |                     |                     |                     |
|     | BV | 502.0               | 640.0 <sup>2)</sup> | 475.0               | 576.0 <sup>2)</sup> | 443.0               | 507.0 <sup>2)</sup> | 408.0               | 422.0 <sup>2)</sup> | 372.0               | 372.0               | 334.0               | 334.0               | 285.0               | 285.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 100 | B  | 437.0               | 572.0 <sup>2)</sup> | 425.0               | 536.0 <sup>2)</sup> | 410.0               | 488.0 <sup>2)</sup> | 382.0               | 420.0 <sup>2)</sup> | 351.0               | 369.0 <sup>2)</sup> | 318.0               | 320.0 <sup>2)</sup> | 272.0               | 272.0               | 244.0               | 244.0               | 208.0               | 208.0 <sup>2)</sup> | 175.0*              | 178.0 <sup>2)</sup> | 151.0*              | 152.0 <sup>2)</sup> | 130.0*              | 130.0*              |                     |                     |
|     | BV | 452.0               | 612.0 <sup>2)</sup> | 439.0               | 564.0 <sup>2)</sup> | 413.0               | 496.0 <sup>2)</sup> | 384.0               | 423.0 <sup>2)</sup> | 353.0               | 371.0 <sup>2)</sup> | 320.0               | 322.0 <sup>2)</sup> | 274.0               | 274.0               | 246.0               | 246.0               | 209.0               | 209.0               |                     |                     |                     |                     |                     |                     |                     |                     |
| 110 | B  |                     | 527.0 <sup>2)</sup> | 389.0               | 505.0 <sup>2)</sup> | 378.0               | 466.0 <sup>2)</sup> | 361.0               | 419.0 <sup>2)</sup> | 334.0               | 368.0 <sup>2)</sup> | 304.0               | 317.0 <sup>2)</sup> | 261.0               | 264.0 <sup>2)</sup> | 240.0               | 240.0               | 205.0               | 205.0               | 176.0               | 176.0               | 151.0               | 151.0 <sup>3)</sup> | 127.0*              | 129.0 <sup>2)</sup> | 109.0*              | 109.0 <sup>2)</sup> |
|     | BV |                     | 576.0 <sup>2)</sup> | 401.0               | 551.0 <sup>2)</sup> | 387.0               | 480.0 <sup>2)</sup> | 362.0               | 423.0 <sup>2)</sup> | 335.0               | 371.0 <sup>2)</sup> | 307.0               | 320.0 <sup>2)</sup> | 264.0               | 267.0 <sup>2)</sup> | 242.0               | 242.0               | 206.0               | 206.0               | 177.0               | 177.0               | 151.0               | 151.0               |                     |                     |                     |                     |
| 120 | B  | 483.0 <sup>2)</sup> | 342.0               | 472.0 <sup>2)</sup> | 349.0               | 446.0 <sup>2)</sup> | 339.0               | 411.0 <sup>2)</sup> | 318.0               | 368.0 <sup>2)</sup> | 292.0               | 314.0 <sup>2)</sup> | 251.0               | 261.0 <sup>2)</sup> | 235.0               | 238.0 <sup>2)</sup> | 202.0               | 202.0 <sup>2)</sup> | 174.0               | 174.0               | 149.0               | 149.0               | 128.0               | 128.0               | 108.0               | 108.0 <sup>2)</sup> |                     |
|     | BV | 531.0 <sup>2)</sup> | 343.0               | 523.0 <sup>2)</sup> | 360.0               | 475.0 <sup>2)</sup> | 342.0               | 422.0 <sup>2)</sup> | 319.0               | 372.0 <sup>2)</sup> | 294.0               | 318.0 <sup>2)</sup> | 254.0               | 264.0 <sup>2)</sup> | 238.0               | 240.0 <sup>2)</sup> | 204.0               | 204.0               | 175.0               | 175.0               | 150.0               | 150.0               | 128.0               | 128.0               | 109.0               | 109.0               |                     |
| 130 | B  | 441.0 <sup>2)</sup> |                     | 436.0 <sup>2)</sup> | 322.0               | 426.0 <sup>2)</sup> | 315.0               | 399.0 <sup>2)</sup> | 302.0               | 364.0 <sup>2)</sup> | 279.0               | 311.0 <sup>2)</sup> | 240.0               | 258.0 <sup>2)</sup> | 230.0               | 237.0 <sup>2)</sup> | 199.0               | 199.0 <sup>2)</sup> | 171.0               | 172.0 <sup>2)</sup> | 147.0               | 147.0               | 126.0               | 126.0               | 107.0               | 107.0               |                     |
|     | BV | 487.0 <sup>2)</sup> |                     | 485.0 <sup>2)</sup> | 326.0               | 469.0 <sup>2)</sup> | 323.0               | 420.0 <sup>2)</sup> | 303.0               | 371.0 <sup>2)</sup> | 282.0               | 316.0 <sup>2)</sup> | 243.0               | 262.0 <sup>2)</sup> | 233.0               | 240.0 <sup>2)</sup> | 201.0               | 203.0 <sup>2)</sup> | 173.0               | 173.0 <sup>2)</sup> | 148.0               | 148.0               | 127.0               | 127.0               | 107.0               | 107.0               |                     |
| 140 | B  | 404.0 <sup>2)</sup> |                     | 403.0 <sup>2)</sup> | 272.0               | 399.0 <sup>2)</sup> | 293.0               | 388.0 <sup>2)</sup> | 284.0               | 359.0 <sup>2)</sup> | 266.0               | 306.0 <sup>2)</sup> | 229.0               | 255.0 <sup>2)</sup> | 225.0               | 236.0 <sup>2)</sup> | 196.0               | 200.0 <sup>2)</sup> | 169.0               | 171.0 <sup>2)</sup> | 145.0               | 145.0 <sup>2)</sup> | 124.0               | 124.0 <sup>2)</sup> | 105.0               | 105.0               |                     |
|     | BV | 450.0 <sup>2)</sup> |                     | 448.0 <sup>2)</sup> | 272.0               | 443.0 <sup>2)</sup> | 302.0               | 418.0 <sup>2)</sup> | 288.0               | 369.0 <sup>2)</sup> | 269.0               | 311.0 <sup>2)</sup> | 231.0               | 259.0 <sup>2)</sup> | 226.0               | 239.0 <sup>2)</sup> | 198.0               | 203.0 <sup>2)</sup> | 170.0               | 172.0 <sup>2)</sup> | 146.0               | 147.0 <sup>2)</sup> | 125.0               | 125.0               | 106.0               | 106.0               |                     |
| 150 | B  | 373.0 <sup>2)</sup> |                     | 372.0 <sup>2)</sup> |                     | 373.0 <sup>2)</sup> | 264.0               | 366.0 <sup>2)</sup> | 265.0               | 354.0 <sup>2)</sup> | 253.0               | 301.0 <sup>2)</sup> | 218.0               | 251.0 <sup>2)</sup> | 219.0               | 235.0 <sup>2)</sup> | 193.0               | 200.0 <sup>2)</sup> | 166.0               | 170.0 <sup>2)</sup> | 143.0               | 145.0 <sup>2)</sup> | 122.0               | 123.0 <sup>2)</sup> | 104.0               | 104.0 <sup>2)</sup> |                     |
|     | BV | 417.0 <sup>2)</sup> |                     | 415.0 <sup>2)</sup> |                     | 413.0 <sup>2)</sup> | 265.0               | 401.0 <sup>2)</sup> | 270.0               | 367.0 <sup>2)</sup> | 256.0               | 306.0 <sup>2)</sup> | 220.0               | 254.0 <sup>2)</sup> | 219.0               | 239.0 <sup>2)</sup> | 195.0               | 202.0 <sup>2)</sup> | 168.0               | 172.0 <sup>2)</sup> | 144.0               | 146.0 <sup>2)</sup> | 123.0               | 124.0 <sup>2)</sup> | 104.0               | 104.0 <sup>2)</sup> |                     |
| 160 | B  | 344.0 <sup>2)</sup> |                     | 347.0 <sup>2)</sup> |                     | 349.0 <sup>2)</sup> | 222.0               | 342.0 <sup>2)</sup> | 239.0               | 337.0 <sup>2)</sup> | 240.0               | 296.0 <sup>2)</sup> | 207.0               | 246.0 <sup>2)</sup> | 211.0               | 232.0 <sup>2)</sup> | 190.0               | 199.0 <sup>2)</sup> | 164.0               | 169.0 <sup>2)</sup> | 141.0               | 144.0 <sup>2)</sup> | 120.0               | 122.0 <sup>2)</sup> | 102.0               | 103.0 <sup>2)</sup> |                     |
|     | BV | 385.0 <sup>2)</sup> |                     | 387.0 <sup>2)</sup> |                     | 385.0 <sup>2)</sup> | 222.0               | 380.0 <sup>2)</sup> | 240.0               | 355.0 <sup>2)</sup> | 243.0               | 301.0 <sup>2)</sup> | 209.0               | 249.0 <sup>2)</sup> | 212.0               | 236.0 <sup>2)</sup> | 192.0               | 202.0 <sup>2)</sup> | 165.0               | 171.0 <sup>2)</sup> | 142.0               | 145.0 <sup>2)</sup> | 121.0               | 123.0 <sup>2)</sup> | 103.0               | 103.0 <sup>2)</sup> |                     |
| 170 | B  | 314.0 <sup>2)</sup> |                     | 323.0 <sup>2)</sup> |                     | 326.0 <sup>2)</sup> |                     | 320.0 <sup>2)</sup> | 209.0               | 316.0 <sup>2)</sup> | 222.0               | 285.0 <sup>2)</sup> | 197.0               | 241.0 <sup>2)</sup> | 204.0               | 231.0 <sup>2)</sup> | 187.0               | 197.0 <sup>2)</sup> | 161.0               | 168.0 <sup>2)</sup> | 139.0               | 143.0 <sup>2)</sup> | 119.0               | 121.0 <sup>2)</sup> | 100.0               | 101.0 <sup>2)</sup> |                     |
|     | BV | 353.0 <sup>2)</sup> |                     | 359.0 <sup>2)</sup> |                     | 360.0 <sup>2)</sup> |                     | 356.0 <sup>2)</sup> | 208.0               | 342.0 <sup>2)</sup> | 223.0               | 293.0 <sup>2)</sup> | 199.0               | 245.0 <sup>2)</sup> | 204.0               | 235.0 <sup>2)</sup> | 188.0               | 200.0 <sup>2)</sup> | 163.0               | 170.0 <sup>2)</sup> | 140.0               | 144.0 <sup>2)</sup> | 120.0               | 122.0 <sup>2)</sup> | 101.0               | 102.0 <sup>2)</sup> |                     |
| 180 | B  | 286.0 <sup>2)</sup> |                     | 298.0 <sup>2)</sup> |                     | 303.0 <sup>2)</sup> |                     | 300.0 <sup>2)</sup> | 175.0               | 297.0 <sup>2)</sup> | 199.0               | 277.0 <sup>2)</sup> | 189.0               | 235.0 <sup>2)</sup> | 197.0               | 229.0 <sup>2)</sup> | 183.0               | 197.0 <sup>2)</sup> | 159.0               | 166.0 <sup>2)</sup> | 137.0               | 141.0 <sup>2)</sup> | 117.0               | 120.0 <sup>2)</sup> | 98.7                | 100.0 <sup>2)</sup> |                     |
|     | BV | 322.0 <sup>2)</sup> |                     | 332.0 <sup>2)</sup> |                     | 335.0 <sup>2)</sup> |                     | 333.0 <sup>2)</sup> | 175.0               | 323.0 <sup>2)</sup> | 199.0               | 283.0 <sup>2)</sup> | 190.0               | 239.0 <sup>2)</sup> | 197.0               | 233.0 <sup>2)</sup> | 183.0               | 200.0 <sup>2)</sup> | 161.0               | 168.0 <sup>2)</sup> | 138.0               | 143.0 <sup>2)</sup> | 118.0               | 121.0 <sup>2)</sup> | 99.5                | 101.0 <sup>2)</sup> |                     |
| 190 | B  | 265.0 <sup>2)</sup> |                     | 274.0 <sup>2)</sup> |                     | 281.0 <sup>2)</sup> |                     | 281.0 <sup>2)</sup> |                     | 278.0 <sup>2)</sup> | 175.0               | 266.0 <sup>2)</sup> | 178.0               | 228.0 <sup>2)</sup> | 187.0               | 228.0 <sup>2)</sup> | 177.0               | 196.0 <sup>2)</sup> | 157.0               | 166.0 <sup>2)</sup> | 135.0               | 140.0 <sup>2)</sup> | 115.0               | 118.0 <sup>2)</sup> | 97.2                | 99.3 <sup>2)</sup>  |                     |
|     | BV | 300.0 <sup>2)</sup> |                     | 306.0 <sup>2)</sup> |                     | 310.0 <sup>2)</sup> |                     | 311.0 <sup>2)</sup> |                     | 304.0 <sup>2)</sup> | 174.0               | 273.0 <sup>2)</sup> | 180.0               | 234.0 <sup>2)</sup> | 187.0               | 231.0 <sup>2)</sup> | 177.0               | 198.0 <sup>2)</sup> | 158.0               | 168.0 <sup>2)</sup> | 136.0               | 142.0 <sup>2)</sup> | 116.0               | 119.0 <sup>2)</sup> | 98.0                | 100.0 <sup>2)</sup> |                     |
| 200 | B  | 245.0 <sup>2)</sup> |                     | 251.0 <sup>2)</sup> |                     | 261.0 <sup>2)</sup> |                     | 262.0 <sup>2)</sup> |                     | 260.0 <sup>2)</sup> | 147.0               | 252.0 <sup>2)</sup> | 166.0               | 221.0 <sup>2)</sup> | 172.0               | 225.0 <sup>2)</sup> | 171.0               | 195.0 <sup>2)</sup> | 154.0               | 164.0 <sup>2)</sup> | 133.0               | 140.0 <sup>2)</sup> | 114.0               | 117.0 <sup>2)</sup> | 95.7                | 97.9 <sup>2)</sup>  |                     |
|     | BV | 278.0 <sup>2)</sup> |                     | 284.0 <sup>2)</sup> |                     | 288.0 <sup>2)</sup> |                     | 289.0 <sup>2)</sup> |                     | 285.0 <sup>2)</sup> | 147.0               | 263.0 <sup>2)</sup> | 167.0               | 228.0 <sup>2)</sup> | 172.0               | 229.0 <sup>2)</sup> | 171.0               | 197.0 <sup>2)</sup> | 156.0               | 166.0 <sup>2)</sup> | 134.0               | 141.0 <sup>2)</sup> | 115.0               | 119.0 <sup>2)</sup> | 96.5                | 98.7 <sup>2)</sup>  |                     |
| 220 | B  | 208.0 <sup>2)</sup> |                     | 216.0 <sup>2)</sup> |                     | 223.0 <sup>2)</sup> |                     | 227.0 <sup>2)</sup> |                     | 227.0 <sup>2)</sup> |                     | 224.0 <sup>2)</sup> | 125.0               | 207.0 <sup>2)</sup> | 141.0               | 211.0 <sup>2)</sup> | 148.0               | 191.0 <sup>2)</sup> | 144.0               | 162.0 <sup>2)</sup> | 129.0               | 137.0 <sup>2)</sup> | 110.0               | 115.0 <sup>2)</sup> | 92.2                | 96.2 <sup>2)</sup>  |                     |
|     | BV | 239.0 <sup>2)</sup> |                     | 247.0 <sup>2)</sup> |                     | 253.0 <sup>2)</sup> |                     | 252.0 <sup>2)</sup> |                     | 250.0 <sup>2)</sup> |                     | 244.0 <sup>2)</sup> | 125.0               | 217.0 <sup>2)</sup> | 141.0               | 217.0 <sup>2)</sup> | 148.0               | 194.0 <sup>2)</sup> | 144.0               | 164.0 <sup>2)</sup> | 130.0               | 139.0 <sup>2)</sup> | 111.0               | 116.0 <sup>2)</sup> | 93.0                | 97.1 <sup>2)</sup>  |                     |
| 240 | B  | 178.0 <sup>2)</sup> |                     | 185.0 <sup>2)</sup> |                     | 193.0 <sup>2)</sup> |                     | 198.0 <sup>2)</sup> |                     | 198.0 <sup>2)</sup> |                     | 198.0 <sup>2)</sup> |                     | 191.0 <sup>2)</sup> | 104.0               | 191.0 <sup>2)</sup> | 121.0               | 181.0 <sup>2)</sup> | 125.0               | 160.0 <sup>2)</sup> | 121.0               | 135.0 <sup>2)</sup> | 106.0               | 113.0 <sup>2)</sup> | 88.8                | 93.7 <sup>2)</sup>  |                     |
|     | BV | 207.0 <sup>2)</sup> |                     | 213.0 <sup>2)</sup> |                     | 221.0 <sup>2)</sup> |                     | 226.0 <sup>2)</sup> |                     | 224.0 <sup>2)</sup> |                     | 221.0 <sup>2)</sup> |                     | 204.0 <sup>2)</sup> | 104.0               | 206.0 <sup>2)</sup> | 121.0               | 186.0 <sup>2)</sup> | 125.0               | 162.0 <sup>2)</sup> | 121.0               | 137.0 <sup>2)</sup> | 108.0               | 114.0 <sup>2)</sup> | 89.6                | 94.5 <sup>2)</sup>  |                     |
| 260 | B  |                     |                     | 159.0 <sup>2)</sup> |                     | 165.0 <sup>2)</sup> |                     | 172.0 <sup>2)</sup> |                     | 176.0 <sup>2)</sup> |                     | 176.0 <sup>2)</sup> |                     | 174.0 <sup>2)</sup> |                     | 172.0 <sup>2)</sup> | 89.6                | 167.0 <sup>2)</sup> | 102.0               | 152.0 <sup>2)</sup> | 105.0               | 132.0 <sup>2)</sup> | 102.0               | 111.0 <sup>2)</sup> | 85.9                | 91.7 <sup>2)</sup>  |                     |
|     | BV |                     |                     | 185.0 <sup>2)</sup> |                     | 191.0 <sup>2)</sup> |                     | 198.0 <sup>2)</sup> |                     | 201.0 <sup>2)</sup> |                     | 200.0 <sup>2)</sup> |                     | 188.0 <sup>2)</sup> |                     | 193.0 <sup>2)</sup> | 89.4                | 179.0 <sup>2)</sup> | 102.0               | 155.0 <sup>2)</sup> | 103.0               | 133.0 <sup>2)</sup> | 103.0               | 112.0 <sup>2)</sup> | 86.7                | 92.5 <sup>2)</sup>  |                     |
| 280 | B  |                     |                     |                     |                     |                     |                     | 147.0 <sup>2)</sup> |                     | 154.0 <sup>2)</sup> |                     | 159.0 <sup>2)</sup> |                     | 158.0 <sup>2)</sup> |                     | 154.0 <sup>2)</sup> |                     | 153.0 <sup>2)</sup> | 74.6                | 144.0 <sup>2)</sup> | 85.7                |                     |                     |                     |                     |                     |                     |



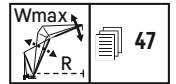
|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



|     |         | HS 236 ft |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
|-----|---------|-----------|---------------------|--------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|--------|
| ft  | B<br>BV | W79 ft    |                     | W98 ft |                     | W118 ft |                     | W138 ft |                     | W158 ft |                     | W177 ft |                     | W197 ft |                     | W217 ft |                     | W236 ft |                     | W256 ft |                     | W276 ft |                     | W295 ft |                     | W315 ft |                     |        |
|     |         | 87*/85    | Wmax                | 87*/85 | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85  | Wmax                | 87*/85 |
| 45  | B       | 603.0*    | 603.0*              |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 45  | BV      |           |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 50  | B       | 581.0*    | 600.0 <sup>1)</sup> | 529.0* | 529.0*              |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 50  | BV      |           |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 60  | B       | 589.0     | 600.0 <sup>1)</sup> | 491.0* | 529.0 <sup>1)</sup> | 451.0*  | 464.0 <sup>1)</sup> | 406.0*  | 406.0*              |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 60  | BV      | 596.0     | 609.0 <sup>1)</sup> |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 70  | B       | 545.0     | 598.0 <sup>1)</sup> | 507.0  | 526.0 <sup>1)</sup> | 461.0   | 465.0 <sup>1)</sup> | 386.0*  | 407.0 <sup>1)</sup> | 350.0*  | 356.0 <sup>1)</sup> | 310.0*  | 310.0*              |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 70  | BV      | 552.0     | 606.0 <sup>1)</sup> | 506.0  | 528.0 <sup>1)</sup> | 461.0   | 465.0 <sup>1)</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 80  | B       | 495.0     | 596.0 <sup>1)</sup> | 471.0  | 521.0 <sup>1)</sup> | 436.0   | 460.0 <sup>1)</sup> | 397.0   | 398.0 <sup>1)</sup> | 358.0   | 358.0               | 302.0*  | 310.0 <sup>1)</sup> | 265.0*  | 268.0 <sup>1)</sup> | 234.0*  | 234.0*              |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 80  | BV      | 505.0     | 602.0 <sup>1)</sup> | 472.0  | 525.0 <sup>1)</sup> | 435.0   | 461.0 <sup>1)</sup> | 396.0   | 399.0 <sup>1)</sup> | 359.0   | 359.0 <sup>1)</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 90  | B       | 449.0     | 574.0 <sup>1)</sup> | 430.0  | 516.0 <sup>1)</sup> | 408.0   | 454.0 <sup>1)</sup> | 375.0   | 385.0 <sup>1)</sup> | 343.0   | 343.0               | 308.0   | 308.0               | 266.0   | 266.0               | 228.0*  | 232.0 <sup>1)</sup> | 196.0*  | 197.0 <sup>1)</sup> | 170.0*  | 170.0*              |         |                     |         |                     |         |                     |        |
| 90  | BV      | 462.0     | 591.0 <sup>1)</sup> | 440.0  | 521.0 <sup>1)</sup> | 409.0   | 458.0 <sup>1)</sup> | 376.0   | 385.0 <sup>1)</sup> | 344.0   | 347.0 <sup>1)</sup> | 308.0   | 308.0               | 268.0   | 268.0               |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |
| 100 | B       | 406.0     | 540.0 <sup>1)</sup> | 390.0  | 498.0 <sup>1)</sup> | 375.0   | 447.0 <sup>1)</sup> | 353.0   | 383.0 <sup>1)</sup> | 325.0   | 338.0 <sup>1)</sup> | 296.0   | 296.0 <sup>1)</sup> | 257.0   | 257.0 <sup>1)</sup> | 230.0   | 230.0               | 196.0   | 196.0 <sup>1)</sup> | 166.0*  | 168.0 <sup>1)</sup> | 143.0*  | 143.0 <sup>1)</sup> | 123.0*  | 123.0*              |         |                     |        |
| 100 | BV      | 420.0     | 575.0 <sup>1)</sup> | 403.0  | 514.0 <sup>1)</sup> | 382.0   | 452.0 <sup>1)</sup> | 353.0   | 384.0 <sup>1)</sup> | 326.0   | 339.0 <sup>1)</sup> | 295.0   | 295.0 <sup>1)</sup> | 259.0   | 259.0               | 232.0   | 232.0               | 198.0   | 198.0               |         |                     |         |                     |         |                     |         |                     |        |
| 110 | B       |           | 506.0 <sup>1)</sup> | 359.0  | 479.0 <sup>1)</sup> | 347.0   | 430.0 <sup>1)</sup> | 332.0   | 381.0 <sup>1)</sup> | 310.0   | 337.0 <sup>1)</sup> | 284.0   | 295.0 <sup>1)</sup> | 248.0   | 249.0 <sup>1)</sup> | 225.0   | 225.0               | 194.0   | 194.0               | 167.0   | 167.0               | 143.0   | 143.0 <sup>1)</sup> | 121.0*  | 122.0 <sup>1)</sup> | 103.0*  | 103.0 <sup>1)</sup> |        |
| 110 | BV      |           | 560.0 <sup>1)</sup> | 371.0  | 507.0 <sup>1)</sup> | 357.0   | 435.0 <sup>1)</sup> | 334.0   | 383.0 <sup>1)</sup> | 310.0   | 339.0 <sup>1)</sup> | 283.0   | 295.0 <sup>1)</sup> | 250.0   | 252.0 <sup>1)</sup> | 228.0   | 228.0               | 195.0   | 195.0               | 168.0   | 168.0               | 142.0   | 142.0               |         |                     |         |                     |        |
| 120 | B       |           | 471.0 <sup>1)</sup> | 334.0  | 458.0 <sup>1)</sup> | 323.0   | 418.0 <sup>1)</sup> | 310.0   | 378.0 <sup>1)</sup> | 295.0   | 336.0 <sup>1)</sup> | 273.0   | 294.0 <sup>1)</sup> | 238.0   | 247.0 <sup>1)</sup> | 221.0   | 223.0 <sup>1)</sup> | 191.0   | 191.0               | 165.0   | 165.0               | 141.0   | 141.0               | 121.0   | 121.0 <sup>1)</sup> | 101.0*  | 102.0 <sup>1)</sup> |        |
| 120 | BV      |           | 520.0 <sup>1)</sup> | 344.0  | 497.0 <sup>1)</sup> | 333.0   | 432.0 <sup>1)</sup> | 316.0   | 382.0 <sup>1)</sup> | 295.0   | 338.0 <sup>1)</sup> | 271.0   | 296.0 <sup>1)</sup> | 241.0   | 250.0 <sup>1)</sup> | 223.0   | 226.0 <sup>1)</sup> | 193.0   | 193.0               | 166.0   | 166.0               | 142.0   | 142.0               | 122.0   | 122.0               |         |                     |        |
| 130 | B       |           | 438.0 <sup>1)</sup> |        | 426.0 <sup>1)</sup> | 300.0   | 405.0 <sup>1)</sup> | 290.0   | 373.0 <sup>1)</sup> | 279.0   | 335.0 <sup>1)</sup> | 261.0   | 293.0 <sup>1)</sup> | 229.0   | 245.0 <sup>1)</sup> | 216.0   | 222.0 <sup>1)</sup> | 188.0   | 190.0 <sup>1)</sup> | 162.0   | 162.0 <sup>1)</sup> | 139.0   | 139.0               | 120.0   | 120.0               | 102.0   | 102.0               |        |
| 130 | BV      |           | 480.0 <sup>1)</sup> |        | 471.0 <sup>1)</sup> | 309.0   | 429.0 <sup>1)</sup> | 299.0   | 379.0 <sup>1)</sup> | 281.0   | 337.0 <sup>1)</sup> | 260.0   | 296.0 <sup>1)</sup> | 232.0   | 248.0 <sup>1)</sup> | 217.0   | 225.0 <sup>1)</sup> | 190.0   | 192.0 <sup>1)</sup> | 164.0   | 164.0 <sup>1)</sup> | 140.0   | 140.0               | 120.0   | 120.0               | 102.0   | 102.0               |        |
| 140 | B       |           | 401.0 <sup>1)</sup> |        | 394.0 <sup>1)</sup> | 281.0   | 389.0 <sup>1)</sup> | 271.0   | 367.0 <sup>1)</sup> | 263.0   | 332.0 <sup>1)</sup> | 250.0   | 290.0 <sup>1)</sup> | 219.0   | 243.0 <sup>1)</sup> | 210.0   | 222.0 <sup>1)</sup> | 185.0   | 190.0 <sup>1)</sup> | 160.0   | 162.0 <sup>1)</sup> | 138.0   | 138.0 <sup>1)</sup> | 118.0   | 118.0               | 100.0   | 100.0               |        |
| 140 | BV      |           | 443.0 <sup>1)</sup> |        | 439.0 <sup>1)</sup> | 283.0   | 419.0 <sup>1)</sup> | 279.0   | 377.0 <sup>1)</sup> | 267.0   | 335.0 <sup>1)</sup> | 248.0   | 294.0 <sup>1)</sup> | 222.0   | 247.0 <sup>1)</sup> | 210.0   | 225.0 <sup>1)</sup> | 187.0   | 192.0 <sup>1)</sup> | 162.0   | 163.0 <sup>1)</sup> | 139.0   | 139.0 <sup>1)</sup> | 119.0   | 119.0               | 101.0   | 101.0               |        |
| 150 | B       |           | 368.0 <sup>1)</sup> |        | 367.0 <sup>1)</sup> |         | 363.0 <sup>1)</sup> | 254.0   | 357.0 <sup>1)</sup> | 246.0   | 329.0 <sup>1)</sup> | 237.0   | 286.0 <sup>1)</sup> | 210.0   | 240.0 <sup>1)</sup> | 204.0   | 221.0 <sup>1)</sup> | 182.0   | 189.0 <sup>1)</sup> | 158.0   | 161.0 <sup>1)</sup> | 136.0   | 137.0 <sup>1)</sup> | 116.0   | 117.0 <sup>1)</sup> | 98.6    | 98.6                |        |
| 150 | BV      |           | 410.0 <sup>1)</sup> |        | 408.0 <sup>1)</sup> |         | 402.0 <sup>1)</sup> | 262.0   | 370.0 <sup>1)</sup> | 253.0   | 333.0 <sup>1)</sup> | 237.0   | 291.0 <sup>1)</sup> | 212.0   | 243.0 <sup>1)</sup> | 204.0   | 225.0 <sup>1)</sup> | 184.0   | 192.0 <sup>1)</sup> | 159.0   | 163.0 <sup>1)</sup> | 137.0   | 138.0 <sup>1)</sup> | 117.0   | 118.0 <sup>1)</sup> | 99.3    | 99.3                |        |
| 160 | B       |           | 341.0 <sup>1)</sup> |        | 340.0 <sup>1)</sup> |         | 338.0 <sup>1)</sup> | 231.0   | 334.0 <sup>1)</sup> | 231.0   | 323.0 <sup>1)</sup> | 224.0   | 282.0 <sup>1)</sup> | 200.0   | 236.0 <sup>1)</sup> | 197.0   | 220.0 <sup>1)</sup> | 179.0   | 189.0 <sup>1)</sup> | 155.0   | 161.0 <sup>1)</sup> | 134.0   | 136.0 <sup>1)</sup> | 115.0   | 116.0 <sup>1)</sup> | 97.1    | 97.6 <sup>1)</sup>  |        |
| 160 | BV      |           | 381.0 <sup>1)</sup> |        | 380.0 <sup>1)</sup> |         | 377.0 <sup>1)</sup> | 231.0   | 359.0 <sup>1)</sup> | 237.0   | 328.0 <sup>1)</sup> | 226.0   | 287.0 <sup>1)</sup> | 203.0   | 239.0 <sup>1)</sup> | 197.0   | 223.0 <sup>1)</sup> | 179.0   | 191.0 <sup>1)</sup> | 157.0   | 162.0 <sup>1)</sup> | 135.0   | 138.0 <sup>1)</sup> | 115.0   | 117.0 <sup>1)</sup> | 97.8    | 98.3 <sup>1)</sup>  |        |
| 170 | B       |           | 314.0 <sup>1)</sup> |        | 318.0 <sup>1)</sup> |         | 316.0 <sup>1)</sup> | 216.0   | 310.0 <sup>1)</sup> | 210.0   | 310.0 <sup>1)</sup> | 210.0   | 276.0 <sup>1)</sup> | 191.0   | 232.0 <sup>1)</sup> | 190.0   | 218.0 <sup>1)</sup> | 174.0   | 187.0 <sup>1)</sup> | 153.0   | 160.0 <sup>1)</sup> | 132.0   | 136.0 <sup>1)</sup> | 113.0   | 115.0 <sup>1)</sup> | 95.6    | 96.7 <sup>1)</sup>  |        |
| 170 | BV      |           | 352.0 <sup>1)</sup> |        | 355.0 <sup>1)</sup> |         | 353.0 <sup>1)</sup> | 216.0   | 321.0 <sup>1)</sup> | 215.0   | 321.0 <sup>1)</sup> | 215.0   | 283.0 <sup>1)</sup> | 193.0   | 235.0 <sup>1)</sup> | 190.0   | 221.0 <sup>1)</sup> | 174.0   | 190.0 <sup>1)</sup> | 155.0   | 162.0 <sup>1)</sup> | 133.0   | 137.0 <sup>1)</sup> | 114.0   | 116.0 <sup>1)</sup> | 96.3    | 97.5 <sup>1)</sup>  |        |
| 180 | B       |           | 286.0 <sup>1)</sup> |        | 295.0 <sup>1)</sup> |         | 297.0 <sup>1)</sup> | 183.0   | 294.0 <sup>1)</sup> | 183.0   | 291.0 <sup>1)</sup> | 198.0   | 270.0 <sup>1)</sup> | 184.0   | 227.0 <sup>1)</sup> | 183.0   | 216.0 <sup>1)</sup> | 169.0   | 187.0 <sup>1)</sup> | 151.0   | 158.0 <sup>1)</sup> | 130.0   | 135.0 <sup>1)</sup> | 111.0   | 114.0 <sup>1)</sup> | 94.1    | 95.8 <sup>1)</sup>  |        |
| 180 | BV      |           | 323.0 <sup>1)</sup> |        | 330.0 <sup>1)</sup> |         | 329.0 <sup>1)</sup> | 183.0   | 312.0 <sup>1)</sup> | 199.0   | 276.0 <sup>1)</sup> | 186.0   | 231.0 <sup>1)</sup> | 183.0   | 220.0 <sup>1)</sup> | 183.0   | 220.0 <sup>1)</sup> | 169.0   | 190.0 <sup>1)</sup> | 152.0   | 160.0 <sup>1)</sup> | 131.0   | 136.0 <sup>1)</sup> | 112.0   | 115.0 <sup>1)</sup> | 94.8    | 96.6 <sup>1)</sup>  |        |
| 190 | B       |           | 261.0 <sup>1)</sup> |        | 273.0 <sup>1)</sup> |         | 278.0 <sup>1)</sup> |         | 277.0 <sup>1)</sup> |         | 275.0 <sup>1)</sup> | 181.0   | 260.0 <sup>1)</sup> | 175.0   | 220.0 <sup>1)</sup> | 174.0   | 215.0 <sup>1)</sup> | 164.0   | 186.0 <sup>1)</sup> | 148.0   | 158.0 <sup>1)</sup> | 128.0   | 134.0 <sup>1)</sup> | 110.0   | 113.0 <sup>1)</sup> | 92.6    | 94.9 <sup>1)</sup>  |        |
| 190 | BV      |           | 296.0 <sup>1)</sup> |        | 306.0 <sup>1)</sup> |         | 308.0 <sup>1)</sup> |         | 306.0 <sup>1)</sup> |         | 296.0 <sup>1)</sup> | 179.0   | 266.0 <sup>1)</sup> | 177.0   | 226.0 <sup>1)</sup> | 176.0   | 219.0 <sup>1)</sup> | 163.0   | 189.0 <sup>1)</sup> | 148.0   | 160.0 <sup>1)</sup> | 129.0   | 135.0 <sup>1)</sup> | 111.0   | 114.0 <sup>1)</sup> | 93.4    | 95.8 <sup>1)</sup>  |        |
| 200 | B       |           | 243.0 <sup>1)</sup> |        | 250.0 <sup>1)</sup> |         | 259.0 <sup>1)</sup> |         | 260.0 <sup>1)</sup> |         | 259.0 <sup>1)</sup> | 154.0   | 249.0 <sup>1)</sup> | 166.0   | 213.0 <sup>1)</sup> | 164.0   | 214.0 <sup>1)</sup> | 158.0   | 185.0 <sup>1)</sup> | 144.0   | 157.0 <sup>1)</sup> | 126.0   | 133.0 <sup>1)</sup> | 108.0   | 112.0 <sup>1)</sup> | 91.1    | 93.8 <sup>1)</sup>  |        |
| 200 | BV      |           | 276.0 <sup>1)</sup> |        | 282.0 <sup>1)</sup> |         | 287.0 <sup>1)</sup> |         | 287.0 <sup>1)</sup> |         | 280.0 <sup>1)</sup> | 153.0   | 256.0 <sup>1)</sup> | 167.0   | 221.0 <sup>1)</sup> | 169.0   | 218.0 <sup>1)</sup> | 158.0   | 188.0 <sup>1)</sup> | 144.0   | 159.0 <sup>1)</sup> | 127.0   | 135.0 <sup>1)</sup> | 109.0   | 113.0 <sup>1)</sup> | 92.0    | 94.7 <sup>1)</sup>  |        |
| 220 | B       |           | 206.0 <sup>1)</sup> |        | 213.0 <sup>1)</sup> |         | 222.0 <sup>1)</sup> |         | 227.0 <sup>1)</sup> |         | 228.0 <sup>1)</sup> |         | 225.0 <sup>1)</sup> | 130.0   | 198.0 <sup>1)</sup> | 145.0   | 209.0 <sup>1)</sup> | 140.0   | 184.0 <sup>1)</sup> | 133.0   | 155.0 <sup>1)</sup> | 121.0   | 131.0 <sup>1)</sup> | 105.0   | 110.0 <sup>1)</sup> | 88.0    | 92.2 <sup>1)</sup>  |        |
| 220 | BV      |           | 236.0 <sup>1)</sup> |        | 244.0 <sup>1)</sup> |         | 248.0 <sup>1)</sup> |         | 250.0 <sup>1)</sup> |         | 249.0 <sup>1)</sup> |         | 236.0 <sup>1)</sup> | 130.0   | 212.0 <sup>1)</sup> | 146.0   | 212.0 <sup>1)</sup> | 144.0   | 186.0 <sup>1)</sup> | 134.0   | 157.0 <sup>1)</sup> | 120.0   | 133.0 <sup>1)</sup> | 106.0   | 112.0 <sup>1)</sup> | 88.9    | 93.1 <sup>1)</sup>  |        |
| 240 | B       |           | 177.0 <sup>1)</sup> |        | 182.0 <sup>1)</sup> |         | 190.0 <sup>1)</sup> |         | 195.0 <sup>1)</sup> |         | 198.0 <sup>1)</sup> |         | 199.0 <sup>1)</sup> |         | 184.0 <sup>1)</sup> | 111.0   | 190.0 <sup>1)</sup> | 123.0   | 177.0 <sup>1)</sup> | 118.0   | 153.0 <sup>1)</sup> | 111.0   | 129.0 <sup>1)</sup> | 101.0   | 109.0 <sup>1)</sup> | 84.8    | 89.8 <sup>1)</sup>  |        |
| 240 | BV      |           | 205.0 <sup>1)</sup> |        | 210.0 <sup>1)</sup> |         | 218.0 <sup>1)</sup> |         | 221.0 <sup>1)</sup> |         | 220.0 <sup>1)</sup> |         | 215.0 <sup>1)</sup> |         | 202.0 <sup>1)</sup> | 111.0   | 199.0 <sup>1)</sup> | 124.0   | 182.0 <sup>1)</sup> | 121.0   | 156.0 <sup>1)</sup> | 113.0   | 131.0 <sup>1)</sup> | 101.0   | 110.0 <sup>1)</sup> | 85.7    | 90.7 <sup>1)</sup>  |        |
| 260 | B       |           |                     |        | 156.0 <sup>1)</sup> |         | 163.0 <sup>1)</sup> |         | 169.0 <sup>1)</sup> |         | 174.0 <sup>1)</sup> |         | 174.0 <sup>1)</sup> |         | 167.0 <sup>1)</sup> |         | 172.0 <sup>1)</sup> | 93.8    | 164.0 <sup>1)</sup> | 103.0   | 150.0 <sup>1)</sup> | 98.1    | 128.0 <sup>1)</sup> | 93.0    | 107.0 <sup>1)</sup> | 81.8    | 88.2 <sup>1)</sup>  |        |
| 260 | BV      |           |                     |        | 182.0 <sup>1)</sup> |         | 189.0 <sup>1)</sup> |         | 195.0 <sup>1)</sup> |         | 199.0 <sup>1)</sup> |         | 195.0 <sup>1)</sup> |         | 190.0 <sup>1)</sup> |         | 188.0 <sup>1)</sup> | 93.8    | 174.0 <sup>1)</sup> | 104.0   | 151.0 <sup>1)</sup> | 102.0   | 130.0 <sup>1)</sup> | 94.8    | 108.0 <sup>1)</sup> | 82.8    | 89.2 <sup>1)</sup>  |        |
| 280 | B       | </        |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |        |



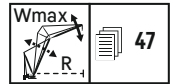
|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



|       |    | HS 256 ft           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
|-------|----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|------|--------|
| ft    | ft | W79 ft              |                     | W98 ft              |                     | W118 ft             |                     | W138 ft             |                     | W158 ft             |                     | W177 ft             |                     | W197 ft             |                     | W217 ft             |                     | W236 ft             |                     | W256 ft             |                     | W276 ft             |                     | W295 ft             |                    | W315 ft            |      |        |
|       |    | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax                | 87°/85              | Wmax               | 87°/85             | Wmax | 87°/85 |
| 50    | B  | 529.0*              | 540.0 <sup>1)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 50    | BV |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 60    | B  | 536.0               | 541.0 <sup>1)</sup> | 452.0*              | 477.0 <sup>1)</sup> | 415.0*              | 422.0 <sup>1)</sup> | 376.0*              | 376.0*              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 60    | BV | 544.0               | 548.0 <sup>1)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 70    | B  | 502.0               | 537.0 <sup>1)</sup> | 463.0               | 475.0 <sup>1)</sup> | 424.0               | 424.0 <sup>1)</sup> | 357.0*              | 373.0 <sup>1)</sup> | 323.0*              | 327.0 <sup>1)</sup> | 288.0*              | 288.0*              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 70    | BV | 509.0               | 545.0 <sup>1)</sup> | 466.0               | 480.0 <sup>1)</sup> | 425.0               | 425.0 <sup>1)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 80    | B  | 463.0               | 533.0 <sup>1)</sup> | 436.0               | 470.0 <sup>1)</sup> | 402.0               | 419.0 <sup>1)</sup> | 366.0               | 367.0 <sup>1)</sup> | 330.0               | 330.0               | 279.0*              | 286.0 <sup>1)</sup> | 247.0*              | 249.0 <sup>1)</sup> | 218.0*              | 218.0*              |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 80    | BV | 472.0               | 542.0 <sup>1)</sup> | 437.0               | 475.0 <sup>1)</sup> | 401.0               | 420.0 <sup>1)</sup> | 366.0               | 368.0 <sup>1)</sup> | 330.0               | 330                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 90    | B  | 421.0               | 525.0 <sup>1)</sup> | 401.0               | 466.0 <sup>1)</sup> | 378.0               | 413.0 <sup>1)</sup> | 347.0               | 353.0 <sup>1)</sup> | 316.0               | 316.0               | 284.0               | 284.0               | 249.0               | 249.0               | 213.0*              | 216.0 <sup>1)</sup> | 184.0*              | 185.0 <sup>1)</sup> | 160.0*              | 160.0*              |                     |                     |                     |                    |                    |      |        |
| 90    | BV | 433.0               | 537.0 <sup>1)</sup> | 408.0               | 470.0 <sup>1)</sup> | 378.0               | 415.0 <sup>1)</sup> | 347.0               | 355.0 <sup>1)</sup> | 316.0               | 318.0 <sup>1)</sup> | 285.0               | 285                 | 251.0               | 251.0               |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 100   | B  | 382.0               | 505.0 <sup>1)</sup> | 366.0               | 458.0 <sup>1)</sup> | 351.0               | 408.0 <sup>1)</sup> | 327.0               | 350.0 <sup>1)</sup> | 300.0               | 308.0 <sup>1)</sup> | 273.0               | 273.0               | 241.0               | 241.0               | 215.0               | 215.0               | 180.0*              | 184.0 <sup>1)</sup> | 156.0*              | 158.0 <sup>1)</sup> | 134.0*              | 135.0 <sup>1)</sup> | 116.0*              | 116.0*             |                    |      |        |
| 100   | BV | 395.0               | 528.0 <sup>1)</sup> | 377.0               | 464.0 <sup>1)</sup> | 353.0               | 411.0 <sup>1)</sup> | 327.0               | 350.0 <sup>1)</sup> | 300.0               | 309.0 <sup>1)</sup> | 273.0               | 273                 | 243.0               | 243.0               | 217.0               | 217.0               |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |
| 110   | B  | 485.0 <sup>1)</sup> | 337.0               | 448.0 <sup>1)</sup> | 325.0               | 394.0 <sup>1)</sup> | 310.0               | 347.0 <sup>1)</sup> | 286.0               | 307.0 <sup>1)</sup> | 262.0               | 270.0 <sup>1)</sup> | 233.0               | 233.0 <sup>1)</sup> | 211.0               | 211.0               | 182.0               | 182.0               | 157.0               | 157.0 <sup>1)</sup> | 132.0*              | 134.0 <sup>1)</sup> | 114.0*              | 115.0 <sup>1)</sup> | 96.9*              | 97.1 <sup>1)</sup> |      |        |
| 110   | BV | 520.0 <sup>1)</sup> | 348.0               | 457.0 <sup>1)</sup> | 332.0               | 398.0 <sup>1)</sup> | 309.0               | 349.0 <sup>1)</sup> | 286.0               | 308.0 <sup>1)</sup> | 262.0               | 271.0 <sup>1)</sup> | 236.0               | 236.0 <sup>1)</sup> | 212.0               | 212.0               | 184.0               | 184.0               | 158.0               | 158.0               |                     |                     |                     |                     |                    |                    |      |        |
| 120   | B  | 458.0 <sup>1)</sup> | 316.0               | 438.0 <sup>1)</sup> | 303.0               | 387.0 <sup>1)</sup> | 290.0               | 345.0 <sup>1)</sup> | 273.0               | 306.0 <sup>1)</sup> | 252.0               | 270.0 <sup>1)</sup> | 225.0               | 232.0 <sup>1)</sup> | 206.0               | 208.0 <sup>1)</sup> | 180.0               | 180.0               | 155.0               | 155.0               | 133.0               | 133.0               | 114.0               | 114.0 <sup>1)</sup> | 95.2*              | 96.5 <sup>1)</sup> |      |        |
| 120   | BV | 499.0 <sup>1)</sup> | 326.0               | 450.0 <sup>1)</sup> | 312.0               | 391.0 <sup>1)</sup> | 293.0               | 347.0 <sup>1)</sup> | 272.0               | 307.0 <sup>1)</sup> | 251.0               | 271.0 <sup>1)</sup> | 228.0               | 235.0 <sup>1)</sup> | 207.0               | 209.0 <sup>1)</sup> | 181.0               | 181.0               | 156.0               | 156.0               |                     |                     |                     |                     |                    |                    |      |        |
| 130   | B  | 424.0 <sup>1)</sup> | 283.0               | 416.0 <sup>1)</sup> | 283.0               | 382.0 <sup>1)</sup> | 272.0               | 342.0 <sup>1)</sup> | 259.0               | 305.0 <sup>1)</sup> | 241.0               | 269.0 <sup>1)</sup> | 217.0               | 230.0 <sup>1)</sup> | 201.0               | 207.0 <sup>1)</sup> | 177.0               | 178.0 <sup>1)</sup> | 153.0               | 153.0 <sup>1)</sup> | 132.0               | 132.0               | 113.0               | 113.0               | 95.8               | 95.8               |      |        |
| 130   | BV | 467.0 <sup>1)</sup> | 292.0               | 437.0 <sup>1)</sup> | 292.0               | 388.0 <sup>1)</sup> | 278.0               | 344.0 <sup>1)</sup> | 259.0               | 306.0 <sup>1)</sup> | 241.0               | 270.0 <sup>1)</sup> | 220.0               | 234.0 <sup>1)</sup> | 201.0               | 208.0 <sup>1)</sup> | 179.0               | 180.0 <sup>1)</sup> | 154.0               | 154.0               | 133.0               | 133.0               | 114.0               | 114.0               | 96.3               | 96.3               |      |        |
| 140   | B  | 391.0 <sup>1)</sup> | 267.0               | 387.0 <sup>1)</sup> | 267.0               | 377.0 <sup>1)</sup> | 256.0               | 338.0 <sup>1)</sup> | 245.0               | 302.0 <sup>1)</sup> | 231.0               | 269.0 <sup>1)</sup> | 208.0               | 229.0 <sup>1)</sup> | 195.0               | 207.0 <sup>1)</sup> | 174.0               | 178.0 <sup>1)</sup> | 151.0               | 152.0 <sup>1)</sup> | 130.0               | 130.0 <sup>1)</sup> | 111.0               | 111.0 <sup>1)</sup> | 94.6               | 94.6               |      |        |
| 140   | BV | 434.0 <sup>1)</sup> | 275.0               | 419.0 <sup>1)</sup> | 275.0               | 384.0 <sup>1)</sup> | 263.0               | 341.0 <sup>1)</sup> | 246.0               | 304.0 <sup>1)</sup> | 230.0               | 270.0 <sup>1)</sup> | 211.0               | 233.0 <sup>1)</sup> | 194.0               | 208.0 <sup>1)</sup> | 175.0               | 180.0 <sup>1)</sup> | 152.0               | 154.0 <sup>1)</sup> | 131.0               | 131.0 <sup>1)</sup> | 112.0               | 112.0               | 95.1               | 95.1               |      |        |
| 150   | B  | 363.0 <sup>1)</sup> | 259.0               | 359.0 <sup>1)</sup> | 259.0               | 356.0 <sup>1)</sup> | 241.0               | 335.0 <sup>1)</sup> | 231.0               | 299.0 <sup>1)</sup> | 221.0               | 266.0 <sup>1)</sup> | 200.0               | 227.0 <sup>1)</sup> | 188.0               | 207.0 <sup>1)</sup> | 170.0               | 178.0 <sup>1)</sup> | 149.0               | 152.0 <sup>1)</sup> | 128.0               | 129.0 <sup>1)</sup> | 110.0               | 110.0 <sup>1)</sup> | 93.3               | 93.3               |      |        |
| 150   | BV | 402.0 <sup>1)</sup> | 268.0               | 393.0 <sup>1)</sup> | 268.0               | 373.0 <sup>1)</sup> | 248.0               | 339.0 <sup>1)</sup> | 236.0               | 302.0 <sup>1)</sup> | 220.0               | 268.0 <sup>1)</sup> | 203.0               | 231.0 <sup>1)</sup> | 188.0               | 208.0 <sup>1)</sup> | 170.0               | 180.0 <sup>1)</sup> | 150.0               | 154.0 <sup>1)</sup> | 129.0               | 131.0 <sup>1)</sup> | 111.0               | 111.0 <sup>1)</sup> | 93.9               | 93.9               |      |        |
| 160   | B  | 337.0 <sup>1)</sup> | 251.0               | 335.0 <sup>1)</sup> | 251.0               | 333.0 <sup>1)</sup> | 227.0               | 323.0 <sup>1)</sup> | 218.0               | 296.0 <sup>1)</sup> | 209.0               | 264.0 <sup>1)</sup> | 192.0               | 224.0 <sup>1)</sup> | 182.0               | 206.0 <sup>1)</sup> | 166.0               | 178.0 <sup>1)</sup> | 146.0               | 152.0 <sup>1)</sup> | 126.0               | 129.0 <sup>1)</sup> | 108.0               | 110.0 <sup>1)</sup> | 91.9               | 92.3 <sup>1)</sup> |      |        |
| 160   | BV | 372.0 <sup>1)</sup> | 260.0               | 368.0 <sup>1)</sup> | 260.0               | 357.0 <sup>1)</sup> | 234.0               | 329.0 <sup>1)</sup> | 224.0               | 299.0 <sup>1)</sup> | 211.0               | 266.0 <sup>1)</sup> | 194.0               | 228.0 <sup>1)</sup> | 181.0               | 207.0 <sup>1)</sup> | 165.0               | 180.0 <sup>1)</sup> | 148.0               | 153.0 <sup>1)</sup> | 127.0               | 130.0 <sup>1)</sup> | 109.0               | 111.0 <sup>1)</sup> | 92.6               | 93.1 <sup>1)</sup> |      |        |
| 170   | B  | 312.0 <sup>1)</sup> | 244.0               | 314.0 <sup>1)</sup> | 244.0               | 311.0 <sup>1)</sup> | 220.0               | 307.0 <sup>1)</sup> | 205.0               | 289.0 <sup>1)</sup> | 198.0               | 261.0 <sup>1)</sup> | 184.0               | 221.0 <sup>1)</sup> | 176.0               | 204.0 <sup>1)</sup> | 161.0               | 177.0 <sup>1)</sup> | 144.0               | 151.0 <sup>1)</sup> | 124.0               | 128.0 <sup>1)</sup> | 107.0               | 109.0 <sup>1)</sup> | 90.5               | 91.5 <sup>1)</sup> |      |        |
| 170   | BV | 346.0 <sup>1)</sup> | 253.0               | 343.0 <sup>1)</sup> | 253.0               | 337.0 <sup>1)</sup> | 231.0               | 319.0 <sup>1)</sup> | 212.0               | 291.0 <sup>1)</sup> | 203.0               | 264.0 <sup>1)</sup> | 186.0               | 225.0 <sup>1)</sup> | 175.0               | 206.0 <sup>1)</sup> | 160.0               | 179.0 <sup>1)</sup> | 144.0               | 153.0 <sup>1)</sup> | 126.0               | 130.0 <sup>1)</sup> | 108.0               | 110.0 <sup>1)</sup> | 91.2               | 92.3 <sup>1)</sup> |      |        |
| 180   | B  | 287.0 <sup>1)</sup> | 233.0               | 293.0 <sup>1)</sup> | 233.0               | 293.0 <sup>1)</sup> | 219.0               | 279.0 <sup>1)</sup> | 190.0               | 279.0 <sup>1)</sup> | 187.0               | 256.0 <sup>1)</sup> | 177.0               | 218.0 <sup>1)</sup> | 170.0               | 202.0 <sup>1)</sup> | 156.0               | 176.0 <sup>1)</sup> | 140.0               | 150.0 <sup>1)</sup> | 123.0               | 128.0 <sup>1)</sup> | 105.0               | 108.0 <sup>1)</sup> | 89.1               | 90.8 <sup>1)</sup> |      |        |
| 180   | BV | 321.0 <sup>1)</sup> | 242.0               | 321.0 <sup>1)</sup> | 242.0               | 318.0 <sup>1)</sup> | 230.0               | 308.0 <sup>1)</sup> | 190.0               | 283.0 <sup>1)</sup> | 193.0               | 258.0 <sup>1)</sup> | 180.0               | 222.0 <sup>1)</sup> | 168.0               | 204.0 <sup>1)</sup> | 155.0               | 178.0 <sup>1)</sup> | 140.0               | 152.0 <sup>1)</sup> | 123.0               | 129.0 <sup>1)</sup> | 106.0               | 109.0 <sup>1)</sup> | 89.8               | 91.6 <sup>1)</sup> |      |        |
| 190   | B  | 262.0 <sup>1)</sup> | 227.0               | 272.0 <sup>1)</sup> | 227.0               | 276.0 <sup>1)</sup> | 219.0               | 273.0 <sup>1)</sup> | 181.0               | 269.0 <sup>1)</sup> | 177.0               | 249.0 <sup>1)</sup> | 169.0               | 212.0 <sup>1)</sup> | 163.0               | 200.0 <sup>1)</sup> | 151.0               | 175.0 <sup>1)</sup> | 137.0               | 150.0 <sup>1)</sup> | 120.0               | 126.0 <sup>1)</sup> | 104.0               | 108.0 <sup>1)</sup> | 87.6               | 90.1 <sup>1)</sup> |      |        |
| 190   | BV | 295.0 <sup>1)</sup> | 236.0               | 300.0 <sup>1)</sup> | 236.0               | 299.0 <sup>1)</sup> | 229.0               | 293.0 <sup>1)</sup> | 181.0               | 275.0 <sup>1)</sup> | 181.0               | 253.0 <sup>1)</sup> | 173.0               | 218.0 <sup>1)</sup> | 163.0               | 202.0 <sup>1)</sup> | 150.0               | 177.0 <sup>1)</sup> | 136.0               | 152.0 <sup>1)</sup> | 121.0               | 128.0 <sup>1)</sup> | 105.0               | 109.0 <sup>1)</sup> | 88.5               | 90.9 <sup>1)</sup> |      |        |
| 200   | B  | 240.0 <sup>1)</sup> | 216.0               | 251.0 <sup>1)</sup> | 216.0               | 258.0 <sup>1)</sup> | 216.0               | 258.0 <sup>1)</sup> | 160.0               | 254.0 <sup>1)</sup> | 160.0               | 243.0 <sup>1)</sup> | 160.0               | 207.0 <sup>1)</sup> | 154.0               | 198.0 <sup>1)</sup> | 146.0               | 174.0 <sup>1)</sup> | 133.0               | 149.0 <sup>1)</sup> | 118.0               | 126.0 <sup>1)</sup> | 102.0               | 106.0 <sup>1)</sup> | 86.2               | 89.3 <sup>1)</sup> |      |        |
| 200   | BV | 273.0 <sup>1)</sup> | 225.0               | 280.0 <sup>1)</sup> | 225.0               | 281.0 <sup>1)</sup> | 237.0               | 277.0 <sup>1)</sup> | 160.0               | 265.0 <sup>1)</sup> | 160.0               | 247.0 <sup>1)</sup> | 163.0               | 214.0 <sup>1)</sup> | 159.0               | 199.0 <sup>1)</sup> | 145.0               | 175.0 <sup>1)</sup> | 132.0               | 151.0 <sup>1)</sup> | 117.0               | 128.0 <sup>1)</sup> | 103.0               | 108.0 <sup>1)</sup> | 87.1               | 90.2 <sup>1)</sup> |      |        |
| 220   | B  | 206.0 <sup>1)</sup> | 206.0               | 211.0 <sup>1)</sup> | 206.0               | 222.0 <sup>1)</sup> | 206.0               | 227.0 <sup>1)</sup> | 160.0               | 227.0 <sup>1)</sup> | 160.0               | 223.0 <sup>1)</sup> | 134.0               | 193.0 <sup>1)</sup> | 137.0               | 192.0 <sup>1)</sup> | 131.0               | 171.0 <sup>1)</sup> | 123.0               | 147.0 <sup>1)</sup> | 111.0               | 124.0 <sup>1)</sup> | 98.4                | 105.0 <sup>1)</sup> | 83.3               | 87.5 <sup>1)</sup> |      |        |
| 220   | BV | 236.0 <sup>1)</sup> | 211.0               | 241.0 <sup>1)</sup> | 211.0               | 247.0 <sup>1)</sup> | 211.0               | 247.0 <sup>1)</sup> | 160.0               | 241.0 <sup>1)</sup> | 160.0               | 229.0 <sup>1)</sup> | 134.0               | 205.0 <sup>1)</sup> | 142.0               | 194.0 <sup>1)</sup> | 135.0               | 173.0 <sup>1)</sup> | 123.0               | 149.0 <sup>1)</sup> | 110.0               | 126.0 <sup>1)</sup> | 98.5                | 106.0 <sup>1)</sup> | 84.2               | 88.5 <sup>1)</sup> |      |        |
| 240   | B  | 174.0 <sup>1)</sup> | 182.0 <sup>1)</sup> | 188.0 <sup>1)</sup> | 182.0               | 196.0 <sup>1)</sup> | 199.0 <sup>1)</sup> | 199.0 <sup>1)</sup> | 160.0               | 199.0 <sup>1)</sup> | 160.0               | 198.0 <sup>1)</sup> | 177.0 <sup>1)</sup> | 115.0               | 183.0 <sup>1)</sup> | 116.0               | 166.0 <sup>1)</sup> | 110.0               | 145.0 <sup>1)</sup> | 103.0               | 123.0 <sup>1)</sup> | 93.2                | 103.0 <sup>1)</sup> | 80.3                | 85.6 <sup>1)</sup> |                    |      |        |
| 240   | BV | 202.0 <sup>1)</sup> | 210.0 <sup>1)</sup> | 216.0 <sup>1)</sup> | 210.0               | 219.0 <sup>1)</sup> | 219.0 <sup>1)</sup> | 219.0 <sup>1)</sup> | 160.0               | 219.0 <sup>1)</sup> | 160.0               | 197.0 <sup>1)</sup> | 115.0               | 185.0 <sup>1)</sup> | 120.0               | 168.0 <sup>1)</sup> | 113.0               | 146.0 <sup>1)</sup> | 103.0               | 126.0 <sup>1)</sup> | 92.6                | 105.0 <sup>1)</sup> | 81.0                | 86.6 <sup>1)</sup>  |                    |                    |      |        |
| 260   | B  | 150.0 <sup>1)</sup> | 154.0 <sup>1)</sup> | 163.0 <sup>1)</sup> | 154.0               | 168.0 <sup>1)</sup> | 172.0 <sup>1)</sup> | 172.0 <sup>1)</sup> | 160.0               | 172.0 <sup>1)</sup> | 160.0               | 174.0 <sup>1)</sup> | 162.0 <sup>1)</sup> | 115.0               | 169.0 <sup>1)</sup> | 97.4                | 157.0 <sup>1)</sup> | 97.5                | 141.0 <sup>1)</sup> | 91.2                | 121.0 <sup>1)</sup> | 86.0                | 102.0 <sup>1)</sup> | 77.1                | 84.2 <sup>1)</sup> |                    |      |        |
| 260   | BV | 176.0 <sup>1)</sup> | 180.0 <sup>1)</sup> | 189.0 <sup>1)</sup> | 176.0               | 194.0 <sup>1)</sup> | 194.0 <sup>1)</sup> | 194.0 <sup>1)</sup> | 160.0               | 194.0 <sup>1)</sup> | 160.0               | 185.0 <sup>1)</sup> | 115.0               | 185.0 <sup>1)</sup> | 120.0               | 178.0 <sup>1)</sup> | 97.2                | 163.0 <sup>1)</sup> | 101.0               | 144.0 <sup>1)</sup> | 94.3                | 123.0 <sup>1)</sup> | 86.7                | 103.0 <sup>1)</sup> | 76.5               | 85.3 <sup>1)</sup> |      |        |
| 280</ |    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                    |      |        |



|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



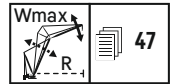
|     |         | HS 276 ft |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
|-----|---------|-----------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|--------|--------------------|--------|
| ft  | B<br>BV | W79ft     |                     | W98ft  |                     | W118ft |                     | W138ft |                     | W158ft |                     | W177ft |                     | W197ft |                     | W217ft |                     | W236ft |                     | W256ft |                     | W276ft |                     | W295ft |                     | W315ft |                    |        |
|     |         | 87*/85    | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax                | 87*/85 | Wmax               | 87*/85 |
| 50  | B       | 479.0*    | 486.0 <sup>1)</sup> |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 50  | BV      |           |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 60  | B       | 486.0     | 486.0 <sup>1)</sup> | 411.0* | 430.0 <sup>1)</sup> | 378.0* | 382.0 <sup>1)</sup> |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 60  | BV      | 493.0     | 493.0               |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 70  | B       | 457.0     | 481.0 <sup>1)</sup> | 421.0  | 428.0 <sup>1)</sup> | 386.0  | 386.0               | 327.0* | 338.0 <sup>1)</sup> | 297.0* | 299.0 <sup>1)</sup> |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 70  | BV      | 464.0     | 489.0 <sup>1)</sup> | 427.0  | 434.0 <sup>1)</sup> | 388.0  | 388.0               |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 80  | B       | 426.0     | 477.0 <sup>1)</sup> | 397.0  | 423.0 <sup>1)</sup> | 368.0  | 379.0 <sup>1)</sup> | 335.0  | 337.0 <sup>1)</sup> | 285.0* | 299.0 <sup>1)</sup> | 256.0* | 262.0 <sup>1)</sup> | 230.0* | 231.0 <sup>1)</sup> | 202.0* | 202.0*              |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 80  | BV      | 434.0     | 486.0 <sup>1)</sup> | 402.0  | 428.0 <sup>1)</sup> | 368.0  | 380.0 <sup>1)</sup> | 336.0  | 339.0 <sup>1)</sup> |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 90  | B       | 389.0     | 473.0 <sup>1)</sup> | 369.0  | 419.0 <sup>1)</sup> | 346.0  | 374.0 <sup>1)</sup> | 318.0  | 332.0 <sup>1)</sup> | 291.0  | 292.0 <sup>1)</sup> | 261.0  | 261.0               | 221.0* | 229.0 <sup>1)</sup> | 197.0* | 200.0 <sup>1)</sup> | 172.0* | 172.0 <sup>1)</sup> | 149.0* | 149.0*              |        |                     |        |                     |        |                    |        |
| 90  | BV      | 399.0     | 483.0 <sup>1)</sup> | 376.0  | 423.0 <sup>1)</sup> | 347.0  | 375.0 <sup>1)</sup> | 318.0  | 334.0 <sup>1)</sup> | 291.0  | 293.0 <sup>1)</sup> | 261.0  | 261.0               |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 100 | B       | 354.0     | 463.0 <sup>1)</sup> | 338.0  | 415.0 <sup>1)</sup> | 323.0  | 370.0 <sup>1)</sup> | 300.0  | 326.0 <sup>1)</sup> | 277.0  | 282.0 <sup>1)</sup> | 250.0  | 250.0 <sup>1)</sup> | 225.0  | 225.0               | 199.0  | 199.0 <sup>1)</sup> | 168.0* | 172.0 <sup>1)</sup> | 146.0* | 147.0 <sup>1)</sup> | 125.0* | 126.0 <sup>1)</sup> | 108.0* | 108.0*              |        |                    |        |
| 100 | BV      | 364.0     | 475.0 <sup>1)</sup> | 347.0  | 417.0 <sup>1)</sup> | 325.0  | 370.0 <sup>1)</sup> | 300.0  | 330.0 <sup>1)</sup> | 277.0  | 282.0 <sup>1)</sup> | 250.0  | 250.0               | 226.0  | 226.0               | 200.0  | 200.0               |        |                     |        |                     |        |                     |        |                     |        |                    |        |
| 110 | B       | 333.0     | 453.0 <sup>1)</sup> | 312.0  | 408.0 <sup>1)</sup> | 300.0  | 360.0 <sup>1)</sup> | 284.0  | 321.0 <sup>1)</sup> | 264.0  | 280.0 <sup>1)</sup> | 241.0  | 246.0 <sup>2)</sup> | 218.0  | 218.0               | 195.0  | 195.0               | 170.0  | 170.0               | 147.0  | 147.0 <sup>1)</sup> | 123.0* | 125.0 <sup>1)</sup> | 106.0* | 107.0 <sup>1)</sup> | 90.0*  | 90.0 <sup>1)</sup> |        |
| 110 | BV      | 344.0     | 466.0 <sup>1)</sup> | 321.0  | 411.0 <sup>1)</sup> | 306.0  | 361.0 <sup>1)</sup> | 284.0  | 326.0 <sup>1)</sup> | 264.0  | 280.0 <sup>2)</sup> | 240.0  | 246.0 <sup>2)</sup> | 219.0  | 219.0               | 195.0  | 195.0               | 172.0  | 172.0               | 148.0  | 148.0               |        |                     |        |                     |        |                    |        |
| 120 | B       |           | 444.0 <sup>1)</sup> | 292.0  | 401.0 <sup>1)</sup> | 281.0  | 352.0 <sup>2)</sup> | 266.0  | 312.0 <sup>2)</sup> | 252.0  | 279.0 <sup>2)</sup> | 231.0  | 245.0 <sup>2)</sup> | 211.0  | 216.0 <sup>2)</sup> | 190.0  | 191.0 <sup>2)</sup> | 168.0  | 168.0               | 145.0  | 145.0               | 125.0  | 125.0               | 107.0  | 107.0 <sup>1)</sup> | 88.9*  | 88.9 <sup>1)</sup> |        |
| 120 | BV      |           | 458.0 <sup>1)</sup> | 301.0  | 405.0 <sup>1)</sup> | 287.0  | 352.0 <sup>2)</sup> | 269.0  | 313.0 <sup>2)</sup> | 251.0  | 279.0 <sup>2)</sup> | 230.0  | 246.0 <sup>2)</sup> | 211.0  | 218.0 <sup>2)</sup> | 190.0  | 191.0 <sup>2)</sup> | 169.0  | 169.0               | 146.0  | 146.0               | 125.0  | 125.0               | 108.0  | 108.0               |        |                    |        |
| 130 | B       |           | 414.0 <sup>1)</sup> | 279.0  | 393.0 <sup>1)</sup> | 262.0  | 348.0 <sup>2)</sup> | 250.0  | 309.0 <sup>2)</sup> | 239.0  | 277.0 <sup>2)</sup> | 222.0  | 244.0 <sup>2)</sup> | 204.0  | 215.0 <sup>2)</sup> | 184.0  | 190.0 <sup>2)</sup> | 165.0  | 166.0 <sup>2)</sup> | 143.0  | 143.0               | 123.0  | 123.0               | 106.0  | 106.0               | 89.5   | 89.5               |        |
| 130 | BV      |           | 434.0 <sup>1)</sup> | 288.0  | 398.0 <sup>1)</sup> | 268.0  | 348.0 <sup>2)</sup> | 256.0  | 310.0 <sup>2)</sup> | 239.0  | 278.0 <sup>2)</sup> | 221.0  | 245.0 <sup>2)</sup> | 204.0  | 217.0 <sup>2)</sup> | 184.0  | 190.0 <sup>2)</sup> | 165.0  | 167.0 <sup>2)</sup> | 144.0  | 144.0               | 124.0  | 124.0               | 106.0  | 106.0               | 90.1   | 90.1               |        |
| 140 | B       |           | 384.0 <sup>2)</sup> |        | 376.0 <sup>2)</sup> | 248.0  | 343.0 <sup>2)</sup> | 235.0  | 305.0 <sup>2)</sup> | 226.0  | 275.0 <sup>2)</sup> | 212.0  | 244.0 <sup>2)</sup> | 196.0  | 214.0 <sup>2)</sup> | 179.0  | 190.0 <sup>2)</sup> | 161.0  | 166.0 <sup>2)</sup> | 141.0  | 142.0 <sup>2)</sup> | 121.0  | 121.0 <sup>2)</sup> | 104.0  | 104.0               | 88.5   | 88.5               |        |
| 140 | BV      |           | 411.0 <sup>2)</sup> |        | 382.0 <sup>2)</sup> | 254.0  | 344.0 <sup>2)</sup> | 242.0  | 307.0 <sup>2)</sup> | 228.0  | 276.0 <sup>2)</sup> | 211.0  | 244.0 <sup>2)</sup> | 196.0  | 217.0 <sup>2)</sup> | 178.0  | 190.0 <sup>2)</sup> | 161.0  | 167.0 <sup>2)</sup> | 142.0  | 144.0 <sup>2)</sup> | 122.0  | 122.0               | 105.0  | 105.0               | 89.0   | 89.0               |        |
| 150 | B       |           | 356.0 <sup>4)</sup> |        | 352.0 <sup>3)</sup> | 234.0  | 334.0 <sup>2)</sup> | 222.0  | 302.0 <sup>2)</sup> | 213.0  | 272.0 <sup>2)</sup> | 202.0  | 241.0 <sup>2)</sup> | 189.0  | 213.0 <sup>2)</sup> | 173.0  | 189.0 <sup>2)</sup> | 157.0  | 166.0 <sup>2)</sup> | 139.0  | 142.0 <sup>2)</sup> | 120.0  | 121.0 <sup>2)</sup> | 103.0  | 103.0 <sup>2)</sup> | 87.3   | 87.3               |        |
| 150 | BV      |           | 386.0 <sup>4)</sup> |        | 367.0 <sup>4)</sup> | 232.0  | 337.0 <sup>2)</sup> | 228.0  | 304.0 <sup>2)</sup> | 217.0  | 273.0 <sup>2)</sup> | 202.0  | 242.0 <sup>2)</sup> | 189.0  | 216.0 <sup>2)</sup> | 172.0  | 189.0 <sup>2)</sup> | 156.0  | 166.0 <sup>2)</sup> | 139.0  | 144.0 <sup>2)</sup> | 121.0  | 122.0 <sup>2)</sup> | 104.0  | 104.0 <sup>2)</sup> | 87.9   | 87.9               |        |
| 160 | B       |           | 332.0 <sup>3)</sup> |        | 328.0 <sup>3)</sup> |        | 322.0 <sup>3)</sup> | 211.0  | 295.0 <sup>2)</sup> | 202.0  | 269.0 <sup>2)</sup> | 192.0  | 239.0 <sup>2)</sup> | 182.0  | 211.0 <sup>2)</sup> | 167.0  | 188.0 <sup>2)</sup> | 152.0  | 165.0 <sup>2)</sup> | 136.0  | 142.0 <sup>2)</sup> | 118.0  | 121.0 <sup>2)</sup> | 102.0  | 103.0 <sup>2)</sup> | 86.1   | 86.4 <sup>2)</sup> |        |
| 160 | BV      |           | 360.0 <sup>4)</sup> |        | 349.0 <sup>3)</sup> |        | 325.0 <sup>3)</sup> | 217.0  | 298.0 <sup>2)</sup> | 207.0  | 271.0 <sup>2)</sup> | 193.0  | 240.0 <sup>2)</sup> | 181.0  | 214.0 <sup>2)</sup> | 166.0  | 189.0 <sup>2)</sup> | 152.0  | 166.0 <sup>2)</sup> | 136.0  | 143.0 <sup>2)</sup> | 119.0  | 122.0 <sup>2)</sup> | 102.0  | 104.0 <sup>2)</sup> | 86.7   | 87.1 <sup>2)</sup> |        |
| 170 | B       |           | 308.0 <sup>3)</sup> |        | 308.0 <sup>3)</sup> |        | 305.0 <sup>3)</sup> |        | 287.0 <sup>3)</sup> | 192.0  | 264.0 <sup>2)</sup> | 181.0  | 237.0 <sup>2)</sup> | 174.0  | 208.0 <sup>2)</sup> | 161.0  | 186.0 <sup>2)</sup> | 148.0  | 165.0 <sup>2)</sup> | 132.0  | 141.0 <sup>2)</sup> | 116.0  | 120.0 <sup>2)</sup> | 100.0  | 102.0 <sup>2)</sup> | 84.8   | 85.8 <sup>2)</sup> |        |
| 170 | BV      |           | 335.0 <sup>3)</sup> |        | 329.0 <sup>3)</sup> |        | 313.0 <sup>3)</sup> |        | 290.0 <sup>3)</sup> | 197.0  | 267.0 <sup>2)</sup> | 186.0  | 238.0 <sup>2)</sup> | 174.0  | 212.0 <sup>2)</sup> | 160.0  | 187.0 <sup>2)</sup> | 147.0  | 165.0 <sup>2)</sup> | 132.0  | 143.0 <sup>2)</sup> | 116.0  | 121.0 <sup>2)</sup> | 101.0  | 103.0 <sup>2)</sup> | 85.5   | 86.6 <sup>2)</sup> |        |
| 180 | B       |           | 285.0 <sup>3)</sup> |        | 288.0 <sup>3)</sup> |        | 287.0 <sup>3)</sup> |        | 277.0 <sup>3)</sup> | 182.0  | 258.0 <sup>2)</sup> | 173.0  | 233.0 <sup>2)</sup> | 166.0  | 205.0 <sup>2)</sup> | 155.0  | 185.0 <sup>2)</sup> | 143.0  | 163.0 <sup>2)</sup> | 129.0  | 141.0 <sup>2)</sup> | 113.0  | 120.0 <sup>2)</sup> | 98.5   | 102.0 <sup>2)</sup> | 83.5   | 85.2 <sup>2)</sup> |        |
| 180 | BV      |           | 312.0 <sup>3)</sup> |        | 309.0 <sup>3)</sup> |        | 299.0 <sup>3)</sup> |        | 280.0 <sup>3)</sup> | 188.0  | 260.0 <sup>2)</sup> | 178.0  | 235.0 <sup>2)</sup> | 168.0  | 209.0 <sup>2)</sup> | 154.0  | 186.0 <sup>2)</sup> | 142.0  | 164.0 <sup>2)</sup> | 128.0  | 142.0 <sup>2)</sup> | 113.0  | 121.0 <sup>2)</sup> | 99.5   | 103.0 <sup>2)</sup> | 84.3   | 86.0 <sup>2)</sup> |        |
| 190 | B       |           | 261.0 <sup>3)</sup> |        | 269.0 <sup>3)</sup> |        | 271.0 <sup>3)</sup> |        | 265.0 <sup>3)</sup> |        | 251.0 <sup>4)</sup> | 164.0  | 229.0 <sup>3)</sup> | 158.0  | 202.0 <sup>2)</sup> | 149.0  | 183.0 <sup>2)</sup> | 138.0  | 161.0 <sup>2)</sup> | 125.0  | 139.0 <sup>2)</sup> | 111.0  | 119.0 <sup>2)</sup> | 97.0   | 101.0 <sup>2)</sup> | 82.1   | 84.6 <sup>2)</sup> |        |
| 190 | BV      |           | 291.0 <sup>3)</sup> |        | 290.0 <sup>3)</sup> |        | 283.0 <sup>3)</sup> |        | 269.0 <sup>3)</sup> |        | 253.0 <sup>4)</sup> | 169.0  | 230.0 <sup>3)</sup> | 162.0  | 207.0 <sup>2)</sup> | 149.0  | 184.0 <sup>2)</sup> | 137.0  | 162.0 <sup>2)</sup> | 124.0  | 141.0 <sup>2)</sup> | 110.0  | 120.0 <sup>2)</sup> | 97.5   | 102.0 <sup>2)</sup> | 82.9   | 85.5 <sup>2)</sup> |        |
| 200 | B       |           | 238.0 <sup>3)</sup> |        | 249.0 <sup>3)</sup> |        | 255.0 <sup>3)</sup> |        | 251.0 <sup>7)</sup> |        | 243.0 <sup>3)</sup> | 156.0  | 233.0 <sup>4)</sup> | 150.0  | 198.0 <sup>2)</sup> | 142.0  | 180.0 <sup>2)</sup> | 133.0  | 159.0 <sup>2)</sup> | 121.0  | 139.0 <sup>3)</sup> | 108.0  | 118.0 <sup>3)</sup> | 95.3   | 100.0 <sup>2)</sup> | 80.7   | 84.1 <sup>2)</sup> |        |
| 200 | BV      |           | 269.0 <sup>3)</sup> |        | 272.0 <sup>3)</sup> |        | 269.0 <sup>3)</sup> |        | 258.0 <sup>7)</sup> |        | 243.0 <sup>3)</sup> | 160.0  | 224.0 <sup>3)</sup> | 154.0  | 203.0 <sup>2)</sup> | 145.0  | 182.0 <sup>2)</sup> | 132.0  | 160.0 <sup>2)</sup> | 120.0  | 139.0 <sup>2)</sup> | 107.0  | 119.0 <sup>2)</sup> | 95.2   | 101.0 <sup>2)</sup> | 81.6   | 85.0 <sup>2)</sup> |        |
| 220 | B       |           | 204.0 <sup>3)</sup> |        | 210.0 <sup>3)</sup> |        | 221.0 <sup>3)</sup> |        | 224.0 <sup>3)</sup> |        | 223.0 <sup>3)</sup> |        | 208.0 <sup>4)</sup> | 134.0  | 187.0 <sup>4)</sup> | 126.0  | 174.0 <sup>3)</sup> | 120.0  | 156.0 <sup>3)</sup> | 113.0  | 136.0 <sup>3)</sup> | 101.0  | 116.0 <sup>3)</sup> | 90.3   | 99.0 <sup>3)</sup>  | 77.8   | 82.2 <sup>3)</sup> |        |
| 220 | BV      |           | 234.0 <sup>3)</sup> |        | 238.0 <sup>3)</sup> |        | 240.0 <sup>3)</sup> |        | 236.0 <sup>3)</sup> |        | 228.0 <sup>3)</sup> |        | 211.0 <sup>2)</sup> | 137.0  | 195.0 <sup>2)</sup> | 130.0  | 177.0 <sup>3)</sup> | 123.0  | 157.0 <sup>3)</sup> | 112.0  | 137.0 <sup>3)</sup> | 100.0  | 117.0 <sup>3)</sup> | 89.7   | 100.0 <sup>3)</sup> | 78.1   | 83.2 <sup>3)</sup> |        |
| 240 | B       |           | 172.0 <sup>3)</sup> |        | 180.0 <sup>3)</sup> |        | 187.0 <sup>3)</sup> |        | 195.0 <sup>3)</sup> |        | 198.0 <sup>3)</sup> |        | 195.0 <sup>3)</sup> |        | 173.0 <sup>3)</sup> | 113.0  | 167.0 <sup>3)</sup> | 107.0  | 151.0 <sup>4)</sup> | 100.0  | 133.0 <sup>3)</sup> | 93.2   | 114.0 <sup>3)</sup> | 84.7   | 97.1 <sup>4)</sup>  | 74.1   | 80.8 <sup>3)</sup> |        |
| 240 | BV      |           | 200.0 <sup>3)</sup> |        | 208.0 <sup>3)</sup> |        | 212.0 <sup>3)</sup> |        | 213.0 <sup>3)</sup> |        | 210.0 <sup>3)</sup> |        | 199.0 <sup>3)</sup> |        | 188.0 <sup>3)</sup> | 115.0  | 171.0 <sup>3)</sup> | 110.0  | 153.0 <sup>3)</sup> | 103.0  | 134.0 <sup>3)</sup> | 93.2   | 115.0 <sup>3)</sup> | 83.9   | 98.4 <sup>3)</sup>  | 73.6   | 81.9 <sup>3)</sup> |        |
| 260 | B       |           | 147.0 <sup>4)</sup> |        | 153.0 <sup>3)</sup> |        | 161.0 <sup>3)</sup> |        | 166.0 <sup>3)</sup> |        | 173.0 <sup>3)</sup> |        | 173.0 <sup>3)</sup> |        | 159.0 <sup>3)</sup> |        | 157.0 <sup>4)</sup> | 95.7   | 145.0 <sup>3)</sup> | 89.0   | 129.0 <sup>4)</sup> | 82.6   | 112.0 <sup>4)</sup> | 77.5   | 95.8 <sup>4)</sup>  | 69.6   | 79.4 <sup>4)</sup> |        |
| 260 | BV      |           | 173.0 <sup>4)</sup> |        | 179.0 <sup>3)</sup> |        | 186.0 <sup>3)</sup> |        | 190.0 <sup>3)</sup> |        | 191.0 <sup>3)</sup> |        | 183.0 <sup>3)</sup> |        | 180.0 <sup>2)</sup> |        | 164.0 <sup>3)</sup> | 97.6   | 149.0 <sup>3)</sup> | 92.1   | 130.0 <sup>4)</sup> | 85.4   | 112.0 <sup>4)</sup> | 78.2   | 96.5 <sup>4)</sup>  | 68.9   | 80.6 <sup>4)</sup> |        |
| 280 | B       |           | 125.0 <sup>4)</sup> |        | 130.0 <sup>4)</sup> |        | 137.0 <sup>3)</sup> |        | 142.0 <sup>3)</sup> |        | 149.0 <sup>3)</sup> |        | 152.0 <sup>3)</sup> |        | 146.0 <sup>3)</sup> |        | 145.0 <sup>3)</sup> |        | 137.0 <sup>3)</sup> | 79.6   | 123.0 <sup>4)</sup> | 73.2   | 108.0 <sup>3)</sup> | 68.2   | 94.4 <sup>4)</sup>  | 62.7   | 78.2 <sup>4)</sup> |        |
| 280 | BV      |           | 149.0 <sup>4)</sup> |        | 154.0 <sup>4)</sup> |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                     |        |                    |        |

# HSDWB/BV

# HS 295



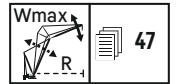
|                      |
|----------------------|
| 661,400 – 826,700 lb |
| 330,700 – 659,200 lb |
| 110,200 – 328,500 lb |
| 0 lb                 |



|     |         | HS 295 ft           |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
|-----|---------|---------------------|---------------------|--------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|--------------------|---------|--------------------|--------|------|
| ft  | B<br>BV | W79 ft              |                     | W98 ft |                     | W118 ft |                     | W138 ft |                     | W158 ft |                     | W177 ft |                     | W197 ft |                     | W217 ft |                     | W236 ft |                     | W256 ft |                     | W276 ft |                     | W295 ft |                    | W315 ft |                    |        |      |
|     |         | 87°/85              | Wmax                | 87°/85 | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax                | 87°/85  | Wmax               | 87°/85  | Wmax               | 87°/85 | Wmax |
| 50  | B       | 431.0*              | 434.0 <sup>1)</sup> |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
| 50  | BV      |                     |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
| 60  | B       | 404.0*              | 435.0 <sup>1)</sup> | 371.0* | 384.0 <sup>1)</sup> | 340.0*  | 341.0 <sup>1)</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
| 60  | BV      |                     |                     |        |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
| 70  | B       | 417.0               | 433.0 <sup>1)</sup> | 381.0  | 384.0 <sup>1)</sup> | 323.0*  | 343.0 <sup>1)</sup> | 296.0*  | 303.0 <sup>1)</sup> | 267.0*  | 268.0 <sup>1)</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
| 70  | BV      | 421.0               | 439.0 <sup>1)</sup> | 385.0  | 388.0 <sup>1)</sup> |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                     |         |                    |         |                    |        |      |
| 80  | B       | 391.0               | 430.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              |         |                     |         |                    |         |                    |        |      |
| 80  | BV      | 396.0               | 439.0 <sup>1)</sup> | 365.0  | 387.0 <sup>1)</sup> | 337.0   | 346.0 <sup>1)</sup> | 307.0   | 308.0 <sup>1)</sup> | 266.0   | 271.0 <sup>1)</sup> | 238.0   | 238.0               | 207.0   | 207.0               | 181.0   | 181.0               | 153.0*  | 156.0 <sup>1)</sup> | 133.0*  | 134.0 <sup>1)</sup> | 113.0*  | 113.0 <sup>1)</sup> | 96.9*   | 96.9*              |         |                    |        |      |
| 90  | B       | 359.0               | 427.0 <sup>1)</sup> | 338.0  | 378.0 <sup>1)</sup> | 315.0   | 340.0 <sup>1)</sup> | 290.0   | 303.0 <sup>1)</sup> | 264.0   | 268.0 <sup>1)</sup> | 236.0   | 236.0 <sup>1)</sup> | 201.0*  | 208.0 <sup>1)</sup> | 178.0*  | 180.0 <sup>1)</sup> | 156.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              |         |                     |         |                    |         |                    |        |      |
| 90  | BV      | 366.0               | 438.0 <sup>1)</sup> | 343.0  | 386.0 <sup>1)</sup> | 319.0   | 345.0 <sup>1)</sup> | 293.0   | 307.0 <sup>1)</sup> | 266.0   | 271.0 <sup>1)</sup> | 238.0   | 238.0               | 207.0   | 207.0               | 181.0   | 181.0               | 153.0*  | 156.0 <sup>1)</sup> | 133.0*  | 134.0 <sup>1)</sup> | 113.0*  | 113.0 <sup>1)</sup> | 96.9*   | 96.9*              |         |                    |        |      |
| 100 | B       | 327.0               | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 96.9*   | 96.9*              |         |                    |        |      |
| 100 | BV      | 334.0               | 438.0 <sup>1)</sup> | 316.0  | 385.0 <sup>1)</sup> | 300.0   | 344.0 <sup>1)</sup> | 279.0   | 307.0 <sup>1)</sup> | 255.0   | 271.0 <sup>1)</sup> | 230.0   | 230.0 <sup>1)</sup> | 207.0   | 207.0               | 181.0   | 181.0               | 153.0*  | 156.0 <sup>1)</sup> | 133.0*  | 134.0 <sup>1)</sup> | 113.0*  | 113.0 <sup>1)</sup> | 96.9*   | 96.9*              |         |                    |        |      |
| 110 | B       | 306.0               | 420.0 <sup>1)</sup> | 288.0  | 373.0 <sup>1)</sup> | 276.0   | 333.0 <sup>1)</sup> | 262.0   | 300.0 <sup>1)</sup> | 243.0   | 266.0 <sup>1)</sup> | 221.0   | 225.0 <sup>1)</sup> | 200.0   | 200.0               | 178.0   | 178.0               | 155.0   | 155.0               | 134.0   | 134.0               | 112.0*  | 113.0 <sup>1)</sup> | 96.0*   | 96.4 <sup>1)</sup> | 80.9*   | 80.9*              |        |      |
| 110 | BV      | 314.0               | 439.0 <sup>1)</sup> | 293.0  | 386.0 <sup>1)</sup> | 280.0   | 342.0 <sup>1)</sup> | 265.0   | 306.0 <sup>1)</sup> | 245.0   | 270.0 <sup>1)</sup> | 222.0   | 226.0 <sup>1)</sup> | 201.0   | 201.0               | 178.0   | 178.0               | 157.0   | 157.0               | 135.0   | 135.0               | 112.0   | 112.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 120 | B       | 416.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 120 | BV      | 439.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 130 | B       | 401.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 288.0  | 373.0 <sup>1)</sup> | 276.0   | 333.0 <sup>1)</sup> | 262.0   | 300.0 <sup>1)</sup> | 243.0   | 266.0 <sup>1)</sup> | 221.0   | 225.0 <sup>1)</sup> | 200.0   | 200.0               | 178.0   | 178.0               | 155.0   | 155.0               | 134.0   | 134.0               | 112.0*  | 113.0 <sup>1)</sup> | 96.0*   | 96.4 <sup>1)</sup> | 80.9*   | 80.9*              |        |      |
| 130 | BV      | 431.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 293.0  | 386.0 <sup>1)</sup> | 280.0   | 342.0 <sup>1)</sup> | 265.0   | 306.0 <sup>1)</sup> | 245.0   | 270.0 <sup>1)</sup> | 222.0   | 226.0 <sup>1)</sup> | 201.0   | 201.0               | 178.0   | 178.0               | 157.0   | 157.0               | 135.0   | 135.0               | 112.0   | 112.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 140 | B       | 375.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 140 | BV      | 408.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 150 | B       | 350.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 150 | BV      | 382.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 160 | B       | 326.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 160 | BV      | 357.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 170 | B       | 305.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 170 | BV      | 332.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 180 | B       | 283.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 180 | BV      | 310.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 190 | B       | 261.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 190 | BV      | 289.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 200 | B       | 240.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 200 | BV      | 268.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 220 | B       | 202.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 220 | BV      | 232.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 240 | B       | 173.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 153.0*  | 156.0 <sup>1)</sup> | 134.0*  | 134.0*              | 113.0*  | 113.0 <sup>1)</sup> | 94.9*   | 96.4 <sup>1)</sup> | 80.2*   | 80.9 <sup>1)</sup> |        |      |
| 240 | BV      | 201.0 <sup>1)</sup> | 439.0 <sup>1)</sup> | 275.0  | 386.0 <sup>1)</sup> | 263.0   | 334.0 <sup>1)</sup> | 250.0   | 301.0 <sup>1)</sup> | 232.0   | 270.0 <sup>1)</sup> | 214.0   | 228.0 <sup>1)</sup> | 195.0   | 200.0 <sup>1)</sup> | 174.0   | 174.0 <sup>1)</sup> | 155.0   | 155.0               | 134.0   | 134.0               | 114.0   | 114.0               | 96.1    | 96.1               | 81.1    | 81.1               |        |      |
| 260 | B       | 145.0 <sup>1)</sup> | 423.0 <sup>1)</sup> | 311.0  | 375.0 <sup>1)</sup> | 296.0   | 337.0 <sup>1)</sup> | 276.0   | 301.0 <sup>1)</sup> | 253.0   | 267.0 <sup>1)</sup> | 229.0   | 229.0 <sup>1)</sup> | 206.0   | 206.0               | 180.0   | 180.0 <sup>1)</sup> | 1       |                     |         |                     |         |                     |         |                    |         |                    |        |      |



|                      |
|----------------------|
| 661,400 - 826,700 lb |
| 330,700 - 659,200 lb |
| 110,200 - 328,500 lb |
| 0 lb                 |



|     |         | HS 315 ft            |                      |                       |                      |                       |                      |         |                      |         |                      |                       |                       |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                      |                     |        |
|-----|---------|----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|---------|----------------------|---------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|---------------------|--------|
| ft  | B<br>BV | W79 ft               |                      | W98 ft                |                      | W118 ft               |                      | W138 ft |                      | W158 ft |                      | W177 ft               |                       | W197 ft               |                      | W217 ft               |                      | W236 ft               |                      | W256 ft              |                      | W276 ft              |                      | W295 ft              |                     | W315 ft              |                     |        |
|     |         | 87°/85               | Wmax                 | 87°/85                | Wmax                 | 87°/85                | Wmax                 | 87°/85  | Wmax                 | 87°/85  | Wmax                 | 87°/85                | Wmax                  | 87°/85                | Wmax                 | 87°/85                | Wmax                 | 87°/85                | Wmax                 | 87°/85               | Wmax                 | 87°/85               | Wmax                 | 87°/85               | Wmax                | 87°/85               | Wmax                | 87°/85 |
| 50  | B<br>BV | 389.0*               | 389.0 <sup>(1)</sup> |                       |                      |                       |                      |         |                      |         |                      |                       |                       |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                      |                     |        |
| 60  | B<br>BV | 366.0*               | 388.0 <sup>(1)</sup> | 336.0*                | 344.0 <sup>(1)</sup> | 308.0*                | 308.0*               |         |                      |         |                      |                       |                       |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                      |                     |        |
| 70  | B<br>BV | 376.0                | 386.0 <sup>(1)</sup> | 344.0                 | 345.0 <sup>(1)</sup> | 293.0*                | 307.0 <sup>(1)</sup> | 266.0*  | 271.0 <sup>(1)</sup> | 241.0*  | 241.0*               |                       |                       |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                      |                     |        |
| 80  | B<br>BV | 353.0                | 382.0 <sup>(1)</sup> | 326.0                 | 341.0 <sup>(1)</sup> | 301.0                 | 306.0 <sup>(1)</sup> | 272.0   | 272.0                | 231.0*  | 239.0 <sup>(1)</sup> | 209.0*                | 212.0 <sup>(1)</sup>  | 187.0*                | 187.0*               |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                      |                     |        |
| 90  | B<br>BV | 327.0                | 378.0 <sup>(1)</sup> | 306.0                 | 338.0 <sup>(1)</sup> | 285.0                 | 304.0 <sup>(1)</sup> | 260.0   | 269.0 <sup>(1)</sup> | 236.0   | 238.0 <sup>(1)</sup> | 213.0                 | 213.0                 | 180.0*                | 186.0 <sup>(1)</sup> | 160.0*                | 162.0 <sup>(1)</sup> | 141.0*                | 141.0*               |                      |                      |                      |                      |                      |                     |                      |                     |        |
| 100 | B<br>BV | 300.0                | 375.0 <sup>(1)</sup> | 285.0                 | 335.0 <sup>(1)</sup> | 269.0                 | 301.0 <sup>(1)</sup> | 248.0   | 268.0 <sup>(1)</sup> | 227.0   | 238.0 <sup>(1)</sup> | 207.0                 | 207.0 <sup>(1)</sup>  | 185.0                 | 185.0                | 155.0*                | 162.0 <sup>(1)</sup> | 138.0*                | 141.0 <sup>(1)</sup> | 120.0*               | 121.0 <sup>(1)</sup> | 103.0*               | 103.0*               |                      |                     |                      |                     |        |
| 110 | B<br>BV | 280.0                | 373.0 <sup>(1)</sup> | 265.0                 | 333.0 <sup>(1)</sup> | 253.0                 | 299.0 <sup>(1)</sup> | 236.0   | 266.0 <sup>(1)</sup> | 218.0   | 237.0 <sup>(1)</sup> | 200.0                 | 202.0 <sup>(2)</sup>  | 181.0                 | 181.0                | 160.0                 | 160.0                | 141.0                 | 141.0                | 118.0*               | 121.0 <sup>(1)</sup> | 102.0*               | 103.0 <sup>(1)</sup> | 87.0*                | 87.4 <sup>(1)</sup> | 73.1*                | 73.1*               |        |
| 120 | B<br>BV | 286.0                | 384.0 <sup>(1)</sup> | 268.0                 | 338.0 <sup>(1)</sup> | 255.0                 | 302.0 <sup>(1)</sup> | 235.0   | 269.0 <sup>(1)</sup> | 216.0   | 231.0 <sup>(1)</sup> | 198.0                 | 201.0 <sup>(2)</sup>  | 179.0                 | 179.0 <sup>(1)</sup> | 159.0                 | 159.0                | 141.0                 | 141.0                | 121.0                | 121.0                | 103.0                | 103.0 <sup>(1)</sup> | 86.3*                | 87.5 <sup>(1)</sup> | 72.5*                | 73.0 <sup>(1)</sup> |        |
| 130 | B<br>BV | 370.0 <sup>(2)</sup> | 383.0 <sup>(2)</sup> | 234.0                 | 330.0 <sup>(1)</sup> | 222.0                 | 290.0 <sup>(2)</sup> | 211.0   | 257.0 <sup>(2)</sup> | 199.0   | 229.0 <sup>(2)</sup> | 187.0                 | 204.0 <sup>(2)</sup>  | 171.0                 | 179.0 <sup>(2)</sup> | 153.0                 | 157.0 <sup>(2)</sup> | 137.0                 | 137.0 <sup>(2)</sup> | 120.0                | 120.0                | 103.0                | 103.0                | 87.4                 | 87.4                | 73.1                 | 73.1 <sup>(1)</sup> |        |
| 140 | B<br>BV | 355.0 <sup>(2)</sup> | 371.0 <sup>(2)</sup> | 239.0                 | 328.0 <sup>(1)</sup> | 210.0                 | 290.0 <sup>(2)</sup> | 199.0   | 257.0 <sup>(2)</sup> | 188.0   | 229.0 <sup>(2)</sup> | 178.0                 | 204.0 <sup>(2)</sup>  | 165.0                 | 179.0 <sup>(2)</sup> | 149.0                 | 157.0 <sup>(2)</sup> | 134.0                 | 138.0 <sup>(2)</sup> | 118.0                | 119.0 <sup>(2)</sup> | 102.0                | 102.0                | 87.1                 | 87.1                | 72.9                 | 72.9                |        |
| 150 | B<br>BV | 339.0 <sup>(4)</sup> | 357.0 <sup>(4)</sup> | 205.0                 | 317.0 <sup>(2)</sup> | 200.0                 | 289.0 <sup>(2)</sup> | 187.0   | 257.0 <sup>(2)</sup> | 178.0   | 229.0 <sup>(2)</sup> | 169.0                 | 205.0 <sup>(2)</sup>  | 159.0                 | 180.0 <sup>(2)</sup> | 145.0                 | 158.0 <sup>(2)</sup> | 131.0                 | 138.0 <sup>(2)</sup> | 116.0                | 119.0 <sup>(2)</sup> | 101.0                | 101.0 <sup>(2)</sup> | 86.4                 | 86.4                | 72.5                 | 72.5                |        |
| 160 | B<br>BV | 317.0 <sup>(4)</sup> | 337.0 <sup>(4)</sup> | 205.0                 | 309.0 <sup>(4)</sup> | 205.0                 | 295.0 <sup>(2)</sup> | 189.0   | 260.0 <sup>(2)</sup> | 180.0   | 230.0 <sup>(2)</sup> | 168.0                 | 204.0 <sup>(2)</sup>  | 155.0                 | 180.0 <sup>(2)</sup> | 141.0                 | 157.0 <sup>(2)</sup> | 128.0                 | 137.0 <sup>(2)</sup> | 114.0                | 118.0 <sup>(2)</sup> | 99.1                 | 101.0 <sup>(2)</sup> | 86.2                 | 86.2                | 72.9                 | 72.9                |        |
| 170 | B<br>BV | 298.0 <sup>(4)</sup> | 317.0 <sup>(4)</sup> | 293.0 <sup>(5)</sup>  | 306.0 <sup>(5)</sup> | 276.0 <sup>(4)</sup>  | 284.0 <sup>(5)</sup> | 171.0   | 254.0 <sup>(2)</sup> | 160.0   | 229.0 <sup>(2)</sup> | 152.0                 | 204.0 <sup>(2)</sup>  | 144.0                 | 178.0 <sup>(2)</sup> | 134.0                 | 158.0 <sup>(2)</sup> | 124.0                 | 139.0 <sup>(2)</sup> | 110.0                | 119.0 <sup>(2)</sup> | 96.8                 | 101.0 <sup>(2)</sup> | 83.9                 | 85.6 <sup>(2)</sup> | 70.8                 | 71.5 <sup>(2)</sup> |        |
| 180 | B<br>BV | 277.0 <sup>(4)</sup> | 297.0 <sup>(4)</sup> | 277.0 <sup>(5)</sup>  | 271.0 <sup>(5)</sup> | 248.0 <sup>(5)</sup>  | 253.0 <sup>(5)</sup> | 153.0   | 227.0 <sup>(4)</sup> | 145.0   | 203.0 <sup>(2)</sup> | 137.0                 | 176.0 <sup>(2)</sup>  | 128.0                 | 157.0 <sup>(2)</sup> | 119.0                 | 138.0 <sup>(2)</sup> | 107.0                 | 119.0 <sup>(2)</sup> | 94.2                 | 100.0 <sup>(2)</sup> | 82.4                 | 85.2 <sup>(2)</sup>  | 69.7                 | 71.1 <sup>(2)</sup> |                      |                     |        |
| 190 | B<br>BV | 257.0 <sup>(4)</sup> | 278.0 <sup>(4)</sup> | 260.0 <sup>(10)</sup> | 274.0 <sup>(5)</sup> | 258.0 <sup>(4)</sup>  | 267.0 <sup>(5)</sup> | 148.0   | 223.0 <sup>(4)</sup> | 138.0   | 202.0 <sup>(2)</sup> | 130.0                 | 174.0 <sup>(2)</sup>  | 122.0                 | 156.0 <sup>(2)</sup> | 114.0                 | 137.0 <sup>(2)</sup> | 104.0                 | 118.0 <sup>(2)</sup> | 91.2                 | 100.0 <sup>(2)</sup> | 80.4                 | 84.8 <sup>(2)</sup>  | 68.5                 | 70.7 <sup>(2)</sup> |                      |                     |        |
| 200 | B<br>BV | 237.0 <sup>(4)</sup> | 260.0 <sup>(7)</sup> | 243.0 <sup>(10)</sup> | 259.0 <sup>(6)</sup> | 244.0 <sup>(5)</sup>  | 254.0 <sup>(6)</sup> | 132.0   | 216.0 <sup>(5)</sup> | 126.0   | 181.0 <sup>(5)</sup> | 124.0                 | 172.0 <sup>(2)</sup>  | 116.0                 | 154.0 <sup>(2)</sup> | 109.0                 | 135.0 <sup>(2)</sup> | 99.8                  | 117.0 <sup>(2)</sup> | 88.2                 | 99.1 <sup>(2)</sup>  | 78.0                 | 84.4 <sup>(2)</sup>  | 66.9                 | 70.3 <sup>(2)</sup> |                      |                     |        |
| 220 | B<br>BV | 197.0 <sup>(3)</sup> | 226.0 <sup>(3)</sup> | 209.0 <sup>(10)</sup> | 229.0 <sup>(7)</sup> | 216.0 <sup>(10)</sup> | 229.0 <sup>(6)</sup> | 115.0   | 216.0 <sup>(5)</sup> | 106.0   | 186.0 <sup>(5)</sup> | 112.0                 | 165.0 <sup>(4)</sup>  | 104.0                 | 150.0 <sup>(3)</sup> | 98.4                  | 132.0 <sup>(2)</sup> | 91.1                  | 114.0 <sup>(2)</sup> | 81.9                 | 97.0 <sup>(2)</sup>  | 72.7                 | 82.7 <sup>(3)</sup>  | 62.8                 | 68.7 <sup>(2)</sup> |                      |                     |        |
| 240 | B<br>BV | 170.0 <sup>(8)</sup> | 197.0 <sup>(8)</sup> | 174.0 <sup>(10)</sup> | 202.0 <sup>(8)</sup> | 186.0 <sup>(10)</sup> | 204.0 <sup>(8)</sup> | 100.0   | 216.0 <sup>(5)</sup> | 91.0    | 191.0 <sup>(7)</sup> | 176.0 <sup>(7)</sup>  | 164.0 <sup>(2)</sup>  | 158.0 <sup>(5)</sup>  | 93.5                 | 145.0 <sup>(4)</sup>  | 87.7                 | 128.0 <sup>(3)</sup>  | 81.5                 | 111.0 <sup>(3)</sup> | 74.8                 | 94.8 <sup>(3)</sup>  | 67.5                 | 81.0 <sup>(3)</sup>  | 58.4                | 67.9 <sup>(3)</sup>  |                     |        |
| 260 | B<br>BV | 143.0 <sup>(8)</sup> | 169.0 <sup>(8)</sup> | 150.0 <sup>(8)</sup>  | 176.0 <sup>(8)</sup> | 156.0 <sup>(8)</sup>  | 181.0 <sup>(8)</sup> | 85.0    | 216.0 <sup>(5)</sup> | 77.0    | 170.0 <sup>(4)</sup> | 168.0 <sup>(4)</sup>  | 149.0 <sup>(7)</sup>  | 149.0 <sup>(7)</sup>  | 83.0                 | 136.0 <sup>(5)</sup>  | 78.3                 | 123.0 <sup>(4)</sup>  | 71.9                 | 108.0 <sup>(4)</sup> | 65.8                 | 92.7 <sup>(3)</sup>  | 61.1                 | 79.1 <sup>(3)</sup>  | 54.0                | 66.2 <sup>(3)</sup>  |                     |        |
| 280 | B<br>BV | 121.0 <sup>(4)</sup> | 145.0 <sup>(4)</sup> | 127.0 <sup>(8)</sup>  | 151.0 <sup>(8)</sup> | 135.0 <sup>(8)</sup>  | 159.0 <sup>(8)</sup> | 70.0    | 216.0 <sup>(5)</sup> | 61.0    | 147.0 <sup>(3)</sup> | 149.0 <sup>(10)</sup> | 141.0 <sup>(3)</sup>  | 141.0 <sup>(3)</sup>  | 78.0                 | 128.0 <sup>(3)</sup>  | 79.7                 | 128.0 <sup>(3)</sup>  | 72.8                 | 111.0 <sup>(3)</sup> | 66.3                 | 94.5 <sup>(3)</sup>  | 60.6                 | 80.6 <sup>(3)</sup>  | 52.9                | 67.3 <sup>(3)</sup>  |                     |        |
| 300 | B<br>BV | 102.0 <sup>(4)</sup> | 125.0 <sup>(4)</sup> | 106.0 <sup>(6)</sup>  | 129.0 <sup>(6)</sup> | 114.0 <sup>(6)</sup>  | 141.0 <sup>(6)</sup> | 55.0    | 216.0 <sup>(5)</sup> | 46.0    | 137.0 <sup>(3)</sup> | 130.0 <sup>(10)</sup> | 127.0 <sup>(11)</sup> | 127.0 <sup>(11)</sup> | 65.0                 | 125.0 <sup>(3)</sup>  | 65.2                 | 108.0 <sup>(4)</sup>  | 58.5                 | 100.0 <sup>(4)</sup> | 51.0                 | 92.3 <sup>(4)</sup>  | 53.4                 | 76.9 <sup>(4)</sup>  | 48.0                | 64.3 <sup>(3)</sup>  |                     |        |
| 320 | B<br>BV |                      |                      | 88.8 <sup>(6)</sup>   | 111.0 <sup>(6)</sup> | 94.7 <sup>(6)</sup>   | 116.0 <sup>(6)</sup> | 40.0    | 216.0 <sup>(5)</sup> | 31.0    | 105.0 <sup>(8)</sup> | 110.0 <sup>(9)</sup>  | 113.0 <sup>(11)</sup> | 113.0 <sup>(11)</sup> | 50.0                 | 112.0 <sup>(10)</sup> | 50.0                 | 112.0 <sup>(10)</sup> | 46.0                 | 106.0 <sup>(4)</sup> | 42.0                 | 83.3 <sup>(3)</sup>  | 40.2                 | 72.4 <sup>(5)</sup>  | 34.8                | 61.3 <sup>(4)</sup>  |                     |        |
| 340 | B<br>BV |                      |                      |                       |                      | 78.6 <sup>(6)</sup>   | 103.0 <sup>(6)</sup> | 30.0    | 216.0 <sup>(5)</sup> | 22.0    | 81.9 <sup>(6)</sup>  | 87.7 <sup>(9)</sup>   | 93.7 <sup>(9)</sup>   | 93.7 <sup>(9)</sup>   | 40.0                 | 109.1 <sup>(10)</sup> | 40.0                 | 97.3 <sup>(10)</sup>  | 35.0                 | 101.0 <sup>(4)</sup> | 30.0                 | 80.4 <sup>(6)</sup>  | 29.9                 | 70.5 <sup>(4)</sup>  | 29.9                | 59.5 <sup>(4)</sup>  |                     |        |
| 360 | B<br>BV |                      |                      |                       |                      |                       |                      | 20.0    | 216.0 <sup>(5)</sup> | 15.0    | 66.8 <sup>(6)</sup>  | 71.1 <sup>(4)</sup>   | 77.3 <sup>(9)</sup>   | 82.4 <sup>(9)</sup>   | 30.0                 | 102.0 <sup>(9)</sup>  | 30.0                 | 99.6 <sup>(7)</sup>   | 25.0                 | 82.9 <sup>(10)</sup> | 20.0                 | 84.9 <sup>(4)</sup>  | 18.0                 | 77.3 <sup>(10)</sup> | 18.0                | 57.5 <sup>(4)</sup>  |                     |        |
| 380 | B<br>BV |                      |                      |                       |                      |                       |                      | 10.0    | 216.0 <sup>(5)</sup> | 8.0     |                      | 57.0 <sup>(4)</sup>   | 61.9 <sup>(7)</sup>   | 67.0 <sup>(9)</sup>   | 20.0                 | 102.0 <sup>(9)</sup>  | 20.0                 | 89.8 <sup>(9)</sup>   | 15.0                 | 73.7 <sup>(10)</sup> | 10.0                 | 69.6 <sup>(10)</sup> | 10.0                 | 65.3 <sup>(10)</sup> | 10.0                | 56.3 <sup>(9)</sup>  |                     |        |
| 400 | B<br>BV |                      |                      |                       |                      |                       |                      | 5.0     | 216.0 <sup>(5)</sup> | 5.0     |                      | 48.5 <sup>(7)</sup>   | 52.4 <sup>(7)</sup>   | 55.9 <sup>(9)</sup>   | 10.0                 | 102.0 <sup>(9)</sup>  | 10.0                 | 88.6 <sup>(9)</sup>   | 5.0                  | 62.7 <sup>(9)</sup>  | 5.0                  | 62.0 <sup>(10)</sup> | 5.0                  | 58.8 <sup>(10)</sup> | 5.0                 | 53.6 <sup>(10)</sup> |                     |        |
| 420 | B<br>BV |                      |                      |                       |                      |                       |                      | 2.0     | 216.0 <sup>(5)</sup> | 2.0     |                      | 40.0 <sup>(7)</sup>   | 40.0 <sup>(7)</sup>   | 42.5 <sup>(9)</sup>   | 5.0                  | 102.0 <sup>(9)</sup>  | 5.0                  | 86.6 <sup>(9)</sup>   | 2.0                  | 50.2 <sup>(9)</sup>  | 2.0                  | 52.3 <sup>(9)</sup>  | 2.0                  | 52.4 <sup>(10)</sup> | 2.0                 | 48.1 <sup>(10)</sup> |                     |        |
| 440 | B<br>BV |                      |                      |                       |                      |                       |                      | 1.0     | 216.0 <sup>(5)</sup> | 1.0     |                      |                       | 31.2 <sup>(7)</sup>   | 31.2 <sup>(7)</sup>   | 3.0                  | 102.0 <sup>(9)</sup>  | 3.0                  | 84.9 <sup>(9)</sup>   | 1.0                  | 37.7 <sup>(9)</sup>  | 1.0                  | 40.9 <sup>(9)</sup>  | 1.0                  | 43.9 <sup>(9)</sup>  | 1.0                 | 42.6 <sup>(10)</sup> |                     |        |
| 460 | B<br>BV |                      |                      |                       |                      |                       |                      | 0.5     | 216.0 <sup>(5)</sup> | 0.5     |                      |                       |                       |                       | 1.0                  | 102.0 <sup>(9)</sup>  | 1.0                  | 84.9 <sup>(9)</sup>   | 0.5                  | 26.8 <sup>(7)</sup>  | 0.5                  | 29.6 <sup>(9)</sup>  | 0.5                  | 33.8 <sup>(9)</sup>  | 0.5                 | 35.1 <sup>(9)</sup>  |                     |        |
| 480 | B<br>BV |                      |                      |                       |                      |                       |                      | 0.2     | 216.0 <sup>(5)</sup> | 0.2     |                      |                       |                       |                       |                      | 0.5                   | 102.0 <sup>(9)</sup> | 0.5                   | 18.2 <sup>(7)</sup>  | 0.2                  | 13.9 <sup>(9)</sup>  | 0.2                  | 13.9 <sup>(9)</sup>  | 0.2                  | 23.7 <sup>(9)</sup> | 0.2                  | 26.1 <sup>(9)</sup> |        |
| 500 | B<br>BV |                      |                      |                       |                      |                       |                      | 0.1     | 216.0 <sup>(5)</sup> | 0.1     |                      |                       |                       |                       |                      |                       | 0.2                  | 102.0 <sup>(9)</sup>  |                      |                      |                      |                      |                      |                      |                     |                      | 17.2 <sup>(9)</sup> |        |
| 520 | B<br>BV |                      |                      |                       |                      |                       |                      | 0.0     | 216.0 <sup>(5)</sup> | 0.0     |                      |                       |                       |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                      | 30.0 <sup>(9)</sup> |        |

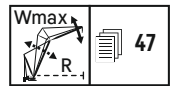
1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°

# HSDWB/BV

# HS 335



661,400 - 826,700 lb  
330,700 - 659,200 lb  
110,200 - 328,500 lb  
0 lb



| ft  |   | HS 335 ft             |                      |                       |                      |         |                       |         |                       |                      |                       |                      |                      |                     |                       |                      |                      |                      |                      |                      |                      |                      |                     |                      |      |         |      |  |
|-----|---|-----------------------|----------------------|-----------------------|----------------------|---------|-----------------------|---------|-----------------------|----------------------|-----------------------|----------------------|----------------------|---------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|------|---------|------|--|
|     |   | W79 ft                |                      | W98 ft                |                      | W118 ft |                       | W138 ft |                       | W158 ft              |                       | W177 ft              |                      | W197 ft             |                       | W217 ft              |                      | W236 ft              |                      | W256 ft              |                      | W276 ft              |                     | W295 ft              |      | W315 ft |      |  |
|     |   | 87°/85                | Wmax                 | 87°/85                | Wmax                 | 87°/85  | Wmax                  | 87°/85  | Wmax                  | 87°/85               | Wmax                  | 87°/85               | Wmax                 | 87°/85              | Wmax                  | 87°/85               | Wmax                 | 87°/85               | Wmax                 | 87°/85               | Wmax                 | 87°/85               | Wmax                | 87°/85               | Wmax | 87°/85  | Wmax |  |
| 50  | B | 351.0*                | 351.0*               |                       |                      |         |                       |         |                       |                      |                       |                      |                      |                     |                       |                      |                      |                      |                      |                      |                      |                      |                     |                      |      |         |      |  |
| 60  | B | 332.0*                | 349.0 <sup>(1)</sup> | 304.0*                | 309.0 <sup>(1)</sup> | 276.0*  | 276.0*                |         |                       |                      |                       |                      |                      |                     |                       |                      |                      |                      |                      |                      |                      |                      |                     |                      |      |         |      |  |
| 70  | B | 342.0                 | 348.0 <sup>(1)</sup> | 311.0                 | 311.0                | 265.0*  | 275.0 <sup>(1)</sup>  | 239.0*  | 243.0 <sup>(1)</sup>  | 217.0*               | 217.0*                |                      |                      |                     |                       |                      |                      |                      |                      |                      |                      |                      |                     |                      |      |         |      |  |
| 80  | B | 322.0                 | 343.0 <sup>(1)</sup> | 263.0                 | 301.0 <sup>(1)</sup> | 245.0   | 270.0 <sup>(1)</sup>  | 225.0   | 239.0 <sup>(1)</sup>  | 207.0                | 214.0 <sup>(1)</sup>  | 188.0*               | 190.0 <sup>(1)</sup> | 168.0*              | 168.0*                |                      |                      |                      |                      |                      |                      |                      |                     |                      |      |         |      |  |
| 90  | B | 301.0                 | 339.0 <sup>(1)</sup> | 280.0                 | 304.0 <sup>(1)</sup> | 258.0   | 272.0 <sup>(1)</sup>  | 235.0   | 241.0 <sup>(1)</sup>  | 214.0                | 215.0 <sup>(1)</sup>  | 180.0*               | 190.0 <sup>(1)</sup> | 163.0*              | 167.0 <sup>(1)</sup>  | 144.0*               | 146.0 <sup>(1)</sup> | 128.0*               | 128.0*               |                      |                      |                      |                     |                      |      |         |      |  |
| 100 | B | 278.0                 | 336.0 <sup>(1)</sup> | 263.0                 | 301.0 <sup>(1)</sup> | 245.0   | 270.0 <sup>(1)</sup>  | 225.0   | 239.0 <sup>(1)</sup>  | 207.0                | 214.0 <sup>(1)</sup>  | 186.0                | 189.0 <sup>(1)</sup> | 166.0               | 166.0                 | 139.0*               | 145.0 <sup>(1)</sup> | 124.0*               | 127.0 <sup>(1)</sup> | 108.0*               | 109.0 <sup>(1)</sup> | 93.1*                | 93.1*               |                      |      |         |      |  |
| 110 | B | 259.0                 | 335.0 <sup>(1)</sup> | 245.0                 | 299.0 <sup>(1)</sup> | 232.0   | 268.0 <sup>(1)</sup>  | 215.0   | 239.0 <sup>(1)</sup>  | 199.0                | 214.0 <sup>(1)</sup>  | 181.0                | 188.0 <sup>(1)</sup> | 163.0               | 163.0                 | 144.0                | 144.0                | 128.0                | 128.0                | 106.0*               | 110.0 <sup>(1)</sup> | 91.7*                | 92.9 <sup>(1)</sup> |                      |      |         |      |  |
| 120 | B | 333.0 <sup>(1)</sup>  | 343.0 <sup>(1)</sup> | 229.0                 | 298.0 <sup>(1)</sup> | 218.0   | 263.0 <sup>(1)</sup>  | 205.0   | 238.0 <sup>(1)</sup>  | 192.0                | 214.0 <sup>(1)</sup>  | 175.0                | 188.0 <sup>(1)</sup> | 159.0               | 161.0 <sup>(2)</sup>  | 141.0                | 141.0                | 126.0                | 126.0                | 109.0                | 109.0                | 93.1                 | 93.1                |                      |      |         |      |  |
| 130 | B | 332.0 <sup>(1)</sup>  | 343.0 <sup>(1)</sup> | 217.0                 | 297.0 <sup>(1)</sup> | 204.0   | 260.0 <sup>(2)</sup>  | 193.0   | 232.0 <sup>(2)</sup>  | 184.0                | 213.0 <sup>(1)</sup>  | 169.0                | 187.0 <sup>(1)</sup> | 154.0               | 161.0 <sup>(2)</sup>  | 138.0                | 140.0 <sup>(2)</sup> | 123.0                | 123.0 <sup>(2)</sup> | 108.0                | 108.0                | 92.7                 | 92.7                |                      |      |         |      |  |
| 140 | B | 325.0 <sup>(2)</sup>  | 337.0 <sup>(2)</sup> | 295.0 <sup>(1)</sup>  | 302.0 <sup>(1)</sup> | 193.0   | 260.0 <sup>(2)</sup>  | 182.0   | 231.0 <sup>(2)</sup>  | 174.0                | 207.0 <sup>(2)</sup>  | 162.0                | 185.0 <sup>(2)</sup> | 149.0               | 161.0 <sup>(2)</sup>  | 135.0                | 141.0 <sup>(2)</sup> | 120.0                | 123.0 <sup>(2)</sup> | 106.0                | 106.0 <sup>(2)</sup> | 91.6                 | 91.6                |                      |      |         |      |  |
| 150 | B | 313.0 <sup>(3)</sup>  | 327.0 <sup>(3)</sup> | 290.0 <sup>(2)</sup>  | 298.0 <sup>(2)</sup> | 184.0   | 263.0 <sup>(2)</sup>  | 174.0   | 232.0 <sup>(2)</sup>  | 167.0                | 208.0 <sup>(2)</sup>  | 156.0                | 184.0 <sup>(2)</sup> | 144.0               | 162.0 <sup>(2)</sup>  | 131.0                | 141.0 <sup>(2)</sup> | 118.0                | 124.0 <sup>(2)</sup> | 104.0                | 106.0 <sup>(2)</sup> | 89.3                 | 90.1 <sup>(2)</sup> |                      |      |         |      |  |
| 160 | B | 303.0 <sup>(4)</sup>  | 318.0 <sup>(4)</sup> | 282.0 <sup>(3)</sup>  | 291.0 <sup>(3)</sup> | 163.0   | 259.0 <sup>(2)</sup>  | 163.0   | 230.0 <sup>(2)</sup>  | 155.0                | 207.0 <sup>(2)</sup>  | 147.0                | 183.0 <sup>(2)</sup> | 138.0               | 163.0 <sup>(2)</sup>  | 126.0                | 142.0 <sup>(2)</sup> | 115.0                | 124.0 <sup>(2)</sup> | 101.0                | 107.0 <sup>(2)</sup> | 88.3                 | 90.8 <sup>(2)</sup> |                      |      |         |      |  |
| 170 | B | 291.0 <sup>(5)</sup>  | 303.0 <sup>(5)</sup> | 273.0 <sup>(5)</sup>  | 283.0 <sup>(5)</sup> | 156.0   | 253.0 <sup>(3)</sup>  | 156.0   | 229.0 <sup>(2)</sup>  | 148.0                | 206.0 <sup>(2)</sup>  | 139.0                | 183.0 <sup>(2)</sup> | 131.0               | 162.0 <sup>(2)</sup>  | 121.0                | 142.0 <sup>(2)</sup> | 111.0                | 124.0 <sup>(2)</sup> | 98.9                 | 107.0 <sup>(2)</sup> | 86.3                 | 90.7 <sup>(2)</sup> |                      |      |         |      |  |
| 180 | B | 273.0 <sup>(6)</sup>  | 287.0 <sup>(6)</sup> | 262.0 <sup>(7)</sup>  | 274.0 <sup>(7)</sup> | 141.0   | 245.0 <sup>(4)</sup>  | 141.0   | 225.0 <sup>(3)</sup>  | 144.0                | 205.0 <sup>(3)</sup>  | 132.0                | 182.0 <sup>(2)</sup> | 125.0               | 160.0 <sup>(2)</sup>  | 116.0                | 141.0 <sup>(2)</sup> | 107.0                | 124.0 <sup>(2)</sup> | 96.1                 | 107.0 <sup>(2)</sup> | 84.1                 | 90.7 <sup>(2)</sup> |                      |      |         |      |  |
| 190 | B | 254.0 <sup>(8)</sup>  | 270.0 <sup>(8)</sup> | 255.0 <sup>(10)</sup> | 262.0 <sup>(7)</sup> | 136.0   | 237.0 <sup>(4)</sup>  | 136.0   | 219.0 <sup>(4)</sup>  | 139.0                | 202.0 <sup>(3)</sup>  | 126.0                | 181.0 <sup>(2)</sup> | 118.0               | 159.0 <sup>(2)</sup>  | 111.0                | 140.0 <sup>(2)</sup> | 103.0                | 123.0 <sup>(2)</sup> | 93.0                 | 107.0 <sup>(2)</sup> | 81.6                 | 90.6 <sup>(2)</sup> |                      |      |         |      |  |
| 200 | B | 235.0 <sup>(9)</sup>  | 254.0 <sup>(7)</sup> | 239.0 <sup>(10)</sup> | 249.0 <sup>(7)</sup> | 121.0   | 229.0 <sup>(7)</sup>  | 121.0   | 214.0 <sup>(5)</sup>  | 128.0                | 204.0 <sup>(2)</sup>  | 128.0                | 183.0 <sup>(2)</sup> | 120.0               | 161.0 <sup>(2)</sup>  | 112.0                | 141.0 <sup>(2)</sup> | 104.0                | 124.0 <sup>(2)</sup> | 93.2                 | 107.0 <sup>(2)</sup> | 82.0                 | 90.9 <sup>(2)</sup> |                      |      |         |      |  |
| 220 | B | 198.0 <sup>(13)</sup> | 223.0 <sup>(9)</sup> | 207.0 <sup>(10)</sup> | 223.0 <sup>(7)</sup> | 103.0   | 208.0 <sup>(13)</sup> | 103.0   | 201.0 <sup>(5)</sup>  | 123.0                | 201.0 <sup>(3)</sup>  | 123.0                | 181.0 <sup>(2)</sup> | 115.0               | 161.0 <sup>(2)</sup>  | 107.0                | 140.0 <sup>(2)</sup> | 99.3                 | 123.0 <sup>(2)</sup> | 90.1                 | 106.0 <sup>(2)</sup> | 79.3                 | 90.6 <sup>(2)</sup> |                      |      |         |      |  |
| 240 | B | 167.0 <sup>(8)</sup>  | 195.0 <sup>(8)</sup> | 175.0 <sup>(9)</sup>  | 198.0 <sup>(9)</sup> | 88.0    | 182.0 <sup>(13)</sup> | 88.0    | 189.0 <sup>(9)</sup>  | 189.0 <sup>(8)</sup> | 181.0 <sup>(13)</sup> | 167.0 <sup>(6)</sup> | 145.0 <sup>(5)</sup> | 85.2                | 130.0 <sup>(4)</sup>  | 79.4                 | 116.0 <sup>(3)</sup> | 73.2                 | 100.0 <sup>(3)</sup> | 66.5                 | 85.0 <sup>(3)</sup>  | 66.5                 | 85.0 <sup>(3)</sup> |                      |      |         |      |  |
| 260 | B | 143.0 <sup>(8)</sup>  | 169.0 <sup>(8)</sup> | 148.0 <sup>(8)</sup>  | 174.0 <sup>(8)</sup> | 78.0    | 155.0 <sup>(13)</sup> | 78.0    | 159.0 <sup>(10)</sup> | 159.0 <sup>(8)</sup> | 141.0 <sup>(13)</sup> | 124.0 <sup>(9)</sup> | 103.0 <sup>(8)</sup> | 64.7                | 137.0 <sup>(5)</sup>  | 70.7                 | 111.0 <sup>(4)</sup> | 64.7                 | 97.3 <sup>(3)</sup>  | 58.7                 | 83.0 <sup>(3)</sup>  | 58.7                 | 83.0 <sup>(3)</sup> |                      |      |         |      |  |
| 280 | B | 118.0 <sup>(8)</sup>  | 142.0 <sup>(8)</sup> | 126.0 <sup>(8)</sup>  | 150.0 <sup>(8)</sup> | 64.0    | 132.0 <sup>(8)</sup>  | 64.0    | 137.0 <sup>(10)</sup> | 137.0 <sup>(8)</sup> | 114.0 <sup>(13)</sup> | 100.0 <sup>(9)</sup> | 83.0 <sup>(8)</sup>  | 64.7                | 135.0 <sup>(5)</sup>  | 70.7                 | 111.0 <sup>(4)</sup> | 64.7                 | 97.3 <sup>(3)</sup>  | 58.7                 | 83.0 <sup>(3)</sup>  | 58.7                 | 83.0 <sup>(3)</sup> |                      |      |         |      |  |
| 300 | B | 100.0 <sup>(8)</sup>  | 123.0 <sup>(8)</sup> | 104.0 <sup>(8)</sup>  | 126.0 <sup>(8)</sup> | 54.0    | 112.0 <sup>(8)</sup>  | 54.0    | 116.0 <sup>(10)</sup> | 116.0 <sup>(8)</sup> | 100.0 <sup>(13)</sup> | 88.0 <sup>(9)</sup>  | 77.0 <sup>(8)</sup>  | 64.7                | 124.0 <sup>(11)</sup> | 112.0 <sup>(9)</sup> | 112.0 <sup>(9)</sup> | 101.0 <sup>(3)</sup> | 89.9 <sup>(6)</sup>  | 44.5                 | 77.7 <sup>(3)</sup>  | 44.5                 | 77.7 <sup>(3)</sup> |                      |      |         |      |  |
| 320 | B | 82.4 <sup>(4)</sup>   | 104.0 <sup>(8)</sup> | 87.3 <sup>(6)</sup>   | 109.0 <sup>(6)</sup> | 44.0    | 91.6 <sup>(4)</sup>   | 44.0    | 97.7 <sup>(8)</sup>   | 97.7 <sup>(6)</sup>  | 84.0 <sup>(13)</sup>  | 74.0 <sup>(9)</sup>  | 64.7                 | 64.7                | 133.0 <sup>(5)</sup>  | 122.0 <sup>(5)</sup> | 110.0 <sup>(3)</sup> | 110.0 <sup>(3)</sup> | 85.6 <sup>(2)</sup>  | 85.6 <sup>(2)</sup>  | 46.1                 | 74.7 <sup>(3)</sup>  | 46.1                | 74.7 <sup>(3)</sup>  |      |         |      |  |
| 340 | B |                       |                      |                       |                      | 38.0    | 76.1 <sup>(4)</sup>   | 38.0    | 78.9 <sup>(6)</sup>   | 78.9 <sup>(4)</sup>  | 69.3 <sup>(13)</sup>  | 60.3 <sup>(9)</sup>  | 51.0 <sup>(8)</sup>  | 44.5                | 124.0 <sup>(11)</sup> | 121.0 <sup>(5)</sup> | 115.0 <sup>(3)</sup> | 107.0 <sup>(3)</sup> | 92.7 <sup>(4)</sup>  | 92.7 <sup>(4)</sup>  | 35.8                 | 79.1 <sup>(4)</sup>  | 35.8                | 79.1 <sup>(4)</sup>  |      |         |      |  |
| 360 | B |                       |                      |                       |                      | 32.0    | 60.7 <sup>(4)</sup>   | 32.0    | 64.4 <sup>(6)</sup>   | 64.4 <sup>(4)</sup>  | 55.9 <sup>(13)</sup>  | 48.0 <sup>(9)</sup>  | 40.0 <sup>(8)</sup>  | 33.7 <sup>(7)</sup> | 110.0 <sup>(9)</sup>  | 110.0 <sup>(5)</sup> | 106.0 <sup>(3)</sup> | 101.0 <sup>(4)</sup> | 90.4 <sup>(4)</sup>  | 90.4 <sup>(4)</sup>  | 26.3                 | 65.6 <sup>(4)</sup>  | 26.3                | 65.6 <sup>(4)</sup>  |      |         |      |  |
| 380 | B |                       |                      |                       |                      | 26.0    | 50.0 <sup>(4)</sup>   | 26.0    | 55.9 <sup>(6)</sup>   | 55.9 <sup>(4)</sup>  | 42.6 <sup>(13)</sup>  | 33.7 <sup>(7)</sup>  | 27.1 <sup>(8)</sup>  | 20.0 <sup>(7)</sup> | 83.8 <sup>(9)</sup>   | 83.8 <sup>(5)</sup>  | 83.9 <sup>(3)</sup>  | 83.9 <sup>(3)</sup>  | 71.6 <sup>(11)</sup> | 71.6 <sup>(11)</sup> | 13.1 <sup>(7)</sup>  | 64.0 <sup>(11)</sup> | 13.1 <sup>(7)</sup> | 64.0 <sup>(11)</sup> |      |         |      |  |
| 400 | B |                       |                      |                       |                      | 20.0    | 42.6 <sup>(4)</sup>   | 20.0    | 46.3 <sup>(6)</sup>   | 46.3 <sup>(4)</sup>  | 33.7 <sup>(7)</sup>   | 27.1 <sup>(8)</sup>  | 20.0 <sup>(7)</sup>  | 14.6 <sup>(7)</sup> | 69.4 <sup>(9)</sup>   | 69.4 <sup>(5)</sup>  | 69.4 <sup>(3)</sup>  | 69.4 <sup>(3)</sup>  | 68.6 <sup>(11)</sup> | 68.6 <sup>(11)</sup> | 10.0 <sup>(7)</sup>  | 57.1 <sup>(11)</sup> | 10.0 <sup>(7)</sup> | 57.1 <sup>(11)</sup> |      |         |      |  |
| 420 | B |                       |                      |                       |                      | 14.0    | 33.7 <sup>(4)</sup>   | 14.0    | 37.4 <sup>(6)</sup>   | 37.4 <sup>(4)</sup>  | 27.1 <sup>(8)</sup>   | 20.0 <sup>(7)</sup>  | 14.6 <sup>(7)</sup>  | 8.9 <sup>(7)</sup>  | 58.7 <sup>(9)</sup>   | 58.7 <sup>(5)</sup>  | 58.7 <sup>(3)</sup>  | 58.7 <sup>(3)</sup>  | 58.7 <sup>(11)</sup> | 58.7 <sup>(11)</sup> | 6.6 <sup>(7)</sup>   | 46.6 <sup>(11)</sup> | 6.6 <sup>(7)</sup>  | 46.6 <sup>(11)</sup> |      |         |      |  |
| 440 | B |                       |                      |                       |                      | 8.0     | 27.1 <sup>(4)</sup>   | 8.0     | 30.8 <sup>(6)</sup>   | 30.8 <sup>(4)</sup>  | 20.0 <sup>(7)</sup>   | 14.6 <sup>(7)</sup>  | 8.9 <sup>(7)</sup>   | 4.4 <sup>(7)</sup>  | 49.7 <sup>(9)</sup>   | 49.7 <sup>(5)</sup>  | 49.7 <sup>(3)</sup>  | 49.7 <sup>(3)</sup>  | 49.7 <sup>(11)</sup> | 49.7 <sup>(11)</sup> | 4.4 <sup>(7)</sup>   | 39.1 <sup>(11)</sup> | 4.4 <sup>(7)</sup>  | 39.1 <sup>(11)</sup> |      |         |      |  |
| 460 | B |                       |                      |                       |                      | 4.0     | 20.0 <sup>(4)</sup>   | 4.0     | 23.8 <sup>(6)</sup>   | 23.8 <sup>(4)</sup>  | 14.6 <sup>(7)</sup>   | 8.9 <sup>(7)</sup>   | 4.4 <sup>(7)</sup>   | 2.2 <sup>(7)</sup>  | 39.1 <sup>(9)</sup>   | 39.1 <sup>(5)</sup>  | 39.1 <sup>(3)</sup>  | 39.1 <sup>(3)</sup>  | 39.1 <sup>(11)</sup> | 39.1 <sup>(11)</sup> | 2.2 <sup>(7)</sup>   | 28.8 <sup>(11)</sup> | 2.2 <sup>(7)</sup>  | 28.8 <sup>(11)</sup> |      |         |      |  |
| 480 | B |                       |                      |                       |                      | 2.0     | 14.6 <sup>(4)</sup>   | 2.0     | 16.9 <sup>(6)</sup>   | 16.9 <sup>(4)</sup>  | 8.9 <sup>(7)</sup>    | 4.4 <sup>(7)</sup>   | 2.2 <sup>(7)</sup>   | 1.1 <sup>(7)</sup>  | 29.9 <sup>(9)</sup>   | 29.9 <sup>(5)</sup>  | 29.9 <sup>(3)</sup>  | 29.9 <sup>(3)</sup>  | 29.9 <sup>(11)</sup> | 29.9 <sup>(11)</sup> | 1.1 <sup>(7)</sup>   | 22.3 <sup>(11)</sup> | 1.1 <sup>(7)</sup>  | 22.3 <sup>(11)</sup> |      |         |      |  |
| 500 | B |                       |                      |                       |                      | 1.0     | 8.9 <sup>(4)</sup>    | 1.0     | 10.0 <sup>(6)</sup>   | 10.0 <sup>(4)</sup>  | 4.4 <sup>(7)</sup>    | 2.2 <sup>(7)</sup>   | 1.1 <sup>(7)</sup>   | 0.6 <sup>(7)</sup>  | 20.0 <sup>(9)</sup>   | 20.0 <sup>(5)</sup>  | 20.0 <sup>(3)</sup>  | 20.0 <sup>(3)</sup>  | 20.0 <sup>(11)</sup> | 20.0 <sup>(11)</sup> | 0.6 <sup>(7)</sup>   | 13.1 <sup>(11)</sup> | 0.6 <sup>(7)</sup>  | 13.1 <sup>(11)</sup> |      |         |      |  |
| 520 | B |                       |                      |                       |                      | 0.5     | 4.4 <sup>(4)</sup>    | 0.5     | 5.0 <sup>(6)</sup>    | 5.0 <sup>(4)</sup>   | 2.2 <sup>(7)</sup>    | 1.1 <sup>(7)</sup>   | 0.6 <sup>(7)</sup>   | 0.3 <sup>(7)</sup>  | 14.6 <sup>(9)</sup>   | 14.6 <sup>(5)</sup>  | 14.6 <sup>(3)</sup>  | 14.6 <sup>(3)</sup>  | 14.6 <sup>(11)</sup> | 14.6 <sup>(11)</sup> | 0.3 <sup>(7)</sup>   | 6.6 <sup>(11)</sup>  | 0.3 <sup>(7)</sup>  | 6.6 <sup>(11)</sup>  |      |         |      |  |

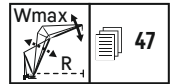
1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°

# HSDWB/BV

# HS 354



661,400 - 826,700 lb  
330,700 - 659,200 lb  
110,200 - 328,500 lb  
0 lb



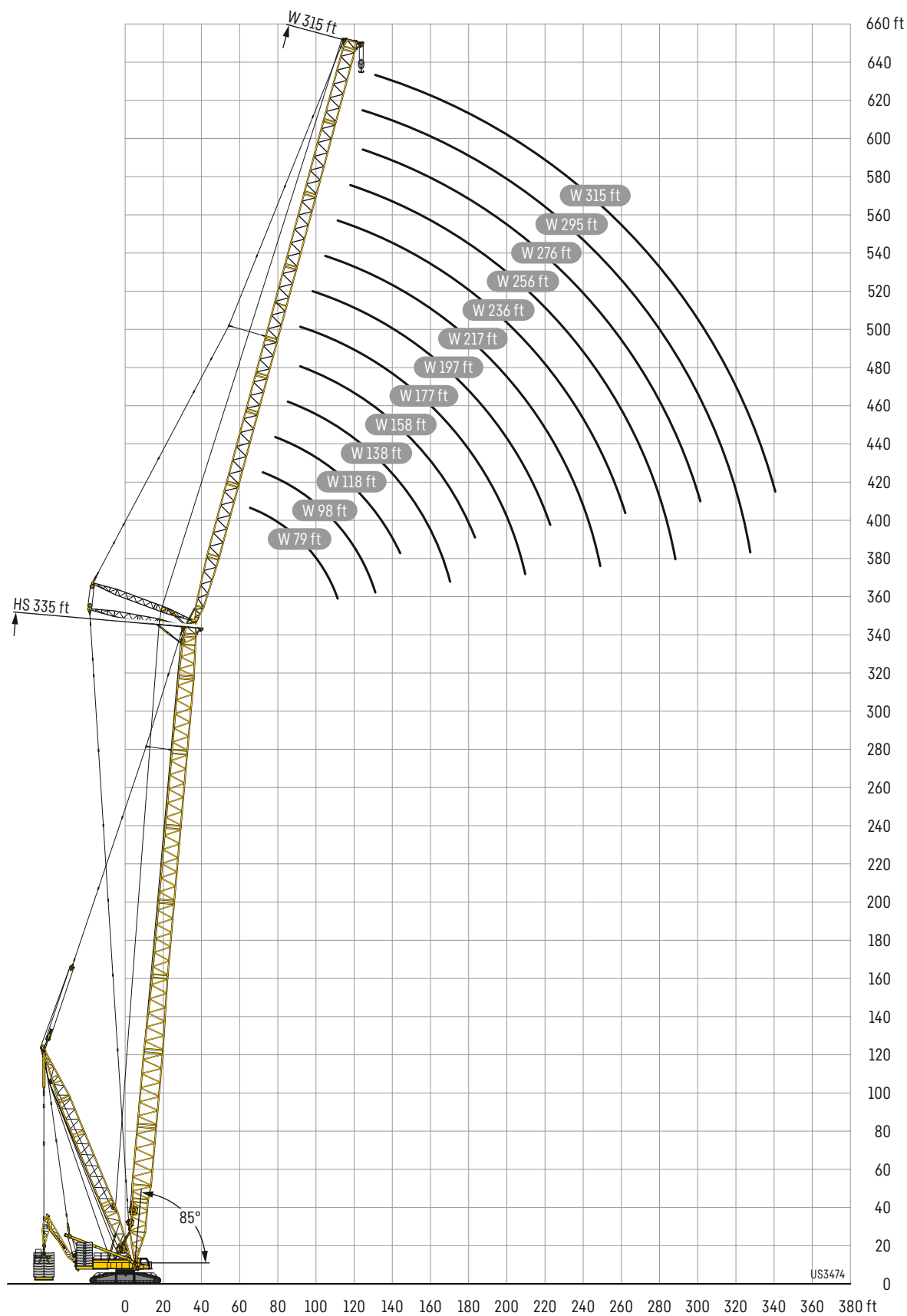
| ft  |    | HS 354 ft |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
|-----|----|-----------|-----------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|--------|----------------------|--------|----------------------|--------|----------------------|--------|----------------------|--------|---------------------|
|     |    | W98ft     |                       | W118ft |                       | W138ft |                       | W158ft |                       | W177ft |                      | W197ft |                      | W217ft |                      | W236ft |                      | W256ft |                     |
|     |    | 87°/85    | Wmax                  | 87°/85 | Wmax                  | 87°/85 | Wmax                  | 87°/85 | Wmax                  | 87°/85 | Wmax                 | 87°/85 | Wmax                 | 87°/85 | Wmax                 | 87°/85 | Wmax                 | 87°/85 | Wmax                |
| 55  | B  | 275.0*    | 275.0*                |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 60  | B  | 270.0*    | 273.0 <sup>(1)</sup>  | 245.0* | 245.0*                |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 70  | B  | 257.0*    | 272.0 <sup>(1)</sup>  | 235.0* | 242.0 <sup>(1)</sup>  | 213.0* | 215.0 <sup>(1)</sup>  | 193.0* | 193.0*                |        |                      |        |                      |        |                      |        |                      |        |                     |
| 80  | B  | 263.0     | 270.0 <sup>(1)</sup>  | 239.0  | 241.0 <sup>(1)</sup>  | 204.0* | 214.0 <sup>(1)</sup>  | 185.0* | 190.0 <sup>(1)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 80  | BV | 264.0     | 270.0 <sup>(1)</sup>  | 238.0  | 239.0 <sup>(1)</sup>  |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 90  | B  | 251.0     | 268.0 <sup>(1)</sup>  | 229.0  | 239.0 <sup>(1)</sup>  | 209.0  | 213.0 <sup>(1)</sup>  | 189.0  | 189.0 <sup>(1)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 90  | BV | 251.0     | 267.0 <sup>(1)</sup>  | 228.0  | 238.0 <sup>(1)</sup>  | 207.0  | 211.0 <sup>(1)</sup>  | 187.0  | 187.0                 |        |                      |        |                      |        |                      |        |                      |        |                     |
| 100 | B  | 236.0     | 265.0 <sup>(1)</sup>  | 218.0  | 237.0 <sup>(1)</sup>  | 201.0  | 212.0 <sup>(1)</sup>  | 183.0  | 188.0 <sup>(1)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 100 | BV | 237.0     | 265.0 <sup>(1)</sup>  | 218.0  | 236.0 <sup>(1)</sup>  | 199.0  | 210.0 <sup>(1)</sup>  | 180.0  | 186.0 <sup>(1)</sup>  | 161.0  | 163.0 <sup>(1)</sup> | 144.0  | 144.0                |        |                      |        |                      |        |                     |
| 110 | B  | 223.0     | 263.0 <sup>(1)</sup>  | 208.0  | 235.0 <sup>(1)</sup>  | 193.0  | 210.0 <sup>(1)</sup>  | 177.0  | 186.0 <sup>(1)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 110 | BV | 224.0     | 262.0 <sup>(1)</sup>  | 208.0  | 234.0 <sup>(1)</sup>  | 192.0  | 209.0 <sup>(1)</sup>  | 175.0  | 185.0 <sup>(1)</sup>  | 157.0  | 163.0 <sup>(1)</sup> | 140.0  | 140.0 <sup>(1)</sup> | 124.0  | 124.0 <sup>(1)</sup> | 110.0  | 110.0                |        |                     |
| 120 | B  | 208.0     | 261.0 <sup>(1)</sup>  | 198.0  | 233.0 <sup>(1)</sup>  | 185.0  | 208.0 <sup>(1)</sup>  | 170.0  | 185.0 <sup>(1)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 120 | BV | 211.0     | 261.0 <sup>(1)</sup>  | 198.0  | 232.0 <sup>(1)</sup>  | 184.0  | 208.0 <sup>(1)</sup>  | 169.0  | 184.0 <sup>(1)</sup>  | 152.0  | 162.0 <sup>(1)</sup> | 137.0  | 138.0 <sup>(2)</sup> | 121.0  | 121.0                | 108.0  | 108.0                | 93.6   | 93.6                |
| 130 | B  | 197.0     | 258.0 <sup>(1)</sup>  | 186.0  | 231.0 <sup>(1)</sup>  | 176.0  | 205.0 <sup>(1)</sup>  | 164.0  | 184.0 <sup>(1)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 130 | BV | 200.0     | 259.0 <sup>(1)</sup>  | 187.0  | 226.0 <sup>(2)</sup>  | 175.0  | 205.0 <sup>(1)</sup>  | 162.0  | 183.0 <sup>(1)</sup>  | 148.0  | 161.0 <sup>(1)</sup> | 133.0  | 138.0 <sup>(2)</sup> | 118.0  | 120.0 <sup>(2)</sup> | 105.0  | 105.0                | 91.7   | 91.7                |
| 140 | B  |           | 256.0 <sup>(1)</sup>  | 175.0  | 229.0 <sup>(1)</sup>  | 166.0  | 202.0 <sup>(2)</sup>  | 157.0  | 180.0 <sup>(2)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 140 | BV |           | 258.0 <sup>(1)</sup>  | 177.0  | 226.0 <sup>(2)</sup>  | 168.0  | 201.0 <sup>(2)</sup>  | 155.0  | 179.0 <sup>(1)</sup>  | 143.0  | 161.0 <sup>(1)</sup> | 129.0  | 138.0 <sup>(2)</sup> | 115.0  | 120.0 <sup>(2)</sup> | 103.0  | 105.0 <sup>(2)</sup> | 89.8   | 89.9 <sup>(2)</sup> |
| 150 | B  |           | 254.0 <sup>(1)</sup>  | 166.0  | 228.0 <sup>(1)</sup>  | 157.0  | 201.0 <sup>(2)</sup>  | 149.0  | 180.0 <sup>(2)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 150 | BV |           | 257.0 <sup>(1)</sup>  | 169.0  | 225.0 <sup>(2)</sup>  | 159.0  | 200.0 <sup>(2)</sup>  | 149.0  | 179.0 <sup>(2)</sup>  | 137.0  | 157.0 <sup>(2)</sup> | 125.0  | 139.0 <sup>(2)</sup> | 112.0  | 120.0 <sup>(2)</sup> | 100.0  | 105.0 <sup>(2)</sup> | 87.8   | 89.9 <sup>(2)</sup> |
| 160 | B  |           | 247.0 <sup>(2)</sup>  |        | 225.0 <sup>(1)</sup>  | 149.0  | 200.0 <sup>(2)</sup>  | 140.0  | 179.0 <sup>(2)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 160 | BV |           | 250.0 <sup>(2)</sup>  |        | 224.0 <sup>(2)</sup>  | 151.0  | 200.0 <sup>(2)</sup>  | 142.0  | 178.0 <sup>(2)</sup>  | 131.0  | 157.0 <sup>(2)</sup> | 121.0  | 139.0 <sup>(2)</sup> | 109.0  | 120.0 <sup>(2)</sup> | 97.6   | 105.0 <sup>(2)</sup> | 85.7   | 90.0 <sup>(2)</sup> |
| 170 | B  |           | 242.0 <sup>(4)</sup>  |        | 220.0 <sup>(2)</sup>  | 143.0  | 199.0 <sup>(2)</sup>  | 133.0  | 178.0 <sup>(2)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 170 | BV |           | 243.0 <sup>(3)</sup>  |        | 222.0 <sup>(2)</sup>  | 145.0  | 199.0 <sup>(2)</sup>  | 135.0  | 178.0 <sup>(2)</sup>  | 126.0  | 157.0 <sup>(2)</sup> | 116.0  | 139.0 <sup>(2)</sup> | 105.0  | 121.0 <sup>(2)</sup> | 94.8   | 105.0 <sup>(2)</sup> | 83.4   | 90.1 <sup>(2)</sup> |
| 180 | B  |           | 233.0 <sup>(6)</sup>  |        | 214.0 <sup>(3)</sup>  |        | 196.0 <sup>(2)</sup>  | 127.0  | 177.0 <sup>(2)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 180 | BV |           | 236.0 <sup>(5)</sup>  |        | 217.0 <sup>(2)</sup>  |        | 198.0 <sup>(2)</sup>  | 129.0  | 177.0 <sup>(2)</sup>  | 119.0  | 157.0 <sup>(2)</sup> | 112.0  | 138.0 <sup>(2)</sup> | 101.0  | 120.0 <sup>(2)</sup> | 92.0   | 105.0 <sup>(2)</sup> | 81.2   | 90.1 <sup>(2)</sup> |
| 190 | B  |           | 230.0 <sup>(8)</sup>  |        | 210.0 <sup>(5)</sup>  |        | 192.0 <sup>(3)</sup>  | 123.0  | 175.0 <sup>(2)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 190 | BV |           | 231.0 <sup>(8)</sup>  |        | 212.0 <sup>(2)</sup>  |        | 194.0 <sup>(2)</sup>  | 125.0  | 176.0 <sup>(2)</sup>  | 114.0  | 156.0 <sup>(2)</sup> | 106.0  | 138.0 <sup>(2)</sup> | 97.6   | 120.0 <sup>(2)</sup> | 89.0   | 105.0 <sup>(2)</sup> | 78.9   | 90.2 <sup>(2)</sup> |
| 200 | B  |           | 221.0 <sup>(10)</sup> |        | 202.0 <sup>(6)</sup>  |        | 187.0 <sup>(4)</sup>  |        | 172.0 <sup>(3)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 200 | BV |           | 223.0 <sup>(10)</sup> |        | 206.0 <sup>(2)</sup>  |        | 190.0 <sup>(2)</sup>  |        | 174.0 <sup>(2)</sup>  | 110.0  | 156.0 <sup>(2)</sup> | 102.0  | 137.0 <sup>(2)</sup> | 93.6   | 120.0 <sup>(2)</sup> | 85.7   | 104.0 <sup>(2)</sup> | 76.5   | 89.7 <sup>(2)</sup> |
| 220 | B  |           | 195.0 <sup>(10)</sup> |        | 191.0 <sup>(10)</sup> |        | 176.0 <sup>(7)</sup>  |        | 163.0 <sup>(5)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 220 | BV |           | 207.0 <sup>(1)</sup>  |        | 195.0 <sup>(2)</sup>  |        | 183.0 <sup>(2)</sup>  |        | 168.0 <sup>(2)</sup>  |        | 151.0 <sup>(2)</sup> | 93.0   | 135.0 <sup>(2)</sup> | 84.5   | 119.0 <sup>(2)</sup> | 78.3   | 104.0 <sup>(2)</sup> | 70.6   | 88.8 <sup>(2)</sup> |
| 240 | B  |           | 169.0 <sup>(10)</sup> |        | 170.0 <sup>(10)</sup> |        | 166.0 <sup>(10)</sup> |        | 155.0 <sup>(8)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 240 | BV |           | 188.0 <sup>(4)</sup>  |        | 184.0 <sup>(2)</sup>  |        | 175.0 <sup>(2)</sup>  |        | 162.0 <sup>(2)</sup>  |        | 147.0 <sup>(2)</sup> |        | 132.0 <sup>(2)</sup> | 77.0   | 116.0 <sup>(2)</sup> | 70.6   | 102.0 <sup>(2)</sup> | 64.0   | 87.8 <sup>(2)</sup> |
| 260 | B  |           | 144.0 <sup>(8)</sup>  |        | 149.0 <sup>(10)</sup> |        | 149.0 <sup>(10)</sup> |        | 145.0 <sup>(10)</sup> |        |                      |        |                      |        |                      |        |                      |        |                     |
| 260 | BV |           | 167.0 <sup>(8)</sup>  |        | 165.0 <sup>(5)</sup>  |        | 164.0 <sup>(2)</sup>  |        | 156.0 <sup>(2)</sup>  |        | 143.0 <sup>(2)</sup> |        | 129.0 <sup>(2)</sup> |        | 113.0 <sup>(2)</sup> | 63.6   | 99.6 <sup>(3)</sup>  | 56.9   | 86.1 <sup>(3)</sup> |
| 280 | B  |           | 123.0 <sup>(8)</sup>  |        | 127.0 <sup>(8)</sup>  |        | 132.0 <sup>(10)</sup> |        | 130.0 <sup>(10)</sup> |        |                      |        |                      |        |                      |        |                      |        |                     |
| 280 | BV |           | 146.0 <sup>(8)</sup>  |        | 148.0 <sup>(8)</sup>  |        | 148.0 <sup>(5)</sup>  |        | 144.0 <sup>(5)</sup>  |        | 139.0 <sup>(2)</sup> |        | 126.0 <sup>(2)</sup> |        | 111.0 <sup>(2)</sup> |        | 97.6 <sup>(3)</sup>  | 50.6   | 84.3 <sup>(3)</sup> |
| 300 | B  |           | 102.0 <sup>(8)</sup>  |        | 109.0 <sup>(8)</sup>  |        | 113.0 <sup>(8)</sup>  |        | 116.0 <sup>(10)</sup> |        |                      |        |                      |        |                      |        |                      |        |                     |
| 300 | BV |           | 125.0 <sup>(8)</sup>  |        | 129.0 <sup>(8)</sup>  |        | 132.0 <sup>(8)</sup>  |        | 130.0 <sup>(6)</sup>  |        | 126.0 <sup>(3)</sup> |        | 120.0 <sup>(2)</sup> |        | 108.0 <sup>(2)</sup> |        | 95.6 <sup>(3)</sup>  |        | 82.4 <sup>(3)</sup> |
| 320 | B  |           | 83.4 <sup>(6)</sup>   |        | 89.9 <sup>(8)</sup>   |        | 95.9 <sup>(8)</sup>   |        | 100.0 <sup>(8)</sup>  |        |                      |        |                      |        |                      |        |                      |        |                     |
| 320 | BV |           | 105.0 <sup>(6)</sup>  |        | 111.0 <sup>(8)</sup>  |        | 115.0 <sup>(8)</sup>  |        | 117.0 <sup>(8)</sup>  |        | 114.0 <sup>(4)</sup> |        | 111.0 <sup>(4)</sup> |        | 104.0 <sup>(5)</sup> |        | 93.5 <sup>(3)</sup>  |        | 80.5 <sup>(3)</sup> |
| 340 | B  |           | 67.6 <sup>(6)</sup>   |        | 72.2 <sup>(6)</sup>   |        | 78.5 <sup>(8)</sup>   |        | 84.0 <sup>(8)</sup>   |        |                      |        |                      |        |                      |        |                      |        |                     |
| 340 | BV |           | 89.4 <sup>(6)</sup>   |        | 93.5 <sup>(6)</sup>   |        | 98.9 <sup>(8)</sup>   |        | 102.0 <sup>(8)</sup>  |        | 102.0 <sup>(9)</sup> |        | 99.9 <sup>(7)</sup>  |        | 94.4 <sup>(5)</sup>  |        | 89.4 <sup>(3)</sup>  |        | 78.6 <sup>(3)</sup> |
| 360 | B  |           |                       |        | 57.5 <sup>(6)</sup>   |        | 62.0 <sup>(6)</sup>   |        | 67.7 <sup>(8)</sup>   |        |                      |        |                      |        |                      |        |                      |        |                     |
| 360 | BV |           |                       |        | 78.9 <sup>(6)</sup>   |        | 82.7 <sup>(6)</sup>   |        | 87.7 <sup>(8)</sup>   |        | 89.6 <sup>(9)</sup>  |        | 89.9 <sup>(9)</sup>  |        | 86.4 <sup>(7)</sup>  |        | 82.7 <sup>(5)</sup>  |        | 76.1 <sup>(4)</sup> |
| 380 | B  |           |                       |        |                       |        | 48.3 <sup>(6)</sup>   |        | 52.2 <sup>(6)</sup>   |        |                      |        |                      |        |                      |        |                      |        |                     |
| 380 | BV |           |                       |        |                       |        | 68.9 <sup>(6)</sup>   |        | 72.4 <sup>(6)</sup>   |        | 76.7 <sup>(9)</sup>  |        | 78.3 <sup>(9)</sup>  |        | 76.9 <sup>(9)</sup>  |        | 75.1 <sup>(7)</sup>  |        | 69.5 <sup>(5)</sup> |
| 400 | B  |           |                       |        |                       |        |                       |        | 39.6 <sup>(6)</sup>   |        |                      |        |                      |        |                      |        |                      |        |                     |
| 400 | BV |           |                       |        |                       |        |                       |        | 59.4 <sup>(6)</sup>   |        | 62.9 <sup>(7)</sup>  |        | 66.7 <sup>(9)</sup>  |        | 66.3 <sup>(9)</sup>  |        | 66.7 <sup>(9)</sup>  |        | 63.2 <sup>(7)</sup> |
| 420 | B  |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 420 | BV |           |                       |        |                       |        |                       |        |                       |        | 50.1 <sup>(7)</sup>  |        | 53.6 <sup>(7)</sup>  |        | 55.6 <sup>(9)</sup>  |        | 57.0 <sup>(9)</sup>  |        | 55.9 <sup>(9)</sup> |
| 440 | B  |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 440 | BV |           |                       |        |                       |        |                       |        |                       |        |                      |        | 41.7 <sup>(7)</sup>  |        | 43.8 <sup>(7)</sup>  |        | 47.2 <sup>(9)</sup>  |        | 46.7 <sup>(9)</sup> |
| 460 | B  |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 460 | BV |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        | 33.1 <sup>(7)</sup>  |        | 36.1 <sup>(7)</sup>  |        | 37.6 <sup>(9)</sup> |
| 480 | B  |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 480 | BV |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        | 26.4 <sup>(7)</sup>  |        | 22.5 <sup>(4)</sup> |
| 500 | B  |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        |                     |
| 500 | BV |           |                       |        |                       |        |                       |        |                       |        |                      |        |                      |        |                      |        |                      |        | 13.7 <sup>(4)</sup> |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°

# Lifting heights

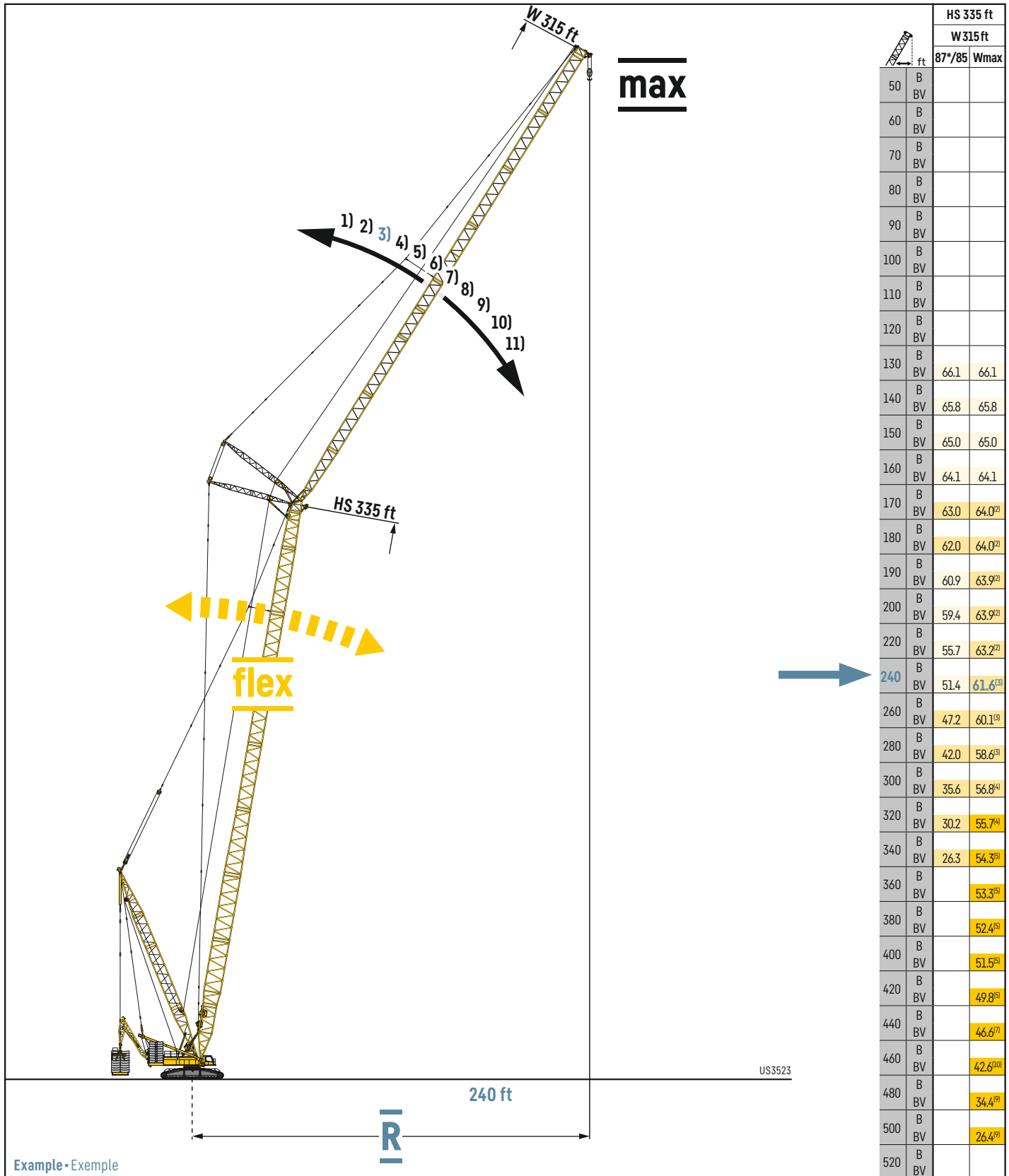
## Hauteurs de levage

# HSDWB/BV



# Example Exemple

# Wmax

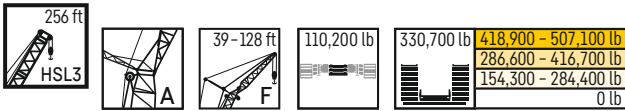


Example - Exemple

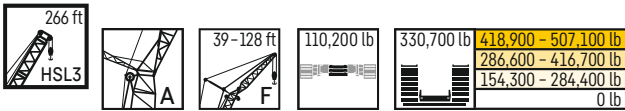
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°

# HSL3AF

# HSL3 256 - 266



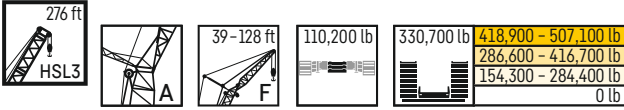
| HSL3 256 ft |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |          |     |
|-------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|----------|------|----------|----------|-----|
| ft          | F 39 ft |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      | F 108 ft |      | F 118 ft | F 128 ft | ft  |
|             | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  | 15°      | 30°  | 30°      | 30°      |     |
| 50          | 375     | 367  |      | 354     |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |          | 50  |
| 60          | 355     | 342  | 219  | 326     | 282  |      | 286     | 241  |      | 254     | 222  |      |         |      |         |      |         |      |          |      |          |          | 60  |
| 70          | 298     | 301  | 209  | 297     | 264  | 183  | 264     | 225  | 165  | 234     | 207  |      |         | 189  |         | 177  |         | 169  |          | 163  |          |          | 70  |
| 80          | 255     | 258  | 201  | 255     | 248  | 175  | 245     | 211  | 158  | 217     | 194  | 139  | 177     | 126  | 164     | 116  | 156     |      | 150      |      |          |          | 80  |
| 90          | 221     | 223  | 193  | 220     | 225  | 168  | 222     | 199  | 151  | 203     | 182  | 133  | 166     | 120  | 154     | 111  | 145     | 104  | 140      | 98.5 | 94.5     | 91.3     | 90  |
| 100         | 193     | 195  | 186  | 193     | 197  | 162  | 195     | 188  | 145  | 189     | 171  | 128  | 156     | 115  | 144     | 106  | 136     | 98.9 | 130      | 93.4 | 89.3     | 86       | 100 |
| 110         | 170     | 171  | 177  | 170     | 174  | 156  | 172     | 174  | 140  | 171     | 162  | 123  | 147     | 110  | 135     | 101  | 128     | 94.3 | 122      | 88.7 | 84.5     | 81.2     | 110 |
| 120         | 150     | 152  | 159  | 150     | 154  | 151  | 153     | 155  | 135  | 152     | 154  | 118  | 139     | 106  | 128     | 96.6 | 120     | 90   | 114      | 84.5 | 80.3     | 76.9     | 120 |
| 130         | 134     | 135  | 142  | 134     | 137  | 143  | 136     | 138  | 131  | 136     | 140  | 114  | 132     | 102  | 121     | 92.6 | 114     | 86.1 | 107      | 80.6 | 76.4     | 72.9     | 130 |
| 140         | 119     | 121  | 127  | 120     | 123  | 129  | 122     | 124  | 125  | 122     | 125  | 110  | 124     | 98.1 | 115     | 89   | 107     | 82.5 | 101      | 77   | 72.8     | 69.3     | 140 |
| 150         | 106     | 108  | 113  | 107     | 110  | 115  | 109     | 111  | 116  | 109     | 113  | 106  | 113     | 94.7 | 109     | 85.7 | 102     | 79.3 | 96       | 73.8 | 69.5     | 66       | 150 |
| 160         | 94.3    | 95.3 | 100  | 95.4    | 98   | 102  | 98.2    | 99.5 | 104  | 98.4    | 102  | 102  | 102     | 91.6 | 101     | 82.7 | 96.8    | 76.3 | 91.1     | 70.8 | 66.5     | 62.9     | 160 |
| 170         | 83.7    | 84.7 | 89.2 | 84.7    | 87.2 | 91   | 87.5    | 88.7 | 93.1 | 88.1    | 90.9 | 94.7 | 91.9    | 88.7 | 91.8    | 79.8 | 91.7    | 73.5 | 86.6     | 68   | 63.8     | 60.1     | 170 |
| 180         | 74.4    | 75.3 | 79.4 | 75.4    | 77.7 | 81.2 | 78.1    | 79.2 | 83.3 | 78.6    | 81.3 | 84.7 | 82.4    | 84.3 | 82.6    | 77.2 | 83.4    | 70.9 | 81.5     | 65.5 | 61.2     | 57.6     | 180 |
| 190         | 66.2    | 66.9 | 70.9 | 67.2    | 69.2 | 72.6 | 69.7    | 70.7 | 74.6 | 70.3    | 72.8 | 75.9 | 73.8    | 77.1 | 74      | 74.8 | 74.9    | 68.6 | 74.6     | 63.1 | 58.8     | 55.1     | 190 |
| 200         | 58.9    | 59.6 | 63.2 | 59.9    | 61.7 | 64.8 | 62.3    | 63.2 | 66.8 | 62.7    | 65.2 | 67.9 | 66      | 69.2 | 66.2    | 69.6 | 67.2    | 66.2 | 66.8     | 60.9 | 56.6     | 52.9     | 200 |
| 220         | 46.4    | 46.9 | 50.1 | 47.1    | 48.8 | 51.3 | 49.3    | 50.1 | 53.1 | 49.6    | 51.8 | 54   | 52.7    | 55.3 | 52.8    | 55.8 | 53.9    | 57.3 | 53.6     | 56.5 | 52.7     | 49       | 220 |
| 240         | 36      | 36.4 | 39   | 36.6    | 38.1 | 40.1 | 38.6    | 39.2 | 41.7 | 38.9    | 40.8 | 42.6 | 41.7    | 43.8 | 41.9    | 44.4 | 42.9    | 45.8 | 42.7     | 45.9 | 46.4     | 45.2     | 240 |
| 260         | 27.8    | 28   | 29.6 | 28.2    | 29.3 | 30.6 | 29.9    | 30.2 | 32.1 | 30.1    | 31.6 | 32.9 | 32.5    | 34.2 | 32.6    | 34.7 | 33.7    | 36.1 | 33.6     | 36.3 | 36.8     | 36.7     | 260 |
| 280         |         |      |      |         |      |      | 23.2    | 23.6 | 24.9 | 23.7    | 24.9 | 25.7 |         |      | 25.7    | 26.7 | 25.9    | 27.2 | 26.8     | 28.3 | 28.5     | 28.9     | 280 |
| 300         |         |      |      |         |      |      |         |      |      |         |      |      |         | 19.4 | 20.2    | 19.7 | 20.9    | 21   | 22.6     | 21   | 22.8     | 23.2     | 300 |
| 320         |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         | 16.5 | 15.4     | 16.9 | 17.6     | 17.7     | 320 |
| 340         |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      | 12.3     | 12.5     | 340 |



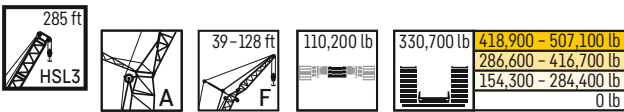
| HSL3 266 ft |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |          |      |     |
|-------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|----------|------|----------|----------|------|-----|
| ft          | F 39 ft |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      | F 108 ft |      | F 118 ft | F 128 ft | ft   |     |
|             | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  | 15°      | 30°  | 30°      | 30°      |      |     |
| 50          | 375     |      |      | 328     | 283  |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |          | 50   |     |
| 60          | 348     | 344  | 219  | 328     | 283  |      | 287     | 242  |      | 255     |      |      |         |      |         |      |         |      |          |      |          |          | 60   |     |
| 70          | 292     | 296  | 210  | 292     | 266  | 183  | 265     | 227  | 165  | 236     | 207  |      | 190     |      | 177     |      | 169     |      | 163      |      |          |          | 70   |     |
| 80          | 250     | 253  | 201  | 249     | 249  | 176  | 246     | 213  | 158  | 219     | 194  | 139  | 177     | 126  | 165     | 116  | 157     |      | 151      |      |          |          | 80   |     |
| 90          | 216     | 218  | 194  | 216     | 221  | 169  | 218     | 201  | 152  | 204     | 183  | 134  | 167     | 121  | 155     | 111  | 146     | 104  | 140      | 98.6 | 94.6     |          | 90   |     |
| 100         | 188     | 191  | 187  | 188     | 193  | 163  | 191     | 190  | 146  | 189     | 173  | 128  | 157     | 115  | 145     | 106  | 137     | 99.1 | 131      | 93.6 | 89.4     | 86.2     | 100  |     |
| 110         | 166     | 167  | 175  | 166     | 170  | 157  | 168     | 170  | 141  | 167     | 164  | 123  | 148     | 111  | 137     | 101  | 129     | 94.6 | 123      | 89   | 84.9     | 81.5     | 110  |     |
| 120         | 146     | 148  | 156  | 147     | 150  | 152  | 149     | 151  | 136  | 148     | 153  | 119  | 140     | 106  | 129     | 97.1 | 121     | 90.4 | 115      | 84.9 | 80.7     | 77.2     | 120  |     |
| 130         | 130     | 132  | 139  | 130     | 134  | 140  | 133     | 134  | 132  | 132     | 136  | 115  | 133     | 102  | 122     | 93.2 | 115     | 86.6 | 109      | 81   | 76.8     | 73.3     | 130  |     |
| 140         | 116     | 117  | 124  | 116     | 119  | 125  | 119     | 120  | 125  | 118     | 122  | 111  | 122     | 98.8 | 116     | 89.6 | 109     | 83.1 | 103      | 77.5 | 73.3     | 69.7     | 140  |     |
| 150         | 103     | 105  | 111  | 104     | 107  | 112  | 106     | 108  | 114  | 106     | 110  | 107  | 110     | 95.4 | 109     | 86.4 | 103     | 79.9 | 97.2     | 74.3 | 70       | 66.5     | 150  |     |
| 160         | 91.9    | 93   | 98.2 | 92.8    | 95.6 | 100  | 95.3    | 96.8 | 102  | 95.1    | 98.6 | 102  | 99      | 92.3 | 98.4    | 83.4 | 97.3    | 76.9 | 92.2     | 71.3 | 67.1     | 63.5     | 160  |     |
| 170         | 81.4    | 82.3 | 87.2 | 82.6    | 85   | 89.2 | 85.2    | 86.7 | 91.5 | 85.4    | 88.7 | 92.7 | 89.3    | 88.8 | 88.8    | 80.6 | 89.4    | 74.2 | 86.7     | 68.6 | 64.3     | 60.7     | 170  |     |
| 180         | 72.1    | 72.9 | 77.5 | 73.2    | 75.5 | 79.4 | 75.9    | 77.2 | 81.5 | 76.4    | 79.3 | 82.8 | 80.3    | 84.1 | 80.2    | 78   | 80.8    | 71.6 | 79.8     | 66.1 | 61.8     | 58.1     | 180  |     |
| 190         | 63.9    | 64.7 | 68.9 | 64.9    | 67.1 | 70.6 | 67.5    | 68.7 | 72.7 | 68      | 70.7 | 73.9 | 71.7    | 75.3 | 71.8    | 74.1 | 72.8    | 69.2 | 72.2     | 63.7 | 59.4     | 55.7     | 190  |     |
| 200         | 56.6    | 57.3 | 61.1 | 57.5    | 59.6 | 62.8 | 59.9    | 61   | 64.7 | 60.4    | 62.9 | 65.7 | 63.8    | 67.1 | 64      | 67.8 | 65      | 66.8 | 64.6     | 61.6 | 57.2     | 53.5     | 200  |     |
| 220         | 43.9    | 44.4 | 47.9 | 44.6    | 46.4 | 49.2 | 46.9    | 47.7 | 50.9 | 47.3    | 49.5 | 51.9 | 50.5    | 53.2 | 50.6    | 53.8 | 51.6    | 55.2 | 51.4     | 55.4 | 53.2     | 49.6     | 220  |     |
| 240         | 33.4    | 33.8 | 36.7 | 34      | 35.6 | 37.9 | 36.2    | 36.9 | 39.5 | 36.5    | 38.5 | 40.4 | 39.5    | 41.8 | 39.6    | 42.3 | 40.7    | 43.7 | 40.5     | 43.9 | 44.4     | 44.2     | 240  |     |
| 260         | 25.4    | 25.8 | 27.8 | 26.1    | 27.2 | 28.7 | 27.8    | 28.2 | 30.1 | 28      | 29.5 | 30.8 | 30.2    | 32   | 30.4    | 32.6 | 31.6    | 34   | 31.3     | 34.3 | 34.8     | 34.6     | 260  |     |
| 280         |         |      |      | 19      | 20   | 21.2 | 20.9    | 21.3 | 22.9 | 21.3    | 22.8 | 23.8 | 23.7    | 25   | 24      | 25.5 | 24.9    | 26.6 | 24.8     | 26.8 | 27.2     | 27.1     | 280  |     |
| 300         |         |      |      |         |      |      |         |      |      |         |      |      | 16.1    | 16.8 | 17.2    | 18.2 | 17.6    | 18.9 | 18.9     | 20.6 | 18.9     | 21.5     | 21.5 | 300 |
| 320         |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      | 12.8    | 13.2 | 14.4     | 13.2 | 14.9     | 15.6     | 15.7 | 320 |

# HSL3AF

# HSL3 276 - 285



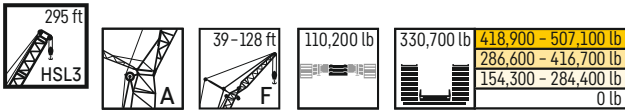
| HSL3 276 ft |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |          |     |     |
|-------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|----------|------|----------|------|----------|-----|-----|
| ft          | F 39 ft |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      | F 108 ft |      | F 118 ft |      | F 128 ft |     | ft  |
|             | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  | 15°      | 30°  | 30°      | 30°  | 30°      | 30° |     |
| 50          | 375     |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |          |     | 50  |
| 60          | 342     | 343  | 220  | 329     | 284  |      | 287     | 242  |      | 256     |      |      |         |      |         |      |         |      |          |      |          |      |          |     | 60  |
| 70          | 288     | 291  | 210  | 287     | 267  | 184  | 267     | 227  | 165  | 237     | 208  |      | 190     |      | 177     |      | 169     |      | 163      |      |          |      |          |     | 70  |
| 80          | 246     | 248  | 202  | 245     | 251  | 176  | 247     | 214  | 159  | 220     | 196  | 140  | 178     | 126  | 166     |      | 158     |      | 152      |      |          |      |          |     | 80  |
| 90          | 212     | 215  | 194  | 212     | 217  | 170  | 214     | 202  | 152  | 206     | 184  | 134  | 167     | 121  | 155     | 111  | 147     | 104  | 141      | 98.7 |          |      |          |     | 90  |
| 100         | 185     | 187  | 188  | 185     | 190  | 163  | 187     | 189  | 147  | 186     | 174  | 129  | 158     | 116  | 146     | 106  | 138     | 99.4 | 132      | 93.8 | 89.6     | 86.3 |          |     | 100 |
| 110         | 162     | 164  | 173  | 163     | 167  | 158  | 165     | 167  | 142  | 164     | 165  | 124  | 149     | 111  | 138     | 102  | 130     | 94.9 | 124      | 89.3 | 85.1     | 81.7 |          |     | 110 |
| 120         | 143     | 145  | 153  | 144     | 148  | 152  | 146     | 148  | 137  | 146     | 150  | 119  | 142     | 107  | 131     | 97.5 | 122     | 90.9 | 116      | 85.2 | 81       | 77.5 |          |     | 120 |
| 130         | 127     | 129  | 136  | 127     | 131  | 137  | 130     | 132  | 132  | 129     | 134  | 115  | 133     | 103  | 124     | 93.7 | 116     | 87   | 110      | 81.5 | 77.2     | 73.7 |          |     | 130 |
| 140         | 113     | 114  | 122  | 113     | 117  | 123  | 116     | 118  | 124  | 115     | 120  | 111  | 120     | 99.4 | 117     | 90.2 | 110     | 83.6 | 104      | 78   | 73.7     | 70.2 |          |     | 140 |
| 150         | 101     | 102  | 109  | 101     | 104  | 110  | 104     | 105  | 112  | 103     | 107  | 107  | 108     | 96.1 | 107     | 87   | 104     | 80.4 | 98.4     | 74.8 | 70.5     | 66.9 |          |     | 150 |
| 160         | 90      | 91.1 | 96.9 | 90.3    | 93.5 | 98.5 | 92.9    | 94.3 | 100  | 92.6    | 96.4 | 100  | 96.6    | 93.2 | 96.3    | 84   | 96.7    | 77.4 | 93.1     | 71.9 | 67.6     | 64   |          |     | 160 |
| 170         | 79.9    | 81   | 86   | 80.7    | 83.5 | 87.9 | 83.3    | 84.6 | 90   | 83.1    | 86.6 | 90.8 | 86.9    | 89.2 | 86.7    | 81.2 | 87.1    | 74.7 | 85.9     | 69.2 | 64.8     | 61.2 |          |     | 170 |
| 180         | 70.7    | 71.6 | 76.2 | 71.6    | 74.2 | 78.1 | 74.5    | 75.7 | 80.3 | 74.6    | 77.7 | 81.5 | 78.3    | 82.4 | 78      | 78.3 | 78.5    | 72.2 | 77.7     | 66.7 | 62.3     | 58.7 |          |     | 180 |
| 190         | 62.4    | 63.3 | 67.6 | 63.4    | 65.8 | 69.3 | 66.1    | 67.1 | 71.4 | 66.4    | 69.3 | 72.6 | 70.1    | 74   | 70.1    | 74.5 | 70.9    | 70   | 70.1     | 64.3 | 60       | 56.3 |          |     | 190 |
| 200         | 55      | 55.8 | 59.9 | 55.8    | 58.1 | 61.5 | 58.4    | 59.4 | 63.4 | 58.8    | 61.5 | 64.5 | 62.4    | 65.8 | 62.5    | 66.4 | 63.4    | 66.3 | 63       | 62   | 57.8     | 54.1 |          |     | 200 |
| 220         | 42.3    | 42.8 | 46.5 | 43      | 44.9 | 47.8 | 45.4    | 46.2 | 49.6 | 45.7    | 48.1 | 50.6 | 49      | 51.9 | 49.1    | 52.4 | 50.2    | 53.9 | 49.9     | 53.9 | 52.9     | 50.2 |          |     | 220 |
| 240         | 31.7    | 32.2 | 35.3 | 32.4    | 34.1 | 36.5 | 34.6    | 35.3 | 38.2 | 34.9    | 37.1 | 39.1 | 37.9    | 40.4 | 38.1    | 40.9 | 39.2    | 42.4 | 38.9     | 42.5 | 43       | 42.8 |          |     | 240 |
| 260         | 23.9    | 24.3 | 26.6 | 24.6    | 25.9 | 27.6 | 26.5    | 27   | 28.9 | 26.8    | 28.2 | 29.6 | 29      | 30.8 | 29.1    | 31.3 | 30.2    | 32.7 | 29.8     | 32.9 | 33.4     | 33.2 |          |     | 260 |
| 280         |         | 17.1 | 18.9 | 17.4    | 18.6 | 20   | 19.4    | 19.9 | 21.7 | 19.8    | 21.4 | 22.6 | 22.4    | 23.9 | 22.6    | 24.4 | 23.7    | 25.5 | 23.6     | 25.7 | 26.1     | 26   |          |     | 280 |
| 300         |         |      |      |         |      |      |         |      | 14.7 | 13.5    | 14.8 | 15.7 | 15.9    | 17   | 16.1    | 17.7 | 17.4    | 19.3 | 17.4     | 19.7 | 20.3     | 20.2 |          |     | 300 |
| 320         |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         | 11.6 | 11.8    | 13.2 | 11.8     | 13.6 | 14.3     | 14.4 |          |     | 320 |



| HSL3 285 ft |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |          |     |     |     |
|-------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|----------|------|----------|------|----------|-----|-----|-----|
| ft          | F 39 ft |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      | F 108 ft |      | F 118 ft |      | F 128 ft |     | ft  |     |
|             | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  | 15°      | 30°  | 30°      | 30°  | 30°      | 30° |     |     |
| 50          | 375     |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |          |     | 50  |     |
| 60          | 336     | 339  | 220  | 330     | 285  |      | 288     | 243  |      | 256     |      |      |         |      |         |      |         |      |          |      |          |      |          |     | 60  |     |
| 70          | 282     | 286  | 211  | 282     | 268  | 184  | 268     | 228  |      | 238     | 209  |      | 191     |      | 178     |      |         |      |          |      |          |      |          |     | 70  |     |
| 80          | 241     | 244  | 203  | 241     | 246  | 176  | 242     | 215  | 159  | 222     | 196  | 140  | 179     | 126  | 166     |      | 158     |      | 152      |      |          |      |          |     | 80  |     |
| 90          | 208     | 210  | 195  | 208     | 213  | 170  | 210     | 204  | 153  | 208     | 185  | 134  | 168     | 121  | 156     | 111  | 148     | 104  | 142      |      |          |      |          |     | 90  |     |
| 100         | 181     | 183  | 188  | 181     | 186  | 164  | 183     | 186  | 147  | 183     | 175  | 129  | 159     | 116  | 147     | 106  | 139     | 99.6 | 133      | 94   | 89.8     | 86.4 |          |     | 100 |     |
| 110         | 158     | 160  | 169  | 159     | 163  | 158  | 161     | 164  | 142  | 161     | 164  | 124  | 150     | 112  | 139     | 102  | 131     | 95.2 | 125      | 89.6 | 85.3     | 81.9 |          |     | 110 |     |
| 120         | 140     | 141  | 150  | 140     | 144  | 151  | 142     | 145  | 137  | 142     | 147  | 120  | 143     | 107  | 131     | 98   | 124     | 91.2 | 118      | 85.6 | 81.3     | 77.8 |          |     | 120 |     |
| 130         | 123     | 125  | 133  | 124     | 127  | 134  | 126     | 128  | 133  | 126     | 130  | 116  | 131     | 104  | 125     | 94.2 | 117     | 87.5 | 111      | 81.9 | 77.6     | 74.1 |          |     | 130 |     |
| 140         | 109     | 111  | 118  | 110     | 113  | 119  | 112     | 114  | 121  | 112     | 116  | 112  | 117     | 100  | 116     | 90.7 | 111     | 84.1 | 105      | 78.5 | 74.1     | 70.6 |          |     | 140 |     |
| 150         | 97.2    | 98.4 | 105  | 97.7    | 101  | 107  | 100     | 102  | 108  | 100     | 104  | 108  | 104     | 96.7 | 104     | 87.6 | 104     | 80.9 | 99.4     | 75.3 | 71       | 67.4 |          |     | 150 |     |
| 160         | 86.4    | 87.6 | 94   | 87      | 90.1 | 95.5 | 89.4    | 91.2 | 97.2 | 89.5    | 93.1 | 97.9 | 93.7    | 93.6 | 93.2    | 84.6 | 93.5    | 78   | 92.2     | 72.4 | 68.1     | 64.4 |          |     | 160 |     |
| 170         | 76.9    | 77.9 | 83.8 | 77.4    | 80.4 | 85.4 | 79.9    | 81.5 | 87.1 | 79.9    | 83.4 | 87.8 | 84      | 87.9 | 83.5    | 81.9 | 84      | 75.3 | 83.2     | 69.7 | 65.3     | 61.7 |          |     | 170 |     |
| 180         | 68.3    | 69.2 | 74.3 | 68.9    | 71.6 | 76.1 | 71.4    | 72.9 | 78.1 | 71.4    | 74.7 | 78.7 | 75.4    | 79.9 | 74.9    | 78.5 | 75.6    | 72.7 | 74.8     | 67.2 | 62.9     | 59.2 |          |     | 180 |     |
| 190         | 60      | 60.9 | 65.6 | 60.9    | 63.4 | 67.4 | 63.5    | 64.8 | 69.3 | 63.7    | 66.9 | 70.4 | 67.5    | 71.6 | 67.2    | 71.8 | 68      | 69.9 | 67.2     | 64.9 | 60.5     | 56.9 |          |     | 190 |     |
| 200         | 52.5    | 53.3 | 57.8 | 53.4    | 55.7 | 59.4 | 56      | 57.1 | 61.3 | 56.4    | 59.2 | 62.3 | 60.1    | 63.8 | 60.1    | 64.3 | 61      | 65.7 | 60.3     | 62.7 | 58.4     | 54.6 |          |     | 200 |     |
| 220         | 39.7    | 40.3 | 44.2 | 40.4    | 42.5 | 45.6 | 42.9    | 43.9 | 47.4 | 43.3    | 45.8 | 48.4 | 46.7    | 49.8 | 46.9    | 50.4 | 47.9    | 51.8 | 47.6     | 52.1 | 52.4     | 50.2 |          |     | 220 |     |
| 240         | 29.3    | 29.8 | 33.1 | 29.8    | 31.7 | 34.3 | 32.2    | 32.9 | 36   | 32.5    | 34.7 | 36.9 | 35.7    | 38.3 | 35.9    | 38.9 | 36.9    | 40.3 | 36.7     | 40.5 | 41       | 40.8 |          |     | 240 |     |
| 260         | 21.5    | 21.9 | 24.5 | 22.2    | 23.7 | 25.7 | 24.4    | 25   | 27.1 | 24.7    | 26.4 | 27.8 | 27.1    | 28.9 | 27.3    | 29.4 | 28.1    | 30.6 | 28       | 30.9 | 31.4     | 31.2 |          |     | 260 |     |
| 280         | 14.3    | 14.6 | 16.7 | 15      | 16.3 | 17.9 | 17.1    | 17.6 | 19.6 | 17.5    | 19.2 | 20.6 | 20.3    | 21.9 | 20.5    | 22.6 | 21.8    | 23.8 | 21.6     | 24   | 24.4     | 24.3 |          |     | 280 |     |
| 300         |         |      |      |         |      |      |         |      | 11.2 | 12.7    | 11.2 | 12.6 | 13.6    | 13.6 | 15      | 14   | 15.7    | 15.3 | 17.3     | 15.3 | 17.4     | 18.4 | 18.3     |     |     | 300 |
| 320         |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      | 11.2    | 11.2 | 11.6     | 12.3 | 12.4     |      |          |     | 320 |     |

# HSL3AF

# HSL3 295 - 305



295 ft  
HSL3

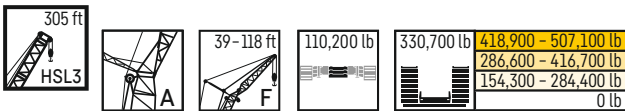
39-128 ft

110,200 lb

330,700 lb

418,900 - 507,100 lb  
286,600 - 416,700 lb  
154,300 - 284,400 lb  
0 lb

| HSL3 295 ft |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |          |     |     |     |
|-------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|----------|------|----------|------|----------|-----|-----|-----|
| ft          | F 39 ft |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      | F 108 ft |      | F 118 ft |      | F 128 ft |     | ft  |     |
|             | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  | 15°      | 30°  | 30°      | 30°  | 30°      | 30° |     |     |
| 50          | 276     |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |          |     | 50  |     |
| 60          | 331     | 335  |      | 327     | 285  |      |         | 289  |      |         |      | 256  |         |      |         |      |         |      |          |      |          |      |          |     | 60  |     |
| 70          | 279     | 282  | 211  | 278     | 269  | 184  | 269     | 229  |      |         |      | 239  | 209     |      | 191     |      | 178     |      |          |      |          |      |          |     | 70  |     |
| 80          | 238     | 241  | 203  | 237     | 243  | 177  | 240     | 216  | 159  | 223     | 197  | 140  | 179     | 127  | 167     |      |         | 158  |          |      | 152      |      |          |     | 80  |     |
| 90          | 205     | 208  | 196  | 205     | 210  | 170  | 207     | 205  | 153  | 205     | 186  | 134  | 169     | 121  | 157     | 111  | 149     | 104  | 142      |      |          |      |          |     | 90  |     |
| 100         | 179     | 181  | 188  | 179     | 183  | 164  | 181     | 184  | 148  | 180     | 177  | 129  | 160     | 116  | 148     | 107  | 139     | 99.8 | 133      | 94.1 | 89.9     | 86.6 |          |     | 100 |     |
| 110         | 156     | 158  | 167  | 157     | 161  | 159  | 159     | 162  | 143  | 158     | 164  | 125  | 152     | 112  | 140     | 102  | 132     | 95.5 | 125      | 89.8 | 85.5     | 82.1 |          |     | 110 |     |
| 120         | 138     | 139  | 148  | 138     | 142  | 149  | 141     | 143  | 138  | 140     | 145  | 121  | 143     | 108  | 132     | 98.3 | 125     | 91.5 | 118      | 85.9 | 81.6     | 78.1 |          |     | 120 |     |
| 130         | 122     | 123  | 131  | 122     | 126  | 133  | 125     | 127  | 132  | 124     | 129  | 117  | 129     | 104  | 125     | 94.6 | 118     | 87.9 | 112      | 82.2 | 77.9     | 74.4 |          |     | 130 |     |
| 140         | 108     | 109  | 117  | 108     | 112  | 118  | 111     | 113  | 120  | 110     | 115  | 113  | 115     | 101  | 114     | 91.2 | 112     | 84.5 | 106      | 78.9 | 74.5     | 71   |          |     | 140 |     |
| 150         | 95.8    | 97.2 | 104  | 96.2    | 99.6 | 105  | 98.9    | 101  | 107  | 98.7    | 103  | 108  | 103     | 97.4 | 102     | 88.1 | 103     | 81.4 | 100      | 75.7 | 71.4     | 67.8 |          |     | 150 |     |
| 160         | 85.1    | 86.4 | 92.8 | 85.5    | 88.8 | 94.2 | 88.3    | 89.9 | 96   | 88      | 91.9 | 96.6 | 92.4    | 93.8 | 91.7    | 85.1 | 92.1    | 78.5 | 91       | 72.9 | 68.5     | 64.8 |          |     | 160 |     |
| 170         | 75.7    | 76.8 | 82.9 | 76      | 79.2 | 84.2 | 78.8    | 80.2 | 86   | 78.5    | 82.3 | 86.7 | 82.7    | 87.7 | 82.2    | 82.4 | 82.9    | 75.9 | 81.9     | 70.2 | 65.9     | 62.2 |          |     | 170 |     |
| 180         | 67.2    | 68.2 | 73.9 | 67.5    | 70.6 | 75.2 | 70.3    | 71.6 | 77   | 70.1    | 73.7 | 77.7 | 74.1    | 78.7 | 73.8    | 77.6 | 74.4    | 73.3 | 73.4     | 67.7 | 63.4     | 59.6 |          |     | 180 |     |
| 190         | 59.3    | 60.3 | 65.2 | 59.9    | 62.7 | 66.8 | 62.6    | 63.8 | 68.7 | 62.5    | 65.9 | 69.6 | 66.4    | 70.6 | 66.2    | 70.9 | 66.8    | 70.4 | 65.9     | 65.3 | 61.1     | 57.3 |          |     | 190 |     |
| 200         | 51.9    | 52.7 | 57.3 | 52.6    | 55.1 | 58.8 | 55.4    | 56.4 | 60.7 | 55.6    | 58.6 | 61.9 | 59.4    | 63.1 | 59.2    | 63.5 | 59.8    | 64.5 | 59.2     | 62.3 | 58.8     | 55.1 |          |     | 200 |     |
| 220         | 39      | 39.7 | 43.8 | 39.7    | 41.9 | 45.2 | 42.3    | 43.2 | 46.9 | 42.6    | 45.2 | 47.9 | 46.1    | 49.3 | 46.2    | 49.8 | 47.2    | 51.3 | 46.9     | 51.4 | 51.6     | 50.1 |          |     | 220 |     |
| 240         | 28.8    | 29.2 | 32.7 | 29.3    | 31.1 | 33.9 | 31.6    | 32.3 | 35.5 | 31.8    | 34.2 | 36.5 | 35.1    | 37.7 | 35.2    | 38.2 | 36.3    | 39.7 | 35.9     | 39.9 | 40.3     | 40   |          |     | 240 |     |
| 260         | 21      | 21.5 | 24.3 | 21.7    | 23.4 | 25.5 | 23.9    | 24.5 | 26.8 | 24.2    | 26   | 27.4 | 26.7    | 28.5 | 26.7    | 28.8 | 27.6    | 30.2 | 27.4     | 30.4 | 30.7     | 30.6 |          |     | 260 |     |
| 280         | 13.9    | 14.2 | 16.6 | 14.5    | 15.9 | 17.7 | 16.6    | 17.2 | 19.4 | 17      | 18.8 | 20.3 | 19.8    | 21.6 | 20      | 22.1 | 21.2    | 23.4 | 21.1     | 23.5 | 23.9     | 23.8 |          |     | 280 |     |
| 300         |         |      |      |         |      |      |         |      | 12.4 |         |      |      |         | 12.2 | 13.4    | 13.2 | 14.7    | 13.5 | 15.3     | 14.7 | 16.9     | 17.8 | 17.8     |     |     | 300 |
| 320         |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      | 11.1     | 11.8 | 11.8     |     |     | 320 |



305 ft  
HSL3

39-118 ft

110,200 lb

330,700 lb

418,900 - 507,100 lb  
286,600 - 416,700 lb  
154,300 - 284,400 lb  
0 lb

| HSL3 305 ft |         |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      |          |      |          |      |      |     |     |     |
|-------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|----------|------|----------|------|------|-----|-----|-----|
| ft          | F 39 ft |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      | F 108 ft |      | F 118 ft |      | ft   |     |     |     |
|             | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  | 15°      | 30°  | 30°      | 30°  |      | 30° | 30° |     |
| 60          | 325     | 329  |      | 324     | 285  |      | 289     |      |      |         |      | 256  |         |      |         |      |         |      |          |      |          |      |      |     | 60  |     |
| 70          | 273     | 277  | 212  | 273     | 270  | 184  | 270     | 229  |      |         |      | 239  | 210     |      | 191     |      |         |      |          |      |          |      |      |     | 70  |     |
| 80          | 233     | 236  | 204  | 233     | 238  | 177  | 235     | 217  | 159  | 224     | 198  | 140  | 180     |      | 167     |      | 159     |      |          | 153  |          |      |      |     | 80  |     |
| 90          | 201     | 203  | 197  | 201     | 206  | 171  | 203     | 204  | 154  | 202     | 187  | 135  | 170     |      | 121     | 157  | 111     | 149  |          | 143  |          |      |      |     | 90  |     |
| 100         | 174     | 177  | 187  | 175     | 179  | 165  | 177     | 180  | 148  | 176     | 177  | 130  | 161     | 117  | 149     | 107  | 140     | 99.9 | 134      | 94.2 | 89.9     |      |      |     | 100 |     |
| 110         | 152     | 154  | 164  | 153     | 157  | 160  | 155     | 158  | 143  | 155     | 160  | 125  | 153     | 112  | 141     | 103  | 133     | 95.7 | 126      | 90   | 85.7     |      |      |     | 110 |     |
| 120         | 134     | 136  | 144  | 134     | 138  | 146  | 137     | 139  | 138  | 136     | 141  | 121  | 141     | 108  | 134     | 98.7 | 126     | 91.9 | 119      | 86.1 | 81.8     |      |      |     | 120 |     |
| 130         | 118     | 120  | 128  | 118     | 122  | 129  | 121     | 123  | 131  | 121     | 125  | 117  | 126     | 105  | 125     | 95.1 | 119     | 88.3 | 113      | 82.6 | 78.2     |      |      |     | 130 |     |
| 140         | 104     | 106  | 113  | 105     | 108  | 115  | 107     | 109  | 117  | 107     | 112  | 113  | 112     | 101  | 111     | 91.7 | 111     | 85   | 107      | 79.3 | 74.9     |      |      |     | 140 |     |
| 150         | 92.3    | 93.6 | 101  | 92.7    | 96.4 | 102  | 95.6    | 97.3 | 104  | 95.2    | 99.4 | 105  | 99.8    | 98.1 | 99.2    | 88.6 | 99.6    | 81.9 | 98.4     | 76.2 | 71.8     |      |      |     | 150 |     |
| 160         | 81.7    | 82.8 | 89.8 | 82.1    | 85.6 | 91.2 | 84.9    | 86.5 | 92.9 | 84.7    | 88.8 | 93.7 | 89.2    | 94.1 | 88.6    | 85.7 | 89.1    | 79   | 88       | 73.3 | 68.9     |      |      |     | 160 |     |
| 170         | 72.2    | 73.3 | 79.8 | 72.7    | 76   | 81.2 | 75.4    | 77   | 82.9 | 75.4    | 79.2 | 83.9 | 79.6    | 84.8 | 79.3    | 82.4 | 79.9    | 76.4 | 78.8     | 70.7 | 66.3     |      |      |     | 170 |     |
| 180         | 63.8    | 64.8 | 71   | 64.3    | 67.4 | 72.3 | 66.9    | 68.5 | 74   | 67      | 70.6 | 74.9 | 71.2    | 76   | 70.9    | 76.2 | 71.4    | 73.9 | 70.5     | 68.2 | 63.9     |      |      |     | 180 |     |
| 190         | 56.2    | 57.2 | 62.8 | 56.7    | 59.7 | 64.3 | 59.4    | 60.8 | 66   | 59.4    | 62.8 | 66.8 | 63.5    | 67.9 | 63.2    | 68.1 | 63.8    | 68.6 | 63.1     | 65.5 | 61.6     |      |      |     | 190 |     |
| 200         | 49.3    | 50.1 | 55.1 | 49.9    | 52.6 | 56.7 | 52.5    | 53.8 | 58.5 | 52.6    | 55.8 | 59.4 | 56.5    | 60.6 | 56.2    | 60.8 | 57      | 62.1 | 56.3     | 61.8 | 59.1     |      |      |     | 200 |     |
| 220         | 36.5    | 37.1 | 41.6 | 37.3    | 39.5 | 43   | 39.8    | 40.9 | 44.8 | 40.2    | 42.9 | 45.7 | 43.8    | 47.2 | 43.9    | 47.8 | 44.9    | 49.2 | 44.3     | 49.3 | 49.4     |      |      |     | 220 |     |
| 240         | 26.7    | 27.2 | 30.5 | 27.3    | 28.9 | 31.6 | 29.4    | 30.2 | 33.3 | 29.5    | 31.9 | 34.3 | 32.8    | 35.6 | 33      | 36.2 | 34      | 37.6 | 33.8     | 37.9 | 38.2     |      |      |     | 240 |     |
| 260         | 18.5    | 19   | 22.2 | 19.3    | 21   | 23.5 | 21.6    | 22.3 | 24.9 | 22.1    | 24.1 | 25.7 | 24.8    | 26.7 | 24.9    | 27.2 | 25.8    | 28.4 | 25.6     | 28.5 | 29       |      |      |     | 260 |     |
| 280         | 11.4    | 11.7 | 14.4 | 12      | 13.5 | 15.6 | 14.2    | 14.9 | 17.3 | 14.7    | 16.6 | 18.2 | 17.6    | 19.6 | 17.9    | 20.3 | 19.1    | 21.7 | 18.7     | 21.8 | 22.1     |      |      |     | 280 |     |
| 300         |         |      |      |         |      |      |         |      |      |         |      |      |         | 11.3 |         | 12.6 | 11.3    | 13.3 | 12.6     | 14.9 | 12.4     | 15.1 | 15.6 |     |     | 300 |

# HSL3AF

# HSL3 315 - 335

315 ft  
HSL3  
A  
F  
110,200 lb  
330,700 lb  
418,900 - 507,100 lb  
286,600 - 416,700 lb  
154,300 - 284,400 lb  
0 lb

| ft  |  | HSL3 315 ft |      |      |         |      |      |         |      |      |         |      |      |         |      |         |      |         |      | ft  |  |
|-----|--|-------------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|---------|------|---------|------|-----|--|
|     |  | F 39 ft     |      |      | F 49 ft |      |      | F 59 ft |      |      | F 69 ft |      |      | F 79 ft |      | F 89 ft |      | F 98 ft |      |     |  |
|     |  | 10°         | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 15°     | 30°  | 15°     | 30°  | 15°     | 30°  |     |  |
| 60  |  | 319         | 323  |      | 318     | 285  |      | 289     |      |      |         |      |      |         |      |         |      |         |      | 60  |  |
| 70  |  | 269         | 272  | 212  | 268     | 270  | 184  | 270     | 230  |      | 240     | 210  |      |         |      |         |      |         |      | 70  |  |
| 80  |  | 229         | 232  | 205  | 229     | 234  | 177  | 231     | 218  | 159  | 225     | 198  | 140  | 180     |      | 168     |      |         | 159  | 80  |  |
| 90  |  | 197         | 200  | 198  | 197     | 202  | 171  | 200     | 203  | 154  | 198     | 188  | 135  | 171     | 122  | 158     | 112  | 150     |      | 90  |  |
| 100 |  | 171         | 173  | 183  | 171     | 176  | 166  | 174     | 177  | 148  | 173     | 178  | 130  | 162     | 117  | 150     | 107  | 141     | 100  | 100 |  |
| 110 |  | 149         | 151  | 161  | 149     | 154  | 159  | 152     | 155  | 144  | 152     | 157  | 126  | 154     | 113  | 142     | 103  | 134     | 95.9 | 110 |  |
| 120 |  | 131         | 133  | 141  | 131     | 135  | 143  | 134     | 136  | 139  | 133     | 138  | 121  | 139     | 109  | 134     | 99   | 127     | 92.1 | 120 |  |
| 130 |  | 115         | 117  | 125  | 115     | 119  | 127  | 118     | 120  | 129  | 118     | 123  | 118  | 123     | 105  | 122     | 95.5 | 120     | 88.6 | 130 |  |
| 140 |  | 101         | 103  | 111  | 102     | 106  | 112  | 105     | 107  | 114  | 104     | 109  | 113  | 109     | 102  | 109     | 92.1 | 109     | 85.3 | 140 |  |
| 150 |  | 89.3        | 90.8 | 98.3 | 90      | 93.6 | 99.7 | 92.7    | 94.6 | 102  | 92.5    | 96.8 | 102  | 97.2    | 98.3 | 96.7    | 89.1 | 97      | 82.3 | 150 |  |
| 160 |  | 78.7        | 80.2 | 87.1 | 79.4    | 82.8 | 88.8 | 82.1    | 84.1 | 90.4 | 82.2    | 86.2 | 91.3 | 86.6    | 92.3 | 86.1    | 86.3 | 86.6    | 79.5 | 160 |  |
| 170 |  | 69.4        | 70.7 | 77.2 | 70      | 73.2 | 78.8 | 72.8    | 74.5 | 80.6 | 72.8    | 76.6 | 81.4 | 77.3    | 82.5 | 76.9    | 82.1 | 77.3    | 76.8 | 170 |  |
| 180 |  | 61.1        | 62.2 | 68.4 | 61.6    | 64.7 | 69.9 | 64.5    | 66   | 71.7 | 64.4    | 68.1 | 72.4 | 68.8    | 73.7 | 68.3    | 73.8 | 69      | 73.4 | 180 |  |
| 190 |  | 53.6        | 54.6 | 60.5 | 54      | 57.1 | 61.9 | 56.9    | 58.3 | 63.7 | 56.8    | 60.5 | 64.5 | 61.1    | 65.7 | 60.7    | 65.9 | 61.5    | 67.2 | 190 |  |
| 200 |  | 46.8        | 47.7 | 53.3 | 47.2    | 50.2 | 54.6 | 50.1    | 51.3 | 56.4 | 50      | 53.5 | 57.2 | 54.1    | 58.3 | 53.9    | 58.7 | 54.7    | 59.9 | 200 |  |
| 220 |  | 34.6        | 35.3 | 39.8 | 35.2    | 37.7 | 41.2 | 38      | 39   | 43.1 | 38.2    | 41.2 | 44.2 | 42      | 45.5 | 41.9    | 45.9 | 42.7    | 47.3 | 220 |  |
| 240 |  | 25.1        | 25.6 | 28.9 | 25.6    | 27.4 | 30   | 27.7    | 28.5 | 31.8 | 28.1    | 30.3 | 32.7 | 31.2    | 34   | 31.2    | 34.6 | 32.3    | 36.1 | 240 |  |
| 260 |  | 16.7        | 17.2 | 20.6 | 17.4    | 19.3 | 21.9 | 19.8    | 20.6 | 23.5 | 19.9    | 22.5 | 24.4 | 23.2    | 25.4 | 23.1    | 25.8 | 24.2    | 27   | 260 |  |
| 280 |  |             |      | 12.8 |         | 11.8 | 14   | 12.5    | 13.1 | 15.7 | 12.8    | 14.9 | 16.7 | 15.9    | 18.1 | 15.8    | 18.4 | 16.8    | 19.8 | 280 |  |
| 300 |  |             |      |      |         |      |      |         |      |      |         |      |      |         | 11.1 |         | 11.6 |         | 13   | 300 |  |

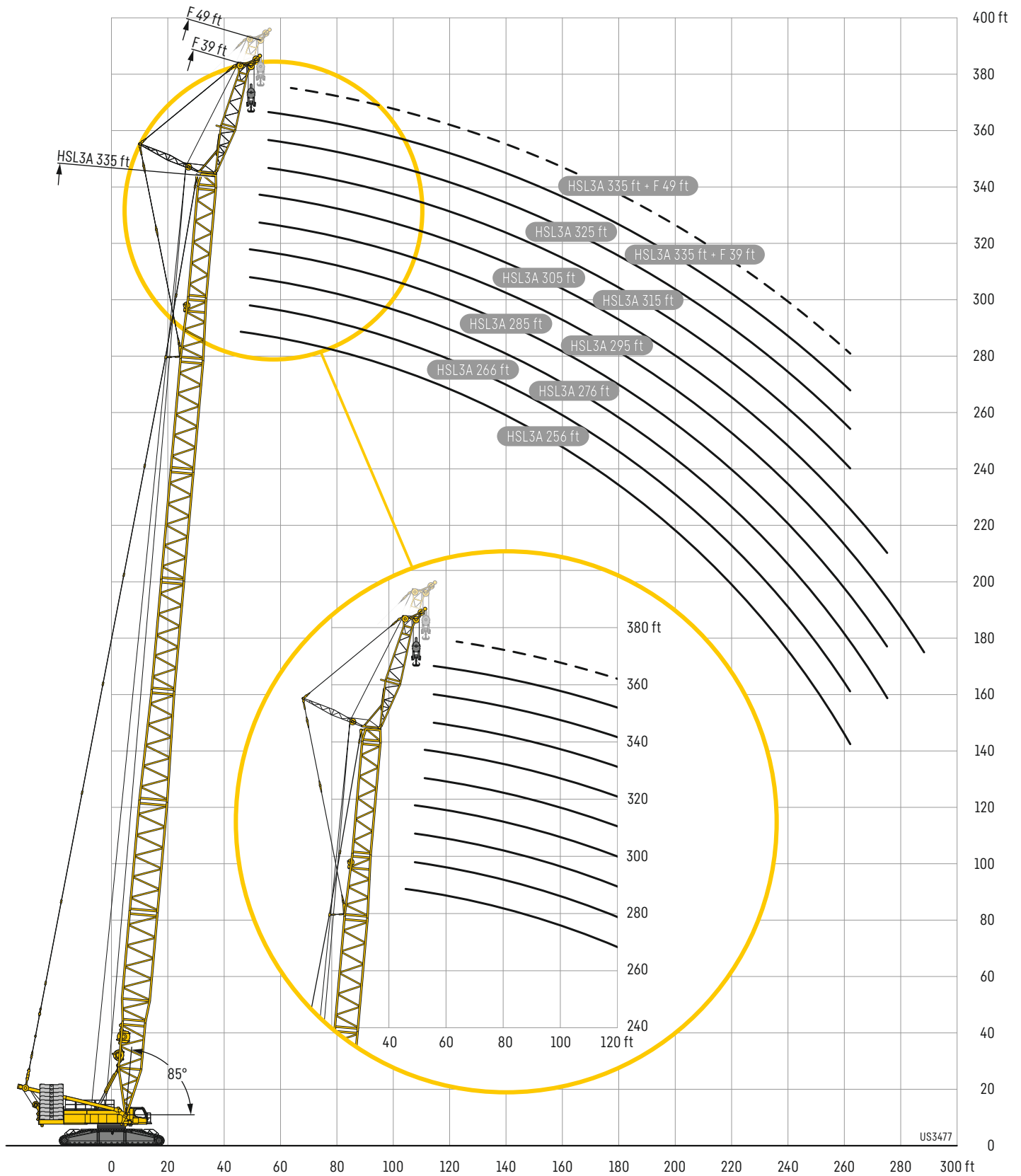
325-335 ft  
HSL3  
A  
F  
110,200 lb  
330,700 lb  
418,900 - 507,100 lb  
286,600 - 416,700 lb  
154,300 - 284,400 lb  
0 lb

| ft  |  | HSL3 325 ft |      |      |         |      |      |         |      |      | HSL3 335 ft |      |      |         |      |      | ft |  |    |     |
|-----|--|-------------|------|------|---------|------|------|---------|------|------|-------------|------|------|---------|------|------|----|--|----|-----|
|     |  | F 39 ft     |      |      | F 49 ft |      |      | F 59 ft |      |      | F 39 ft     |      |      | F 49 ft |      |      |    |  |    |     |
|     |  | 10°         | 15°  | 30°  | 10°     | 15°  | 30°  | 10°     | 15°  | 30°  | 10°         | 15°  | 30°  | 10°     | 15°  | 30°  |    |  |    |     |
| 60  |  | 313         | 317  |      | 312     |      |      |         |      |      | 309         | 313  |      | 308     |      |      |    |  | 60 |     |
| 70  |  | 263         | 266  | 212  | 263     | 267  | 184  | 265     | 229  |      | 260         | 264  | 212  | 262     | 266  |      |    |  |    | 70  |
| 80  |  | 224         | 227  | 204  | 224     | 230  | 177  | 226     | 217  | 159  | 222         | 224  | 205  | 224     | 227  | 178  |    |  |    | 80  |
| 90  |  | 192         | 195  | 198  | 193     | 198  | 171  | 195     | 199  | 153  | 190         | 193  | 198  | 193     | 196  | 172  |    |  |    | 90  |
| 100 |  | 167         | 169  | 180  | 167     | 172  | 166  | 170     | 173  | 149  | 165         | 167  | 178  | 168     | 170  | 166  |    |  |    | 100 |
| 110 |  | 145         | 147  | 157  | 145     | 150  | 159  | 148     | 151  | 144  | 144         | 146  | 156  | 146     | 149  | 157  |    |  |    | 110 |
| 120 |  | 127         | 129  | 138  | 127     | 132  | 140  | 130     | 133  | 139  | 126         | 128  | 137  | 128     | 131  | 139  |    |  |    | 120 |
| 130 |  | 111         | 113  | 122  | 112     | 116  | 123  | 115     | 117  | 125  | 110         | 112  | 121  | 113     | 115  | 122  |    |  |    | 130 |
| 140 |  | 97.6        | 99.2 | 107  | 98.1    | 102  | 109  | 101     | 103  | 111  | 96.7        | 98.3 | 107  | 99.4    | 101  | 108  |    |  |    | 140 |
| 150 |  | 85.9        | 87.4 | 94.9 | 86.4    | 90   | 96.6 | 89.3    | 91.2 | 98.5 | 85.2        | 86.5 | 94.3 | 87.6    | 89.3 | 95.8 |    |  |    | 150 |
| 160 |  | 75.4        | 76.7 | 84   | 75.8    | 79.5 | 85.6 | 79      | 80.8 | 87.4 | 74.7        | 75.9 | 83.5 | 77.3    | 78.9 | 84.9 |    |  |    | 160 |
| 170 |  | 66.1        | 67.3 | 74.2 | 66.5    | 70.1 | 75.6 | 69.6    | 71.2 | 77.7 | 65.4        | 66.6 | 73.8 | 68      | 69.5 | 75.2 |    |  |    | 170 |
| 180 |  | 57.7        | 58.8 | 65.4 | 58.2    | 61.6 | 66.8 | 61.2    | 62.7 | 68.7 | 57          | 58.3 | 65   | 59.7    | 61   | 66.5 |    |  |    | 180 |
| 190 |  | 50.2        | 51.2 | 57.5 | 50.8    | 54   | 58.9 | 53.7    | 55.1 | 60.7 | 49.7        | 50.8 | 57.1 | 52.2    | 53.4 | 58.6 |    |  |    | 190 |
| 200 |  | 43.4        | 44.4 | 50.4 | 44      | 47   | 51.7 | 46.8    | 48.2 | 53.4 | 43          | 44   | 50   | 45.4    | 46.5 | 51.4 |    |  |    | 200 |
| 220 |  | 31.7        | 32.5 | 37.5 | 32.3    | 35   | 39   | 35      | 36.2 | 40.8 | 31.4        | 32.2 | 37.5 | 33.6    | 34.7 | 38.8 |    |  |    | 220 |
| 240 |  | 22          | 22.7 | 27   | 22.5    | 25   | 28.2 | 25.2    | 26.2 | 29.8 | 21.7        | 22.4 | 27.1 | 23.8    | 24.7 | 28.1 |    |  |    | 240 |
| 260 |  | 13.8        | 14.3 | 18.4 | 14.2    | 16.4 | 19.7 | 16.8    | 17.6 | 21.2 | 13.5        | 14.1 | 18.5 | 15.5    | 16.2 | 19.5 |    |  |    | 260 |
| 280 |  |             |      |      |         |      | 11.8 |         |      | 13.4 |             |      |      |         |      | 11.8 |    |  |    | 280 |

# Lifting heights

## Hauteurs de levage

# HSL3AF

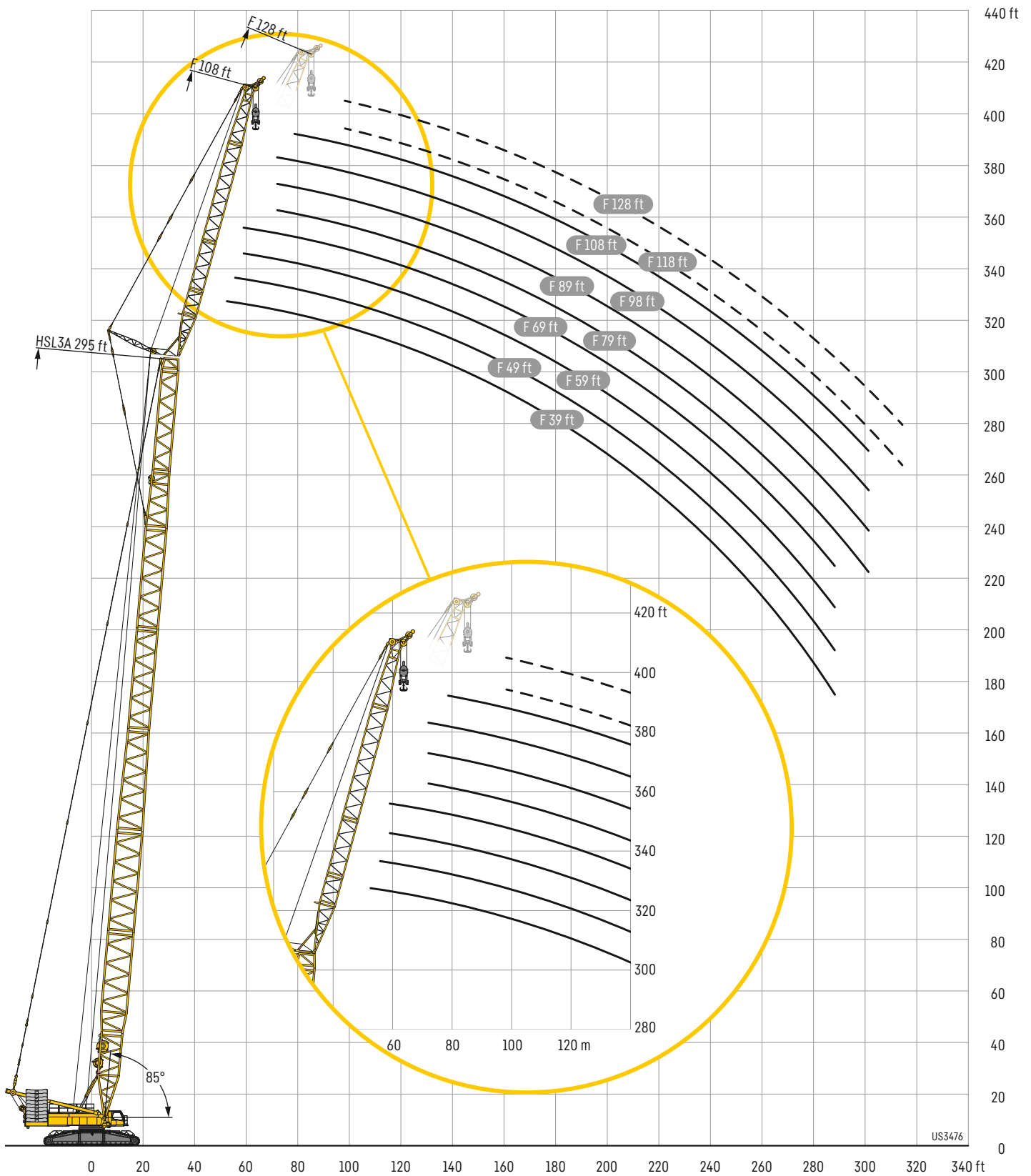


US3477

# Lifting heights

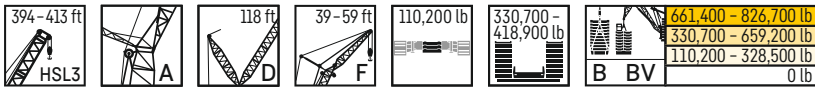
## Hauteurs de levage

# HSL3AF

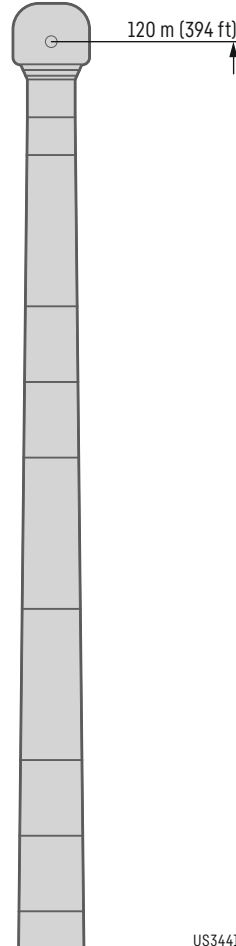


# HSL3ADFB/BV

# HSL3A 394 - 413



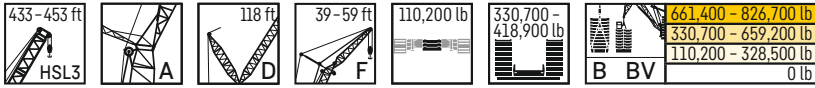
| ft  | HSL3 394 ft                  |                    |                    | HSL3 404 ft        |                    |                    | HSL3 413 ft        |                    |                    |
|-----|------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|     | F 39 ft                      | F 49 ft            | F 59 ft            | F 39 ft            | F 49 ft            | F 59 ft            | F 39 ft            | F 49 ft            | F 59 ft            |
|     | 10°                          |                    |                    |                    |                    |                    |                    |                    |                    |
| 60  | Ot 274<br>B 317<br>BV        |                    |                    | 271<br>307         |                    |                    | 218<br>291         |                    |                    |
| 70  | Ot 229<br>B 317<br>BV 318    | 232<br>284<br>285  | 232<br>259<br>260  | 227<br>306<br>307  | 228<br>276<br>277  | 227<br>251         | 225<br>291<br>292  | 225<br>262<br>263  | 225<br>239         |
| 80  | Ot 194<br>B 316<br>BV 318    | 197<br>284<br>285  | 198<br>256<br>256  | 192<br>305<br>307  | 193<br>275<br>276  | 193<br>251<br>252  | 190<br>289<br>291  | 191<br>261<br>262  | 192<br>239<br>240  |
| 90  | Ot 166<br>B 315<br>BV 317    | 169<br>283<br>284  | 169<br>245<br>245  | 164<br>304<br>306  | 164<br>274<br>276  | 165<br>245<br>245  | 163<br>288<br>290  | 163<br>260<br>261  | 164<br>238<br>239  |
| 100 | Ot 142<br>B 312<br>BV 316    | 145<br>277<br>278  | 146<br>234<br>234  | 140<br>303<br>306  | 141<br>273<br>274  | 142<br>235<br>235  | 140<br>286<br>289  | 140<br>258<br>260  | 141<br>233<br>233  |
| 110 | Ot 122<br>B 309<br>BV 313    | 125<br>266<br>267  | 126<br>224<br>224  | 121<br>300<br>305  | 121<br>267<br>268  | 122<br>225<br>225  | 120<br>283<br>287  | 121<br>255<br>258  | 122<br>224<br>224  |
| 120 | Ot 105<br>B 304<br>BV 310    | 108<br>255<br>256  | 109<br>214<br>214  | 104<br>296<br>302  | 105<br>257<br>257  | 106<br>216<br>216  | 103<br>279<br>284  | 104<br>252<br>254  | 105<br>215<br>215  |
| 130 | Ot 90.4<br>B 299<br>BV 303   | 93.8<br>245<br>245 | 94.6<br>206<br>205 | 89.1<br>291<br>298 | 90<br>247<br>247   | 91<br>207<br>207   | 89<br>275<br>281   | 89.7<br>246<br>247 | 90.7<br>207<br>207 |
| 140 | Ot 77.7<br>B 291<br>BV 292   | 80.9<br>236<br>236 | 81.9<br>197<br>197 | 76.4<br>286<br>294 | 77.3<br>238<br>238 | 78.3<br>199<br>199 | 76.4<br>271<br>278 | 77.1<br>238<br>238 | 78.2<br>199<br>199 |
| 150 | Ot 66.5<br>B 281<br>BV 281   | 69.7<br>227<br>227 | 70.8<br>190<br>190 | 65.2<br>281<br>290 | 66.1<br>230<br>229 | 67.1<br>192<br>192 | 65.3<br>266<br>274 | 66.1<br>230<br>230 | 67<br>192<br>192   |
| 160 | Ot 56.6<br>B 271<br>BV 271   | 59.7<br>219<br>219 | 60.7<br>183<br>183 | 55.3<br>273<br>281 | 56.1<br>221<br>221 | 57.2<br>185<br>185 | 55.5<br>261<br>271 | 56.2<br>222<br>222 | 57.2<br>185<br>185 |
| 170 | Ot 47.9<br>B 262<br>BV 262   | 50.8<br>211<br>211 | 51.9<br>177<br>177 | 46.5<br>265<br>271 | 47.3<br>213<br>213 | 48.3<br>178<br>178 | 46.6<br>257<br>267 | 47.3<br>214<br>215 | 48.5<br>179<br>179 |
| 180 | Ot 39.8<br>B 253<br>BV 254   | 43<br>204<br>204   | 44<br>171<br>171   | 38.5<br>256<br>262 | 39.4<br>206<br>206 | 40.4<br>172<br>172 | 38.9<br>248<br>261 | 39.6<br>207<br>208 | 40.5<br>173<br>173 |
| 190 | Ot 32.6<br>B 245<br>BV 246   | 35.7<br>198<br>198 | 36.6<br>165<br>165 | 31.4<br>249<br>253 | 32.1<br>199<br>199 | 33.3<br>166<br>166 | 31.7<br>243<br>254 | 32.4<br>200<br>201 | 33.6<br>167<br>167 |
| 200 | Ot 26.2<br>B 238<br>BV 238   | 29<br>192<br>192   | 30.2<br>160<br>160 | 24.8<br>241<br>244 | 25.6<br>192<br>192 | 26.8<br>161<br>160 | 25.1<br>239<br>247 | 26<br>193<br>194   | 27<br>162<br>162   |
| 220 | Ot 14.7<br>B 220<br>BV 225   | 17.7<br>181<br>181 | 18.7<br>150<br>150 | 13.5<br>220<br>229 | 14.2<br>180<br>181 | 15.3<br>150<br>151 | 13.9<br>219<br>228 | 14.5<br>182<br>183 | 15.7<br>152<br>152 |
| 240 | Ot 196<br>B 212<br>BV 212    | 171<br>171<br>171  | 142<br>142<br>142  | 195<br>214<br>214  | 170<br>171<br>171  | 142<br>142<br>142  | 195<br>210<br>210  | 172<br>173<br>173  | 143<br>144<br>144  |
| 260 | Ot 175<br>B 196<br>BV 196    | 162<br>163<br>163  | 135<br>135<br>135  | 174<br>196<br>196  | 161<br>162<br>162  | 134<br>135<br>135  | 174<br>193<br>193  | 163<br>164<br>164  | 136<br>136<br>136  |
| 280 | Ot 156<br>B 178<br>BV 178    | 153<br>155<br>155  | 128<br>128<br>128  | 155<br>177<br>177  | 151<br>155<br>155  | 128<br>128<br>128  | 155<br>176<br>176  | 152<br>156<br>156  | 129<br>129<br>129  |
| 300 | Ot 140<br>B 161<br>BV 161    | 141<br>148<br>148  | 122<br>122<br>122  | 139<br>160<br>160  | 138<br>148<br>148  | 122<br>122<br>122  | 139<br>160<br>160  | 138<br>150<br>150  | 123<br>124<br>124  |
| 320 | Ot 125<br>B 144<br>BV 144    | 127<br>142<br>142  | 117<br>117<br>117  | 124<br>144<br>144  | 124<br>140<br>140  | 117<br>117<br>117  | 124<br>144<br>144  | 125<br>141<br>141  | 117<br>118<br>118  |
| 340 | Ot 112<br>B 130<br>BV 130    | 114<br>131<br>131  | 111<br>113<br>113  | 111<br>129<br>129  | 111<br>130<br>130  | 112<br>112<br>112  | 111<br>130<br>130  | 112<br>130<br>130  | 111<br>114<br>114  |
| 360 | Ot 100<br>B 117<br>BV 117    | 102<br>119<br>119  | 103<br>109<br>109  | 98.9<br>116<br>116 | 99.5<br>117<br>117 | 101<br>109<br>109  | 99.4<br>117<br>117 | 100<br>117<br>117  | 101<br>110<br>110  |
| 380 | Ot 91.2<br>B 107<br>BV 107   | 92.4<br>105<br>105 | 88.2<br>104<br>104 | 88.8<br>104<br>104 | 88.8<br>105<br>105 | 90<br>103<br>103   | 88.9<br>105<br>105 | 89.5<br>106<br>106 | 90.5<br>105<br>105 |
| 400 | Ot 80.3<br>B 95.7<br>BV 95.7 |                    |                    |                    |                    |                    |                    |                    |                    |



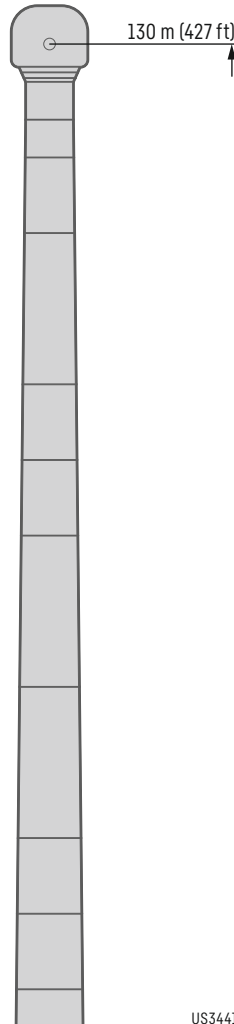
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# HSL3ADFB/BV

# HSL3A 433 - 453

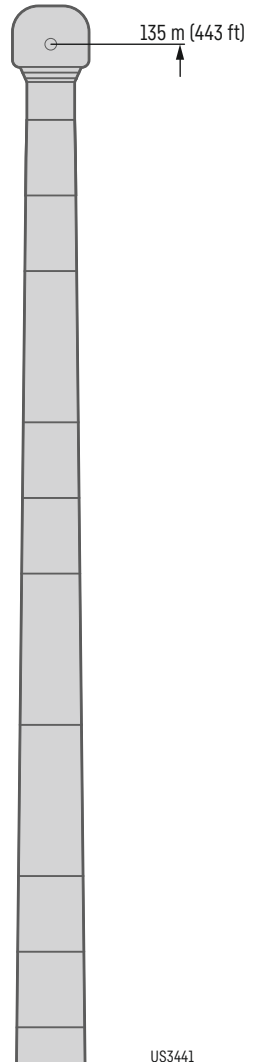


| ft  | HSL3 433 ft                |                    |                    | HSL3 443 ft        |                    |                    |                  |
|-----|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
|     | F 39 ft                    | F 49 ft            | F 59 ft            | F 39 ft            | F 49 ft            | F 59 ft            |                  |
|     | 10°                        |                    |                    |                    |                    |                    |                  |
| 65  | Ot 236<br>B 271<br>BV      |                    |                    | 231<br>260         |                    |                    |                  |
| 70  | Ot 216<br>B 270<br>BV 271  | 216<br>245<br>246  | 219<br>225         | 211<br>259<br>260  | 211<br>236         | 209<br>217         |                  |
| 80  | Ot 183<br>B 268<br>BV 270  | 183<br>244<br>245  | 187<br>224<br>225  | 178<br>257<br>259  | 179<br>235<br>236  | 183<br>217<br>217  |                  |
| 90  | Ot 155<br>B 267<br>BV 269  | 156<br>243<br>244  | 159<br>223<br>224  | 151<br>255<br>257  | 152<br>233<br>235  | 156<br>216<br>217  |                  |
| 100 | Ot 132<br>B 265<br>BV 268  | 133<br>241<br>243  | 137<br>223<br>224  | 128<br>252<br>255  | 130<br>231<br>233  | 133<br>215<br>216  |                  |
| 110 | Ot 113<br>B 261<br>BV 265  | 114<br>238<br>241  | 118<br>220<br>222  | 110<br>248<br>252  | 111<br>228<br>230  | 114<br>211<br>214  |                  |
| 120 | Ot 97<br>B 257<br>BV 262   | 97.7<br>234<br>238 | 102<br>217<br>220  | 93.3<br>244<br>248 | 94.2<br>224<br>227 | 98.2<br>208<br>210 |                  |
| 130 | Ot 82.7<br>B 252<br>BV 258 | 83.6<br>230<br>235 | 87.4<br>214<br>216 | 79.2<br>240<br>244 | 80<br>220<br>223   | 84.1<br>205<br>207 |                  |
| 140 | Ot 70.2<br>B 248<br>BV 254 | 71.2<br>227<br>231 | 74.9<br>209<br>208 | 66.8<br>235<br>240 | 67.7<br>216<br>218 | 71.8<br>201<br>203 |                  |
| 150 | Ot 59.3<br>B 243<br>BV 249 | 60.2<br>222<br>226 | 64<br>202<br>200   | 55.9<br>230<br>236 | 56.9<br>211<br>214 | 60.8<br>198<br>198 |                  |
| 160 | Ot 49.6<br>B 238<br>BV 245 | 50.3<br>217<br>220 | 54.3<br>195<br>193 | 46.3<br>225<br>231 | 47.2<br>206<br>210 | 51.1<br>192<br>191 |                  |
| 170 | Ot 40.8<br>B 231<br>BV 240 | 41.7<br>211<br>214 | 45.5<br>188<br>186 | 37.7<br>219<br>227 | 38.5<br>201<br>205 | 42.4<br>186<br>184 |                  |
| 180 | Ot 33.1<br>B 226<br>BV 235 | 33.9<br>205<br>207 | 37.7<br>180<br>179 | 29.8<br>214<br>222 | 30.7<br>196<br>200 | 34.6<br>178<br>178 |                  |
| 190 | Ot 26.1<br>B 219<br>BV 230 | 26.9<br>198<br>200 | 30.6<br>173<br>173 | 23<br>208<br>217   | 23.7<br>191<br>195 | 27.5<br>172<br>172 |                  |
| 200 | Ot 19.7<br>B 214<br>BV 226 | 20.3<br>192<br>194 | 24.2<br>167<br>167 | 16.5<br>202<br>212 | 17.3<br>185<br>191 | 21.2<br>167<br>167 |                  |
| 220 | Ot<br>B<br>BV              | <br>204<br>215     | <br>181<br>183     | <br>157<br>157     | <br>193<br>203     | <br>176<br>182     | <br>157<br>157   |
| 240 | Ot<br>B<br>BV              | <br>190<br>201     | <br>171<br>173     | <br>148<br>149     | <br>182<br>193     | <br>165<br>172     | <br>148<br>148   |
| 260 | Ot<br>B<br>BV              | <br>168<br>185     | <br>163<br>164     | <br>141<br>141     | <br>165<br>180     | <br>158<br>164     | <br>140<br>141   |
| 280 | Ot<br>B<br>BV              | <br>150<br>170     | <br>149<br>156     | <br>134<br>134     | <br>147<br>166     | <br>146<br>156     | <br>134<br>134   |
| 300 | Ot<br>B<br>BV              | <br>134<br>154     | <br>134<br>148     | <br>127<br>128     | <br>131<br>151     | <br>131<br>147     | <br>127<br>129   |
| 320 | Ot<br>B<br>BV              | <br>120<br>139     | <br>120<br>139     | <br>120<br>123     | <br>117<br>136     | <br>117<br>135     | <br>117<br>123   |
| 340 | Ot<br>B<br>BV              | <br>107<br>125     | <br>107<br>126     | <br>110<br>118     | <br>104<br>123     | <br>105<br>123     | <br>107<br>118   |
| 360 | Ot<br>B<br>BV              | <br>95.5<br>113    | <br>95.8<br>113    | <br>98.2<br>114    | <br>92.8<br>110    | <br>93<br>111      | <br>95.7<br>111  |
| 380 | Ot<br>B<br>BV              | <br>85<br>101      | <br>85.5<br>102    | <br>88.1<br>104    | <br>82.5<br>98.8   | <br>83<br>99.5     | <br>85.6<br>102  |
| 400 | Ot<br>B<br>BV              | <br>75.4<br>90.8   | <br>76<br>91.5     | <br>78.6<br>94     | <br>73.1<br>88.6   | <br>73.7<br>89.1   | <br>76.2<br>91.7 |
| 420 | Ot<br>B<br>BV              | <br><br>67.4       | <br><br>69.6       | <br><br>64.4       | <br><br>64.9       | <br><br>67.4       | <br><br>82.2     |



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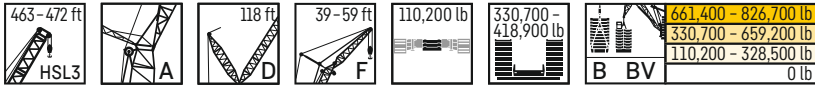
| ft  | HSL3 453 ft                |                    |                    |                  |
|-----|----------------------------|--------------------|--------------------|------------------|
|     | F 39 ft                    | F 49 ft            | F 59 ft            |                  |
|     | 10°                        |                    |                    |                  |
| 65  | Ot 227<br>B 249<br>BV      |                    |                    |                  |
| 70  | Ot 208<br>B 248<br>BV 249  | 212<br>228         |                    |                  |
| 80  | Ot 175<br>B 247<br>BV 249  | 179<br>227<br>228  | 180<br>209<br>210  |                  |
| 90  | Ot 149<br>B 245<br>BV 247  | 152<br>226<br>227  | 153<br>209<br>209  |                  |
| 100 | Ot 126<br>B 242<br>BV 246  | 130<br>224<br>226  | 131<br>207<br>209  |                  |
| 110 | Ot 107<br>B 239<br>BV 243  | 111<br>221<br>224  | 112<br>205<br>207  |                  |
| 120 | Ot 91.2<br>B 235<br>BV 240 | 95.2<br>217<br>220 | 96.2<br>201<br>204 |                  |
| 130 | Ot 77.3<br>B 231<br>BV 236 | 81.1<br>214<br>217 | 82.3<br>199<br>201 |                  |
| 140 | Ot 65.1<br>B 228<br>BV 233 | 68.8<br>210<br>214 | 70<br>195<br>198   |                  |
| 150 | Ot 54.3<br>B 223<br>BV 229 | 58<br>206<br>210   | 59.2<br>192<br>194 |                  |
| 160 | Ot 44.6<br>B 219<br>BV 225 | 48.3<br>202<br>207 | 49.5<br>188<br>190 |                  |
| 170 | Ot 36<br>B 214<br>BV 221   | 39.7<br>198<br>203 | 40.9<br>185<br>185 |                  |
| 180 | Ot 28.3<br>B 210<br>BV 217 | 31.9<br>194<br>199 | 33.1<br>180<br>180 |                  |
| 190 | Ot 21.5<br>B 205<br>BV 213 | 24.8<br>190<br>195 | 26.1<br>174<br>174 |                  |
| 200 | Ot 15<br>B 199<br>BV 209   | 18.6<br>184<br>191 | 19.8<br>168<br>169 |                  |
| 220 | Ot<br>B<br>BV              | <br>191<br>201     | <br>177<br>183     | <br>158<br>159   |
| 240 | Ot<br>B<br>BV              | <br>181<br>189     | <br>167<br>176     | <br>149<br>150   |
| 260 | Ot<br>B<br>BV              | <br>163<br>175     | <br>160<br>169     | <br>141<br>143   |
| 280 | Ot<br>B<br>BV              | <br>145<br>162     | <br>147<br>161     | <br>135<br>136   |
| 300 | Ot<br>B<br>BV              | <br>130<br>148     | <br>132<br>150     | <br>128<br>130   |
| 320 | Ot<br>B<br>BV              | <br>115<br>135     | <br>118<br>137     | <br>117<br>125   |
| 340 | Ot<br>B<br>BV              | <br>103<br>121     | <br>105<br>124     | <br>106<br>119   |
| 360 | Ot<br>B<br>BV              | <br>91.3<br>109    | <br>93.5<br>111    | <br>94.5<br>110  |
| 380 | Ot<br>B<br>BV              | <br>81.4<br>97.8   | <br>83.5<br>100    | <br>84.3<br>101  |
| 400 | Ot<br>B<br>BV              | <br>72.1<br>87.6   | <br>74.1<br>89.6   | <br>75.2<br>90.7 |
| 420 | Ot<br>B<br>BV              | <br>63.4<br>77.8   | <br>65.2<br>80.1   | <br>66.5<br>81.4 |
| 440 | Ot<br>B<br>BV              |                    |                    | 58.4<br>72.2     |



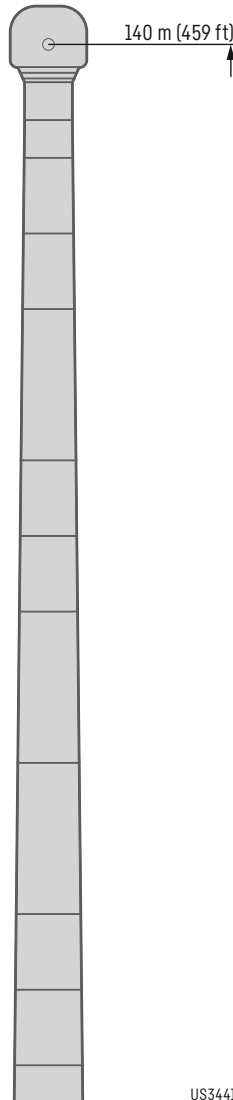
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# HSL3ADFB/BV

# HSL3A 463 - 472



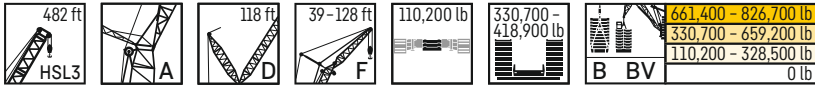
| ft  | HSL3 463 ft                |                    |                    | HSL3 472 ft        |                    |                    |
|-----|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|     | F 39 ft                    | F 49 ft            | F 59 ft            | F 39 ft            | F 49 ft            | F 59 ft            |
|     | 10°                        |                    |                    |                    |                    |                    |
| 65  | Ot 222<br>B 238<br>BV      |                    |                    |                    |                    |                    |
| 70  | Ot 203<br>B 237<br>BV 239  | 207<br>219         |                    | 202<br>228<br>225  | 203<br>210         |                    |
| 80  | Ot 171<br>B 236<br>BV 237  | 175<br>218<br>219  | 176<br>202<br>203  | 170<br>226<br>228  | 171<br>208<br>209  | 172<br>194<br>194  |
| 90  | Ot 144<br>B 234<br>BV 236  | 148<br>216<br>217  | 149<br>201<br>201  | 144<br>224<br>226  | 145<br>207<br>208  | 146<br>192<br>193  |
| 100 | Ot 122<br>B 231<br>BV 234  | 126<br>214<br>215  | 127<br>198<br>200  | 122<br>221<br>224  | 123<br>204<br>206  | 124<br>190<br>191  |
| 110 | Ot 104<br>B 227<br>BV 231  | 108<br>210<br>213  | 109<br>195<br>197  | 104<br>218<br>221  | 104<br>201<br>203  | 106<br>186<br>188  |
| 120 | Ot 87.7<br>B 224<br>BV 228 | 91.7<br>207<br>210 | 92.7<br>192<br>194 | 87.8<br>214<br>218 | 88.7<br>197<br>200 | 89.9<br>183<br>185 |
| 130 | Ot 73.7<br>B 220<br>BV 224 | 77.8<br>203<br>206 | 78.8<br>189<br>191 | 73.9<br>211<br>214 | 74.9<br>194<br>196 | 76.1<br>180<br>182 |
| 140 | Ot 61.6<br>B 216<br>BV 221 | 65.6<br>200<br>203 | 66.7<br>186<br>188 | 61.7<br>207<br>210 | 62.9<br>190<br>193 | 64<br>177<br>178   |
| 150 | Ot 50.9<br>B 212<br>BV 217 | 54.7<br>196<br>199 | 56<br>182<br>184   | 51.1<br>202<br>206 | 52.2<br>186<br>189 | 53.3<br>173<br>175 |
| 160 | Ot 41.4<br>B 208<br>BV 213 | 45.1<br>192<br>196 | 46.4<br>178<br>180 | 41.6<br>198<br>202 | 42.6<br>182<br>185 | 43.8<br>169<br>171 |
| 170 | Ot 32.8<br>B 203<br>BV 209 | 36.6<br>188<br>192 | 37.8<br>175<br>176 | 33.1<br>193<br>197 | 34<br>179<br>181   | 35.3<br>165<br>167 |
| 180 | Ot 25.1<br>B 198<br>BV 205 | 28.8<br>184<br>188 | 30.1<br>172<br>172 | 25.4<br>188<br>193 | 26.3<br>175<br>177 | 27.6<br>162<br>163 |
| 190 | Ot 18.2<br>B 194<br>BV 200 | 21.8<br>180<br>184 | 23<br>166<br>168   | 18.5<br>184<br>189 | 19.4<br>170<br>173 | 20.7<br>156<br>158 |
| 200 | Ot 12<br>B 189<br>BV 196   | 15.6<br>174<br>180 | 162<br>162<br>164  | 179<br>184<br>184  | 165<br>165<br>168  | 14.3<br>151<br>153 |
| 220 | Ot 179<br>B 188<br>BV      | 167<br>172         | 152<br>157         | 171<br>176         | 154<br>159         | 142<br>143         |
| 240 | Ot 171<br>B 180<br>BV      | 157<br>165         | 145<br>149         | 161<br>169         | 146<br>150         | 133<br>135         |
| 260 | Ot 159<br>B 170<br>BV      | 150<br>158         | 136<br>142         | 153<br>161         | 136<br>142         | 124<br>128         |
| 280 | Ot 142<br>B 157<br>BV      | 142<br>151         | 129<br>135         | 142<br>152         | 129<br>135         | 118<br>121         |
| 300 | Ot 127<br>B 143<br>BV      | 129<br>143         | 123<br>129         | 126<br>143         | 123<br>128         | 111<br>115         |
| 320 | Ot 113<br>B 131<br>BV      | 115<br>132         | 114<br>123         | 113<br>131         | 113<br>123         | 106<br>110         |
| 340 | Ot 100<br>B 118<br>BV      | 102<br>121         | 103<br>118         | 99.8<br>118        | 100<br>117         | 98.3<br>106        |
| 360 | Ot 88.6<br>B 106<br>BV     | 91.1<br>109        | 91.9<br>109        | 88.7<br>106        | 89.1<br>107        | 89.8<br>101        |
| 380 | Ot 78.9<br>B 95.4<br>BV    | 80.8<br>97.5       | 81.5<br>98.2       | 78.5<br>95.2       | 78.7<br>95.5       | 79.7<br>94.3       |
| 400 | Ot 69.7<br>B 85.2<br>BV    | 71.6<br>87.4       | 72.7<br>88.5       | 69.4<br>85.2       | 69.7<br>85.7       | 70.6<br>86.4       |
| 420 | Ot 61<br>B 75.7<br>BV      | 63.1<br>78         | 64.2<br>79.1       | 60.9<br>75.8       | 61.3<br>76.2       | 62.1<br>77.4       |
| 440 | Ot<br>B<br>BV              | 55.1<br>68.6       | 56.2<br>70.3       | 53<br>66.1         | 53.5<br>66.9       | 54.5<br>68.4       |
| 460 | Ot<br>B<br>BV              |                    |                    |                    |                    | 47.3<br>59.2       |



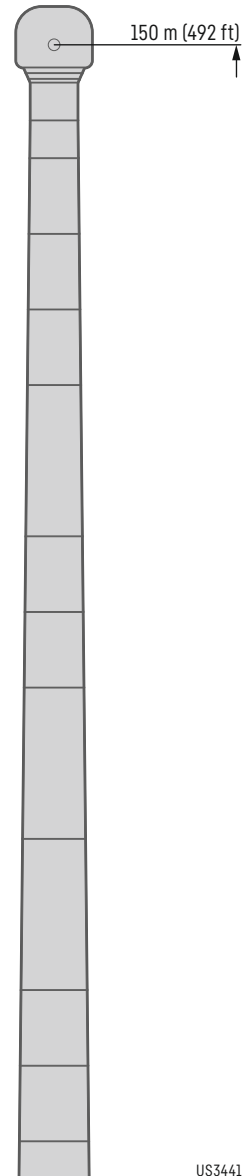
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# HSL3ADFB/BV

# HSL3A 482



|     |               | HSL3 482 ft        |                    |                    |                    |         |         |         |          |          |          |
|-----|---------------|--------------------|--------------------|--------------------|--------------------|---------|---------|---------|----------|----------|----------|
|     |               | F 39 ft            | F 49 ft            | F 59 ft            | F 69 ft            | F 79 ft | F 89 ft | F 98 ft | F 108 ft | F 118 ft | F 128 ft |
| ft  | Ot<br>B<br>BV | 10°                |                    |                    |                    | 15°     |         |         |          | 30°      |          |
|     |               | 70                 |                    | 197<br>217         |                    |         |         |         |          |          |          |
| 80  |               | 166<br>217<br>218  | 167<br>200<br>201  | 168<br>187<br>187  | 167<br>175         |         |         |         |          |          |          |
| 90  |               | 140<br>215<br>217  | 141<br>198<br>200  | 142<br>185<br>186  | 142<br>173         |         |         |         |          |          |          |
| 100 |               | 118<br>212<br>215  | 120<br>196<br>198  | 121<br>183<br>184  | 120<br>171<br>172  | 155     |         |         |          |          |          |
| 110 |               | 100<br>209<br>212  | 101<br>193<br>195  | 102<br>180<br>182  | 102<br>168<br>170  | 153     | 144     | 137     | 129      |          |          |
| 120 |               | 84.4<br>206<br>209 | 85.4<br>190<br>193 | 86.8<br>177<br>179 | 86.6<br>165<br>167 | 149     | 137     | 128     | 121      | 83.1     | 79.2     |
| 130 |               | 70.7<br>203<br>206 | 71.7<br>187<br>190 | 73.1<br>174<br>176 | 73.1<br>162<br>164 | 144     | 132     | 123     | 117      | 80.4     | 76.5     |
| 140 |               | 58.7<br>199<br>203 | 59.7<br>184<br>187 | 61<br>171<br>173   | 61.1<br>160<br>161 | 139     | 128     | 119     | 112      | 77.7     | 73.9     |
| 150 |               | 48<br>195<br>199   | 49.1<br>180<br>183 | 50.4<br>168<br>170 | 50.5<br>157<br>158 | 135     | 123     | 115     | 108      | 75.1     | 71.3     |
| 160 |               | 38.5<br>192<br>196 | 39.6<br>177<br>180 | 40.9<br>165<br>167 | 41.1<br>153<br>155 | 130     | 119     | 111     | 104      | 72.8     | 68.9     |
| 170 |               | 30<br>188<br>192   | 31.1<br>174<br>177 | 32.3<br>161<br>164 | 32.6<br>150<br>152 | 126     | 115     | 107     | 100      | 70.6     | 66.7     |
| 180 |               | 22.4<br>183<br>188 | 23.4<br>170<br>174 | 24.7<br>158<br>160 | 24.9<br>147<br>148 | 123     | 111     | 103     | 96.3     | 68.4     | 64.5     |
| 190 |               | 15.5<br>179<br>184 | 16.5<br>166<br>170 | 18<br>154<br>157   | 18<br>144<br>145   | 119     | 108     | 99.7    | 92.9     | 66.3     | 62.5     |
| 200 |               | 175<br>181         | 163<br>166         | 151<br>153         | 139<br>141         | 116     | 104     | 96.6    | 89.9     | 64.4     | 60.5     |
| 220 |               | 167<br>174         | 155<br>160         | 143<br>146         | 132<br>133         | 109     | 98.5    | 90.9    | 84.1     | 62.6     | 58.6     |
| 240 |               | 160<br>167         | 147<br>153         | 134<br>138         | 125<br>126         | 104     | 93.2    | 85.7    | 79       | 62.6     | 58.6     |
| 260 |               | 152<br>159         | 139<br>146         | 127<br>131         | 116<br>119         | 98.9    | 88.5    | 81      | 74.5     | 62.6     | 58.6     |
| 280 |               | 139<br>150         | 133<br>139         | 119<br>125         | 110<br>113         | 94.6    | 84.4    | 76.9    | 70.6     | 62.6     | 58.6     |
| 300 |               | 123<br>137         | 122<br>132         | 114<br>119         | 104<br>108         | 90.7    | 80.6    | 73.2    | 67       | 62.6     | 58.6     |
| 320 |               | 110<br>125         | 110<br>124         | 108<br>113         | 99.1<br>103        | 87.1    | 77.2    | 70      | 63.8     | 62.6     | 58.6     |
| 340 |               | 96.9<br>114        | 97.4<br>113        | 97.7<br>108        | 93<br>98.9         | 84      | 74.2    | 67      | 60.9     | 62.6     | 58.6     |
| 360 |               | 85.9<br>103        | 86.2<br>103        | 87<br>102          | 85.9<br>94.8       | 81.2    | 71.5    | 64.4    | 58.3     | 62.6     | 58.6     |
| 380 |               | 75.6<br>92.1       | 76.1<br>92.5       | 77.1<br>93.2       | 77.2<br>89.3       | 78.6    | 69      | 61.9    | 56       | 62.6     | 58.6     |
| 400 |               | 66.6<br>82.5       | 67<br>83           | 67.8<br>83.6       | 67.8<br>83.2       | 76.4    | 66.8    | 59.8    | 53.8     | 62.6     | 58.6     |
| 420 |               | 58.2<br>72.9       | 58.5<br>73.7       | 59.6<br>74.5       | 59.8<br>74.7       | 72.7    | 64.7    | 57.9    | 51.9     | 62.6     | 58.6     |
| 440 |               | 50.5<br>63.3       | 50.9<br>64.3       | 51.9<br>65.5       | 52<br>65.9         | 66.6    | 62.5    | 56.1    | 50.2     | 62.6     | 58.6     |
| 460 |               |                    | 43.5<br>54.9       | 44.6<br>56.7       | 44.8<br>57.5       | 59.2    | 59.3    | 54.5    | 48.7     | 62.6     | 58.6     |
| 480 |               |                    |                    |                    | 38<br>48.7         | 51      | 51.5    | 50.7    | 46.9     | 62.6     | 58.6     |
| 500 |               |                    |                    |                    |                    |         | 43.3    | 45.5    | 44.4     | 62.6     | 58.6     |
| 520 |               |                    |                    |                    |                    |         |         |         | 37       | 62.6     | 58.6     |
| 540 |               |                    |                    |                    |                    |         |         |         |          | 36.2     | 32       |
|     |               |                    |                    |                    |                    |         |         |         |          |          | 30.7     |

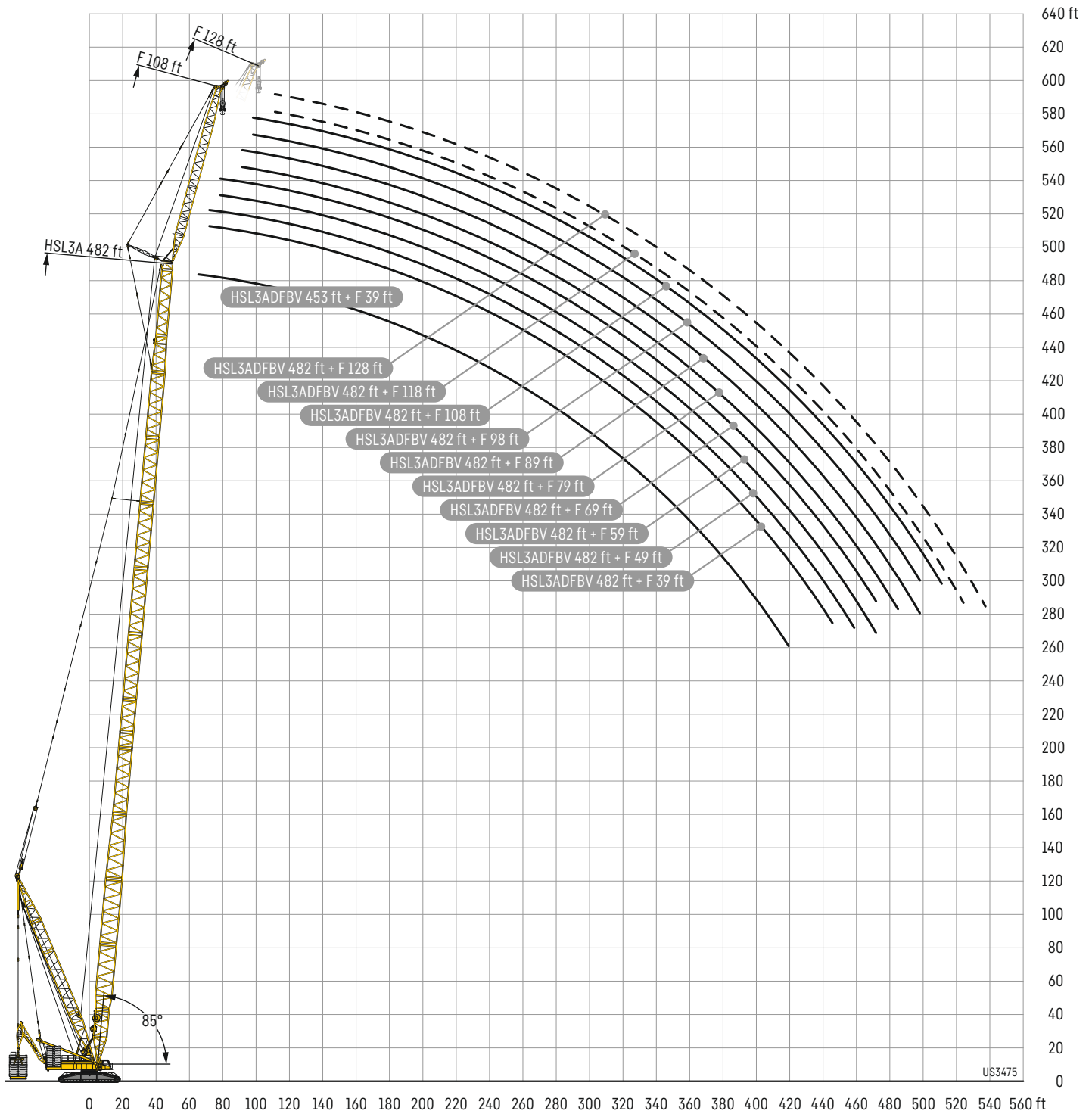


US3441

# Lifting heights

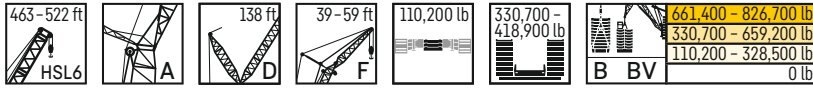
## Hauteurs de levage

# HSL3ADFBV/BV

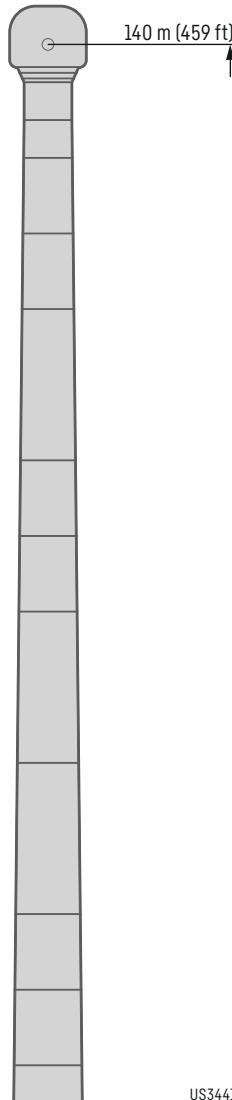


# HSL6ADFB/BV

# HSL6A 463 - 522



| ft  | HSL6A 463 ft |      |         |      |         |      | HSL6A 472 ft |  |         |  |         |  |
|-----|--------------|------|---------|------|---------|------|--------------|--|---------|--|---------|--|
|     | F 39 ft      |      | F 49 ft |      | F 59 ft |      | F 39 ft      |  | F 49 ft |  | F 59 ft |  |
|     | 10°          |      |         |      |         |      |              |  |         |  |         |  |
| 65  | Ot           | 179  |         |      |         |      |              |  |         |  |         |  |
|     | B            | 281  |         |      |         |      |              |  |         |  |         |  |
|     | BV           | 281  |         |      |         |      |              |  |         |  |         |  |
| 70  | Ot           | 195  | 197     |      |         | 191  | 170          |  |         |  |         |  |
|     | B            | 281  | 254     |      |         | 271  | 246          |  |         |  |         |  |
|     | BV           | 283  |         |      |         |      |              |  |         |  |         |  |
| 80  | Ot           | 164  | 165     | 169  | 160     | 161  | 165          |  |         |  |         |  |
|     | B            | 280  | 254     | 233  | 269     | 245  | 225          |  |         |  |         |  |
|     | BV           | 283  | 256     | 234  | 272     | 247  | 227          |  |         |  |         |  |
| 90  | Ot           | 137  | 138     | 143  | 134     | 135  | 139          |  |         |  |         |  |
|     | B            | 278  | 253     | 232  | 267     | 244  | 225          |  |         |  |         |  |
|     | BV           | 282  | 256     | 234  | 272     | 247  | 226          |  |         |  |         |  |
| 100 | Ot           | 115  | 116     | 121  | 112     | 113  | 118          |  |         |  |         |  |
|     | B            | 276  | 251     | 231  | 263     | 241  | 223          |  |         |  |         |  |
|     | BV           | 281  | 255     | 233  | 270     | 246  | 226          |  |         |  |         |  |
| 110 | Ot           | 96.8 | 97.9    | 102  | 93.8    | 94.8 | 99.4         |  |         |  |         |  |
|     | B            | 272  | 248     | 229  | 259     | 237  | 220          |  |         |  |         |  |
|     | BV           | 280  | 254     | 232  | 267     | 244  | 225          |  |         |  |         |  |
| 120 | Ot           | 80.7 | 82      | 86.2 | 77.9    | 79   | 83.6         |  |         |  |         |  |
|     | B            | 268  | 245     | 226  | 254     | 233  | 217          |  |         |  |         |  |
|     | BV           | 278  | 252     | 230  | 264     | 240  | 223          |  |         |  |         |  |
| 130 | Ot           | 66.8 | 68.1    | 72.3 | 64.1    | 65.4 | 69.7         |  |         |  |         |  |
|     | B            | 263  | 241     | 221  | 249     | 228  | 213          |  |         |  |         |  |
|     | BV           | 275  | 249     | 222  | 260     | 237  | 219          |  |         |  |         |  |
| 140 | Ot           | 54.7 | 55.9    | 60.2 | 52.1    | 53.3 | 57.6         |  |         |  |         |  |
|     | B            | 258  | 236     | 214  | 244     | 224  | 209          |  |         |  |         |  |
|     | BV           | 271  | 246     | 215  | 256     | 233  | 212          |  |         |  |         |  |
| 150 | Ot           | 44.1 | 45.2    | 49.5 | 41.4    | 42.7 | 47           |  |         |  |         |  |
|     | B            | 252  | 231     | 207  | 239     | 218  | 204          |  |         |  |         |  |
|     | BV           | 268  | 239     | 207  | 252     | 229  | 205          |  |         |  |         |  |
| 160 | Ot           | 34.5 | 35.6    | 40   | 32      | 33.2 | 37.5         |  |         |  |         |  |
|     | B            | 244  | 225     | 199  | 233     | 214  | 197          |  |         |  |         |  |
|     | BV           | 263  | 230     | 200  | 247     | 224  | 198          |  |         |  |         |  |
| 170 | Ot           | 26   | 27.1    | 31.4 | 23.6    | 24.7 | 29           |  |         |  |         |  |
|     | B            | 235  | 218     | 192  | 226     | 209  | 190          |  |         |  |         |  |
|     | BV           | 259  | 223     | 193  | 243     | 218  | 191          |  |         |  |         |  |
| 180 | Ot           | 18.3 | 19.4    | 23.6 | 17      | 21.3 |              |  |         |  |         |  |
|     | B            | 225  | 211     | 185  | 218     | 204  | 183          |  |         |  |         |  |
|     | BV           | 254  | 215     | 186  | 238     | 213  | 185          |  |         |  |         |  |
| 190 | Ot           |      | 12.4    | 16.6 |         |      |              |  |         |  |         |  |
|     | B            | 216  | 205     | 178  | 210     | 198  | 177          |  |         |  |         |  |
|     | BV           | 249  | 208     | 180  | 233     | 206  | 179          |  |         |  |         |  |
| 200 | Ot           | 205  | 198     | 173  | 201     | 192  | 172          |  |         |  |         |  |
|     | B            | 241  | 202     | 174  | 228     | 200  | 173          |  |         |  |         |  |
| 220 | Ot           | 180  | 179     | 162  | 177     | 176  | 161          |  |         |  |         |  |
|     | B            | 222  | 190     | 164  | 216     | 189  | 163          |  |         |  |         |  |
| 240 | Ot           | 157  | 158     | 153  | 155     | 155  | 152          |  |         |  |         |  |
|     | B            | 197  | 180     | 155  | 194     | 179  | 154          |  |         |  |         |  |
| 260 | Ot           | 138  | 138     | 140  | 135     | 136  | 138          |  |         |  |         |  |
|     | B            | 175  | 169     | 147  | 172     | 168  | 147          |  |         |  |         |  |
| 280 | Ot           | 121  | 121     | 124  | 118     | 119  | 122          |  |         |  |         |  |
|     | B            | 155  | 156     | 140  | 153     | 153  | 140          |  |         |  |         |  |
| 300 | Ot           | 106  | 106     | 109  | 104     | 104  | 107          |  |         |  |         |  |
|     | B            | 139  | 139     | 133  | 137     | 137  | 134          |  |         |  |         |  |
| 320 | Ot           | 92.5 | 93.1    | 96.2 | 90.4    | 90.8 | 93.8         |  |         |  |         |  |
|     | B            | 124  | 124     | 124  | 122     | 122  | 124          |  |         |  |         |  |
| 340 | Ot           | 80.4 | 80.9    | 83.7 | 78.1    | 78.5 | 81.8         |  |         |  |         |  |
|     | B            | 110  | 111     | 113  | 108     | 109  | 112          |  |         |  |         |  |
| 360 | Ot           | 69.3 | 70      | 73.1 | 67.4    | 67.9 | 70.9         |  |         |  |         |  |
|     | B            | 98.4 | 98.9    | 102  | 96.5    | 97   | 99.8         |  |         |  |         |  |
| 380 | Ot           | 59.3 | 59.9    | 62.8 | 57.3    | 57.8 | 61.1         |  |         |  |         |  |
|     | B            | 87.6 | 88      | 90.5 | 85.6    | 85.9 | 88.9         |  |         |  |         |  |
| 400 | Ot           | 49.8 | 50.6    | 53.7 | 48      | 48.8 | 51.8         |  |         |  |         |  |
|     | B            | 77.4 | 78      | 80.8 | 75.7    | 76.4 | 79.1         |  |         |  |         |  |
| 420 | Ot           | 41.5 | 42.2    | 45   | 39.7    | 40.3 | 43.2         |  |         |  |         |  |
|     | B            | 68.1 | 68.9    | 71.5 | 66.6    | 67.3 | 70           |  |         |  |         |  |
| 440 | Ot           |      | 34.6    | 37.2 | 32.3    | 32.8 | 35.5         |  |         |  |         |  |
|     | B            |      | 60.4    | 63   | 58.2    | 58.8 | 61.5         |  |         |  |         |  |
| 460 | Ot           |      |         |      |         |      | 28.9         |  |         |  |         |  |
|     | B            |      |         |      |         |      | 53.7         |  |         |  |         |  |

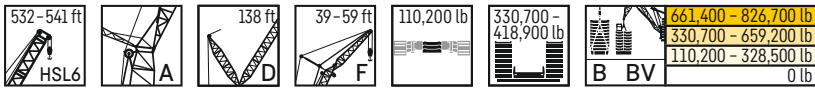


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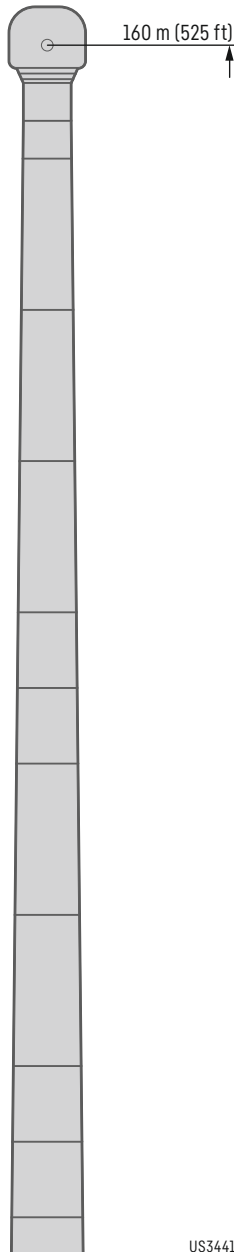
| ft  | HSL6A 502 ft |       |         |      |         |      | HSL6A 512 ft |      |         | HSL6A 522 ft |         |      |         |         |
|-----|--------------|-------|---------|------|---------|------|--------------|------|---------|--------------|---------|------|---------|---------|
|     | F 39 ft      |       | F 49 ft |      | F 59 ft |      | F 39 ft      |      | F 49 ft | F 59 ft      | F 39 ft |      | F 49 ft | F 59 ft |
|     | 10°          |       |         |      |         |      |              |      |         |              |         |      |         |         |
| 70  | Ot           | 184   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 233   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 233   |         |      |         |      |              |      |         |              |         |      |         |         |
| 80  | Ot           | 154   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 232   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 235   | 217     |      | 224     | 209  |              |      |         |              | 213     | 199  |         |         |
| 90  | Ot           | 128   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 231   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 235   | 216     | 200  | 224     | 208  | 192          | 183  |         |              | 213     | 198  | 185     |         |
| 100 | Ot           | 107   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 229   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 233   | 214     | 199  | 222     | 206  | 191          | 182  |         |              | 212     | 196  | 183     |         |
| 110 | Ot           | 89.3  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 225   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 231   | 212     | 197  | 221     | 204  | 189          | 181  |         |              | 211     | 194  | 180     |         |
| 120 | Ot           | 73.7  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 222   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 228   | 209     | 194  | 219     | 202  | 187          | 179  |         |              | 208     | 192  | 178     |         |
| 130 | Ot           | 60.3  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 218   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 225   | 206     | 191  | 216     | 199  | 185          | 177  |         |              | 206     | 189  | 176     |         |
| 140 | Ot           | 48.6  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 214   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 222   | 204     | 189  | 214     | 196  | 182          | 175  |         |              | 203     | 187  | 174     |         |
| 150 | Ot           | 38.2  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 210   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 219   | 201     | 186  | 211     | 194  | 180          | 172  |         |              | 200     | 184  | 171     |         |
| 160 | Ot           | 28.9  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 206   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 216   | 197     | 182  | 208     | 191  | 177          | 170  |         |              | 197     | 181  | 168     |         |
| 170 | Ot           | 20.5  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 201   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 212   | 194     | 179  | 205     | 188  | 174          | 168  |         |              | 194     | 178  | 165     |         |
| 180 | Ot           | 19.5  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 209   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 209   | 190     | 175  | 202     | 185  | 171          | 164  |         |              | 190     | 175  | 162     |         |
| 190 | Ot           | 18.8  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 205   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 205   | 187     | 172  | 199     | 182  | 169          | 160  |         |              | 187     | 172  | 159     |         |
| 200 | Ot           | 18.2  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 201   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 201   | 183     | 168  | 196     | 179  | 165          | 156  |         |              | 183     | 169  | 156     |         |
| 220 | Ot           | 16.7  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 193   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 193   | 176     | 161  | 189     | 173  | 159          | 149  |         |              | 177     | 163  | 150     |         |
| 240 | Ot           | 15.0  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 184   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 184   | 169     | 154  | 182     | 167  | 153          | 142  |         |              | 170     | 156  | 143     |         |
| 260 | Ot           | 13.1  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 167   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 167   | 162     | 146  | 164     | 159  | 147          | 136  |         |              | 158     | 150  | 136     |         |
| 280 | Ot           | 11.4  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 149   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 149   | 150     | 140  | 147     | 147  | 140          | 130  |         |              | 143     | 142  | 129     |         |
| 300 | Ot           | 9.9.2 |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 133   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 133   | 133     | 133  | 130     | 131  | 130          | 125  |         |              | 127     | 127  | 123     |         |
| 320 | Ot           | 8.6.1 |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 118   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 118   | 119     | 120  | 116     | 116  | 117          | 117  |         |              | 113     | 113  | 114     |         |
| 340 | Ot           | 7.4.5 |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 105   |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 105   | 106     | 107  | 103     | 103  | 104          | 105  |         |              | 100     | 100  | 101     |         |
| 360 | Ot           | 6.3.7 |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 93.3  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 93.3  | 93.7    | 94.8 | 91.2    | 91.4 | 92.7         | 93.5 |         |              | 88.1    | 88.8 | 89.8    |         |
| 380 | Ot           | 5.4.1 |         |      |         |      |              |      |         |              |         |      |         |         |
|     | B            | 82.7  |         |      |         |      |              |      |         |              |         |      |         |         |
|     | BV           | 82.7  | 83.2    | 84   | 80.6    | 80   |              |      |         |              |         |      |         |         |

# HSL6ADFB/BV

# HSL6A 532 – 541

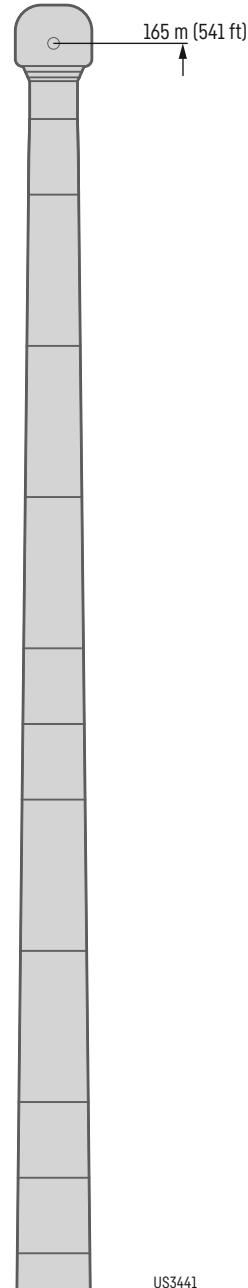


|     |    | HSL6A 532 ft |       |       |
|-----|----|--------------|-------|-------|
|     |    | F39ft        | F49ft | F59ft |
|     |    | 10°          |       |       |
| 80  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 205          |       |       |
| 90  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 205          | 190   | 177   |
| 100 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 203          | 188   | 175   |
| 110 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 201          | 186   | 173   |
| 120 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 198          | 183   | 170   |
| 130 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 195          | 181   | 168   |
| 140 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 192          | 178   | 165   |
| 150 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 189          | 175   | 162   |
| 160 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 186          | 172   | 159   |
| 170 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 182          | 169   | 156   |
| 180 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 179          | 165   | 153   |
| 190 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 175          | 162   | 149   |
| 200 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 172          | 159   | 145   |
| 220 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 165          | 150   | 136   |
| 240 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 158          | 142   | 128   |
| 260 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 151          | 134   | 121   |
| 280 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 141          | 127   | 115   |
| 300 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 126          | 121   | 109   |
| 320 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 112          | 111   | 104   |
| 340 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 99           | 99.2  | 97.8  |
| 360 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 87.4         | 87.9  | 88.7  |
| 380 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 76.7         | 77.2  | 78.1  |
| 400 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 67.2         | 67.8  | 68.6  |
| 420 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 58.4         | 58.8  | 59.9  |
| 440 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 50.4         | 51    | 51.9  |
| 460 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 43           | 43.4  | 44.6  |
| 480 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 35.8         | 36.7  | 37.7  |
| 500 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV |              | 29.5  | 31.2  |



US3441

|     |    | HSL6A 541 ft |       |       |
|-----|----|--------------|-------|-------|
|     |    | F39ft        | F49ft | F59ft |
|     |    | 10°          |       |       |
| 80  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 196          |       |       |
| 90  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 195          | 181   | 168   |
| 100 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 193          | 179   | 166   |
| 110 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 190          | 176   | 164   |
| 120 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 188          | 174   | 161   |
| 130 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 185          | 171   | 159   |
| 140 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 182          | 168   | 155   |
| 150 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 178          | 165   | 151   |
| 160 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 175          | 161   | 147   |
| 170 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 171          | 156   | 142   |
| 180 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 168          | 152   | 138   |
| 190 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 164          | 147   | 134   |
| 200 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 160          | 143   | 129   |
| 220 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 151          | 134   | 121   |
| 240 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 142          | 126   | 114   |
| 260 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 134          | 119   | 108   |
| 280 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 127          | 113   | 102   |
| 300 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 120          | 107   | 96.6  |
| 320 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 108          | 101   | 92    |
| 340 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 95.7         | 94.6  | 87.6  |
| 360 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 84.5         | 85.1  | 81.6  |
| 380 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 73.9         | 74.3  | 73.7  |
| 400 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 64.5         | 64.9  | 65.6  |
| 420 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 54.7         | 56.1  | 57.2  |
| 440 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 40.2         | 44.5  | 47.9  |
| 460 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 27.2         | 31.6  | 36.3  |
| 480 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 18.5         | 21.5  | 25.5  |
| 500 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 11.1         | 13.2  | 16.2  |

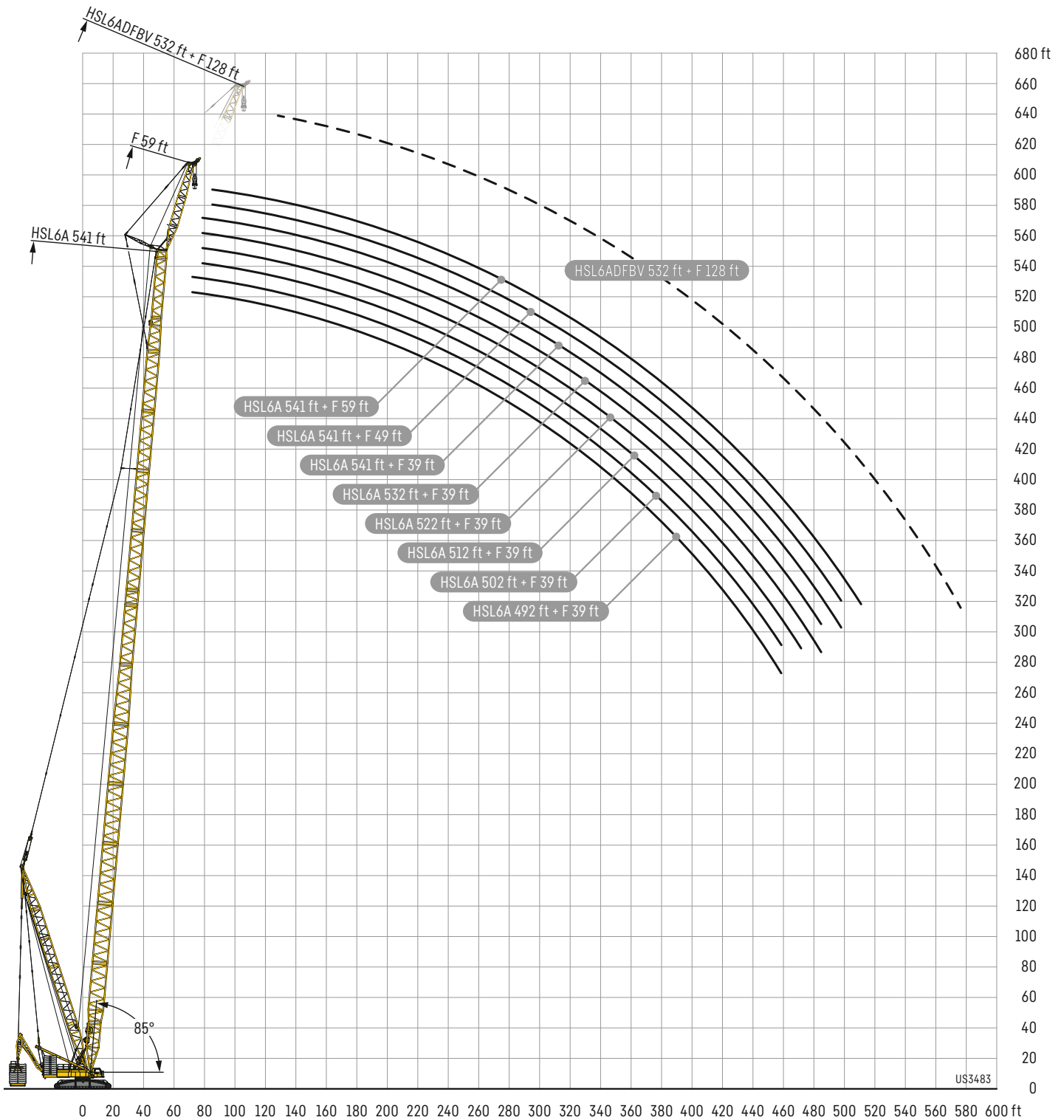


US3441

# Lifting heights

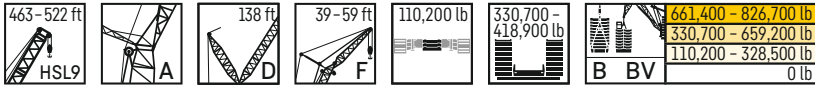
## Hauteurs de levage

# HSL6ADFBV/BV

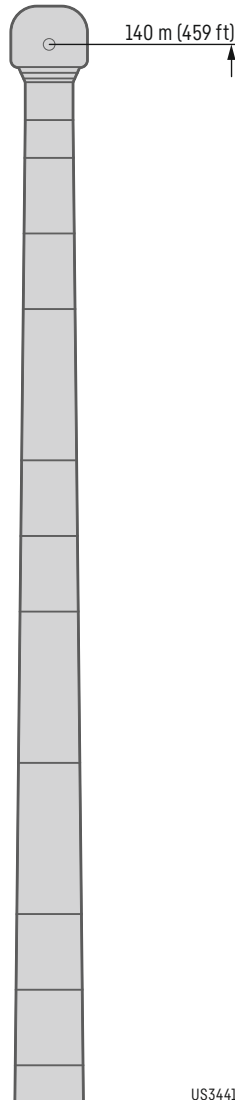


# HSL9ADFB/BV

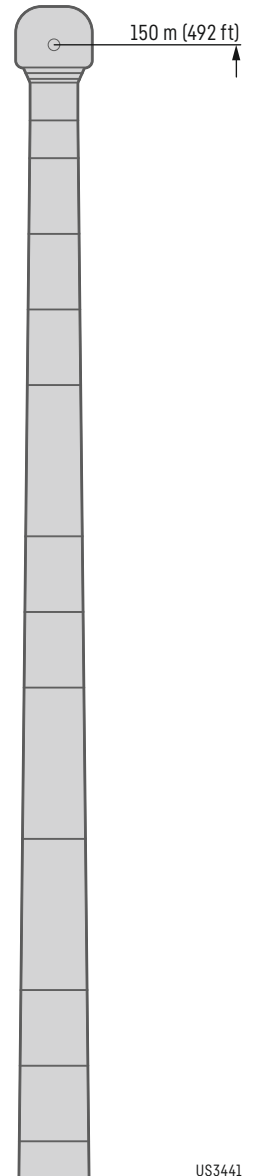
# HSL9A 463 - 522



| ft  | HSL9A463ft                   | HSL9A472ft           |                      |                      |                      |                    |
|-----|------------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|
|     |                              | F39ft                | F49ft                | F59ft                |                      |                    |
|     |                              | 10°                  |                      |                      |                      |                    |
| 65  | Ot 173<br>B 304<br>BV 307    |                      |                      |                      |                      |                    |
| 70  | Ot 190<br>B 304<br>BV 307    | 191<br>275<br>277    | 186<br>294<br>297    | 188<br>267<br>269    |                      |                    |
| 80  | Ot 158<br>B 303<br>BV 307    | 159<br>274<br>277    | 160<br>251<br>253    | 154<br>294<br>297    | 156<br>266<br>269    | 157<br>244<br>246  |
| 90  | Ot 132<br>B 302<br>BV 306    | 133<br>273<br>277    | 134<br>249<br>251    | 128<br>293<br>297    | 130<br>266<br>269    | 131<br>243<br>246  |
| 100 | Ot 109<br>B 301<br>BV 306    | 111<br>272<br>276    | 112<br>241<br>242    | 107<br>291<br>297    | 108<br>264<br>268    | 110<br>241<br>242  |
| 110 | Ot 90.8<br>B 297<br>BV 305   | 92.1<br>269<br>275   | 93.6<br>232<br>233   | 88.2<br>288<br>295   | 89.4<br>261<br>268   | 91.1<br>233<br>233 |
| 120 | Ot 74.7<br>B 292<br>BV 303   | 76.2<br>264<br>268   | 77.5<br>224<br>224   | 72.3<br>284<br>293   | 73.6<br>259<br>265   | 75.2<br>224<br>225 |
| 130 | Ot 60.7<br>B 285<br>BV 301   | 62.3<br>257<br>258   | 63.6<br>215<br>216   | 58.4<br>280<br>291   | 59.9<br>255<br>260   | 61.4<br>216<br>217 |
| 140 | Ot 48.6<br>B 279<br>BV 295   | 50<br>247<br>249     | 51.5<br>208<br>208   | 46.3<br>270<br>284   | 47.8<br>249<br>251   | 49.2<br>209<br>210 |
| 150 | Ot 37.9<br>B 269<br>BV 284   | 39.2<br>238<br>240   | 40.8<br>200<br>200   | 35.6<br>260<br>273   | 37.1<br>241<br>243   | 38.5<br>202<br>203 |
| 160 | Ot 28.3<br>B 257<br>BV 273   | 29.6<br>229<br>231   | 31.2<br>193<br>193   | 26.2<br>248<br>263   | 27.5<br>232<br>235   | 29<br>195<br>196   |
| 170 | Ot 19.8<br>B 245<br>BV 264   | 21<br>221<br>223     | 22.6<br>186<br>187   | 17.7<br>238<br>253   | 18.9<br>224<br>227   | 20.5<br>188<br>190 |
| 180 | Ot 230<br>B 254<br>BV 254    | 213<br>216<br>216    | 180<br>180<br>180    | 225<br>245<br>245    | 216<br>220<br>220    | 181<br>183<br>183  |
| 190 | Ot 215<br>B 245<br>BV 245    | 206<br>209<br>209    | 174<br>175<br>175    | 211<br>236<br>213    | 206<br>213<br>177    | 175<br>177         |
| 200 | Ot 201<br>B 236<br>BV 236    | 197<br>203<br>203    | 168<br>169<br>169    | 197<br>228<br>206    | 195<br>206<br>172    | 170<br>172         |
| 220 | Ot 174<br>B 216<br>BV 216    | 175<br>191<br>191    | 158<br>159<br>159    | 171<br>210<br>210    | 172<br>194<br>160    | 160<br>162         |
| 240 | Ot 152<br>B 191<br>BV 191    | 152<br>181<br>181    | 148<br>151<br>151    | 149<br>188<br>182    | 150<br>182<br>153    | 149<br>153         |
| 260 | Ot 132<br>B 169<br>BV 169    | 132<br>168<br>168    | 133<br>143<br>143    | 129<br>166<br>166    | 130<br>166<br>145    | 131<br>145         |
| 280 | Ot 114<br>B 149<br>BV 149    | 115<br>150<br>150    | 116<br>136<br>136    | 112<br>147<br>147    | 112<br>147<br>113    | 113<br>138         |
| 300 | Ot 99.6<br>B 133<br>BV 133   | 100<br>134<br>130    | 101<br>130<br>130    | 97<br>130<br>131     | 97.5<br>129<br>129   | 98.3<br>129        |
| 320 | Ot 86.1<br>B 118<br>BV 118   | 87<br>119<br>119     | 87.9<br>116<br>116   | 83.8<br>116<br>116   | 84.4<br>116<br>117   | 85.3<br>117        |
| 340 | Ot 74<br>B 105<br>BV 105     | 74.7<br>105<br>105   | 75.6<br>106<br>106   | 71.6<br>102<br>103   | 72<br>103<br>104     | 73.4<br>104        |
| 360 | Ot 62.9<br>B 92.5<br>BV 92.5 | 63.8<br>93.4<br>93.4 | 65<br>94.4<br>94.4   | 60.9<br>90.6<br>91.2 | 61.6<br>91.2<br>92.1 | 62.6<br>92.1       |
| 380 | Ot 52.9<br>B 81.7<br>BV 81.7 | 53.7<br>82.4<br>82.4 | 54.8<br>83.2<br>83.2 | 50.9<br>79.8<br>80.2 | 51.5<br>80.2<br>81.4 | 52.9<br>81.4       |
| 400 | Ot 43.4<br>B 71.5<br>BV 71.5 | 44.3<br>72.4<br>72.4 | 45.7<br>73.6<br>73.6 | 41.6<br>69.2<br>70.6 | 42.5<br>70.6<br>71.7 | 43.8<br>71.7       |
| 420 | Ot 35.2<br>B 62.4<br>BV 62.4 | 36<br>63.2<br>63.2   | 37.2<br>64.4<br>64.4 | 33.5<br>60.8<br>61.5 | 34.2<br>61.5<br>62.7 | 35.4<br>62.7       |
| 440 | Ot 28.8<br>B 54.8<br>BV 54.8 | 29.8<br>56<br>56     | 26.6<br>52.4<br>53   | 27.2<br>53<br>54.3   | 28.5<br>54.3         | 28.5<br>54.3       |
| 460 | Ot 22.6<br>B 46.7<br>BV 46.7 |                      |                      |                      |                      | 22.6<br>46.7       |



| ft  | HSL9A502ft                   | HSL9A512ft   |              |              | HSL9A522ft   |       |       |
|-----|------------------------------|--------------|--------------|--------------|--------------|-------|-------|
|     |                              | F39ft        | F49ft        | F59ft        | F39ft        | F49ft | F59ft |
|     |                              | 10°          |              |              |              |       |       |
| 70  | Ot 266<br>B 266<br>BV 266    |              |              |              | 253          |       | 241   |
| 80  | Ot 266<br>B 266<br>BV 266    | 244<br>224   | 254<br>235   | 217<br>241   | 227<br>209   |       |       |
| 90  | Ot 267<br>B 267<br>BV 267    | 243<br>224   | 254<br>235   | 216<br>242   | 227<br>209   |       |       |
| 100 | Ot 266<br>B 266<br>BV 266    | 243<br>223   | 253<br>235   | 216<br>240   | 225<br>208   |       |       |
| 110 | Ot 264<br>B 264<br>BV 264    | 241<br>222   | 252<br>233   | 215<br>239   | 223<br>207   |       |       |
| 120 | Ot 261<br>B 261<br>BV 261    | 238<br>221   | 249<br>230   | 213<br>237   | 220<br>204   |       |       |
| 130 | Ot 257<br>B 257<br>BV 257    | 235<br>219   | 246<br>227   | 210<br>235   | 217<br>201   |       |       |
| 140 | Ot 254<br>B 254<br>BV 254    | 232<br>215   | 243<br>224   | 207<br>232   | 214<br>199   |       |       |
| 150 | Ot 250<br>B 250<br>BV 250    | 228<br>210   | 239<br>221   | 204<br>229   | 211<br>195   |       |       |
| 160 | Ot 242<br>B 242<br>BV 242    | 225<br>202   | 235<br>217   | 200<br>225   | 208<br>192   |       |       |
| 170 | Ot 233<br>B 233<br>BV 233    | 220<br>196   | 226<br>213   | 195<br>219   | 204<br>189   |       |       |
| 180 | Ot 225<br>B 225<br>BV 225    | 216<br>190   | 218<br>209   | 189<br>211   | 201<br>185   |       |       |
| 190 | Ot 217<br>B 217<br>BV 217    | 211<br>183   | 211<br>205   | 183<br>204   | 197<br>181   |       |       |
| 200 | Ot 210<br>B 210<br>BV 210    | 204<br>178   | 204<br>200   | 178<br>197   | 193<br>177   |       |       |
| 220 | Ot 195<br>B 195<br>BV 195    | 191<br>168   | 190<br>189   | 168<br>184   | 183<br>167   |       |       |
| 240 | Ot 179<br>B 179<br>BV 179    | 178<br>159   | 176<br>176   | 159<br>170   | 171<br>159   |       |       |
| 260 | Ot 158<br>B 158<br>BV 158    | 158<br>151   | 155<br>159   | 150<br>152   | 155<br>150   |       |       |
| 280 | Ot 139<br>B 139<br>BV 139    | 140<br>141   | 137<br>140   | 139<br>133   | 137<br>136   |       |       |
| 300 | Ot 122<br>B 122<br>BV 122    | 123<br>126   | 120<br>123   | 124<br>117   | 120<br>121   |       |       |
| 320 | Ot 108<br>B 108<br>BV 108    | 109<br>112   | 106<br>109   | 110<br>103   | 106<br>107   |       |       |
| 340 | Ot 95.5<br>B 95.5<br>BV 95.5 | 96.1<br>99.4 | 93.4<br>96.3 | 97.2<br>90.2 | 93<br>94     |       |       |
| 360 | Ot 83.7<br>B 83.7<br>BV 83.7 | 84.1<br>87.5 | 81.5<br>84.3 | 85.7<br>78.2 | 81.4<br>82.6 |       |       |
| 380 | Ot 73.2<br>B 73.2<br>BV 73.2 | 73.9<br>76.9 | 71.2<br>73.9 | 75.1<br>68   | 70.8<br>71.8 |       |       |
| 400 | Ot 63.6<br>B 63.6<br>BV 63.6 | 64.1<br>67.2 | 61.4<br>64.2 | 65.5<br>58.4 | 61.3<br>62.5 |       |       |
| 420 | Ot 55<br>B 55<br>BV 55       | 55.6<br>58.5 | 53.2<br>55.6 | 56.6<br>50.1 | 52.5<br>53.4 |       |       |
| 440 | Ot 46.8<br>B 46.8<br>BV 46.8 | 47.5<br>50.3 | 45.2<br>47.5 | 48.7<br>42.2 | 44.7<br>45.9 |       |       |
| 460 | Ot 39.2<br>B 39.2<br>BV 39.2 | 39.8<br>42.7 | 37.6<br>39.9 | 41.2<br>34.9 | 37.3<br>38.5 |       |       |
| 480 | Ot 33<br>B 33<br>BV 33       | 35.6         | 33<br>34.1   | 28.4<br>30.3 | 31.7         |       |       |
| 500 | Ot 25.7<br>B 25.7<br>BV 25.7 |              |              |              |              |       | 25.7  |

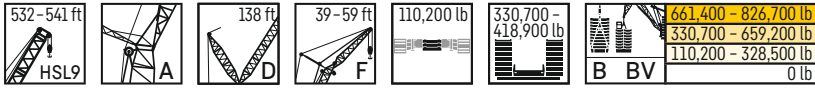


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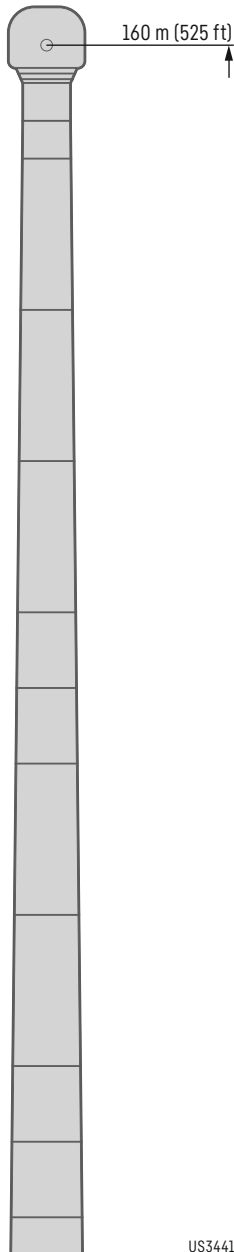
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# HSL9ADFB/BV

# HSL9A 532 - 541

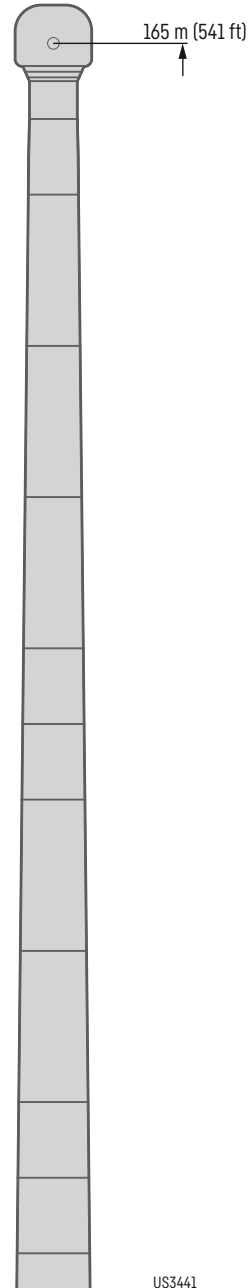


|     |    | HSL9A 532 ft |       |       |
|-----|----|--------------|-------|-------|
|     |    | F39ft        | F49ft | F59ft |
|     |    | 10°          |       |       |
| 75  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 231          | 218   |       |
| 80  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 231          | 218   | 201   |
| 90  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 231          | 217   | 201   |
| 100 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 230          | 215   | 200   |
| 110 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 229          | 212   | 197   |
| 120 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 227          | 210   | 195   |
| 130 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 225          | 207   | 192   |
| 140 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 222          | 204   | 190   |
| 150 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 219          | 201   | 187   |
| 160 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 216          | 198   | 183   |
| 170 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 213          | 195   | 180   |
| 180 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 208          | 192   | 177   |
| 190 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 203          | 188   | 173   |
| 200 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 197          | 185   | 170   |
| 220 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 184          | 177   | 163   |
| 240 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 171          | 168   | 155   |
| 260 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 154          | 154   | 148   |
| 280 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 136          | 136   | 135   |
| 300 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 119          | 120   | 121   |
| 320 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 105          | 106   | 107   |
| 340 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 92.6         | 93    | 94.1  |
| 360 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 81           | 81.7  | 82.8  |
| 380 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 70.4         | 70.9  | 72    |
| 400 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 61           | 61.6  | 62.7  |
| 420 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 52.3         | 52.7  | 54.1  |
| 440 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 44.5         | 45.1  | 46.2  |
| 460 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 37.1         | 37.7  | 38.9  |
| 480 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 30.3         | 31.1  | 32.3  |
| 500 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV |              | 25.2  | 26.3  |



US3441

|     |    | HSL9A 541 ft |       |       |
|-----|----|--------------|-------|-------|
|     |    | F39ft        | F49ft | F59ft |
|     |    | 10°          |       |       |
| 75  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 220          |       |       |
| 80  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 220          | 207   | 194   |
| 90  | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 219          | 207   | 193   |
| 100 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 218          | 205   | 191   |
| 110 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 217          | 203   | 189   |
| 120 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 215          | 201   | 187   |
| 130 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 214          | 198   | 184   |
| 140 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 213          | 196   | 182   |
| 150 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 210          | 193   | 179   |
| 160 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 207          | 190   | 176   |
| 170 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 204          | 187   | 173   |
| 180 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 200          | 184   | 170   |
| 190 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 195          | 181   | 167   |
| 200 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 190          | 177   | 164   |
| 220 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 178          | 171   | 157   |
| 240 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 165          | 162   | 150   |
| 260 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 150          | 150   | 142   |
| 280 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 132          | 133   | 131   |
| 300 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 116          | 117   | 118   |
| 320 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 102          | 103   | 103   |
| 340 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 89.2         | 89.9  | 90.9  |
| 360 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 77.9         | 78.6  | 79.6  |
| 380 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 67.2         | 67.8  | 69.2  |
| 400 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 58           | 58.5  | 59.6  |
| 420 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 49.1         | 49.8  | 51.1  |
| 440 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 41.6         | 42.1  | 43.1  |
| 460 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 34.4         | 34.9  | 36    |
| 480 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 27.9         | 28.4  | 29.4  |
| 500 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV | 21.9         | 22.3  | 23.3  |
| 520 | Ot |              |       |       |
|     | B  |              |       |       |
|     | BV |              |       | 17.8  |



US3441



# Description of symbols

## Explication des symboles



**Max. capacity**  
Capacité max.



**Max. boom length**  
Longueur maxi. de la fleche principale



**Max. boom system length**  
Longueur maxi. du systeme de fleche



**Counterweight**  
Contrepoids



**Central ballast**  
Contrepoids central



**Width crawler chassis**  
Largeur du train de chenilles



**Hoist gear**  
Treuil de levage



**Working speeds**  
Vitesses



**Max. single line pull**  
Effort au brin maxi.



**Rope diameter**  
Diamètre



**Rope length**  
Longueur du câble



**Slewing speeds**  
Vitesses d'orientation



**Driving speed**  
Vitesse de translation



**Load**  
Forces de levage



**Hookblock/Capacity**  
Moufle à crochet/Capacité de charge



**Weight**  
Poids



**No. of lines**  
Brins



**No. of sheaves**  
Poulies



**Radius**  
Portée



**Main boom, heavy**  
Flèche principale, lourde



**Main boom, heavy/light**  
Flèche principale, lourde/légère



**Main boom S2**  
Flèche principale S2



**Derrick system D**  
Système derrick D



**Luffin fly jib, heavy**  
Flèche, lourde



**Fixed lattice jib F**  
Flèche à treillis fixe F



**Adapter A**  
Pièce d'adaptateur A



**Counterweight frame B**  
Palette de lest B



**Suspended ballast V-frame**  
V-Frame de contreponds suspendu



**Counterweight trailer M-Wagon**  
Remorque à contreponds M-Wagon

## Remarks

1. The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 29 ft/s (9 m/s, 20.1 miles/hour) and regarding the load a sail area of 1 m<sup>2</sup> per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4. Lifting capacities are given in kips.
5. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6. The working radii are measured from the slewing centerline.
7. The subsoil must be even and of good bearing capacity.
8. Subject to modification of lifting capacities.
9. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane can be found in the operation manual and the load chart book.
10. The illustrations in this brochure may feature accessories and special equipment not included in the standard scope of delivery.

## Remarques

1. La capacité de charge ne doit pas dépasser 75 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 29 ft/s (9 m/s, 20.1 miles/hour) minimum, une surface de prise au vent de 1 m<sup>2</sup> par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4. Les charges sont indiquées en kips.
5. Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
6. Les portées sont prises à partir de l'axe de rotation de la partie tournante.
7. Le sol doit être plat et résistant.
8. Charges données sous réserve de modification.
9. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.
10. Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.



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