



770 USt



541 ft

335 ft +  
315 ft

# Big impact on narrow track

**LR 1700-1.0W**

Crawler crane  
Grue sur chenilles

**LIEBHERR**

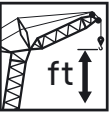
Mobile and crawler cranes

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# LR 1700-1.0W



643 ft



525 ft



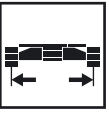
374,800 lb  
149,900 lb



143,300 lb



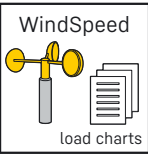
826,750 lb



12 ft 10 in

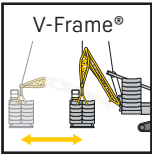


400 kW (544 h.p.)



WindSpeed

load charts



V-Frame®



VarioTray®



HVO ready



# Equipment

|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| Max. capacity    | 1323 kip at 46 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>SDBV – System with S 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 6 ft 7 in and quadruple drive. |
| Central ballast | 2 brackets 5,500 lb each. Total central ballast 143,300 lb. 6 ballast plates 22,050 lb each (option).                                 |

## Center section

|                               |                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Narrow crawler center section | For track gauge of 12 ft 10 in. Pins for crane outriggers.                                                                                                                                                 |
| Crane supporting equipment    | Hydraulically swivelling outriggers with support cylinders. Supporting basis at crane operation: 44 ft 3 in x 44 ft 3 in. Automatic levelling. Quick Connection crane supporting equipment-superstructure. |
| Supporting slabs              | Supporting slabs (13 ft 1 in x 7 ft 10 in) remain fixed during displacement.                                                                                                                               |
| Remote control                | For driving the crawler and operating the supports using the BTI.                                                                                                                                          |



## 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 with quick connection.                                                         |
| 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-R96.                                       |
| Winch I                               | Standard hoist winch, hydraulically driven with variable axial piston motor with integrated planetary gear.                                                                                                                                      |
| Winch IV                              | Retracting mechanism designed as a double winch.                                                                                                                                                                                                 |
| 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 colour monitors, cameras for all winches, slewing platform, right-hand side and rear.                                                                                                                                                          |
| Counterweight                         | 2 brackets 33,100 lb each. Total counterweight at superstructure 374 kip. 14 ballast plates 22,050 lb each.                                                                                                                                      |
| Extension of slewing platform ballast | 1 bracket weighing 17,650 lb and 6 ballast plates weighing 22,050 lb each. Total counterweight: 149,900 lb.                                                                                                                                      |



## Boom system

|                                |                                                                                                                                                                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main boom HS                   | System 3230/2825 with head section for max. 1323 kip load capacity. Boom length HS 98 ft – 315 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(V) 256 ft – 472 ft (482 ft), HSL6DB(V) 335 ft – 502 ft (541 ft), HSL9DB(V) 374 ft – 492 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 – 315 ft. Winch V is needed for all luffing jib operations.                                                                                      |
| Lattice fly jib F              | System 2116 with head section for max. 374,800 lb 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 kip. D-118 ft: for infinitely variable radius from 34 ft 5 in – 59 ft 1 in. D-138 ft: for infinitely variable radius from 39 ft 4 in – 52 ft 6 in.                                                    |
| V-frame®                       | For max. derrick counterweight of 826 kip, for infinitely variable radius from 42 ft 8 in – 68 ft 11 in.                                                                                                                                    |
| Derrick-Counterweight          | Plates for a total of 826 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.                                                                                                                                                                                                                       |
| Boom nose                      | 79,400 lb for attaching to the SW head.                                                                                                                                                                                                     |

## Additional equipment

|                                                |                                                                                                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Pin pulling device                             | Including mobile hydraulic aggregate. For inserting and removing the pins for various components. |
| Other items of equipment available on request. |                                                                                                   |

# Equipment

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| Capacité max.         | 1323 kip pour une portée de 46 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 SDBV avec S 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 6 ft 7 in et un entraînement à 4 positions. |
| Contrepoids central      | 2 consoles de 5,500 lb. Contrepoids central total 143,300 lb. 6 plaques de lest de 22,050 lb (option).                                                     |

## Partie centrale

|                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partie centrale du train de roulement étroite | Pour largeur de voie 12 ft 10 in. Boulonnage pour stabiliser la grue.                                                                                                                                                     |
| Calage de la grue                             | Stabilisateurs pivotants hydrauliques avec vérins d'appui. Base de calage en cas d'état d'équipement de grue : 44 ft 3 in x 44 ft 3 in. Mise à niveau automatique. Quick Connection calage de la grue - partie tournante. |
| Patins de calage                              | Les patins de calage (13 ft 1 in x 7 ft 10 in) restent montés pendant le déplacement.                                                                                                                                     |
| Commande à distance                           | Sur la procédure de la chenille et l'actionnement des stabilisateurs grâce au BTT.                                                                                                                                        |



## 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 avec quick connection.                                                              |
| 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 rétraction conçu sur le modèle du treuil double.                                                                                                                                                                                                                                                  |
| 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 grues 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 33,100 lb chacune. Contrepoids total 374 kip. 14 plaques de lest à 22,050 lb (option).                                                                                                                                                                                                           |
| Extension de lest de partie tournante     | 1 console de 17,650 lb et 6 blocs de lest de 22,050 lb chacun. Contrepoids total 149,900 lb.                                                                                                                                                                                                                   |



## Système de flèche

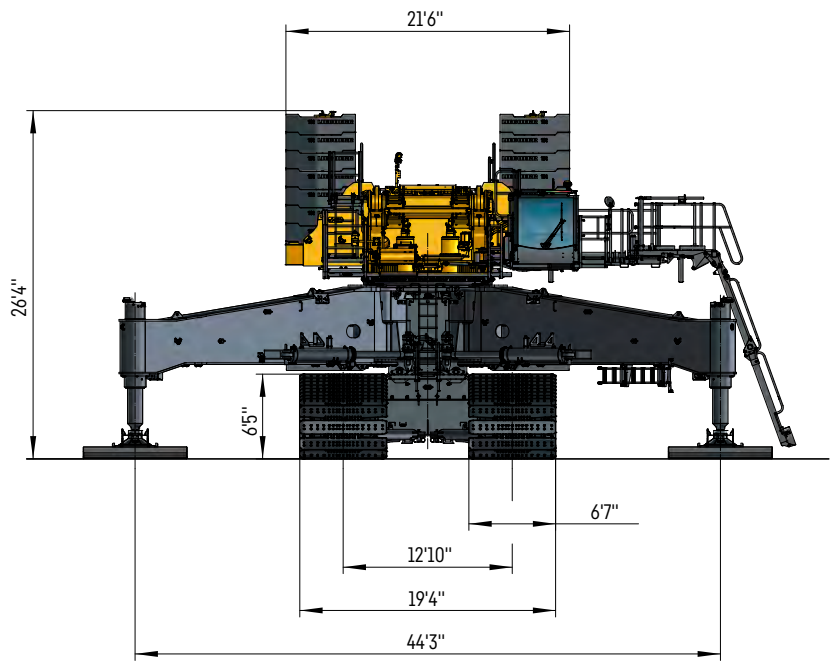
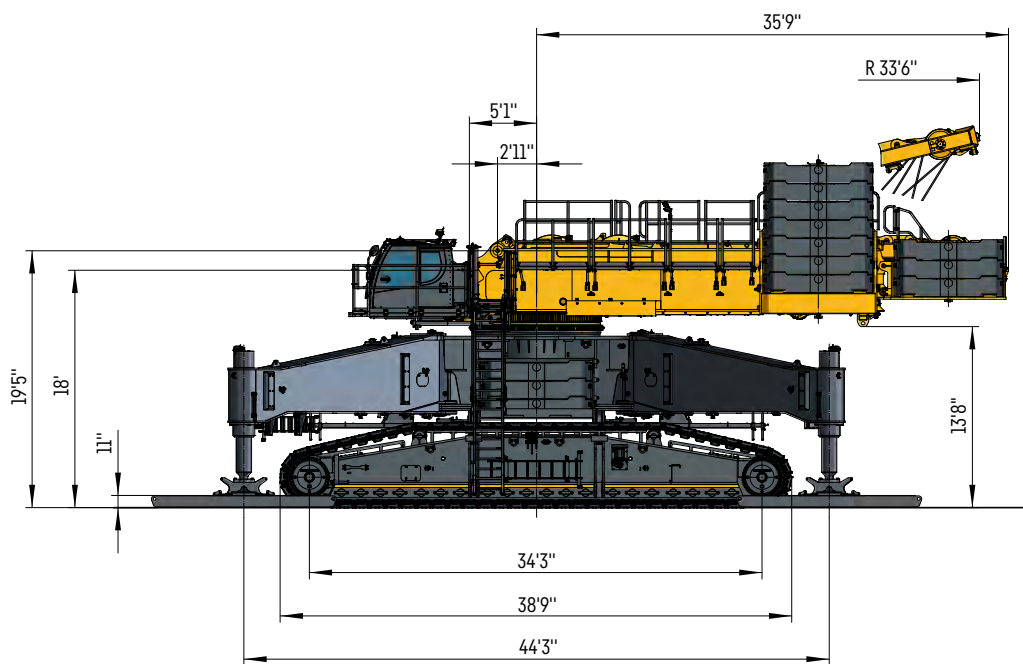
|                                       |                                                                                                                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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(V) 256 ft – 472 ft (482 ft), HSL6DB(V) 335 ft – 502 ft (541 ft), HSL9DB(V) 374 ft – 492 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 W 39 ft – 315 ft. Le treuil V est nécessaire pour fonctionnement fléchette treillis.                                                                      |
| Flechette treillis fixe F             | Système 2116 avec élément de tête pour une capacité max. de 374,800 lb. 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 kip. D-118 ft: pour des rayons variables progressivement de 34 ft 5 in – 59 ft 1 in. 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 kip et rayons variables progressivement de 42 ft 8 in – 68 ft 11 in.                                                                                                                                                 |
| Contrepoids derrick                   | Plaques de poids total de 826 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           | 79,400 lb pour le montage sur la tête SW.                                                                                                                                                                                                                    |

## Equipment additionnel

|                                                                 |                                                                                                                      |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Dispositif d'extraction des axes                                | Il est constitué du composant hydraulique mobile. Pour l'insertion et le retrait des boulons de différents éléments. |
| D'autres équipements additionnels sont disponibles sur demande. |                                                                                                                      |

# Dimensions

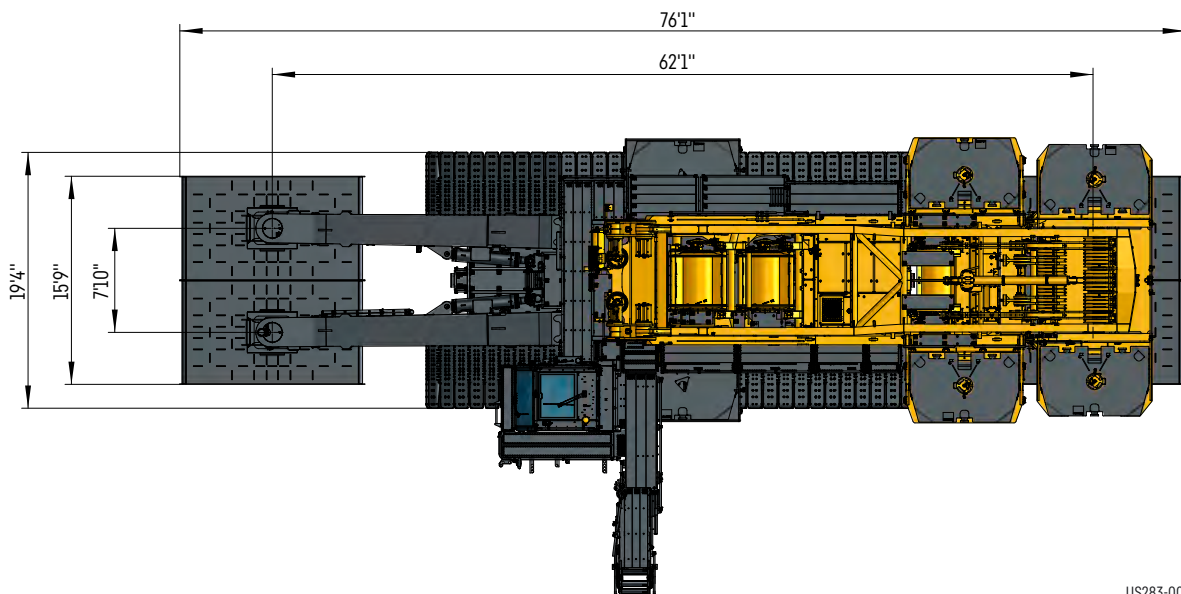
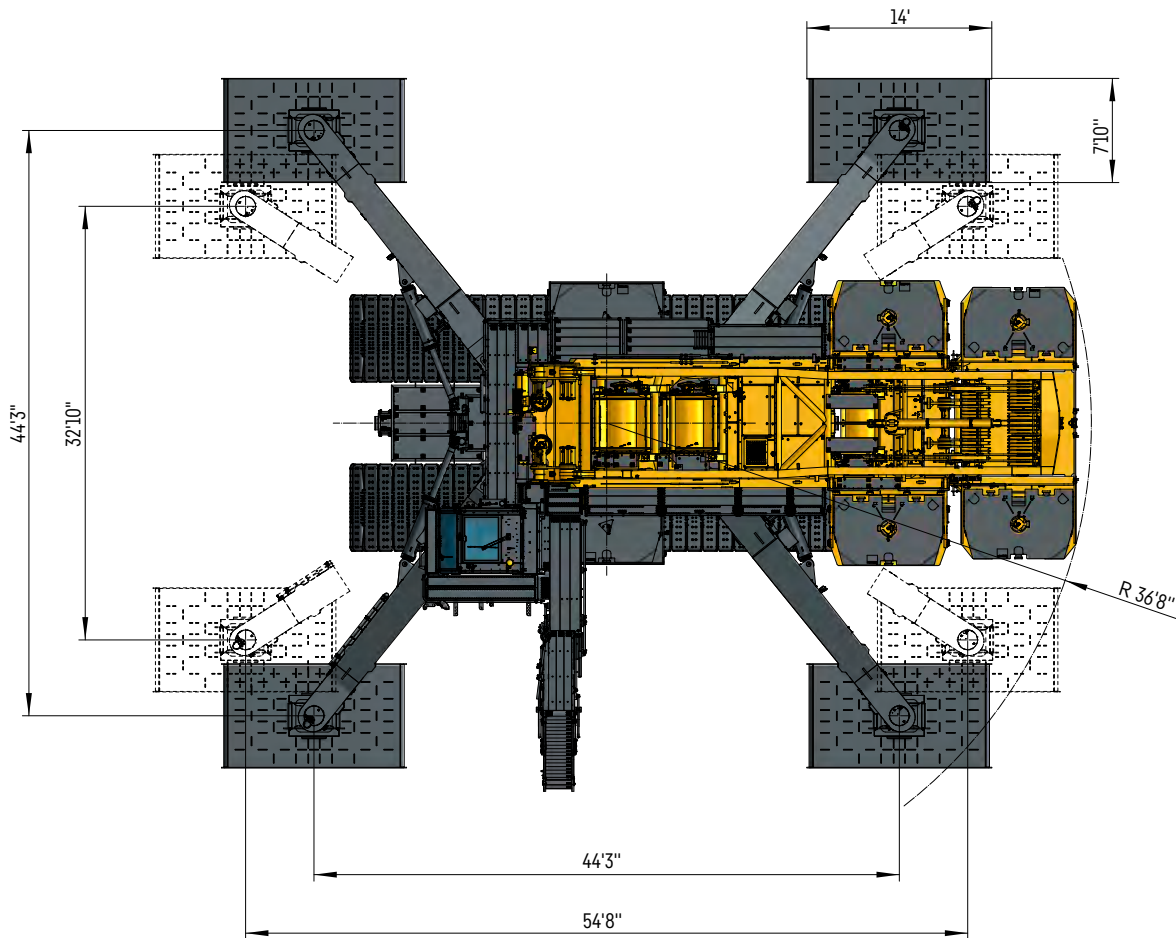
## Encombrement



US283-0001-00W

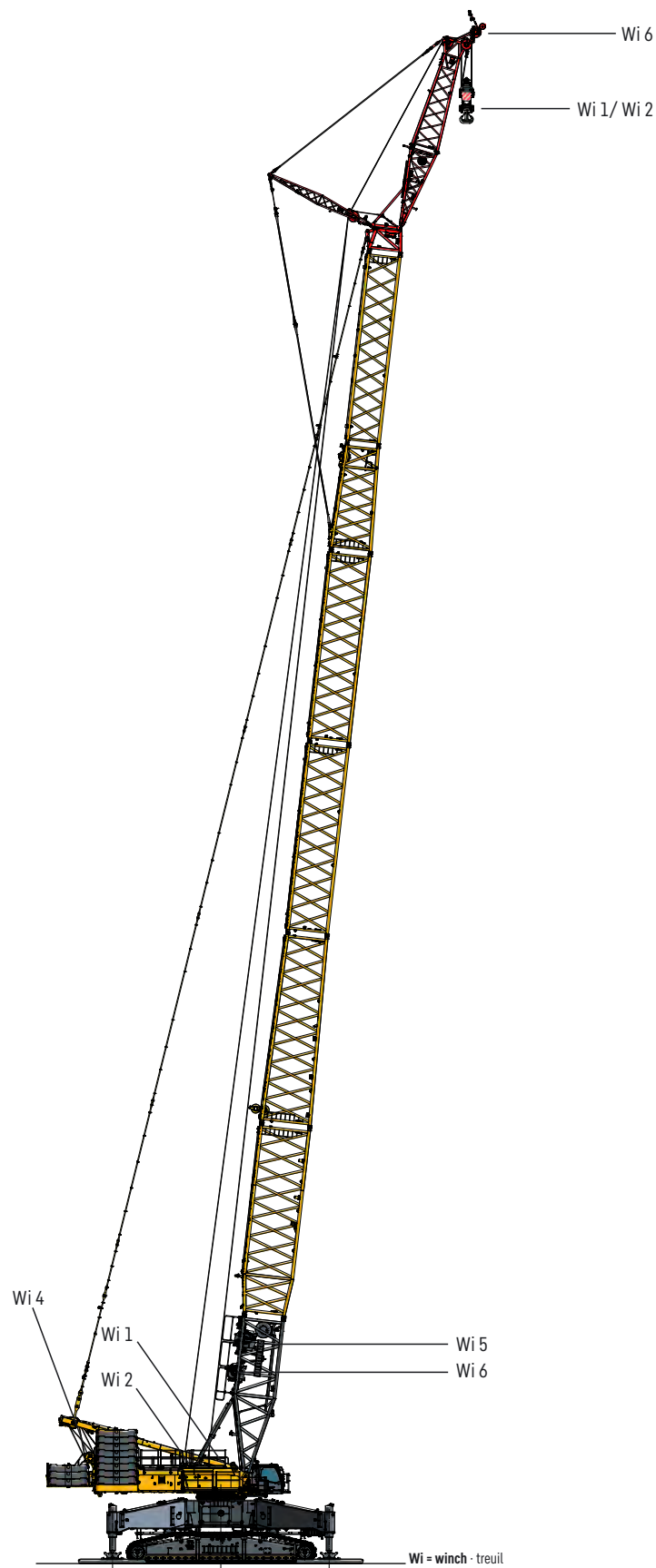
# Dimensions

## Encombrement

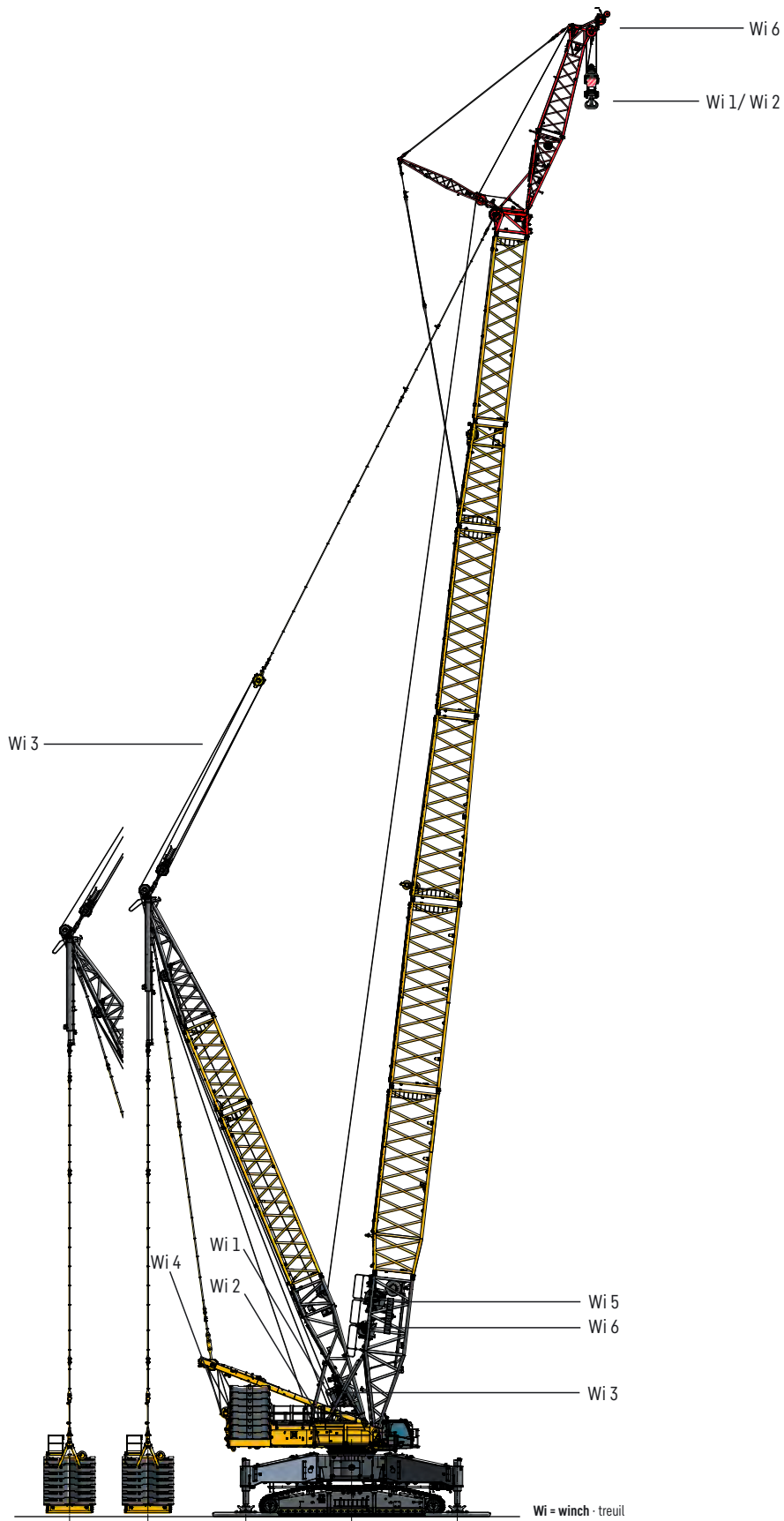


US283-0001-00W

# HSL2AF



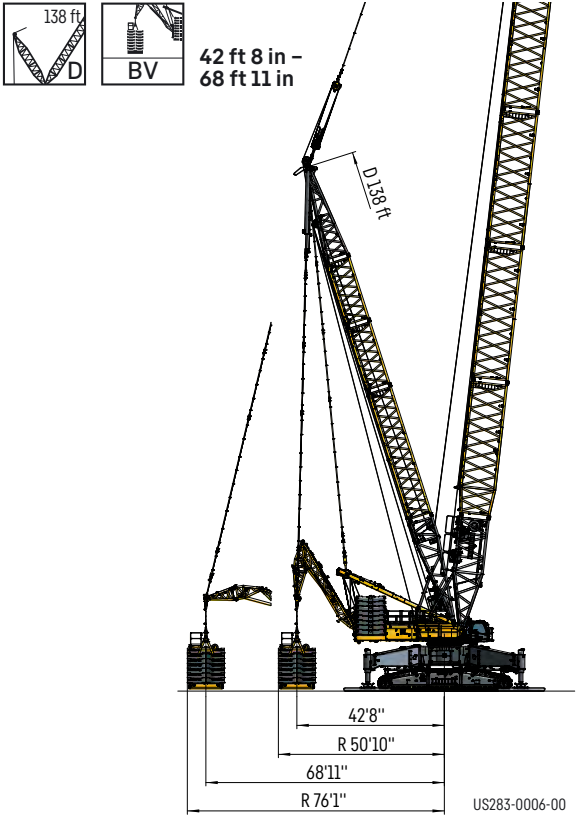
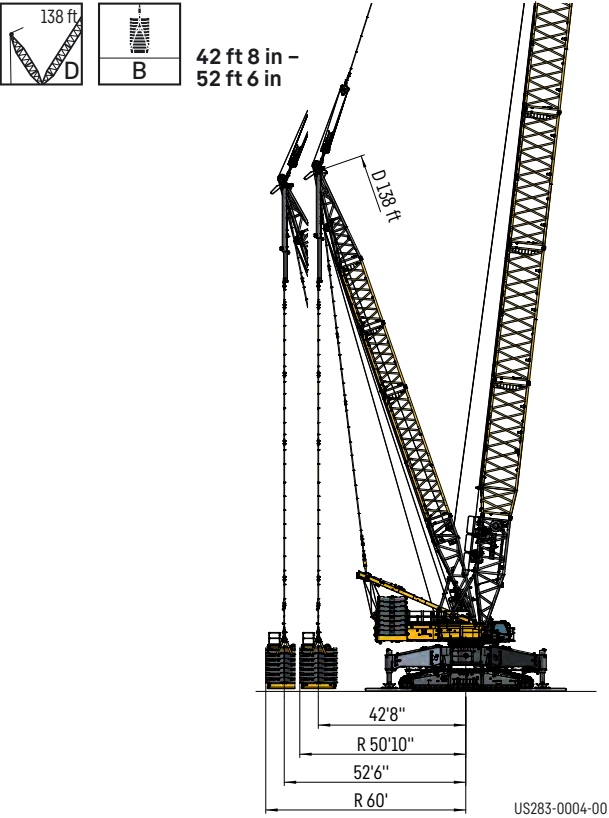
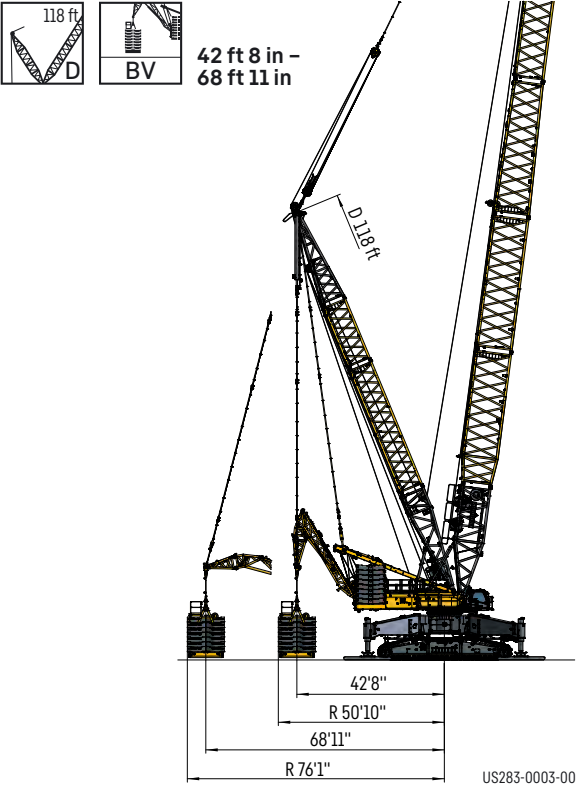
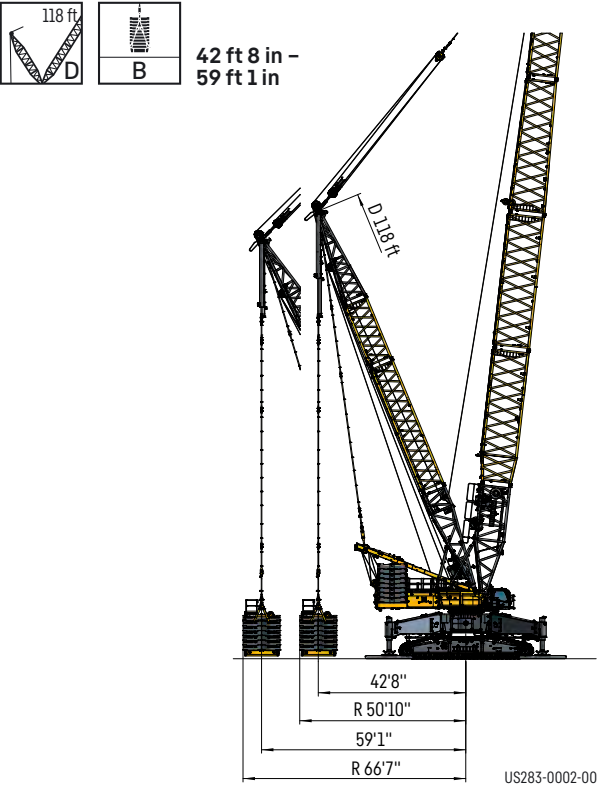
# HSL3DFB



US283-0031-00

# Dimensions

## Encombrement



# Crane data

## Dates de la grue



Winches · Treuils

|  | V <sub>ft/min</sub> |  F |  Ø |  |
|-----------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1                                                                                 | 0 – 394 ft/min      | 40,465 lb                                                                           | 28 mm                                                                                 | 3773 ft                                                                             |
| 2                                                                                 | 0 – 394 ft/min      | 40,465 lb                                                                           | 28 mm                                                                                 | 3773 ft                                                                             |
| 3                                                                                 | 0 – 377 ft/min      | -                                                                                   | -                                                                                     | -                                                                                   |
| 4                                                                                 | 0 – 2 x 246 ft/min  | -                                                                                   | -                                                                                     | -                                                                                   |
| 5                                                                                 | 0 – 345 ft/min      | -                                                                                   | -                                                                                     | -                                                                                   |
| 6                                                                                 | 0 – 387 ft/min      | 28,100 lb                                                                           | 25 mm                                                                                 | 1968 ft                                                                             |



Working speeds · Vitesses

|                                                                                   |                                         |              |
|-----------------------------------------------------------------------------------|-----------------------------------------|--------------|
|  | Slewing speeds · Vitesses d'orientation | 0 – 0,76 rpm |
|  | Travel speeds · Vitesses de translation | 0 – 0.75 mph |

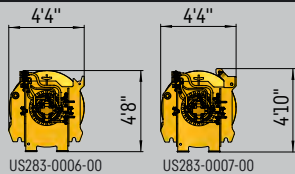
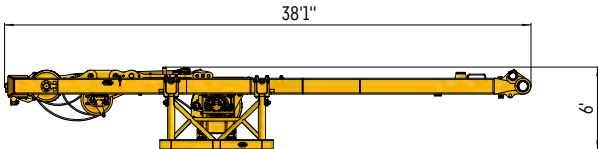
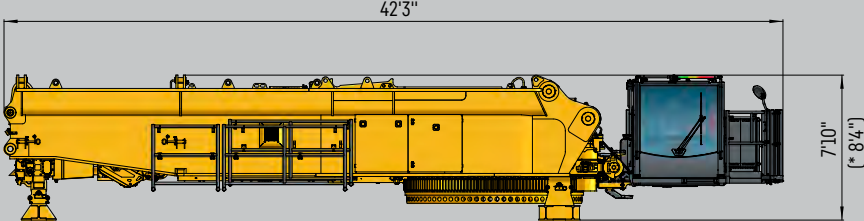
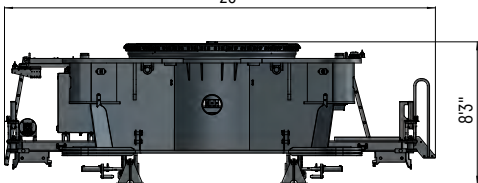
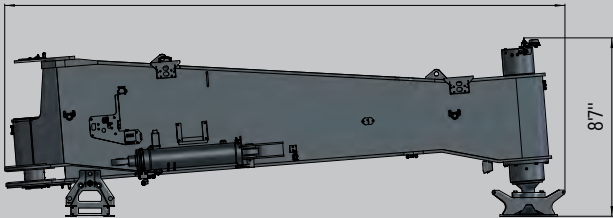


Hook blocks · Moufles à crochet

|  |  max |  Ø |  |  |  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1323 / 661 kip                                                                      | 1389 kip                                                                                | 28 mm                                                                                 | 2 x 9                                                                               | 2 x 19                                                                                | 18,740 / 24,250 - 35,300 lb                                                           |
| 794 / 397 kip                                                                       | 882 kip                                                                                 | 28 mm                                                                                 | 2 x 5                                                                               | 2 x 11                                                                                | 11,250 - 15,650 / 13,700– 24,700 lb                                                   |
| 529 / 265 kip                                                                       | 551 kip                                                                                 | 28 mm                                                                                 | 2 x 3                                                                               | 2 x 7                                                                                 | 5,300 - 16,300 / 7,930 - 18,950 lb                                                    |
| 397 kip                                                                             | 441 kip                                                                                 | 28 mm                                                                                 | 5                                                                                   | 11                                                                                    | 4,400 - 15,430 lb                                                                     |
| 265 kip                                                                             | 276 kip                                                                                 | 28 mm                                                                                 | 3                                                                                   | 7                                                                                     | 3,300 - 12,125 lb                                                                     |
| 110 kip                                                                             | 139 kip                                                                                 | 28 mm                                                                                 | 1                                                                                   | 3                                                                                     | 2,200 - 6,615 lb                                                                      |
| 39.7 kip                                                                            | 44 kip                                                                                  | 28 mm                                                                                 | –                                                                                   | 1                                                                                     | 2,425 lb                                                                              |

# Transportation plan

## Plan de transport

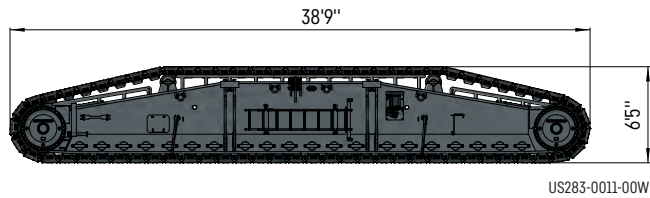
|                                                                                                                                                                                             |  |                                                                                                                         |            |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|
| Part - Partie                                                                                                                                                                               |  |                                                                                                                         |            |            |            |
| Winches 1 and 2<br>Treuils 1 et 2 <div>  </div>                                                            |  | 18,500 lb + 18,500 lb                                                                                                   |            |            |            |
| SA-Frame incl. winch IV - Chevalet SA incl. treuil 4 <div>  </div>                                         |  | 38,600 lb<br>+3,530 lb<br>Transport bracket<br>Support de transport                                                     |            |            |            |
| Superstructure without SA-frame and winches - Partie tournante sans chevalet SA et treuils <div>  </div> |  | 90,400 lb (incl. QC)<br>+3,100 lb<br>Transport bracket<br>Support de transport                                          |            |            |            |
| Middle section<br>Partie centrale <div>  </div>                                                          |  | 75,000 lb<br>+1,750 lb<br>Transport bracket<br>Support de transport                                                     |            |            |            |
| Outriggers<br>Stabilisateurs <div>  </div>                                                              |  | 2 x 26,450 lb including support plates<br>plaques d'appui incl.<br>+880 lb<br>Transport bracket<br>Support de transport |            |            |            |
| Total - total:                                                                                                                                                                              |  | 346,800 lb                                                                                                              | 129,000 lb | 165,400 lb | 204,000 lb |
|                                                                                                                                                                                             |  | +Transport bracket<br>+Support de transport                                                                             |            |            |            |

# Transportation plan

## Plan de transport

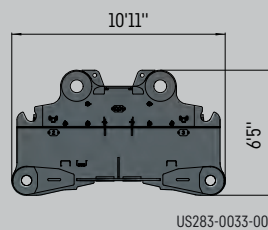
Part - Partie

HD crawler carrier (for 4-way drive, 6 ft 7 in pads)  
Supports de chenilles HD (pour entraînement quadruple, plaques 6 ft 7 in)



2 x 130,100 lb

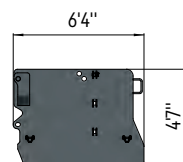
Narrow-gauge crawler center section  
Partie centrale des chenilles pour voie étroite



22,050 lb or  
25,150 lb  
including track  
connectors  
Connecteur de  
chenille inclus

Central ballast frame  
Cadre de lestage lest central

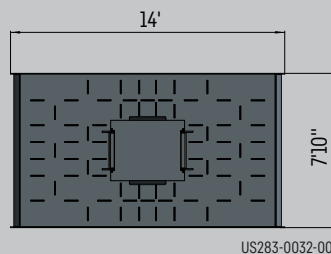
2 pcs.  
pièces



2 x 5,500 lb

Support mat  
Protection d'appui

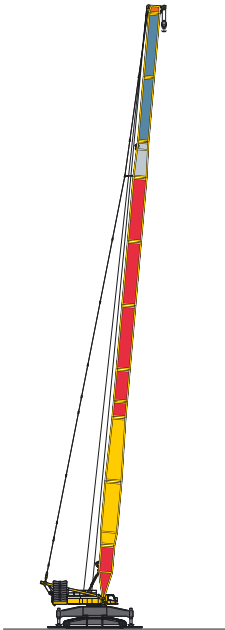
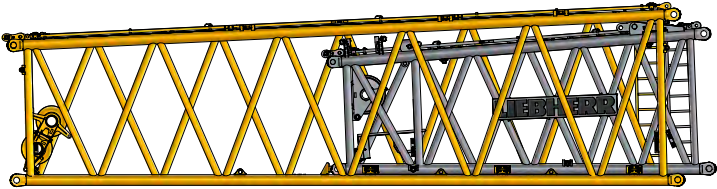
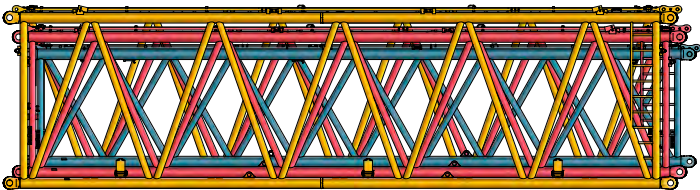
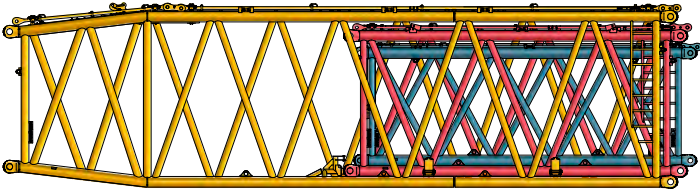
4 pcs.  
pièces



4 x 7,700 lb

# 3 x transport >11 ft 6 in<

# 3 x transport >11 ft 6 in<

| Example<br>Exemple                                                                | Gross weight<br>Poids total |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|
|  | 33,950 lb                   |   |
|                                                                                   | max. 65,500 lb              |   |
|                                                                                   | 49,200 lb                   |  |

All other components are ≤ 9 ft 10 in • Tous les autres composants sont ≤ 9 ft 10 in

# Overview wind systems

## Vue d'ensemble des systèmes de treuils

Easy to identify  
Identification facile



S3717

# Boom/jib combinations

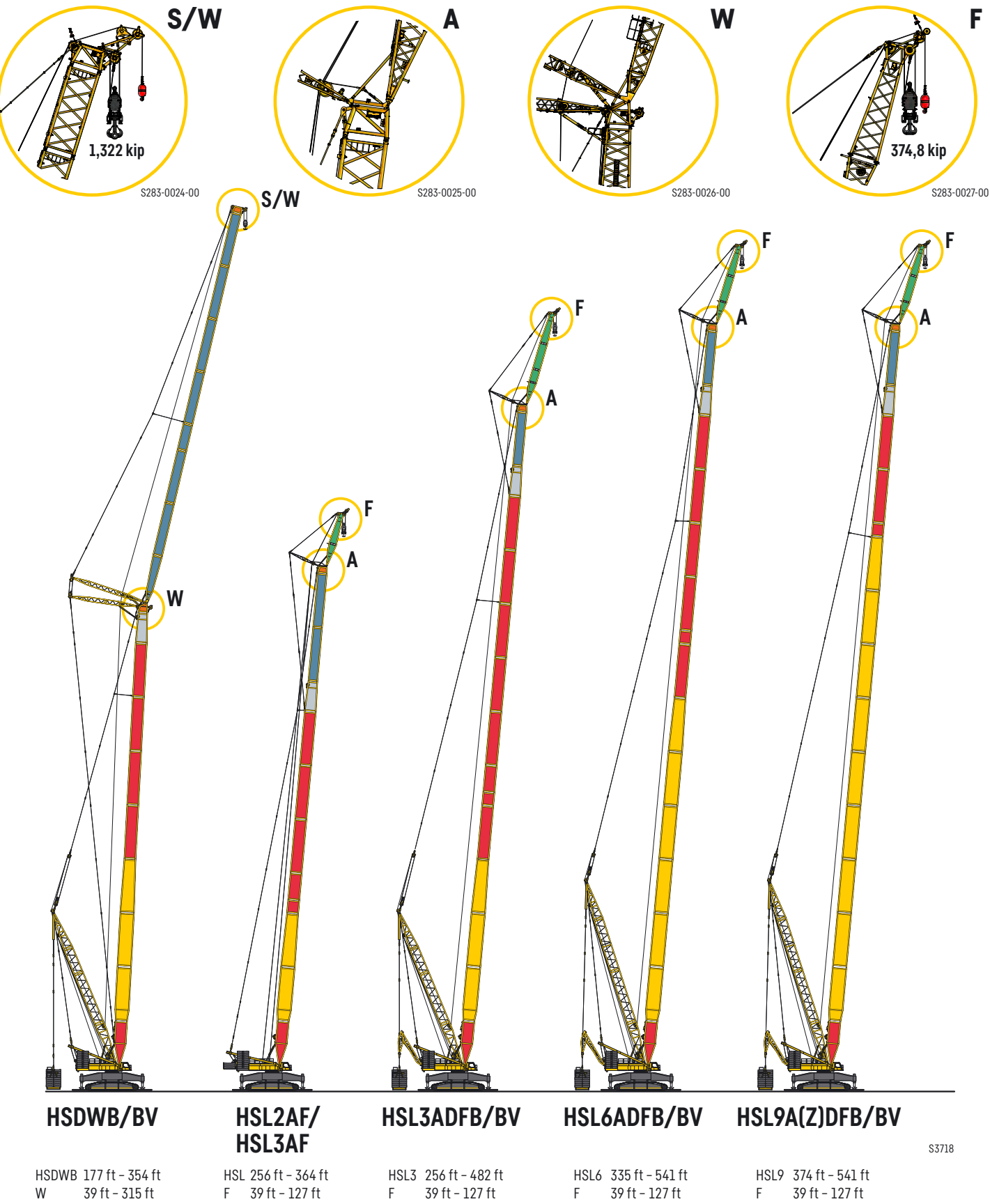
## Configurations de flèche

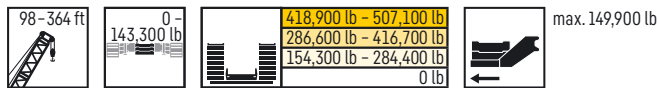
|     |                                                               |
|-----|---------------------------------------------------------------|
| HS  | Main boom, heavy • Flèche principale, lourde                  |
| HSL | Main boom, heavy/light • Flèche principale, lourde/légère     |
| D   | Derrick • Flèche derrick                                      |
| W   | Luffing fly jib, heavy • Flèchelette, lourde                  |
| B   | Suspended ballast • Lest suspendu                             |
| BV  | Suspended ballast V-frame® • V-frame® de contrepoids suspendu |
| S2  | Main boom S2 • Flèche principale S2                           |
| A   | Adapter • Pièce d'adaptateur                                  |
| F   | Fixed lattice jib F • Flechette a treillis fixe F             |



# Boom/jib combinations

## Configurations de flèche



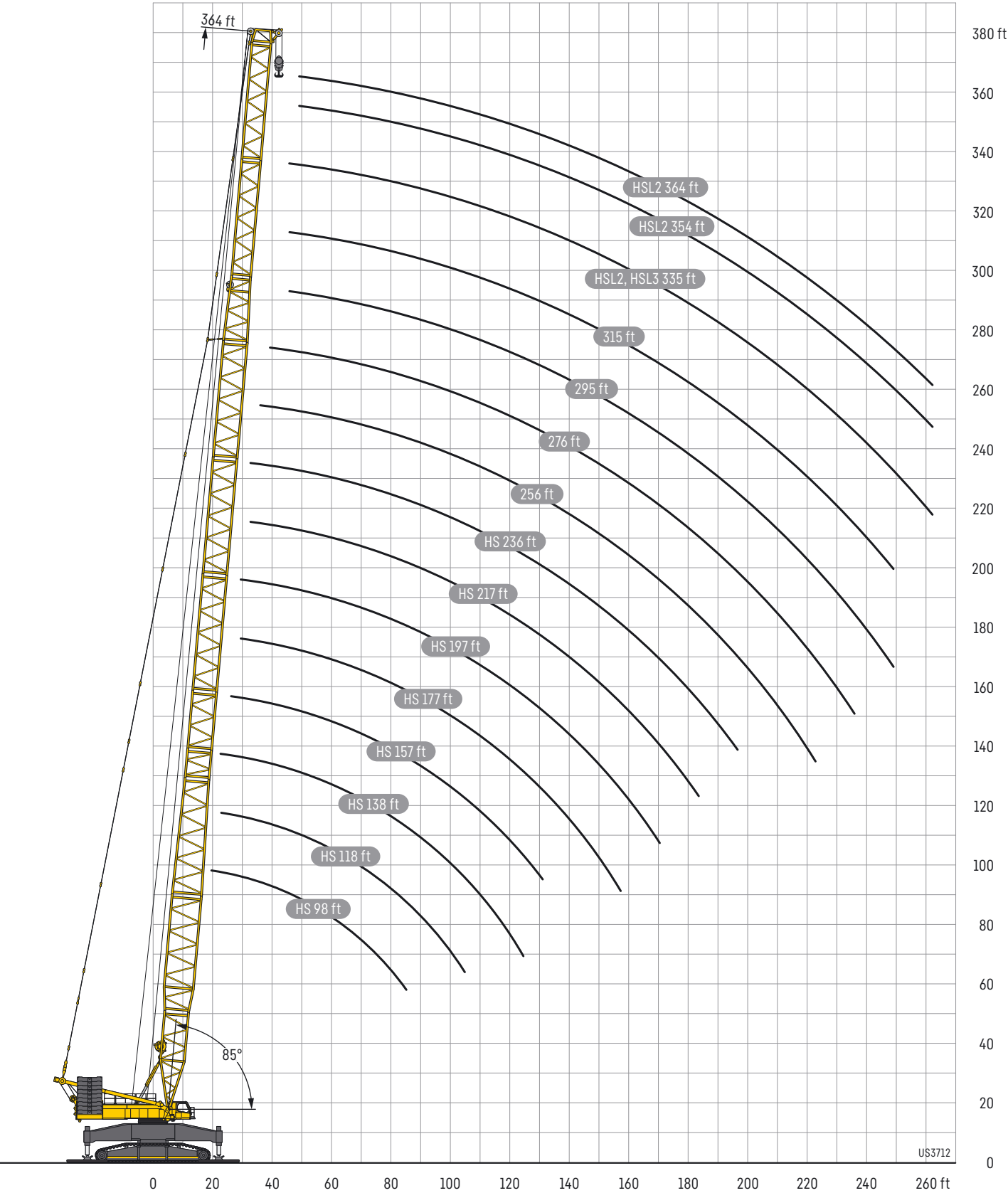


|  | ft                 | HS, HSL2, HSL3 98 – 364 ft |        |        |        |        |        |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
|----------------------------------------------------------------------------------|--------------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------|----------------------|--------------|--------|
|                                                                                  |                    | 98 ft                      | 118 ft | 138 ft | 157 ft | 177 ft | 197 ft | 217 ft | 236 ft | 256 ft               | 265 ft               | 276 ft               | 285 ft               | 295 ft               | 305 ft               | 315 ft               | 324 ft               | 335 ft             | 344 ft               | 354 ft       | 364 ft |
| 20                                                                               | HS<br>HSL2<br>HSL3 | 1322                       |        |        |        |        |        |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 22                                                                               | HS<br>HSL2<br>HSL3 | 1321                       | 1322   |        |        |        |        |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 24                                                                               | HS<br>HSL2<br>HSL3 | 1242                       | 1233   | 1216   |        |        |        |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 26                                                                               | HS<br>HSL2<br>HSL3 | 1141                       | 1137   | 1122   | 1087   |        |        |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 28                                                                               | HS<br>HSL2<br>HSL3 | 1055                       | 1043   | 1034   | 1006   | 962    |        |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 30                                                                               | HS<br>HSL2<br>HSL3 | 974                        | 966    | 953    | 917    | 889    | 855    |        |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 32                                                                               | HS<br>HSL2<br>HSL3 | 906                        | 900    | 882    | 858    | 827    | 799    | 758    |        |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 34                                                                               | HS<br>HSL2<br>HSL3 | 844                        | 837    | 825    | 802    | 769    | 744    | 716    | 678    |                      |                      |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 36                                                                               | HS<br>HSL2<br>HSL3 | 791                        | 784    | 777    | 745    | 726    | 695    | 675    | 641    | 611<br>612<br>613    | 337<br>550           |                      |                      |                      |                      |                      |                      |                    |                      |              |        |
| 38                                                                               | HS<br>HSL2<br>HSL3 | 742                        | 737    | 725    | 708    | 676    | 655    | 628    | 604    | 585<br>584<br>584    | 568<br>568<br>550    | 549<br>549<br>550    |                      |                      |                      |                      |                      |                    |                      |              |        |
| 40                                                                               | HS<br>HSL2<br>HSL3 | 700                        | 694    | 686    | 666    | 638    | 618    | 597    | 576    | 552<br>552<br>551    | 544<br>527<br>542    | 526<br>512<br>526    | 511<br>493<br>496    | 495                  |                      |                      |                      |                    |                      |              |        |
| 45                                                                               | HS<br>HSL2<br>HSL3 | 613                        | 607    | 597    | 585    | 564    | 543    | 525    | 504    | 485<br>490<br>488    | 462<br>466<br>479    | 445<br>445<br>465    | 445<br>430<br>430    | 421<br>425<br>423    | 417<br>415<br>403    | 403                  |                      |                    |                      |              |        |
| 50                                                                               | HS<br>HSL2<br>HSL3 | 539                        | 536    | 527    | 521    | 501    | 481    | 468    | 448    | 431<br>435<br>433    | 415<br>430<br>427    | 415<br>420<br>418    | 411<br>399<br>410    | 395<br>389<br>389    | 378<br>384<br>382    | 377<br>374<br>366    | 367<br>366           | 356                | 347                  | 347          |        |
| 60                                                                               | HS<br>HSL2<br>HSL3 | 435                        | 430    | 424    | 419    | 412    | 394    | 382    | 364    | 356<br>360<br>357    | 346<br>353<br>349    | 340<br>346<br>342    | 325<br>330<br>329    | 321<br>321<br>320    | 312<br>319<br>316    | 315<br>315<br>312    | 306<br>306<br>303    | 298                | 292                  | 293          |        |
| 70                                                                               | HS<br>HSL2<br>HSL3 | 362                        | 357    | 348    | 347    | 340    | 334    | 322    | 308    | 298<br>306<br>302    | 282<br>299<br>295    | 274<br>290<br>287    | 274<br>278<br>276    | 261<br>267<br>264    | 265<br>261           | 259<br>256           | 251                  | 245                | 247                  |              |        |
| 80                                                                               | HS<br>HSL2<br>HSL3 | 307                        | 304    | 294    | 291    | 285    | 282    | 276    | 266    | 254<br>263<br>260    | 243<br>252<br>253    | 234<br>246<br>242    | 234<br>240<br>238    | 223<br>232<br>230    | 223<br>232<br>228    | 223<br>227<br>224    | 215<br>220<br>218    | 215                | 211                  | 212          |        |
| 90                                                                               | HS<br>HSL2<br>HSL3 | 265                        | 261    | 253    | 249    | 243    | 238    | 237    | 230    | 222<br>233<br>229    | 212<br>222<br>224    | 203<br>211<br>217    | 203<br>211<br>212    | 193<br>204<br>201    | 193<br>203<br>199    | 193<br>197<br>193    | 194<br>194<br>191    | 187                | 183                  | 185          |        |
| 100                                                                              | HS<br>HSL2<br>HSL3 |                            | 228    | 219    | 216    | 208    | 205    | 202    | 199    | 195<br>209<br>204    | 186<br>204<br>199    | 178<br>197<br>193    | 178<br>187<br>183    | 170<br>181<br>177    | 170<br>179<br>175    | 170<br>174<br>170    | 168<br>170<br>168    | 164                | 162                  | 164          |        |
| 110                                                                              | HS<br>HSL2<br>HSL3 |                            |        | 192    | 188    | 182    | 177    | 175    | 171    | 169<br>186<br>181    | 164<br>182<br>177    | 159<br>178<br>173    | 159<br>169<br>165    | 150<br>162<br>158    | 150<br>160<br>156    | 155<br>155<br>151    | 152<br>152<br>149    | 146                | 144                  | 144          |        |
| 120                                                                              | HS<br>HSL2<br>HSL3 |                            |        | 169    | 166    | 159    | 155    | 152    | 149    | 146<br>164<br>158    | 142<br>158<br>156    | 140<br>152<br>153    | 140<br>146<br>150    | 134<br>144<br>142    | 134<br>140<br>140    | 136<br>140<br>136    | 133<br>136<br>133    | 130                | 129                  | 130          |        |
| 130                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        | 147    | 140    | 136    | 134    | 129    | 126<br>143<br>137    | 123<br>142<br>136    | 122<br>140<br>134    | 122<br>138<br>132    | 118<br>135<br>131    | 118<br>130<br>126    | 118<br>130<br>125    | 118<br>126<br>122    | 118<br>123<br>119  | 118                  | 116          | 117    |
| 140                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        | 131    | 124    | 120    | 118    | 113    | 110<br>126<br>120    | 106<br>125<br>119    | 106<br>123<br>117    | 105<br>122<br>115    | 105<br>120<br>114    | 102<br>116<br>111    | 102<br>115<br>110    | 102<br>112<br>107    | 106<br>110<br>106  | 106                  | 104          | 106    |
| 150                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        | 110    | 106    | 103    | 99     | 96.5<br>112<br>106   | 92<br>111<br>104     | 92<br>108<br>102     | 90.9<br>107<br>100   | 90.9<br>105<br>99.6  | 87.2<br>102<br>96.6  | 87.2<br>100<br>95    | 87.2<br>98.7<br>93.3 | 87.2<br>97.1<br>93 | 87.2<br>93.7<br>93.2 | 87.2<br>94.7 |        |
| 160                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        | 93.5   | 90.5   | 86.5   | 84.2<br>99.8<br>93.7 | 80.1<br>98<br>91.6   | 78.3<br>95.8<br>89.6 | 78.3<br>94.1<br>87.6 | 75<br>91.9<br>86.7   | 75<br>88.8<br>83.5   | 75<br>87.9<br>82.4   | 75<br>85.7<br>80.3   | 75<br>84.8<br>80.7 | 75<br>81.5<br>81.9   | 75<br>84     |        |
| 170                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        | 83.3   | 80.2   | 75.8   | 73<br>88.4<br>82.2   | 69.3<br>84.7<br>80.7 | 67.4<br>82.5<br>78.5 | 67.4<br>80.9<br>76   | 63.7<br>77.7<br>72.4 | 63.7<br>76.4<br>70.9 | 63.7<br>74.5<br>69.1 | 63.7<br>73.1<br>68.9 | 63.7<br>70         | 63.7<br>71           | 63.7<br>73.7 |        |
| 180                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        |        | 70.9   | 66.4   | 63.6<br>78.6<br>72.4 | 59.6<br>76.9<br>70.4 | 58.3<br>74.8<br>68.5 | 58.3<br>73.1<br>66.6 | 54.3<br>67.9<br>62.6 | 54.3<br>66.8<br>61.4 | 54.3<br>64.5<br>59   | 54.3<br>63.2<br>59   | 54.3<br>60.2       | 54.3<br>60.6         | 54.3<br>63.3 |        |
| 190                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        |        | 62.6   | 58     | 55.3<br>69.9<br>63.7 | 50.9<br>68.1<br>61.6 | 50.9<br>64<br>57.5   | 49.5<br>62.5<br>57.2 | 49.5<br>59.7<br>54.4 | 45.9<br>58.3<br>52.8 | 45.9<br>55.6<br>50.1 | 45.9<br>54.5<br>50.3 | 45.9<br>51.6       | 45.9<br>51.7         | 45.9<br>54.6 |        |
| 200                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        |        |        | 50.6   | 47.9<br>62.2<br>56.1 | 43.2<br>60.1<br>53.6 | 43.2<br>56.5<br>51.8 | 41.8<br>54.5<br>49.9 | 38.3<br>51.7<br>46.3 | 38.3<br>48<br>44.9   | 38.3<br>42.5<br>42.4 | 38.3<br>46.6<br>42.4 | 38.3<br>43.6       | 38.3<br>43.8         | 38.3<br>46.4 |        |
| 220                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        |        |        |        | 34.6<br>48.7<br>42.5 | 30.2<br>46.8<br>40.3 | 30.2<br>44.5<br>38.2 | 29.1<br>42.9<br>36.3 | 26.1<br>41.1<br>35.8 | 26.1<br>37<br>31.9   | 26.1<br>34.5<br>29.5 | 26.1<br>30.8         | 26.1<br>31.5       | 26.1<br>33.5         |              |        |
| 240                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        |        |        |        |                      |                      | 21.6<br>34<br>28.1   | 20.2<br>31.8<br>26.2 | 17<br>27.9<br>23.3   | 17<br>26.8<br>22.2   | 17<br>24.5<br>20.1   | 17<br>23.8<br>20.2   | 17<br>21.2         | 17<br>21.4           | 17<br>23.5   |        |
| 260                                                                              | HS<br>HSL2<br>HSL3 |                            |        |        |        |        |        |        |        |                      |                      |                      |                      | 20.3<br>16.8<br>14.9 | 19.4<br>12.6<br>12.7 | 16.9<br>12.5         | 16.1<br>12.7         | 13.8               | 13.9                 | 15.9         |        |

# Lifting heights

## Hauteurs de levage

# HS/HSL2/ HSL3



# HSL3/6/9(Z)/DBV

# 256 – 541

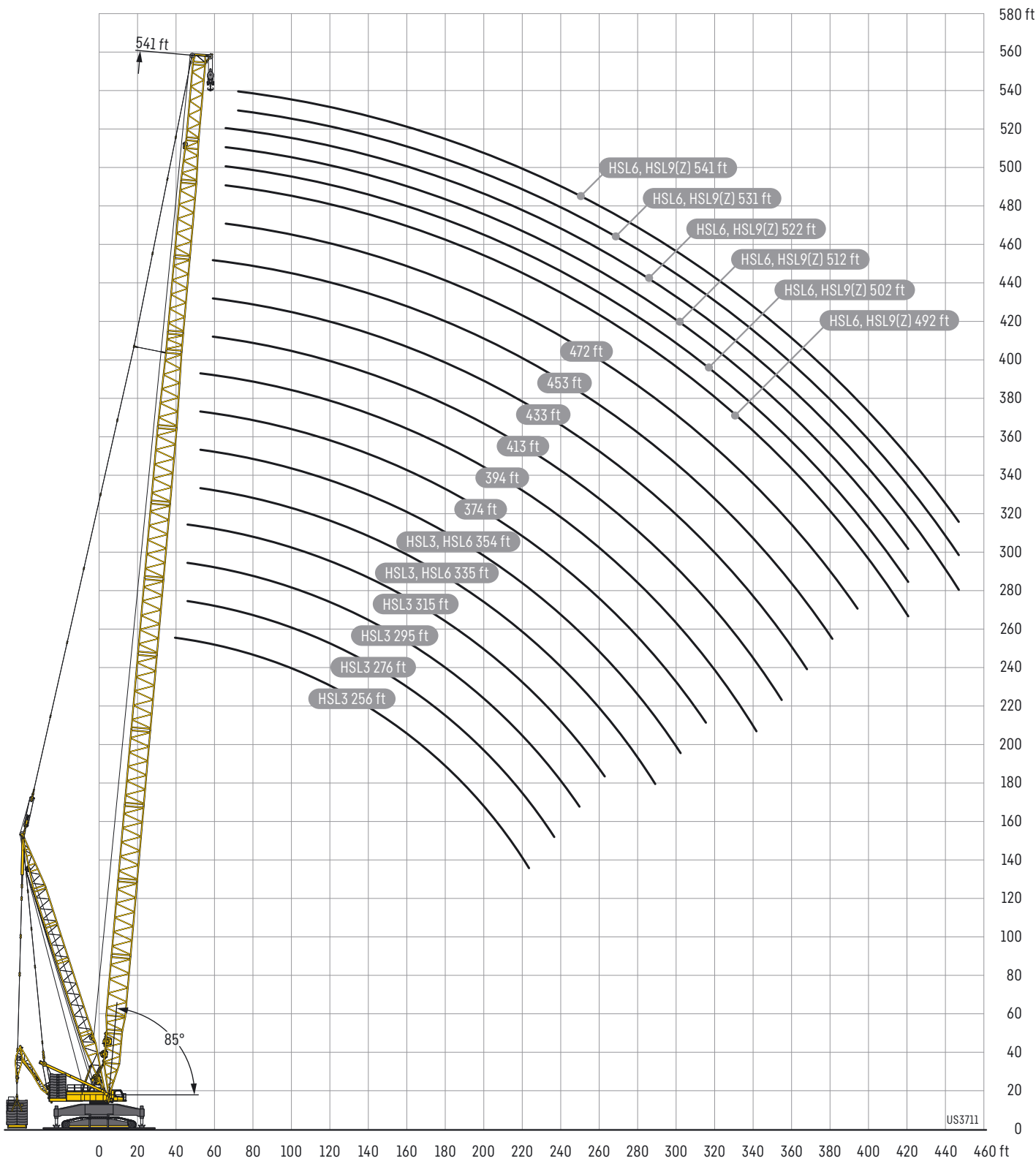


| <div><div></div><div>ft</div></div> |                 | HSL3, HSL6, HSL9(Z) 256 – 541 lb |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
|-------------------------------------|-----------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|
|                                     |                 | 256 ft                           | 266 ft | 276 ft | 285 ft | 295 ft | 305 ft | 315 ft | 325 ft | 335 ft | 344 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 | 492 ft | 502 ft | 512 ft | 522 ft | 531 ft | 541 ft |     |     |
| 40                                  | HSL3            | 848                              | 821    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
| 45                                  | HSL3            | 855                              | 828    | 801    | 774    | 746    | 719    | 691    | 663    | 630    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
| 50                                  | HSL3            | 862                              | 834    | 806    | 779    | 752    | 724    | 695    | 666    | 633    | 605    | 579    | 549    | 519    | 489    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 706    | 684    | 659    | 632    | 604    | 574    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |
| 60                                  | HSL3            | 874                              | 847    | 819    | 791    | 761    | 732    | 703    | 673    | 639    | 610    | 580    | 548    | 520    | 490    | 459    | 429    | 394    | 369    | 347    | 335    | 313    | 301    | 290    | 272    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 706    | 691    | 666    | 634    | 606    | 575    | 546    | 518    | 494    | 467    | 443    | 418    | 395    | 374    |        |        |        |        |        |        |        |        |     |     |
| 70                                  | HSL3            | 876                              | 852    | 817    | 795    | 764    | 736    | 710    | 676    | 644    | 610    | 577    | 544    | 514    | 482    | 450    | 419    | 383    | 365    | 344    | 333    | 310    | 300    | 290    | 270    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 706    | 697    | 668    | 635    | 606    | 575    | 546    | 518    | 493    | 467    | 444    | 419    | 395    | 373    | 356    | 338    | 312    | 300    | 282    | 271    | 259    | 247    |     |     |
| 80                                  | HSL3            | 803                              | 776    | 752    | 727    | 704    | 681    | 662    | 643    | 620    | 597    | 570    | 536    | 504    | 472    | 439    | 409    | 372    | 362    | 343    | 332    | 309    | 299    | 288    | 269    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 688    | 664    | 642    | 618    | 594    | 568    | 543    | 517    | 491    | 462    | 433    | 419    | 373    | 371    | 357    | 339    | 310    | 301    | 280    | 271    | 259    | 247    |     |     |
| 90                                  | HSL3            | 733                              | 711    | 687    | 667    | 648    | 628    | 607    | 588    | 573    | 553    | 536    | 515    | 486    | 453    | 424    | 407    | 368    | 360    | 342    | 331    | 307    | 298    | 288    | 268    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 641    | 616    | 596    | 573    | 554    | 538    | 519    | 498    | 471    | 439    | 410    | 417    | 357    | 369    | 358    | 340    | 310    | 300    | 280    | 271    | 259    | 247    |     |     |
| 100                                 | HSL3            | 670                              | 655    | 634    | 615    | 598    | 581    | 563    | 546    | 531    | 512    | 500    | 483    | 461    | 429    | 403    | 406    | 367    | 359    | 342    | 331    | 307    | 297    | 288    | 267    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 599    | 575    | 559    | 538    | 521    | 503    | 487    | 471    | 447    | 417    | 390    | 411    | 353    | 368    | 358    | 341    | 310    | 300    | 279    | 271    | 259    | 247    |     |     |
| 110                                 | HSL3            | 609                              | 602    | 589    | 574    | 558    | 541    | 526    | 509    | 496    | 479    | 467    | 450    | 438    | 409    | 381    | 404    | 366    | 358    | 342    | 331    | 306    | 296    | 286    | 265    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 563    | 543    | 527    | 506    | 489    | 474    | 457    | 439    | 428    | 413    | 401    | 393    | 378    | 368    | 351    | 346    | 338    | 330    | 327    | 313    | 299    | 284    |     |     |
| 120                                 | HSL3            | 553                              | 548    | 543    | 533    | 520    | 507    | 492    | 480    | 467    | 450    | 438    | 424    | 414    | 388    | 361    | 385    | 362    | 355    | 341    | 330    | 304    | 294    | 284    | 263    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 522    | 508    | 498    | 481    | 464    | 448    | 432    | 416    | 406    | 391    | 381    | 374    | 359    | 349    | 334    | 329    | 321    | 312    | 307    | 297    | 275    | 267    | 255 | 242 |
| 130                                 | HSL3            | 504                              | 503    | 499    | 495    | 486    | 475    | 462    | 450    | 439    | 426    | 415    | 401    | 391    | 369    | 345    | 366    | 352    | 346    | 337    | 326    | 302    | 292    | 283    | 261    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 476    | 470    | 464    | 451    | 440    | 426    | 413    | 402    | 389    | 360    | 336    | 357    | 346    | 342    | 332    | 318    | 314    | 307    | 298    | 296    | 273    | 265    | 253 | 240 |
| 140                                 | HSL3            | 464                              | 461    | 460    | 457    | 453    | 444    | 434    | 422    | 414    | 402    | 392    | 380    | 372    | 354    | 330    | 348    | 337    | 332    | 324    | 315    | 298    | 289    | 280    | 259    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 438    | 432    | 428    | 420    | 411    | 403    | 392    | 378    | 368    | 357    | 349    | 342    | 327    | 317    | 305    | 299    | 293    | 302    | 293    | 284    | 271    | 262    | 251 | 236 |
| 150                                 | HSL3            | 430                              | 426    | 423    | 421    | 421    | 416    | 407    | 398    | 390    | 378    | 371    | 359    | 353    | 338    | 314    | 330    | 322    | 317    | 311    | 302    | 293    | 286    | 275    | 258    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 403    | 398    | 396    | 390    | 384    | 379    | 370    | 359    | 352    | 341    | 333    | 326    | 313    | 304    | 292    | 287    | 281    | 272    | 267    | 257    | 247    | 235    | 221 |     |
| 160                                 | HSL3            | 400                              | 396    | 394    | 391    | 389    | 387    | 383    | 375    | 368    | 358    | 350    | 340    | 334    | 319    | 298    | 315    | 308    | 303    | 297    | 290    | 281    | 276    | 267    | 256    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 374    | 368    | 367    | 360    | 357    | 354    | 349    | 343    | 333    | 308    | 288    | 314    | 306    | 302    | 295    | 287    | 281    | 277    | 263    | 254    | 244    | 228    | 240 |     |
| 170                                 | HSL3            | 371                              | 369    | 367    | 363    | 363    | 360    | 357    | 355    | 348    | 339    | 332    | 323    | 317    | 301    | 284    | 300    | 293    | 289    | 284    | 276    | 268    | 265    | 256    | 247    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 346    | 341    | 341    | 336    | 332    | 328    | 324    | 321    | 313    | 289    | 272    | 299    | 293    | 290    | 283    | 276    | 270    | 266    | 256    | 248    | 240    | 224    | 231 |     |
| 180                                 | HSL3            | 347                              | 344    | 342    | 340    | 340    | 337    | 334    | 332    | 328    | 320    | 314    | 306    | 301    | 283    | 267    | 284    | 278    | 275    | 270    | 264    | 256    | 253    | 246    | 237    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 322    | 318    | 316    | 312    | 309    | 305    | 301    | 298    | 293    | 273    | 257    | 283    | 280    | 276    | 270    | 264    | 259    | 249    | 241    | 239    | 231    | 219    | 221 |     |
| 190                                 | HSL3            | 325                              | 321    | 320    | 317    | 317    | 316    | 313    | 311    | 309    | 304    | 298    | 290    | 284    | 266    | 250    | 270    | 266    | 262    | 258    | 250    | 244    | 241    | 235    | 227    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 301    | 297    | 295    | 291    | 288    | 284    | 282    | 278    | 275    | 257    | 242    | 265    | 263    | 260    | 256    | 251    | 248    | 244    | 236    | 230    | 225    | 213    | 213 |     |
| 200                                 | HSL3            | 304                              | 301    | 299    | 298    | 297    | 295    | 293    | 291    | 291    | 287    | 283    | 275    | 268    | 251    | 233    | 257    | 253    | 250    | 245    | 239    | 233    | 230    | 224    | 217    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 281    | 278    | 276    | 272    | 266    | 263    | 260    | 255    | 254    | 251    | 248    | 246    | 241    | 237    | 231    | 228    | 225    | 220    | 219    | 213    | 212    | 205    | 207 |     |
| 220                                 | HSL3            | 268                              | 265    | 263    | 262    | 261    | 259    | 258    | 256    | 256    | 252    | 252    | 246    | 238    | 218    | 204    | 234    | 231    | 228    | 224    | 218    | 212    | 209    | 204    | 197    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 246    | 243    | 243    | 239    | 237    | 234    | 230    | 228    | 226    | 221    | 218    | 218    | 217    | 216    | 213    | 209    | 209    | 207    | 203    | 199    | 196    | 191    | 191 |     |
| 240                                 | HSL3            |                                  |        | 234    | 232    | 232    | 229    | 228    | 226    | 226    | 223    | 223    | 215    | 208    | 192    | 177    | 212    | 209    | 207    | 204    | 202    | 198    | 193    | 190    | 186    | 178    |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 216    | 213    | 213    | 210    | 209    | 207    | 204    | 202    | 200    | 187    | 175    | 191    | 191    | 189    | 187    | 183    | 183    | 182    | 179    | 175    | 174    | 170    | 164 |     |
| 260                                 | HSL3            |                                  |        |        |        | 205    | 203    | 201    |        | 201    | 198    | 197    | 189    | 182    | 166    | 152    | 189    | 188    | 186    | 184    | 179    | 175    | 173    | 168    | 162    |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 192    | 189    | 188    | 185    | 184    | 182    | 181    | 178    | 178    | 178    | 178    | 178    | 169    | 168    | 165    | 162    | 162    | 160    | 158    | 154    | 152    | 149    | 143 |     |
| 280                                 | HSL3            |                                  |        |        |        |        |        | 180    |        | 180    | 177    | 175    | 160    | 161    | 156    | 141    | 168    | 167    | 165    | 161    | 158    | 157    | 153    | 147    |        |        |        |        |        |        |        |     |     |
|                                     | HSL6<br>HSL9(Z) |                                  |        |        |        |        |        |        |        | 171    | 168    | 167    | 164    | 163    | 161    | 159    | 157    | 154    | 138    | 129    | 150    | 150    | 148    | 146    | 142    | 143    | 141    | 138    | 135    | 134    | 131    | 125 |     |
| 300                                 | HSL3            |                                  |        |        |        |        |        |        |        |        | 153    | 145    | </     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |     |

# Lifting heights

## Hauteurs de levage

# HSL3/6/9(Z)/DBV





138 – 354 ft  
HS



118 ft  
BV



0 lb



330,700 – 418,900 lb



661,400 lb – 826,700 lb



330,700 lb – 659,200 lb



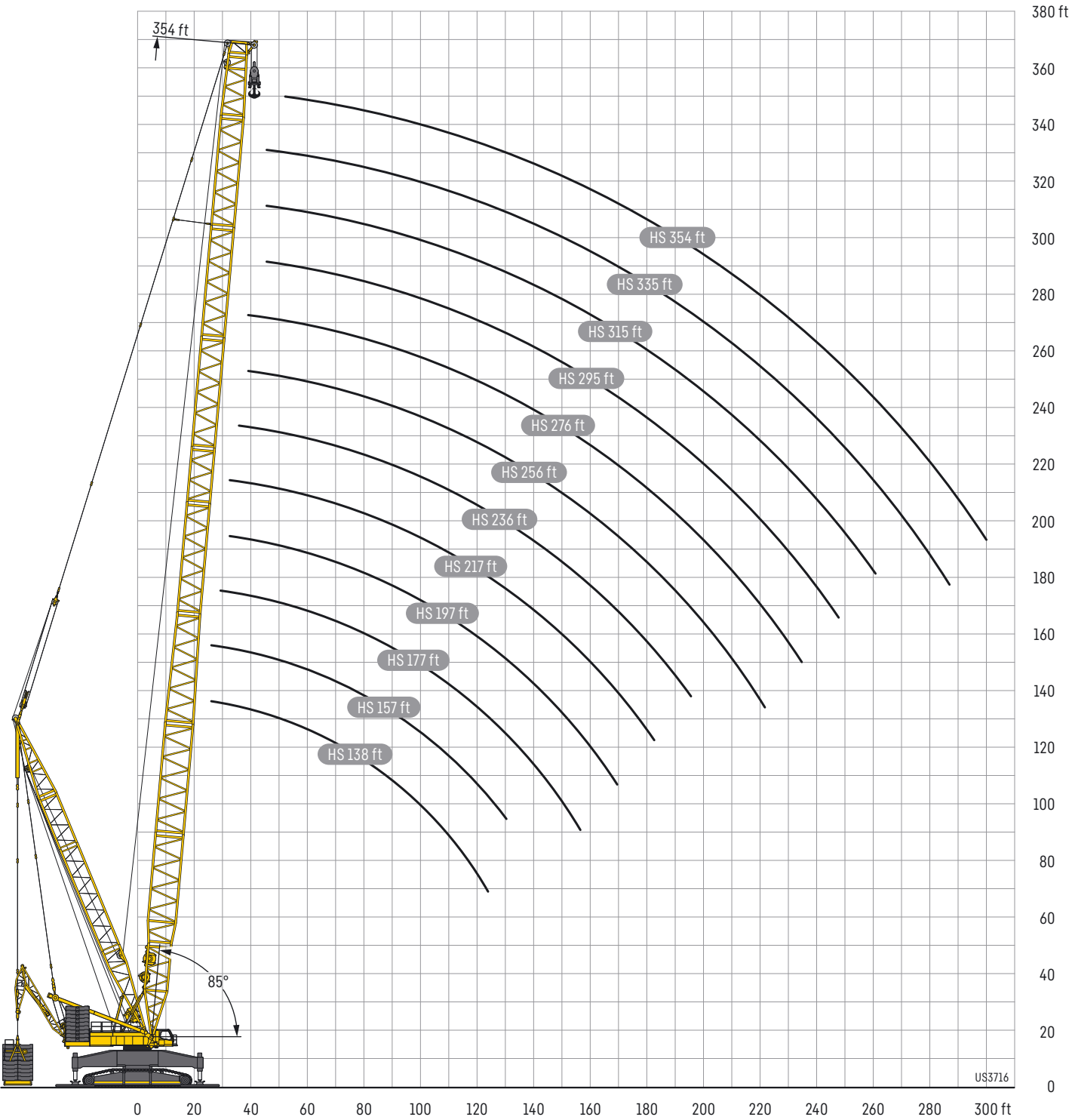
110,200 lb – 328,500 lb  
0 lb

| HS 138 – 354 ft |                              |                   |                   |                    |                    |                    |                    |                    |                    |                    |                    |                    |
|-----------------|------------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| ft              | 138 ft                       | 157 ft            | 177 ft            | 197 ft             | 217 ft             | 236 ft             | 256 ft             | 276 ft             | 295 ft             | 315 ft             | 335 ft             | 354 ft             |
| 26              | Ot 1151<br>B 1322<br>BV 1322 |                   |                   |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| 28              | Ot 1068<br>B 1322<br>BV 1322 | 1059              |                   |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| 30              | Ot 981<br>B 1322<br>BV 1322  | 973               | 963               |                    |                    |                    |                    |                    |                    |                    |                    |                    |
| 32              | Ot 914<br>B 1322<br>BV 1322  | 906               | 899               | 892                |                    |                    |                    |                    |                    |                    |                    |                    |
| 34              | Ot 849<br>B 1322<br>BV 1322  | 847               | 833               | 832                | 810                |                    |                    |                    |                    |                    |                    |                    |
| 36              | Ot 798<br>B 1322<br>BV 1322  | 789               | 784               | 777                | 764                | 736                |                    |                    |                    |                    |                    |                    |
| 38              | Ot 747<br>B 1322<br>BV 1322  | 743               | 732               | 727                | 711                | 690                | 679                |                    |                    |                    |                    |                    |
| 40              | Ot 706<br>B 1322<br>BV 1322  | 698               | 687               | 684                | 672                | 659                | 637                | 622                |                    |                    |                    |                    |
| 45              | Ot 614<br>B 1321<br>BV 1322  | 610               | 600               | 593                | 588                | 574                | 565                | 545                | 532                | 512                |                    |                    |
| 50              | Ot 543<br>B 1251<br>BV 1309  | 537               | 526               | 521                | 516                | 506                | 501                | 490                | 475                | 460                | 445                | 430                |
| 60              | Ot 438<br>B 1080<br>BV 1162  | 430               | 423               | 415                | 413                | 404                | 400                | 398                | 392                | 379                | 366                | 355                |
| 70              | Ot 360<br>B 920<br>BV 993    | 355               | 347               | 342                | 337                | 333                | 331                | 321                | 322                | 315                | 308                | 295                |
| 80              | Ot 304<br>B 801<br>BV 866    | 299               | 290               | 287                | 282                | 279                | 275                | 272                | 267                | 264                | 260                | 252                |
| 90              | Ot 262<br>B 710<br>BV 769    | 255               | 247               | 242                | 239                | 235                | 233                | 230                | 229                | 221                | 219                | 213                |
| 100             | Ot 227<br>B 635<br>BV 688    | 222               | 212               | 208                | 204                | 200                | 200                | 196                | 195                | 190                | 184                | 181                |
| 110             | Ot 200<br>B 572<br>BV 617    | 194               | 185               | 179                | 176                | 172                | 171                | 168                | 168                | 164                | 160                | 154                |
| 120             | Ot 177<br>B 497<br>BV 538    | 171               | 162               | 156                | 152                | 149                | 147                | 144                | 144                | 140                | 138                | 134                |
| 130             | Ot<br>B<br>BV                | 152<br>472<br>513 | 143<br>464<br>505 | 138<br>459<br>500  | 134<br>455<br>495  | 128<br>449<br>490  | 127<br>447<br>487  | 124<br>444<br>484  | 124<br>443<br>482  | 121<br>439<br>479  | 118<br>434<br>464  | 115<br>429<br>442  |
| 140             | Ot<br>B<br>BV                | 136<br>422<br>458 | 126<br>427<br>465 | 121<br>422<br>461  | 117<br>419<br>456  | 112<br>413<br>450  | 110<br>410<br>447  | 108<br>408<br>445  | 107<br>406<br>442  | 103<br>402<br>439  | 101<br>399<br>433  | 97.6<br>394<br>415 |
| 150             | Ot<br>B<br>BV                |                   | 113<br>395<br>431 | 107<br>389<br>425  | 103<br>386<br>420  | 98<br>381<br>416   | 96.2<br>379<br>414 | 92.4<br>374<br>409 | 92.2<br>374<br>408 | 88.4<br>369<br>404 | 86.2<br>367<br>401 | 83.1<br>363<br>392 |
| 160             | Ot<br>B<br>BV                |                   |                   | 94.6<br>361<br>394 | 90<br>356<br>389   | 85.5<br>352<br>386 | 83.8<br>351<br>384 | 80.4<br>347<br>380 | 79.2<br>345<br>376 | 75.9<br>342<br>375 | 73.5<br>339<br>372 | 70.1<br>335<br>366 |
| 170             | Ot<br>B<br>BV                |                   |                   | 84.5<br>336<br>368 | 79.8<br>332<br>363 | 74.7<br>327<br>359 | 72.4<br>325<br>356 | 69.4<br>322<br>353 | 68.3<br>320<br>350 | 64.1<br>316<br>346 | 61.8<br>313<br>344 | 58.9<br>310<br>341 |
| 180             | Ot<br>B<br>BV                |                   |                   |                    | 70.5<br>310<br>339 | 65.3<br>305<br>335 | 62.9<br>303<br>332 | 59.5<br>299<br>329 | 59<br>299<br>328   | 54.7<br>294<br>324 | 51.7<br>290<br>320 | 48.3<br>287<br>316 |
| 190             | Ot<br>B<br>BV                |                   |                   |                    | 62.7<br>290<br>319 | 56.9<br>285<br>314 | 54.4<br>283<br>311 | 50.8<br>279<br>308 | 49.8<br>278<br>305 | 46.1<br>275<br>303 | 43.2<br>271<br>299 | 39.3<br>267<br>294 |
| 200             | Ot<br>B<br>BV                |                   |                   |                    |                    | 49.8<br>268<br>295 | 47.1<br>265<br>292 | 43<br>261<br>288   | 42.1<br>260<br>286 | 38.1<br>256<br>283 | 35.7<br>253<br>280 | 31.8<br>249<br>276 |
| 220             | Ot<br>B<br>BV                |                   |                   |                    |                    |                    | 34.4<br>234<br>259 | 30.2<br>230<br>254 | 29.3<br>229<br>253 | 25.8<br>225<br>249 | 23.5<br>222<br>247 | 20.5<br>219<br>243 |
| 240             | Ot<br>B<br>BV                |                   |                   |                    |                    |                    |                    | 21.9<br>203<br>227 | 20.4<br>202<br>225 | 16.7<br>198<br>221 | 14.3<br>196<br>218 | 11.3<br>192<br>215 |
| 260             | Ot<br>B<br>BV                |                   |                   |                    |                    |                    |                    |                    |                    | 176<br>198         | 173<br>195         | 169<br>191         |
| 280             | Ot<br>B<br>BV                |                   |                   |                    |                    |                    |                    |                    |                    |                    | 153<br>175         | 149<br>170         |
| 300             | Ot<br>B<br>BV                |                   |                   |                    |                    |                    |                    |                    |                    |                    |                    | 133<br>153         |

# Lifting heights

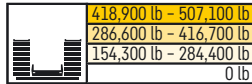
## Hauteurs de levage

HSDB/BV



## S2W

## S2 118 – 138



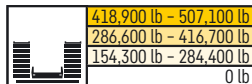
max. 149,900 lb



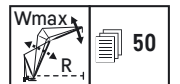
|  ft | S2 118 ft           |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |  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                |     |
| 38                                                                                  | 552.0 <sup>A)</sup> | 552.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 38                  |     |
| 40                                                                                  | 702.0 <sup>A)</sup> | 702.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 40                  |     |
| 45                                                                                  | 623.0 <sup>A)</sup> | 623.0 <sup>A)</sup> | 616.0 <sup>A)</sup> | 616.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 45                  |     |
| 50                                                                                  | 551.0 <sup>A)</sup> | 552.0 <sup>B)</sup> | 546.0 <sup>A)</sup> | 546.0 <sup>A)</sup> | 535.0 <sup>A)</sup> | 535.0 <sup>B)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 50                  |     |
| 60                                                                                  | 442.0 <sup>A)</sup> | 442.0 <sup>A)</sup> | 443.0 <sup>A)</sup> | 443.0 <sup>A)</sup> | 437.0 <sup>A)</sup> | 437.0 <sup>A)</sup> | 427.0 <sup>A)</sup> | 427.0 <sup>A)</sup> | 420.0 <sup>A)</sup> | 420.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 60                  |     |
| 70                                                                                  | 366.0 <sup>A)</sup> | 366.0 <sup>A)</sup> | 366.0 <sup>A)</sup> | 366.0 <sup>A)</sup> | 365.0 <sup>A)</sup> | 365.0 <sup>A)</sup> | 360.0 <sup>A)</sup> | 360.0 <sup>A)</sup> | 354.0 <sup>A)</sup> | 354.0 <sup>A)</sup> | 343.0 <sup>A)</sup> | 343.0 <sup>B)</sup> | 329.0 <sup>A)</sup> | 329.0 <sup>A)</sup> |                     |                     |                     |                     |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 70                  |     |
| 80                                                                                  | 310.0 <sup>A)</sup> | 310.0 <sup>A)</sup> | 309.0 <sup>A)</sup> | 309.0 <sup>A)</sup> | 309.0 <sup>A)</sup> | 309.0 <sup>A)</sup> | 308.0 <sup>A)</sup> | 308.0 <sup>A)</sup> | 304.0 <sup>A)</sup> | 304.0 <sup>A)</sup> | 296.0 <sup>A)</sup> | 296.0 <sup>A)</sup> | 291.0 <sup>A)</sup> | 291.0 <sup>A)</sup> | 280.0 <sup>A)</sup> | 280.0 <sup>A)</sup> | 250.0 <sup>A)</sup> | 250.0 <sup>A)</sup> |                                                                                        |                     |                     |                     |                     |                     |                     |                     | 80                  |     |
| 90                                                                                  | 266.0 <sup>A)</sup> | 266.0 <sup>A)</sup> | 266.0 <sup>A)</sup> | 266.0 <sup>A)</sup> | 266.0 <sup>A)</sup> | 266.0 <sup>A)</sup> | 265.0 <sup>A)</sup> | 265.0 <sup>A)</sup> | 264.0 <sup>A)</sup> | 264.0 <sup>A)</sup> | 258.0 <sup>A)</sup> | 258.0 <sup>A)</sup> | 255.0 <sup>A)</sup> | 255.0 <sup>A)</sup> | 249.0 <sup>A)</sup> | 249.0 <sup>A)</sup> | 240.0 <sup>A)</sup> | 240.0 <sup>A)</sup> | 213.0 <sup>A)</sup>                                                                    | 213.0 <sup>A)</sup> | 184.0 <sup>A)</sup> | 184.0 <sup>A)</sup> |                     |                     |                     |                     | 90                  |     |
| 100                                                                                 |                     | 226.0 <sup>B)</sup> | 233.0 <sup>A)</sup> | 233.0 <sup>A)</sup> | 233.0 <sup>A)</sup> | 233.0 <sup>A)</sup> | 231.0 <sup>A)</sup> | 231.0 <sup>A)</sup> | 231.0 <sup>A)</sup> | 231.0 <sup>A)</sup> | 227.0 <sup>A)</sup> | 227.0 <sup>A)</sup> | 224.0 <sup>A)</sup> | 224.0 <sup>A)</sup> | 221.0 <sup>A)</sup> | 221.0 <sup>A)</sup> | 215.0 <sup>A)</sup> | 215.0 <sup>A)</sup> | 204.0 <sup>A)</sup>                                                                    | 204.0 <sup>A)</sup> | 182.0 <sup>B)</sup> | 182.0 <sup>B)</sup> | 156.0 <sup>A)</sup> | 157.0 <sup>B)</sup> | 134.0 <sup>A)</sup> | 134.0 <sup>A)</sup> | 100                 |     |
| 110                                                                                 |                     | 196.0 <sup>A)</sup> | 206.0 <sup>A)</sup> | 206.0 <sup>A)</sup> | 206.0 <sup>A)</sup> | 206.0 <sup>A)</sup> | 204.0 <sup>A)</sup> | 204.0 <sup>A)</sup> | 203.0 <sup>A)</sup> | 203.0 <sup>B)</sup> | 201.0 <sup>A)</sup> | 201.0 <sup>A)</sup> | 200.0 <sup>A)</sup> | 200.0 <sup>A)</sup> | 196.0 <sup>A)</sup> | 196.0 <sup>A)</sup> | 192.0 <sup>A)</sup> | 192.0 <sup>A)</sup> | 188.0 <sup>A)</sup>                                                                    | 188.0 <sup>A)</sup> | 177.0 <sup>A)</sup> | 177.0 <sup>A)</sup> | 155.0 <sup>B)</sup> | 155.0 <sup>B)</sup> | 132.0 <sup>A)</sup> | 132.0 <sup>B)</sup> | 110                 |     |
| 120                                                                                 |                     | 174.0 <sup>B)</sup> |                     | 175.0 <sup>B)</sup> | 184.0 <sup>A)</sup> | 184.0 <sup>A)</sup> | 182.0 <sup>A)</sup> | 182.0 <sup>A)</sup> | 181.0 <sup>A)</sup> | 181.0 <sup>A)</sup> | 178.0 <sup>A)</sup> | 178.0 <sup>A)</sup> | 177.0 <sup>A)</sup> | 177.0 <sup>A)</sup> | 176.0 <sup>A)</sup> | 176.0 <sup>A)</sup> | 172.0 <sup>A)</sup> | 172.0 <sup>A)</sup> | 169.0 <sup>A)</sup>                                                                    | 169.0 <sup>A)</sup> | 163.0 <sup>A)</sup> | 163.0 <sup>A)</sup> | 151.0 <sup>B)</sup> | 151.0 <sup>B)</sup> | 130.0 <sup>B)</sup> | 130.0 <sup>B)</sup> | 120                 |     |
| 130                                                                                 |                     | 154.0 <sup>B)</sup> |                     | 155.0 <sup>A)</sup> | 164.0 <sup>A)</sup> | 164.0 <sup>A)</sup> | 163.0 <sup>A)</sup> | 163.0 <sup>A)</sup> | 162.0 <sup>A)</sup> | 162.0 <sup>A)</sup> | 160.0 <sup>A)</sup> | 160.0 <sup>A)</sup> | 158.0 <sup>A)</sup> | 158.0 <sup>A)</sup> | 157.0 <sup>A)</sup> | 157.0 <sup>A)</sup> | 154.0 <sup>A)</sup> | 154.0 <sup>A)</sup> | 152.0 <sup>A)</sup>                                                                    | 152.0 <sup>A)</sup> | 146.0 <sup>A)</sup> | 146.0 <sup>A)</sup> | 139.0 <sup>A)</sup> | 139.0 <sup>A)</sup> | 126.0 <sup>B)</sup> | 126.0 <sup>B)</sup> | 130                 |     |
| 140                                                                                 |                     | 133.0 <sup>B)</sup> |                     | 139.0 <sup>B)</sup> |                     |                     | 140.0 <sup>B)</sup> | 147.0 <sup>A)</sup> | 146.0 <sup>A)</sup> | 146.0 <sup>A)</sup> | 143.0 <sup>A)</sup> | 143.0 <sup>A)</sup> | 142.0 <sup>A)</sup> | 142.0 <sup>A)</sup> | 141.0 <sup>A)</sup> | 141.0 <sup>A)</sup> | 139.0 <sup>A)</sup> | 139.0 <sup>A)</sup> | 137.0 <sup>A)</sup>                                                                    | 137.0 <sup>A)</sup> | 133.0 <sup>A)</sup> | 133.0 <sup>A)</sup> | 129.0 <sup>A)</sup> | 129.0 <sup>A)</sup> | 120.0 <sup>B)</sup> | 120.0 <sup>B)</sup> | 140                 |     |
| 150                                                                                 |                     | 115.0 <sup>B)</sup> |                     | 124.0 <sup>B)</sup> |                     |                     | 125.0 <sup>A)</sup> | 133.0 <sup>A)</sup> | 133.0 <sup>A)</sup> | 132.0 <sup>A)</sup> | 132.0 <sup>A)</sup> | 129.0 <sup>A)</sup> | 129.0 <sup>A)</sup> | 129.0 <sup>A)</sup> | 127.0 <sup>A)</sup> | 127.0 <sup>A)</sup> | 125.0 <sup>A)</sup> | 125.0 <sup>A)</sup> | 124.0 <sup>A)</sup>                                                                    | 124.0 <sup>A)</sup> | 120.0 <sup>A)</sup> | 120.0 <sup>A)</sup> | 117.0 <sup>A)</sup> | 117.0 <sup>A)</sup> | 112.0 <sup>A)</sup> | 112.0 <sup>A)</sup> | 150                 |     |
| 160                                                                                 |                     | 99.0 <sup>B)</sup>  |                     | 108.0 <sup>B)</sup> |                     |                     | 114.0 <sup>B)</sup> |                     | 113.0 <sup>B)</sup> | 120.0 <sup>A)</sup> | 120.0 <sup>A)</sup> | 117.0 <sup>A)</sup> | 117.0 <sup>A)</sup> | 116.0 <sup>A)</sup> | 116.0 <sup>A)</sup> | 115.0 <sup>A)</sup> | 115.0 <sup>A)</sup> | 113.0 <sup>A)</sup> | 113.0 <sup>A)</sup>                                                                    | 112.0 <sup>A)</sup> | 112.0 <sup>A)</sup> | 108.0 <sup>A)</sup> | 108.0 <sup>A)</sup> | 106.0 <sup>A)</sup> | 106.0 <sup>A)</sup> | 102.0 <sup>A)</sup> | 102.0 <sup>A)</sup> | 160 |
| 170                                                                                 |                     | 84.8 <sup>B)</sup>  |                     | 93.0 <sup>B)</sup>  |                     |                     | 102.0 <sup>B)</sup> |                     | 102.0 <sup>B)</sup> | 110.0 <sup>A)</sup> | 110.0 <sup>A)</sup> | 107.0 <sup>A)</sup> | 107.0 <sup>A)</sup> | 106.0 <sup>A)</sup> | 106.0 <sup>A)</sup> | 104.0 <sup>A)</sup> | 104.0 <sup>A)</sup> | 102.0 <sup>A)</sup> | 102.0 <sup>A)</sup>                                                                    | 101.0 <sup>A)</sup> | 101.0 <sup>A)</sup> | 97.7 <sup>A)</sup>  | 97.7 <sup>A)</sup>  | 95.5 <sup>A)</sup>  | 95.5 <sup>A)</sup>  | 92.2 <sup>A)</sup>  | 92.2 <sup>A)</sup>  | 170 |
| 180                                                                                 |                     |                     |                     | 79.8 <sup>B)</sup>  |                     |                     | 89.0 <sup>B)</sup>  |                     | 92.9 <sup>B)</sup>  | 92.2 <sup>B)</sup>  | 97.5 <sup>A)</sup>  | 97.5 <sup>A)</sup>  | 96.5 <sup>A)</sup>  | 96.5 <sup>A)</sup>  | 94.4 <sup>A)</sup>  | 94.4 <sup>A)</sup>  | 92.4 <sup>A)</sup>  | 92.4 <sup>A)</sup>  | 91.3 <sup>A)</sup>                                                                     | 91.3 <sup>A)</sup>  | 87.9 <sup>A)</sup>  | 87.9 <sup>A)</sup>  | 86.0 <sup>A)</sup>  | 86.0 <sup>A)</sup>  | 83.0 <sup>A)</sup>  | 83.0 <sup>A)</sup>  | 180                 |     |
| 190                                                                                 |                     |                     |                     | 67.8 <sup>B)</sup>  |                     |                     | 76.5 <sup>B)</sup>  |                     | 83.6 <sup>B)</sup>  | 83.6 <sup>B)</sup>  | 89.5 <sup>A)</sup>  | 89.5 <sup>A)</sup>  | 88.3 <sup>A)</sup>  | 88.3 <sup>A)</sup>  | 86.2 <sup>A)</sup>  | 86.2 <sup>A)</sup>  | 84.1 <sup>A)</sup>  | 84.1 <sup>A)</sup>  | 82.8 <sup>A)</sup>                                                                     | 82.8 <sup>A)</sup>  | 79.6 <sup>A)</sup>  | 79.6 <sup>A)</sup>  | 77.3 <sup>A)</sup>  | 77.3 <sup>A)</sup>  | 74.3 <sup>A)</sup>  | 74.3 <sup>A)</sup>  | 190                 |     |
| 200                                                                                 |                     |                     |                     |                     |                     |                     | 65.0 <sup>B)</sup>  |                     | 72.4 <sup>B)</sup>  | 76.6 <sup>B)</sup>  | 74.5 <sup>B)</sup>  | 74.5 <sup>B)</sup>  | 80.9 <sup>A)</sup>  | 80.9 <sup>A)</sup>  | 78.7 <sup>A)</sup>  | 78.7 <sup>A)</sup>  | 76.6 <sup>A)</sup>  | 76.6 <sup>A)</sup>  | 75.1 <sup>A)</sup>                                                                     | 75.1 <sup>A)</sup>  | 71.8 <sup>A)</sup>  | 71.8 <sup>A)</sup>  | 69.6 <sup>A)</sup>  | 69.6 <sup>A)</sup>  | 66.5 <sup>A)</sup>  | 66.5 <sup>A)</sup>  | 200                 |     |
| 220                                                                                 |                     |                     |                     |                     |                     |                     | 51.4 <sup>B)</sup>  |                     | 59.7 <sup>B)</sup>  | 61.5 <sup>B)</sup>  | 61.5 <sup>B)</sup>  | 61.5 <sup>B)</sup>  | 66.0 <sup>A)</sup>  | 66.0 <sup>A)</sup>  | 63.9 <sup>A)</sup>  | 63.9 <sup>A)</sup>  | 62.2 <sup>A)</sup>  | 62.2 <sup>A)</sup>  | 58.9 <sup>A)</sup>                                                                     | 58.9 <sup>A)</sup>  | 56.6 <sup>A)</sup>  | 56.6 <sup>A)</sup>  | 53.2 <sup>A)</sup>  | 53.2 <sup>A)</sup>  | 53.2 <sup>A)</sup>  | 53.2 <sup>A)</sup>  | 220                 |     |
| 240                                                                                 |                     |                     |                     |                     |                     |                     |                     |                     | 41.2 <sup>B)</sup>  | 46.9 <sup>B)</sup>  | 46.9 <sup>B)</sup>  | 50.2 <sup>B)</sup>  | 50.2 <sup>B)</sup>  | 48.7 <sup>B)</sup>  | 53.5 <sup>A)</sup>  | 53.5 <sup>A)</sup>  | 51.6 <sup>A)</sup>  | 51.6 <sup>A)</sup>  | 48.2 <sup>A)</sup>                                                                     | 48.2 <sup>A)</sup>  | 46.0 <sup>A)</sup>  | 46.0 <sup>A)</sup>  | 42.8 <sup>A)</sup>  | 42.8 <sup>A)</sup>  | 42.8 <sup>A)</sup>  | 42.8 <sup>A)</sup>  | 240                 |     |
| 260                                                                                 |                     |                     |                     |                     |                     |                     |                     |                     |                     | 30.7 <sup>B)</sup>  | 30.7 <sup>B)</sup>  | 37.2 <sup>B)</sup>  | 37.2 <sup>B)</sup>  | 39.1 <sup>B)</sup>  | 38.3 <sup>B)</sup>  | 38.3 <sup>B)</sup>  | 42.7 <sup>A)</sup>  | 42.7 <sup>A)</sup>  | 39.4 <sup>A)</sup>                                                                     | 39.4 <sup>A)</sup>  | 37.3 <sup>A)</sup>  | 37.3 <sup>A)</sup>  | 34.0 <sup>A)</sup>  | 34.0 <sup>A)</sup>  | 34.0 <sup>A)</sup>  | 34.0 <sup>A)</sup>  | 260                 |     |
| 280                                                                                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 23.9 <sup>B)</sup>  | 23.9 <sup>B)</sup>  | 27.9 <sup>B)</sup>  | 27.9 <sup>B)</sup>  | 30.2 <sup>A)</sup>  | 30.2 <sup>A)</sup>  | 29.4 <sup>B)</sup>                                                                     | 29.4 <sup>B)</sup>  | 32.0 <sup>A)</sup>  | 32.0 <sup>A)</sup>  | 27.5 <sup>A)</sup>  | 27.5 <sup>A)</sup>  | 27.5 <sup>A)</sup>  | 27.5 <sup>A)</sup>  | 280                 |     |
| 300                                                                                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 17.0 <sup>B)</sup>  | 17.0 <sup>B)</sup>  | 21.3 <sup>B)</sup>  | 21.3 <sup>B)</sup>  | 23.2 <sup>B)</sup>  | 23.2 <sup>B)</sup>                                                                     | 21.6 <sup>B)</sup>  | 21.6 <sup>B)</sup>  | 24.7 <sup>A)</sup>  | 24.7 <sup>A)</sup>  | 22.2 <sup>A)</sup>  | 22.2 <sup>A)</sup>  | 300                 |                     |     |
| 320                                                                                 |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 15.1 <sup>B)</sup>                                                                     | 15.1 <sup>B)</sup>  | 16.2 <sup>B)</sup>  | 16.2 <sup>B)</sup>  | 15.7 <sup>B)</sup>  | 15.7 <sup>B)</sup>  | 17.7 <sup>A)</sup>  | 17.7 <sup>A)</sup>  | 320                 |     |

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

A) 87° B) 85° C) 80° D) 75° E) 65° F) 55° G) 45°



max. 149,900 lb



|  ft | S2 138 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                 |     |
| 40                                                                                    | 698.0 <sup>(A)</sup> | 698.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                                                                                          |                      | 40                   |     |
| 45                                                                                    | 617.0 <sup>(A)</sup> | 617.0 <sup>(A)</sup> | 602.0 <sup>(A)</sup> | 602.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                                                                                          |                      | 45                   |     |
| 50                                                                                    | 549.0 <sup>(A)</sup> | 549.0 <sup>(A)</sup> | 535.0 <sup>(A)</sup> | 536.0 <sup>(B)</sup> | 523.0 <sup>(A)</sup> | 523.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                                                                                          |                      | 50                   |     |
| 60                                                                                    | 440.0 <sup>(A)</sup> | 440.0 <sup>(A)</sup> | 435.0 <sup>(A)</sup> | 435.0 <sup>(A)</sup> | 429.0 <sup>(A)</sup> | 429.0 <sup>(A)</sup> | 419.0 <sup>(A)</sup> | 419.0 <sup>(A)</sup> | 405.0 <sup>(A)</sup> | 405.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                                                                                          |                      | 60                   |     |
| 70                                                                                    | 364.0 <sup>(A)</sup> | 364.0 <sup>(A)</sup> | 363.0 <sup>(A)</sup> | 363.0 <sup>(A)</sup> | 361.0 <sup>(A)</sup> | 361.0 <sup>(A)</sup> | 354.0 <sup>(A)</sup> | 354.0 <sup>(A)</sup> | 348.0 <sup>(A)</sup> | 348.0 <sup>(A)</sup> | 336.0 <sup>(A)</sup> | 336.0 <sup>(A)</sup> | 311.0 <sup>(A)</sup> | 311.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                                                                                          |                      | 70                   |     |
| 80                                                                                    | 308.0 <sup>(A)</sup> | 308.0 <sup>(A)</sup> | 307.0 <sup>(A)</sup> | 307.0 <sup>(A)</sup> | 307.0 <sup>(A)</sup> | 307.0 <sup>(A)</sup> | 304.0 <sup>(A)</sup> | 304.0 <sup>(A)</sup> | 299.0 <sup>(A)</sup> | 299.0 <sup>(A)</sup> | 294.0 <sup>(A)</sup> | 294.0 <sup>(A)</sup> | 285.0 <sup>(A)</sup> | 285.0 <sup>(A)</sup> | 266.0 <sup>(A)</sup> | 266.0 <sup>(A)</sup> | 237.0 <sup>(A)</sup> | 237.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                                                                                          |                      | 80                   |     |
| 90                                                                                    | 265.0 <sup>(A)</sup> | 265.0 <sup>(A)</sup> | 264.0 <sup>(A)</sup> | 264.0 <sup>(A)</sup> | 264.0 <sup>(A)</sup> | 264.0 <sup>(A)</sup> | 263.0 <sup>(A)</sup> | 263.0 <sup>(A)</sup> | 261.0 <sup>(A)</sup> | 261.0 <sup>(A)</sup> | 256.0 <sup>(A)</sup> | 256.0 <sup>(A)</sup> | 250.0 <sup>(A)</sup> | 250.0 <sup>(A)</sup> | 244.0 <sup>(A)</sup> | 244.0 <sup>(A)</sup> | 227.0 <sup>(A)</sup> | 227.0 <sup>(A)</sup> | 202.0 <sup>(A)</sup> | 202.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> |                      |                      |                                                                                          |                      | 90                   |     |
| 100                                                                                   |                      | 225.0 <sup>(B)</sup> | 231.0 <sup>(A)</sup> | 231.0 <sup>(A)</sup> | 231.0 <sup>(A)</sup> | 231.0 <sup>(A)</sup> | 229.0 <sup>(A)</sup> | 229.0 <sup>(A)</sup> | 229.0 <sup>(A)</sup> | 229.0 <sup>(A)</sup> | 226.0 <sup>(A)</sup> | 226.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup> | 210.0 <sup>(A)</sup> | 210.0 <sup>(A)</sup> | 196.0 <sup>(A)</sup> | 196.0 <sup>(A)</sup> | 172.0 <sup>(A)</sup> | 172.0 <sup>(A)</sup> | 150.0 <sup>(A)</sup> | 150.0 <sup>(A)</sup> | 129.0 <sup>(A)</sup>                                                                     | 129.0 <sup>(A)</sup> | 100                  |     |
| 110                                                                                   |                      | 191.0 <sup>(B)</sup> | 204.0 <sup>(A)</sup> | 204.0 <sup>(A)</sup> | 204.0 <sup>(A)</sup> | 204.0 <sup>(A)</sup> | 202.0 <sup>(A)</sup> | 202.0 <sup>(A)</sup> | 202.0 <sup>(A)</sup> | 202.0 <sup>(A)</sup> | 201.0 <sup>(A)</sup> | 201.0 <sup>(A)</sup> | 197.0 <sup>(A)</sup> | 197.0 <sup>(A)</sup> | 193.0 <sup>(A)</sup> | 193.0 <sup>(A)</sup> | 188.0 <sup>(A)</sup> | 188.0 <sup>(A)</sup> | 185.0 <sup>(A)</sup> | 185.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup>                                                                     | 126.0 <sup>(A)</sup> | 110                  |     |
| 120                                                                                   |                      | 169.0 <sup>(B)</sup> |                      |                      | 174.0 <sup>(B)</sup> | 182.0 <sup>(A)</sup> | 182.0 <sup>(B)</sup> | 180.0 <sup>(A)</sup> | 180.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup> | 178.0 <sup>(A)</sup> | 178.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 173.0 <sup>(A)</sup> | 173.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 169.0 <sup>(B)</sup> | 166.0 <sup>(A)</sup> | 166.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup> | 145.0 <sup>(B)</sup> | 145.0 <sup>(B)</sup>                                                                     | 125.0 <sup>(B)</sup> | 125.0 <sup>(B)</sup> | 120 |
| 130                                                                                   |                      | 150.0 <sup>(B)</sup> |                      |                      | 149.0 <sup>(B)</sup> | 163.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 162.0 <sup>(A)</sup> | 162.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup> | 159.0 <sup>(A)</sup> | 159.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup> | 152.0 <sup>(A)</sup> | 152.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup>                                                                     | 122.0 <sup>(B)</sup> | 122.0 <sup>(B)</sup> | 130 |
| 140                                                                                   |                      | 132.0 <sup>(B)</sup> |                      |                      | 133.0 <sup>(B)</sup> |                      | 139.0 <sup>(B)</sup> | 145.0 <sup>(A)</sup> | 145.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 141.0 <sup>(A)</sup> | 141.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup> | 137.0 <sup>(A)</sup> | 137.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 131.0 <sup>(A)</sup> | 131.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup>                                                                     | 116.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> | 140 |
| 150                                                                                   |                      | 113.0 <sup>(B)</sup> |                      |                      | 120.0 <sup>(B)</sup> |                      | 121.0 <sup>(B)</sup> | 131.0 <sup>(A)</sup> | 131.0 <sup>(A)</sup> | 131.0 <sup>(A)</sup> | 131.0 <sup>(A)</sup> | 129.0 <sup>(A)</sup> | 129.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 123.0 <sup>(A)</sup> | 123.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 118.0 <sup>(A)</sup> | 118.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup>                                                                     | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 150 |
| 160                                                                                   |                      | 97.2 <sup>(B)</sup>  |                      |                      | 106.0 <sup>(B)</sup> |                      | 108.0 <sup>(B)</sup> |                      | 112.0 <sup>(B)</sup> | 119.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 114.0 <sup>(A)</sup> | 114.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup>                                                                     | 99.9 <sup>(A)</sup>  | 99.9 <sup>(A)</sup>  | 160 |
| 170                                                                                   |                      | 82.8 <sup>(B)</sup>  |                      |                      | 91.0 <sup>(B)</sup>  |                      | 98.3 <sup>(B)</sup>  |                      | 98.3 <sup>(B)</sup>  | 108.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup> | 99.5 <sup>(A)</sup>  | 99.5 <sup>(A)</sup>  | 96.2 <sup>(A)</sup>  | 96.2 <sup>(A)</sup>  | 93.8 <sup>(A)</sup>  | 93.8 <sup>(A)</sup>                                                                      | 90.2 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 170 |
| 180                                                                                   |                      | 70.4 <sup>(A)</sup>  |                      |                      | 77.5 <sup>(B)</sup>  |                      | 86.8 <sup>(B)</sup>  |                      | 87.9 <sup>(B)</sup>  |                      | 90.9 <sup>(B)</sup>  | 97.6 <sup>(A)</sup>  | 97.6 <sup>(A)</sup>  | 95.3 <sup>(A)</sup>  | 95.3 <sup>(A)</sup>  | 93.1 <sup>(A)</sup>  | 93.1 <sup>(A)</sup>  | 91.2 <sup>(A)</sup>  | 91.2 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 87.0 <sup>(A)</sup>  | 87.0 <sup>(A)</sup>  | 84.6 <sup>(A)</sup>  | 84.6 <sup>(A)</sup>                                                                      | 81.3 <sup>(A)</sup>  | 81.3 <sup>(A)</sup>  | 180 |
| 190                                                                                   |                      |                      |                      |                      | 65.6 <sup>(B)</sup>  |                      | 74.5 <sup>(B)</sup>  |                      | 80.0 <sup>(B)</sup>  |                      | 80.6 <sup>(B)</sup>  | 89.2 <sup>(A)</sup>  | 89.2 <sup>(A)</sup>  | 87.1 <sup>(A)</sup>  | 87.1 <sup>(A)</sup>  | 84.9 <sup>(A)</sup>  | 84.9 <sup>(A)</sup>  | 82.8 <sup>(A)</sup>  | 82.8 <sup>(A)</sup>  | 81.7 <sup>(A)</sup>  | 81.7 <sup>(A)</sup>  | 78.4 <sup>(A)</sup>  | 78.4 <sup>(A)</sup>  | 76.1 <sup>(A)</sup>  | 76.1 <sup>(A)</sup>                                                                      | 73.1 <sup>(A)</sup>  | 73.1 <sup>(A)</sup>  | 190 |
| 200                                                                                   |                      |                      |                      |                      | 55.0 <sup>(A)</sup>  |                      | 63.0 <sup>(B)</sup>  |                      | 70.3 <sup>(B)</sup>  |                      | 72.2 <sup>(B)</sup>  |                      | 73.7 <sup>(B)</sup>  | 79.7 <sup>(A)</sup>  | 79.7 <sup>(A)</sup>  | 77.8 <sup>(A)</sup>  | 77.8 <sup>(A)</sup>  | 75.4 <sup>(A)</sup>  | 75.4 <sup>(A)</sup>  | 73.9 <sup>(A)</sup>  | 74.0 <sup>(B)</sup>  | 70.8 <sup>(A)</sup>  | 70.8 <sup>(A)</sup>  | 68.7 <sup>(A)</sup>  | 68.7 <sup>(A)</sup>                                                                      | 65.3 <sup>(A)</sup>  | 65.3 <sup>(A)</sup>  | 200 |
| 220                                                                                   |                      |                      |                      |                      |                      |                      | 43.4 <sup>(A)</sup>  |                      |                      | 49.8 <sup>(B)</sup>  |                      | 57.3 <sup>(B)</sup>  |                      | 58.5 <sup>(B)</sup>  |                      | 58.9 <sup>(B)</sup>  | 65.0 <sup>(A)</sup>  | 62.8 <sup>(A)</sup>  | 61.2 <sup>(A)</sup>  | 61.2 <sup>(A)</sup>  | 57.9 <sup>(A)</sup>  | 55.6 <sup>(A)</sup>  | 52.4 <sup>(A)</sup>  | 52.4 <sup>(A)</sup>  |                                                                                          |                      |                      | 220 |
| 240                                                                                   |                      |                      |                      |                      |                      |                      |                      |                      | 32.5 <sup>(A)</sup>  |                      | 39.9 <sup>(B)</sup>  |                      | 46.0 <sup>(B)</sup>  |                      | 46.6 <sup>(B)</sup>  |                      | 46.3 <sup>(B)</sup>  | 52.5 <sup>(A)</sup>  | 52.5 <sup>(A)</sup>  | 50.7 <sup>(A)</sup>  | 50.7 <sup>(A)</sup>  | 47.3 <sup>(A)</sup>  | 47.3 <sup>(A)</sup>  | 45.1 <sup>(A)</sup>  | 45.1 <sup>(A)</sup>                                                                      | 41.8 <sup>(A)</sup>  | 41.8 <sup>(A)</sup>  | 240 |
| 260                                                                                   |                      |                      |                      |                      |                      |                      |                      |                      |                      | 25.4 <sup>(B)</sup>  |                      | 30.3 <sup>(B)</sup>  |                      | 35.7 <sup>(B)</sup>  |                      | 35.9 <sup>(B)</sup>  |                      | 36.0 <sup>(B)</sup>  | 41.8 <sup>(A)</sup>  | 41.8 <sup>(A)</sup>  | 38.6 <sup>(A)</sup>  | 38.6 <sup>(A)</sup>  | 36.4 <sup>(A)</sup>  | 36.4 <sup>(A)</sup>  | 33.1 <sup>(A)</sup>                                                                      | 33.1 <sup>(B)</sup>  |                      | 260 |
| 280                                                                                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 18.5 <sup>(B)</sup>  |                      | 22.8 <sup>(B)</sup>  |                      | 26.8 <sup>(B)</sup>  |                      | 27.8 <sup>(B)</sup>  |                      | 27.8 <sup>(B)</sup>  |                      | 27.6 <sup>(B)</sup>  | 31.3 <sup>(A)</sup>  | 31.3 <sup>(A)</sup>  | 29.3 <sup>(A)</sup>  | 29.3 <sup>(A)</sup>                                                                      | 26.7 <sup>(A)</sup>  | 26.7 <sup>(A)</sup>  | 280 |
| 300                                                                                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 11.3 <sup>(B)</sup>  |                      | 16.0 <sup>(B)</sup>  |                      | 20.3 <sup>(B)</sup>  |                      |                      |                      | 20.8 <sup>(B)</sup>  |                      | 20.0 <sup>(B)</sup>  | 24.1 <sup>(A)</sup>  | 24.1 <sup>(A)</sup>                                                                      | 21.6 <sup>(A)</sup>  | 21.6 <sup>(A)</sup>  | 300 |
| 320                                                                                   |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 14.2 <sup>(B)</sup>  |                      | 13.7 <sup>(B)</sup>  |                      | 14.1 <sup>(B)</sup>                                                                      | 17.1 <sup>(A)</sup>  | 17.1 <sup>(A)</sup>  | 320 |



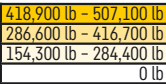
A) 87°   B) 85°   C) 80°   D) 75°   E) 65°   F) 55°   G) 45°



A) 87°   B) 85°   C) 80°   D) 75°   E) 65°   F) 55°   G) 45°

## S2W

## S2 197 – 217



max. 149,900 lb

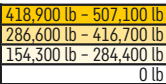


50

|  | S2 197 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               |     |
| 45                                                                               | 528.0 <sup>A)</sup> | 528.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                     |                     |                     |                     |                     |                     | 45                 |     |
| 50                                                                               | 483.0 <sup>A)</sup> | 483.0 <sup>A)</sup> | 458.0 <sup>A)</sup> | 458.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                     |                     |                     |                     |                     |                     | 50                 |     |
| 60                                                                               | 414.0 <sup>B)</sup> | 414.0 <sup>B)</sup> | 405.0 <sup>B)</sup> | 405.0 <sup>B)</sup> | 378.0 <sup>A)</sup> | 378.0 <sup>A)</sup> | 355.0 <sup>A)</sup> | 355.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                     |                     |                     |                     |                     |                     | 60                 |     |
| 70                                                                               | 347.0 <sup>B)</sup> | 348.0 <sup>B)</sup> | 341.0 <sup>B)</sup> | 342.0 <sup>B)</sup> | 335.0 <sup>B)</sup> | 335.0 <sup>B)</sup> | 312.0 <sup>A)</sup> | 312.0 <sup>A)</sup> | 303.0 <sup>A)</sup> | 303.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                     |                     |                     |                     |                     |                     | 70                 |     |
| 80                                                                               | 294.0 <sup>B)</sup> | 294.0 <sup>B)</sup> | 292.0 <sup>B)</sup> | 292.0 <sup>B)</sup> | 289.0 <sup>B)</sup> | 289.0 <sup>B)</sup> | 283.0 <sup>B)</sup> | 283.0 <sup>B)</sup> | 275.0 <sup>B)</sup> | 275.0 <sup>B)</sup> | 254.0 <sup>A)</sup> | 254.0 <sup>A)</sup> | 238.0 <sup>A)</sup> | 238.0 <sup>A)</sup> |                     |                     |                     |                     |                     |                     |                                                                                     |                     |                     |                     |                     |                     | 80                 |     |
| 90                                                                               | 253.0 <sup>B)</sup> | 253.0 <sup>B)</sup> | 251.0 <sup>B)</sup> | 252.0 <sup>B)</sup> | 251.0 <sup>B)</sup> | 251.0 <sup>B)</sup> | 247.0 <sup>B)</sup> | 247.0 <sup>B)</sup> | 241.0 <sup>B)</sup> | 241.0 <sup>B)</sup> | 235.0 <sup>B)</sup> | 235.0 <sup>B)</sup> | 227.0 <sup>B)</sup> | 227.0 <sup>B)</sup> | 205.0 <sup>A)</sup> | 205.0 <sup>A)</sup> | 186.0 <sup>A)</sup> | 186.0 <sup>A)</sup> |                     |                     |                                                                                     |                     |                     |                     |                     |                     | 90                 |     |
| 100                                                                              | 220.0 <sup>B)</sup> | 220.0 <sup>B)</sup> | 219.0 <sup>B)</sup> | 219.0 <sup>B)</sup> | 219.0 <sup>B)</sup> | 219.0 <sup>B)</sup> | 219.0 <sup>B)</sup> | 219.0 <sup>B)</sup> | 213.0 <sup>B)</sup> | 213.0 <sup>B)</sup> | 209.0 <sup>B)</sup> | 209.0 <sup>B)</sup> | 202.0 <sup>B)</sup> | 202.0 <sup>B)</sup> | 197.0 <sup>B)</sup> | 197.0 <sup>B)</sup> | 178.0 <sup>A)</sup> | 178.0 <sup>A)</sup> | 160.0 <sup>A)</sup> | 160.0 <sup>A)</sup> | 141.0 <sup>A)</sup>                                                                 | 141.0 <sup>A)</sup> |                     |                     |                     |                     | 100                |     |
| 110                                                                              |                     | 187.0 <sup>B)</sup> | 193.0 <sup>B)</sup> | 193.0 <sup>B)</sup> | 193.0 <sup>B)</sup> | 193.0 <sup>B)</sup> | 193.0 <sup>B)</sup> | 193.0 <sup>B)</sup> | 190.0 <sup>B)</sup> | 190.0 <sup>B)</sup> | 186.0 <sup>B)</sup> | 186.0 <sup>B)</sup> | 181.0 <sup>B)</sup> | 181.0 <sup>B)</sup> | 178.0 <sup>B)</sup> | 178.0 <sup>B)</sup> | 172.0 <sup>B)</sup> | 172.0 <sup>B)</sup> | 158.0 <sup>B)</sup> | 158.0 <sup>B)</sup> | 137.0 <sup>A)</sup>                                                                 | 137.0 <sup>A)</sup> | 121.0 <sup>A)</sup> | 121.0 <sup>A)</sup> | 105.0 <sup>A)</sup> | 105.0 <sup>A)</sup> | 110                |     |
| 120                                                                              |                     | 156.0 <sup>B)</sup> | 171.0 <sup>B)</sup> | 171.0 <sup>B)</sup> | 172.0 <sup>B)</sup> | 172.0 <sup>B)</sup> | 171.0 <sup>B)</sup> | 171.0 <sup>B)</sup> | 168.0 <sup>B)</sup> | 168.0 <sup>B)</sup> | 167.0 <sup>B)</sup> | 167.0 <sup>B)</sup> | 163.0 <sup>B)</sup> | 163.0 <sup>B)</sup> | 160.0 <sup>B)</sup> | 160.0 <sup>B)</sup> | 154.0 <sup>B)</sup> | 154.0 <sup>B)</sup> | 148.0 <sup>B)</sup> | 148.0 <sup>B)</sup> | 135.0 <sup>B)</sup>                                                                 | 135.0 <sup>B)</sup> | 119.0 <sup>B)</sup> | 119.0 <sup>B)</sup> | 102.0 <sup>A)</sup> | 102.0 <sup>A)</sup> | 120                |     |
| 130                                                                              |                     | 136.0 <sup>B)</sup> |                     | 146.0 <sup>B)</sup> | 154.0 <sup>A)</sup> | 154.0 <sup>A)</sup> | 153.0 <sup>B)</sup> | 153.0 <sup>B)</sup> | 150.0 <sup>B)</sup> | 150.0 <sup>B)</sup> | 150.0 <sup>B)</sup> | 150.0 <sup>B)</sup> | 146.0 <sup>B)</sup> | 146.0 <sup>B)</sup> | 144.0 <sup>B)</sup> | 144.0 <sup>B)</sup> | 140.0 <sup>B)</sup> | 140.0 <sup>B)</sup> | 134.0 <sup>B)</sup> | 134.0 <sup>B)</sup> | 127.0 <sup>B)</sup>                                                                 | 127.0 <sup>B)</sup> | 116.0 <sup>B)</sup> | 116.0 <sup>B)</sup> | 100.0 <sup>B)</sup> | 100.0 <sup>B)</sup> | 130                |     |
| 140                                                                              |                     | 118.0 <sup>B)</sup> |                     | 124.0 <sup>B)</sup> | 138.0 <sup>B)</sup> | 138.0 <sup>B)</sup> | 137.0 <sup>A)</sup> | 137.0 <sup>A)</sup> | 135.0 <sup>B)</sup> | 135.0 <sup>B)</sup> | 134.0 <sup>B)</sup> | 134.0 <sup>B)</sup> | 132.0 <sup>B)</sup> | 132.0 <sup>B)</sup> | 130.0 <sup>B)</sup> | 130.0 <sup>B)</sup> | 127.0 <sup>B)</sup> | 127.0 <sup>B)</sup> | 121.0 <sup>B)</sup> | 121.0 <sup>B)</sup> | 116.0 <sup>B)</sup>                                                                 | 116.0 <sup>B)</sup> | 111.0 <sup>B)</sup> | 111.0 <sup>B)</sup> | 97.7 <sup>B)</sup>  | 97.7 <sup>B)</sup>  | 140                |     |
| 150                                                                              |                     | 104.0 <sup>B)</sup> |                     | 108.0 <sup>B)</sup> |                     | 117.0 <sup>B)</sup> | 126.0 <sup>A)</sup> | 126.0 <sup>A)</sup> | 122.0 <sup>A)</sup> | 122.0 <sup>A)</sup> | 121.0 <sup>B)</sup> | 121.0 <sup>B)</sup> | 118.0 <sup>B)</sup> | 118.0 <sup>B)</sup> | 117.0 <sup>B)</sup> | 117.0 <sup>B)</sup> | 115.0 <sup>B)</sup> | 115.0 <sup>B)</sup> | 110.0 <sup>B)</sup> | 110.0 <sup>B)</sup> | 105.0 <sup>B)</sup>                                                                 | 105.0 <sup>B)</sup> | 101.0 <sup>B)</sup> | 101.0 <sup>B)</sup> | 93.9 <sup>B)</sup>  | 93.9 <sup>B)</sup>  | 150                |     |
| 160                                                                              |                     | 90.0 <sup>B)</sup>  |                     | 93.8 <sup>B)</sup>  |                     | 101.0 <sup>B)</sup> | 112.0 <sup>B)</sup> | 112.0 <sup>B)</sup> | 112.0 <sup>A)</sup> | 112.0 <sup>A)</sup> | 109.0 <sup>B)</sup> | 109.0 <sup>B)</sup> | 107.0 <sup>B)</sup> | 107.0 <sup>B)</sup> | 106.0 <sup>B)</sup> | 106.0 <sup>B)</sup> | 103.0 <sup>B)</sup> | 103.0 <sup>B)</sup> | 100.0 <sup>B)</sup> | 100.0 <sup>B)</sup> | 95.4 <sup>B)</sup>                                                                  | 95.4 <sup>B)</sup>  | 92.1 <sup>B)</sup>  | 92.1 <sup>B)</sup>  | 86.5 <sup>B)</sup>  | 86.5 <sup>B)</sup>  | 160                |     |
| 170                                                                              |                     | 76.2 <sup>B)</sup>  |                     | 82.6 <sup>B)</sup>  |                     | 87.6 <sup>B)</sup>  |                     | 94.0 <sup>B)</sup>  | 103.0 <sup>A)</sup> | 103.0 <sup>A)</sup> | 100.0 <sup>A)</sup> | 100.0 <sup>A)</sup> | 97.1 <sup>B)</sup>  | 97.1 <sup>B)</sup>  | 95.4 <sup>B)</sup>  | 95.4 <sup>B)</sup>  | 93.4 <sup>B)</sup>  | 93.4 <sup>B)</sup>  | 89.8 <sup>B)</sup>  | 89.8 <sup>B)</sup>  | 86.2 <sup>B)</sup>                                                                  | 86.2 <sup>B)</sup>  | 83.5 <sup>B)</sup>  | 83.5 <sup>B)</sup>  | 79.1 <sup>B)</sup>  | 79.1 <sup>B)</sup>  | 170                |     |
| 180                                                                              |                     | 63.7 <sup>B)</sup>  |                     | 71.2 <sup>B)</sup>  |                     | 76.5 <sup>B)</sup>  |                     | 81.9 <sup>B)</sup>  | 91.2 <sup>B)</sup>  | 91.2 <sup>B)</sup>  | 92.3 <sup>A)</sup>  | 92.3 <sup>A)</sup>  | 88.7 <sup>A)</sup>  | 88.7 <sup>A)</sup>  | 86.6 <sup>B)</sup>  | 86.6 <sup>B)</sup>  | 84.6 <sup>B)</sup>  | 84.6 <sup>B)</sup>  | 81.1 <sup>B)</sup>  | 81.1 <sup>B)</sup>  | 77.3 <sup>B)</sup>                                                                  | 77.3 <sup>B)</sup>  | 75.0 <sup>B)</sup>  | 75.0 <sup>B)</sup>  | 71.1 <sup>B)</sup>  | 71.1 <sup>B)</sup>  | 180                |     |
| 190                                                                              |                     | 52.0 <sup>B)</sup>  |                     | 59.8 <sup>B)</sup>  |                     | 67.2 <sup>B)</sup>  |                     | 70.4 <sup>B)</sup>  |                     | 75.0 <sup>B)</sup>  | 85.3 <sup>A)</sup>  | 85.3 <sup>A)</sup>  | 81.9 <sup>A)</sup>  | 81.9 <sup>A)</sup>  | 79.3 <sup>A)</sup>  | 79.3 <sup>A)</sup>  | 76.6 <sup>B)</sup>  | 76.6 <sup>B)</sup>  | 72.9 <sup>B)</sup>  | 72.9 <sup>B)</sup>  | 69.6 <sup>B)</sup>                                                                  | 69.6 <sup>B)</sup>  | 67.1 <sup>B)</sup>  | 67.1 <sup>B)</sup>  | 63.6 <sup>B)</sup>  | 63.6 <sup>B)</sup>  | 190                |     |
| 200                                                                              |                     | 41.8 <sup>B)</sup>  |                     | 49.0 <sup>B)</sup>  |                     | 57.5 <sup>B)</sup>  |                     | 61.3 <sup>B)</sup>  |                     | 64.6 <sup>B)</sup>  | 75.0 <sup>B)</sup>  | 75.0 <sup>B)</sup>  | 75.7 <sup>A)</sup>  | 75.7 <sup>A)</sup>  | 73.2 <sup>A)</sup>  | 73.2 <sup>A)</sup>  | 70.2 <sup>A)</sup>  | 70.2 <sup>A)</sup>  | 65.8 <sup>A)</sup>  | 65.8 <sup>A)</sup>  | 62.3 <sup>B)</sup>                                                                  | 62.3 <sup>B)</sup>  | 59.8 <sup>B)</sup>  | 59.8 <sup>B)</sup>  | 56.8 <sup>B)</sup>  | 56.8 <sup>B)</sup>  | 200                |     |
| 220                                                                              |                     | 25.1 <sup>B)</sup>  |                     | 30.0 <sup>B)</sup>  |                     | 38.4 <sup>B)</sup>  |                     | 45.0 <sup>B)</sup>  |                     | 48.2 <sup>B)</sup>  |                     | 51.5 <sup>B)</sup>  | 60.8 <sup>B)</sup>  | 60.8 <sup>B)</sup>  | 62.8 <sup>A)</sup>  | 62.8 <sup>A)</sup>  | 59.7 <sup>A)</sup>  | 59.7 <sup>A)</sup>  | 55.7 <sup>A)</sup>  | 55.7 <sup>A)</sup>  | 51.5 <sup>A)</sup>                                                                  | 51.5 <sup>A)</sup>  | 48.6 <sup>A)</sup>  | 48.6 <sup>A)</sup>  | 44.9 <sup>A)</sup>  | 44.9 <sup>A)</sup>  | 220                |     |
| 240                                                                              |                     |                     |                     | 17.3 <sup>B)</sup>  |                     | 23.3 <sup>B)</sup>  |                     | 28.9 <sup>B)</sup>  |                     | 34.2 <sup>B)</sup>  |                     | 37.3 <sup>B)</sup>  |                     | 39.7 <sup>B)</sup>  | 48.7 <sup>B)</sup>  | 48.7 <sup>B)</sup>  | 50.7 <sup>A)</sup>  | 50.7 <sup>A)</sup>  | 47.2 <sup>A)</sup>  | 47.2 <sup>A)</sup>  | 43.2 <sup>A)</sup>                                                                  | 43.2 <sup>A)</sup>  | 40.4 <sup>A)</sup>  | 40.4 <sup>A)</sup>  | 36.7 <sup>A)</sup>  | 36.7 <sup>A)</sup>  | 240                |     |
| 260                                                                              |                     |                     |                     |                     |                     |                     |                     | 13.2 <sup>B)</sup>  |                     | 21.2 <sup>B)</sup>  |                     | 26.1 <sup>B)</sup>  |                     | 28.1 <sup>B)</sup>  | 30.2 <sup>B)</sup>  | 38.4 <sup>B)</sup>  | 38.4 <sup>B)</sup>  | 38.9 <sup>A)</sup>  | 38.9 <sup>A)</sup>  | 35.5 <sup>A)</sup>  | 35.5 <sup>A)</sup>                                                                  | 33.4 <sup>A)</sup>  | 33.4 <sup>A)</sup>  | 29.7 <sup>A)</sup>  | 29.7 <sup>A)</sup>  | 260                 |                    |     |
| 280                                                                              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 15.2 <sup>B)</sup>  |                     | 19.3 <sup>B)</sup>  |                     | 20.9 <sup>B)</sup>  |                     | 22.6 <sup>B)</sup>  | 28.5 <sup>B)</sup>  | 28.5 <sup>B)</sup>  | 28.6 <sup>A)</sup>                                                                  | 28.6 <sup>A)</sup>  | 26.8 <sup>A)</sup>  | 26.8 <sup>A)</sup>  | 24.2 <sup>A)</sup>  | 24.2 <sup>A)</sup>  | 280                |     |
| 300                                                                              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     | 15.2 <sup>B)</sup>  | 21.1 <sup>B)</sup>  | 21.1 <sup>B)</sup>                                                                  | 21.1 <sup>B)</sup>  | 21.9 <sup>A)</sup>  | 21.9 <sup>A)</sup>  | 19.2 <sup>A)</sup>  | 19.2 <sup>A)</sup>  | 300                |     |
| 320                                                                              |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                                                                                     |                     |                     | 15.2 <sup>B)</sup>  | 15.2 <sup>B)</sup>  | 15.0 <sup>A)</sup>  | 15.0 <sup>A)</sup> | 320 |

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

A) 87° B) 85° C) 80° D) 75° E) 65° F) 55° G) 45°



max. 149,900 lb



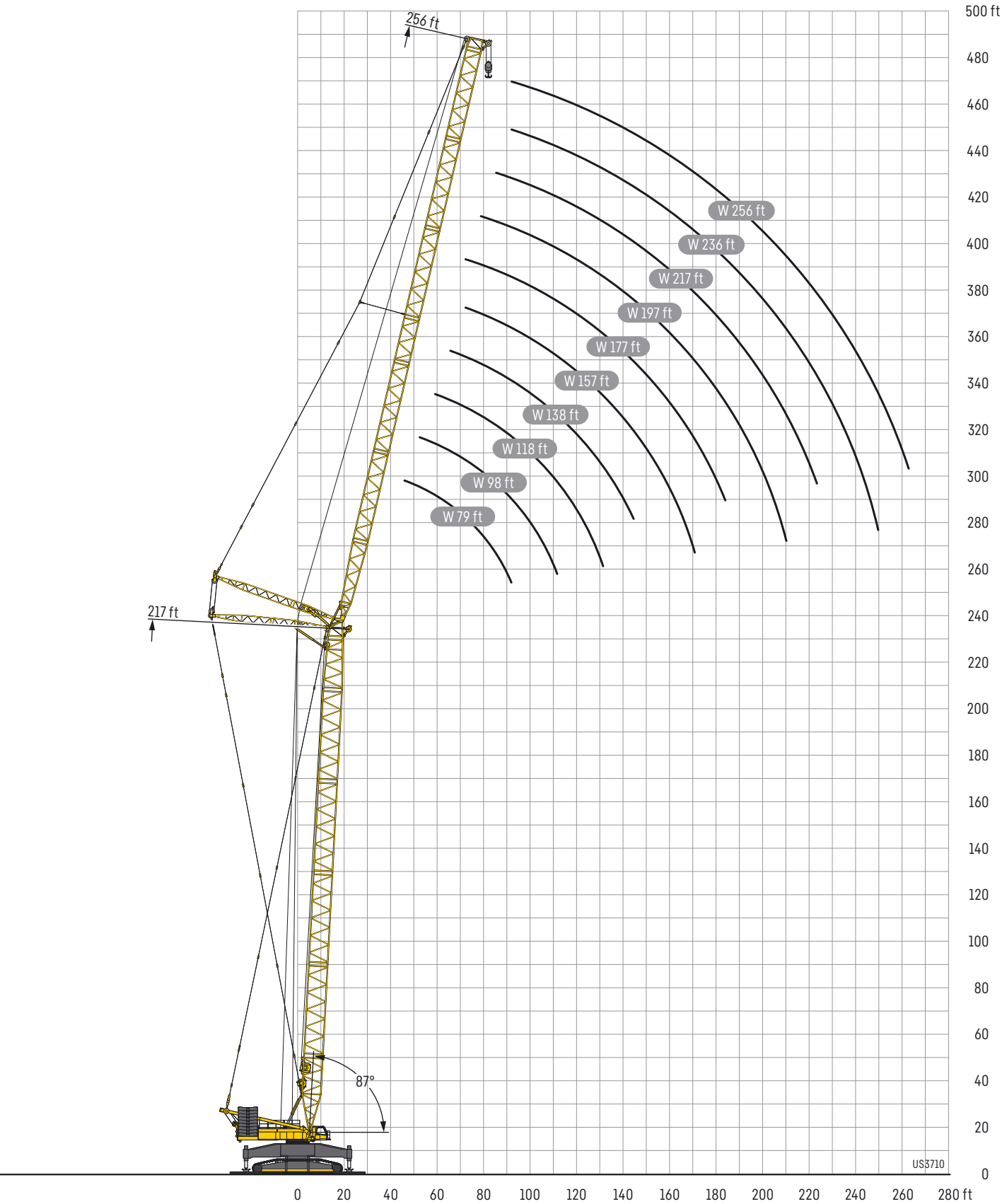
50

|  ft | S2 217 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             |                      |                                                                                          |
|                                                                                       | 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                                                                                    | 433.0 <sup>(A)</sup> | 433.0 <sup>(A)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 45                                                                                       |
| 50                                                                                    | 411.0 <sup>(A)</sup> | 411.0 <sup>(A)</sup>  | 377.0 <sup>(A)</sup> | 377.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 50                                                                                       |
| 60                                                                                    | 382.0 <sup>(B)</sup> | 382.0 <sup>(B)</sup>  | 346.0 <sup>(A)</sup> | 348.0 <sup>(2)</sup>  | 318.0 <sup>(A)</sup> | 318.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 60                                                                                       |
| 70                                                                                    | 344.0 <sup>(B)</sup> | 344.0 <sup>(B)</sup>  | 326.0 <sup>(B)</sup> | 326.0 <sup>(B)</sup>  | 300.0 <sup>(B)</sup> | 300.0 <sup>(B)</sup>  | 272.0 <sup>(A)</sup> | 272.0 <sup>(A)</sup> | 251.0 <sup>(A)</sup> | 251.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 70                                                                                       |
| 80                                                                                    | 294.0 <sup>(B)</sup> | 294.0 <sup>(5)</sup>  | 290.0 <sup>(B)</sup> | 290.0 <sup>(B)</sup>  | 279.0 <sup>(B)</sup> | 279.0 <sup>(B)</sup>  | 259.0 <sup>(B)</sup> | 259.0 <sup>(B)</sup> | 241.0 <sup>(B)</sup> | 241.0 <sup>(B)</sup> | 218.0 <sup>(A)</sup> | 218.0 <sup>(A)</sup> | 198.0 <sup>(A)</sup> | 198.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      | 80                                                                                       |
| 90                                                                                    | 253.0 <sup>(B)</sup> | 253.0 <sup>(7)</sup>  | 252.0 <sup>(B)</sup> | 252.0 <sup>(B)</sup>  | 248.0 <sup>(B)</sup> | 248.0 <sup>(B)</sup>  | 241.0 <sup>(B)</sup> | 241.0 <sup>(B)</sup> | 227.0 <sup>(B)</sup> | 227.0 <sup>(B)</sup> | 210.0 <sup>(B)</sup> | 210.0 <sup>(B)</sup> | 189.0 <sup>(A)</sup> | 189.0 <sup>(A)</sup> | 172.0 <sup>(A)</sup> | 172.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup> |                      |                      | 90                                                                                       |
| 100                                                                                   | 220.0 <sup>(B)</sup> | 220.0 <sup>(B)</sup>  | 220.0 <sup>(B)</sup> | 220.0 <sup>(B)</sup>  | 218.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup>  | 215.0 <sup>(B)</sup> | 215.0 <sup>(B)</sup> | 209.0 <sup>(B)</sup> | 209.0 <sup>(B)</sup> | 198.0 <sup>(B)</sup> | 198.0 <sup>(B)</sup> | 183.0 <sup>(B)</sup> | 183.0 <sup>(B)</sup> | 167.0 <sup>(B)</sup> | 167.0 <sup>(B)</sup> | 149.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup> | 100                                                                                      |
| 110                                                                                   |                      | 189.0 <sup>(11)</sup> | 194.0 <sup>(B)</sup> | 194.0 <sup>(B)</sup>  | 192.0 <sup>(B)</sup> | 192.0 <sup>(6)</sup>  | 192.0 <sup>(B)</sup> | 192.0 <sup>(B)</sup> | 187.0 <sup>(B)</sup> | 187.0 <sup>(B)</sup> | 184.0 <sup>(B)</sup> | 184.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> | 160.0 <sup>(B)</sup> | 160.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 131.0 <sup>(B)</sup> | 131.0 <sup>(B)</sup> | 110                                                                                      |
| 120                                                                                   |                      | 158.0 <sup>(11)</sup> | 172.0 <sup>(B)</sup> | 172.0 <sup>(B)</sup>  | 172.0 <sup>(B)</sup> | 172.0 <sup>(B)</sup>  | 170.0 <sup>(B)</sup> | 170.0 <sup>(B)</sup> | 168.0 <sup>(B)</sup> | 168.0 <sup>(B)</sup> | 166.0 <sup>(B)</sup> | 166.0 <sup>(B)</sup> | 160.0 <sup>(B)</sup> | 160.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup> | 140.0 <sup>(2)</sup> | 126.0 <sup>(B)</sup> | 126.0 <sup>(B)</sup> | 120                                                                                      |
| 130                                                                                   |                      | 136.0 <sup>(11)</sup> |                      | 148.0 <sup>(11)</sup> | 153.0 <sup>(B)</sup> | 153.0 <sup>(B)</sup>  | 152.0 <sup>(B)</sup> | 152.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup> | 140.0 <sup>(3)</sup> | 132.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> | 130                                                                                      |
| 140                                                                                   |                      | 117.0 <sup>(11)</sup> |                      | 124.0 <sup>(11)</sup> | 137.0 <sup>(B)</sup> | 137.0 <sup>(B)</sup>  | 137.0 <sup>(B)</sup> | 137.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 134.0 <sup>(B)</sup> | 134.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 126.0 <sup>(B)</sup> | 126.0 <sup>(B)</sup> | 123.0 <sup>(B)</sup> | 123.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> | 140                                                                                      |
| 150                                                                                   |                      | 102.0 <sup>(0)</sup>  |                      | 108.0 <sup>(11)</sup> |                      | 117.0 <sup>(11)</sup> | 123.0 <sup>(B)</sup> | 123.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> | 111.0 <sup>(B)</sup> | 111.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 150                                                                                      |
| 160                                                                                   |                      | 88.6 <sup>(11)</sup>  |                      | 92.6 <sup>(11)</sup>  |                      | 98.9 <sup>(C)</sup>   | 112.0 <sup>(B)</sup> | 112.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup> | 109.0 <sup>(7)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> | 97.0 <sup>(B)</sup>  | 97.0 <sup>(B)</sup>  | 160                                                                                      |
| 170                                                                                   |                      | 76.0 <sup>(1A)</sup>  |                      | 81.1 <sup>(11)</sup>  |                      | 86.5 <sup>(11)</sup>  |                      | 94.6 <sup>(11)</sup> | 99.9 <sup>(B)</sup>  | 99.9 <sup>(B)</sup>  | 99.1 <sup>(B)</sup>  | 99.1 <sup>(B)</sup>  | 97.3 <sup>(B)</sup>  | 97.3 <sup>(B)</sup>  | 93.5 <sup>(B)</sup>  | 93.5 <sup>(B)</sup>  | 91.2 <sup>(B)</sup>  | 91.2 <sup>(B)</sup>  | 87.5 <sup>(B)</sup>  | 87.5 <sup>(B)</sup>  | 170                                                                                      |
| 180                                                                                   |                      | 63.5 <sup>(B)</sup>   |                      | 70.3 <sup>(11)</sup>  |                      | 74.1 <sup>(11)</sup>  |                      | 80.3 <sup>(C)</sup>  | 90.8 <sup>(B)</sup>  | 90.8 <sup>(B)</sup>  | 90.2 <sup>(B)</sup>  | 90.2 <sup>(B)</sup>  | 88.0 <sup>(B)</sup>  | 88.0 <sup>(B)</sup>  | 84.4 <sup>(B)</sup>  | 84.4 <sup>(B)</sup>  | 82.4 <sup>(B)</sup>  | 82.4 <sup>(B)</sup>  | 79.0 <sup>(B)</sup>  | 79.0 <sup>(B)</sup>  | 180                                                                                      |
| 190                                                                                   |                      | 52.4 <sup>(B)</sup>   |                      | 59.7 <sup>(10)</sup>  |                      | 64.9 <sup>(11)</sup>  |                      | 69.5 <sup>(11)</sup> |                      | 75.5 <sup>(11)</sup> | 82.3 <sup>(B)</sup>  | 82.3 <sup>(B)</sup>  | 80.0 <sup>(B)</sup>  | 80.0 <sup>(B)</sup>  | 76.4 <sup>(B)</sup>  | 76.4 <sup>(B)</sup>  | 74.5 <sup>(B)</sup>  | 74.5 <sup>(B)</sup>  | 70.9 <sup>(B)</sup>  | 70.9 <sup>(B)</sup>  | 190                                                                                      |
| 200                                                                                   |                      | 41.8 <sup>(B)</sup>   |                      | 49.1 <sup>(B)</sup>   |                      | 55.9 <sup>(11)</sup>  |                      | 59.2 <sup>(11)</sup> |                      | 64.5 <sup>(C)</sup>  | 74.9 <sup>(B)</sup>  | 74.9 <sup>(B)</sup>  | 73.1 <sup>(B)</sup>  | 73.1 <sup>(B)</sup>  | 69.4 <sup>(B)</sup>  | 69.4 <sup>(B)</sup>  | 67.1 <sup>(B)</sup>  | 67.1 <sup>(B)</sup>  | 63.6 <sup>(B)</sup>  | 63.6 <sup>(B)</sup>  | 200                                                                                      |
| 220                                                                                   |                      | 25.2 <sup>(7)</sup>   |                      | 30.7 <sup>(B)</sup>   |                      | 37.8 <sup>(B)</sup>   |                      | 43.8                 |                      | 46.4 <sup>(D)</sup>  |                      | 52.0 <sup>(C)</sup>  | 60.6 <sup>(B)</sup>  | 60.6 <sup>(B)</sup>  | 57.4 <sup>(B)</sup>  | 57.4 <sup>(B)</sup>  | 55.2 <sup>(B)</sup>  | 55.2 <sup>(B)</sup>  | 51.8 <sup>(B)</sup>  | 51.8 <sup>(B)</sup>  | 220                                                                                      |
| 240                                                                                   |                      | 13.0 <sup>(6)</sup>   |                      | 17.4 <sup>(7)</sup>   |                      | 22.6 <sup>(B)</sup>   |                      | 28.1 <sup>(B)</sup>  |                      | 33.2                 |                      | 36.1 <sup>(D)</sup>  |                      | 40.6 <sup>(C)</sup>  | 47.3 <sup>(B)</sup>  | 47.3 <sup>(B)</sup>  | 46.3 <sup>(A)</sup>  | 46.3 <sup>(A)</sup>  | 42.8 <sup>(A)</sup>  | 42.8 <sup>(A)</sup>  | 240                                                                                      |
| 260                                                                                   |                      |                       |                      |                       |                      |                       |                      | 14.4 <sup>(6)</sup>  |                      | 20.7 <sup>(B)</sup>  |                      | 25.2 <sup>(11)</sup> |                      | 27.3 <sup>(D)</sup>  |                      | 29.5 <sup>(C)</sup>  | 36.9 <sup>(B)</sup>  | 36.9 <sup>(B)</sup>  | 35.9 <sup>(A)</sup>  | 35.9 <sup>(A)</sup>  | 260                                                                                      |
| 280                                                                                   |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      | 18.0 <sup>(10)</sup> |                      | 19.3 <sup>(D)</sup>  |                      | 22.6 <sup>(C)</sup>  | 27.5 <sup>(B)</sup>  | 27.5 <sup>(B)</sup>  | 280                                                                                      |
| 300                                                                                   |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | 13.4 <sup>(D)</sup>  |                      |                      | 15.6 <sup>(C)</sup>  | 300                                                                                      |

# Lifting heights

## Hauteurs de levage

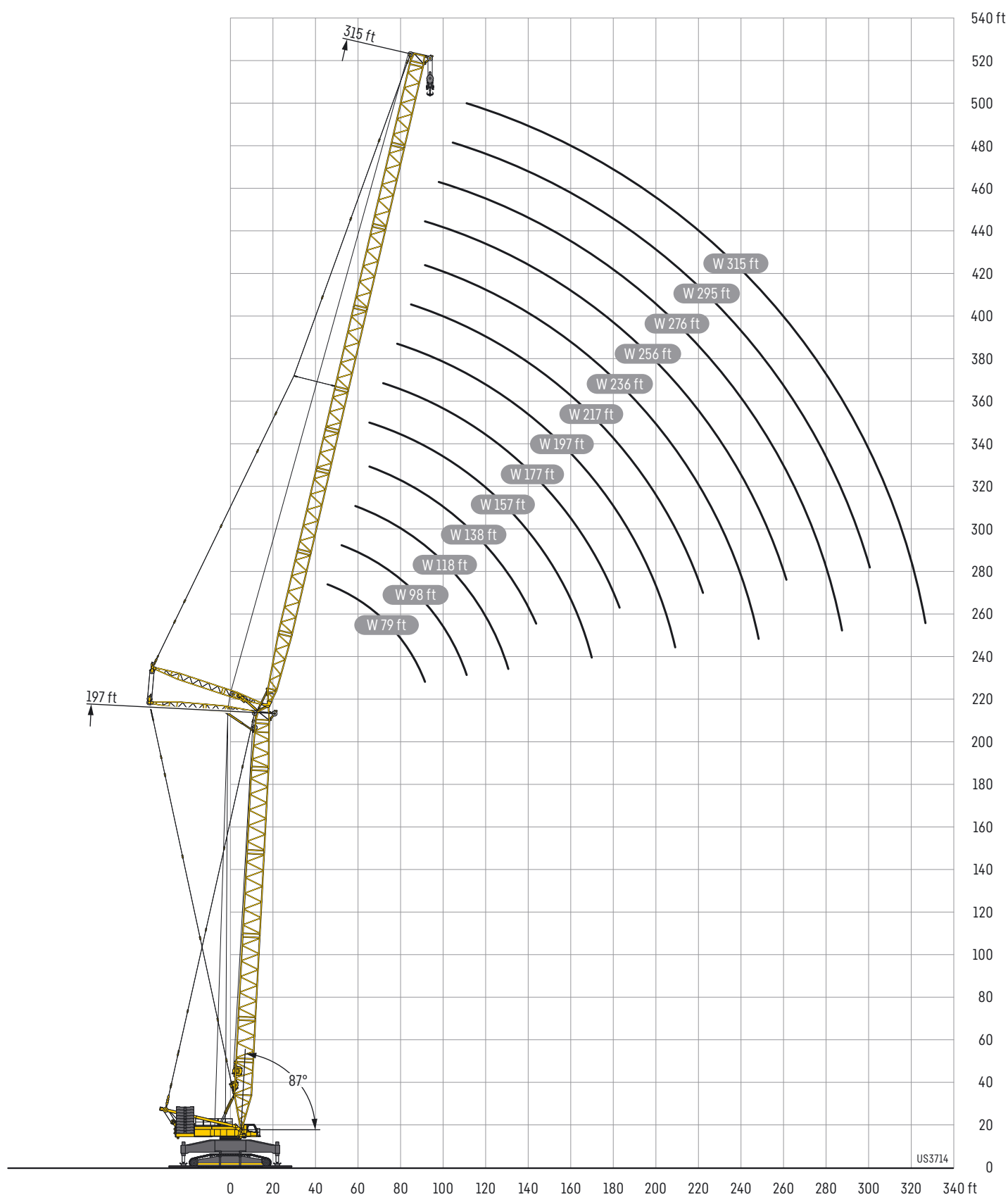
S2W



## Lifting heights

### Hauteurs de levage

# S2W



HSDWB/BV

HS 177



177 ft  
HS



118 ft  
D



39 - 315 ft  
W



0 lb



330,700 lb



B BV

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



Wmax



50

| <div><div></div><div>ft</div></div> |    | HS 177 ft             |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------|----|-----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     |    | W 39ft                |                       | W 79ft               |                       | W 118ft              |                       | W 158ft              |                      | W 197ft              |                      | W 236ft              |                      | W 276ft              |                      | W 315ft              |                      |
|                                     |    | 87°/85°/84°           | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 |
| 45                                  | Ot | 566.0 <sup>(C)</sup>  | 567.0 <sup>(1)</sup>  | 584.0 <sup>(A)</sup> | 585.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | B  | 1077.0 <sup>(C)</sup> | 1077.0 <sup>(C)</sup> | 811.0 <sup>(A)</sup> | 828.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | BV | 1077.0 <sup>(C)</sup> | 1078.0 <sup>(1)</sup> |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 50                                  | Ot | 501.0 <sup>(C)</sup>  | 504.0 <sup>(2)</sup>  | 519.0 <sup>(A)</sup> | 519.0 <sup>(2)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | B  | 1051.0 <sup>(C)</sup> | 1056.0 <sup>(2)</sup> | 773.0 <sup>(A)</sup> | 834.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | BV | 1067.0 <sup>(C)</sup> | 1078.0 <sup>(1)</sup> | 852.0 <sup>(B)</sup> | 852.0 <sup>(B)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 60                                  | Ot |                       | 403.0 <sup>(4)</sup>  | 421.0 <sup>(A)</sup> | 421.0 <sup>(A)</sup>  | 418.0 <sup>(A)</sup> | 418.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | B  |                       | 999.0 <sup>(1)</sup>  | 780.0 <sup>(B)</sup> | 822.0 <sup>(1)</sup>  | 592.0 <sup>(A)</sup> | 615.0 <sup>(1)</sup>  | 457.0 <sup>(A)</sup> | 457.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | BV |                       | 1063.0 <sup>(1)</sup> | 783.0 <sup>(B)</sup> | 843.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 70                                  | Ot |                       | 320.0 <sup>(4)</sup>  | 352.0 <sup>(A)</sup> | 352.0 <sup>(A)</sup>  | 349.0 <sup>(A)</sup> | 349.0 <sup>(A)</sup>  | 347.0 <sup>(A)</sup> | 347.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|                                     | B  |                       | 871.0 <sup>(2)</sup>  | 715.0 <sup>(B)</sup> | 805.0 <sup>(1)</sup>  | 602.0 <sup>(B)</sup> | 616.0 <sup>(1)</sup>  | 447.0 <sup>(A)</sup> | 456.0 <sup>(1)</sup> | 334.0 <sup>(A)</sup> | 334.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |
|                                     | BV |                       | 943.0 <sup>(3)</sup>  | 719.0 <sup>(B)</sup> | 844.0 <sup>(1)</sup>  | 606.0 <sup>(B)</sup> | 622.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 80                                  | Ot |                       | 261.0 <sup>(4)</sup>  | 300.0 <sup>(A)</sup> | 300.0 <sup>(A)</sup>  | 298.0 <sup>(A)</sup> | 298.0 <sup>(A)</sup>  | 296.0 <sup>(A)</sup> | 296.0 <sup>(A)</sup> | 289.0 <sup>(A)</sup> | 289.0 <sup>(A)</sup> | 240.0 <sup>(A)</sup> | 240.0 <sup>(A)</sup> |                      |                      |                      |                      |
|                                     | B  |                       | 758.0 <sup>(4)</sup>  | 626.0 <sup>(B)</sup> | 745.0 <sup>(2)</sup>  | 568.0 <sup>(B)</sup> | 615.0 <sup>(1)</sup>  | 454.0 <sup>(B)</sup> | 454.0 <sup>(B)</sup> | 322.0 <sup>(A)</sup> | 328.0 <sup>(1)</sup> | 240.0 <sup>(A)</sup> | 240.0 <sup>(A)</sup> |                      |                      |                      |                      |
|                                     | BV |                       | 828.0 <sup>(3)</sup>  | 623.0 <sup>(B)</sup> | 807.0 <sup>(B)</sup>  | 570.0 <sup>(B)</sup> | 622.0 <sup>(1)</sup>  | 457.0 <sup>(B)</sup> | 457.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
| 90                                  | Ot |                       | 214.0 <sup>(4)</sup>  | 260.0 <sup>(A)</sup> | 260.0 <sup>(A)</sup>  | 258.0 <sup>(A)</sup> | 258.0 <sup>(A)</sup>  | 256.0 <sup>(A)</sup> | 256.0 <sup>(A)</sup> | 251.0 <sup>(A)</sup> | 251.0 <sup>(A)</sup> | 235.0 <sup>(A)</sup> | 235.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> |                      |                      |
|                                     | B  |                       | 665.0 <sup>(4)</sup>  | 525.0 <sup>(B)</sup> | 667.0 <sup>(3)</sup>  | 533.0 <sup>(B)</sup> | 613.0 <sup>(D)</sup>  | 442.0 <sup>(B)</sup> | 445.0 <sup>(2)</sup> | 322.0 <sup>(B)</sup> | 322.0 <sup>(B)</sup> | 236.0 <sup>(A)</sup> | 238.0 <sup>(1)</sup> | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> |                      |                      |
|                                     | BV |                       | 735.0 <sup>(4)</sup>  | 523.0 <sup>(B)</sup> | 730.0 <sup>(3)</sup>  | 535.0 <sup>(B)</sup> | 622.0 <sup>(D)</sup>  | 446.0 <sup>(B)</sup> | 449.0 <sup>(2)</sup> | 323.0 <sup>(B)</sup> | 323.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |
| 100                                 | Ot |                       | 176.0 <sup>(4)</sup>  | 220.0 <sup>(B)</sup> | 220.0 <sup>(B)</sup>  | 226.0 <sup>(A)</sup> | 226.0 <sup>(A)</sup>  | 224.0 <sup>(A)</sup> | 224.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup> | 213.0 <sup>(A)</sup> | 213.0 <sup>(A)</sup> | 174.0 <sup>(A)</sup> | 174.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> |
|                                     | B  |                       | 587.0 <sup>(4)</sup>  | 410.0 <sup>(B)</sup> | 600.0 <sup>(4)</sup>  | 482.0 <sup>(B)</sup> | 587.0 <sup>(2)</sup>  | 424.0 <sup>(B)</sup> | 442.0 <sup>(2)</sup> | 309.0 <sup>(B)</sup> | 309.0 <sup>(B)</sup> | 237.0 <sup>(B)</sup> | 237.0 <sup>(B)</sup> | 174.0 <sup>(A)</sup> | 174.0 <sup>(1)</sup> | 127.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> |
|                                     | BV |                       | 651.0 <sup>(4)</sup>  | 408.0 <sup>(B)</sup> | 657.0 <sup>(3)</sup>  | 482.0 <sup>(B)</sup> | 603.0 <sup>(D)</sup>  | 428.0 <sup>(B)</sup> | 446.0 <sup>(2)</sup> | 312.0 <sup>(B)</sup> | 312.0 <sup>(B)</sup> | 237.0 <sup>(B)</sup> | 237.0 <sup>(B)</sup> |                      |                      |                      |                      |
| 110                                 | Ot |                       | 147.0 <sup>(4)</sup>  |                      | 186.0 <sup>(1)</sup>  | 200.0 <sup>(A)</sup> | 200.0 <sup>(A)</sup>  | 199.0 <sup>(A)</sup> | 199.0 <sup>(A)</sup> | 194.0 <sup>(A)</sup> | 194.0 <sup>(A)</sup> | 190.0 <sup>(A)</sup> | 190.0 <sup>(A)</sup> | 170.0 <sup>(A)</sup> | 170.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 125.0 <sup>(1)</sup> |
|                                     | B  |                       | 526.0 <sup>(4)</sup>  |                      | 539.0 <sup>(5)</sup>  | 414.0 <sup>(B)</sup> | 535.0 <sup>(2)</sup>  | 401.0 <sup>(B)</sup> | 447.0 <sup>(B)</sup> | 296.0 <sup>(B)</sup> | 302.0 <sup>(2)</sup> | 234.0 <sup>(B)</sup> | 234.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> | 124.0 <sup>(A)</sup> | 125.0 <sup>(1)</sup> |
|                                     | BV |                       | 585.0 <sup>(4)</sup>  |                      | 591.0 <sup>(3)</sup>  | 414.0 <sup>(B)</sup> | 567.0 <sup>(2)</sup>  | 405.0 <sup>(B)</sup> | 451.0 <sup>(B)</sup> | 298.0 <sup>(B)</sup> | 304.0 <sup>(2)</sup> | 234.0 <sup>(B)</sup> | 234.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> |                      |                      |
| 120                                 | Ot |                       | 121.0 <sup>(4)</sup>  |                      | 156.0 <sup>(1)</sup>  | 179.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup>  | 177.0 <sup>(A)</sup> | 177.0 <sup>(A)</sup> | 173.0 <sup>(A)</sup> | 173.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup> | 124.0 <sup>(B)</sup> | 124.0 <sup>(1)</sup> |
|                                     | B  |                       | 472.0 <sup>(4)</sup>  |                      | 488.0 <sup>(6)</sup>  | 361.0 <sup>(B)</sup> | 488.0 <sup>(3)</sup>  | 368.0 <sup>(B)</sup> | 430.0 <sup>(2)</sup> | 282.0 <sup>(B)</sup> | 305.0 <sup>(D)</sup> | 230.0 <sup>(B)</sup> | 231.0 <sup>(2)</sup> | 170.0 <sup>(B)</sup> | 170.0 <sup>(B)</sup> | 124.0 <sup>(B)</sup> | 124.0 <sup>(1)</sup> |
|                                     | BV |                       | 526.0 <sup>(4)</sup>  |                      | 540.0 <sup>(5)</sup>  | 360.0 <sup>(B)</sup> | 533.0 <sup>(E)</sup>  | 367.0 <sup>(B)</sup> | 436.0 <sup>(2)</sup> | 283.0 <sup>(B)</sup> | 306.0 <sup>(D)</sup> | 231.0 <sup>(B)</sup> | 232.0 <sup>(2)</sup> | 171.0 <sup>(B)</sup> | 171.0 <sup>(B)</sup> | 124.0 <sup>(B)</sup> | 124.0 <sup>(1)</sup> |
| 130                                 | Ot |                       | 100.0 <sup>(4)</sup>  |                      | 131.0 <sup>(1)</sup>  | 161.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup>  | 159.0 <sup>(A)</sup> | 159.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 145.0 <sup>(A)</sup> | 145.0 <sup>(A)</sup> | 121.0 <sup>(B)</sup> | 121.0 <sup>(B)</sup> |
|                                     | B  |                       | 427.0 <sup>(4)</sup>  |                      | 449.0 <sup>(E)</sup>  | 307.0 <sup>(B)</sup> | 443.0 <sup>(3)</sup>  | 326.0 <sup>(B)</sup> | 415.0 <sup>(2)</sup> | 268.0 <sup>(B)</sup> | 294.0 <sup>(D)</sup> | 226.0 <sup>(B)</sup> | 229.0 <sup>(2)</sup> | 168.0 <sup>(B)</sup> | 168.0 <sup>(B)</sup> | 122.0 <sup>(B)</sup> | 122.0 <sup>(B)</sup> |
|                                     | BV |                       | 478.0 <sup>(4)</sup>  |                      | 492.0 <sup>(5)</sup>  | 306.0 <sup>(B)</sup> | 490.0 <sup>(2)</sup>  | 323.0 <sup>(B)</sup> | 424.0 <sup>(2)</sup> | 269.0 <sup>(B)</sup> | 295.0 <sup>(D)</sup> | 227.0 <sup>(B)</sup> | 230.0 <sup>(2)</sup> | 169.0 <sup>(B)</sup> | 169.0 <sup>(B)</sup> | 122.0 <sup>(B)</sup> | 122.0 <sup>(B)</sup> |
| 140                                 | Ot |                       | 82.0 <sup>(4)</sup>   |                      | 110.0 <sup>(1)</sup>  | 140.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup>  | 144.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 140.0 <sup>(A)</sup> | 140.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> |
|                                     | B  |                       | 388.0 <sup>(4)</sup>  |                      | 411.0 <sup>(10)</sup> | 242.0 <sup>(B)</sup> | 410.0 <sup>(E)</sup>  | 289.0 <sup>(B)</sup> | 403.0 <sup>(E)</sup> | 254.0 <sup>(B)</sup> | 285.0 <sup>(2)</sup> | 223.0 <sup>(B)</sup> | 228.0 <sup>(B)</sup> | 165.0 <sup>(B)</sup> | 166.0 <sup>(2)</sup> | 120.0 <sup>(B)</sup> | 120.0 <sup>(B)</sup> |
|                                     | BV |                       | 436.0 <sup>(4)</sup>  |                      | 450.0 <sup>(6)</sup>  | 242.0 <sup>(B)</sup> | 451.0 <sup>(3)</sup>  | 286.0 <sup>(B)</sup> | 416.0 <sup>(E)</sup> | 255.0 <sup>(B)</sup> | 286.0 <sup>(2)</sup> | 224.0 <sup>(B)</sup> | 229.0 <sup>(B)</sup> | 166.0 <sup>(B)</sup> | 167.0 <sup>(2)</sup> | 120.0 <sup>(B)</sup> | 120.0 <sup>(B)</sup> |
| 150                                 | Ot |                       | 66.2 <sup>(4)</sup>   |                      | 91.0 <sup>(10)</sup>  |                      | 117.0 <sup>(11)</sup> | 131.0 <sup>(A)</sup> | 131.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> |
|                                     | B  |                       | 354.0 <sup>(4)</sup>  |                      | 375.0 <sup>(10)</sup> |                      | 380.0 <sup>(5)</sup>  | 260.0 <sup>(B)</sup> | 374.0 <sup>(2)</sup> | 238.0 <sup>(B)</sup> | 282.0 <sup>(E)</sup> | 219.0 <sup>(B)</sup> | 226.0 <sup>(B)</sup> | 163.0 <sup>(B)</sup> | 164.0 <sup>(2)</sup> | 118.0 <sup>(B)</sup> | 118.0 <sup>(2)</sup> |
|                                     | BV |                       | 398.0 <sup>(4)</sup>  |                      | 418.0 <sup>(10)</sup> |                      | 415.0 <sup>(3)</sup>  | 258.0 <sup>(B)</sup> | 393.0 <sup>(2)</sup> | 239.0 <sup>(B)</sup> | 283.0 <sup>(E)</sup> | 220.0 <sup>(B)</sup> | 228.0 <sup>(B)</sup> | 164.0 <sup>(B)</sup> | 165.0 <sup>(2)</sup> | 118.0 <sup>(B)</sup> | 118.0 <sup>(2)</sup> |
| 160                                 | Ot |                       | 52.8 <sup>(4)</sup>   |                      | 74.7 <sup>(10)</sup>  |                      | 99.4 <sup>(11)</sup>  | 119.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 105.0 <sup>(A)</sup> | 105.0 <sup>(A)</sup> | 99.3 <sup>(A)</sup>  | 99.3 <sup>(A)</sup>  |
|                                     | B  |                       | 324.0 <sup>(4)</sup>  |                      | 344.0 <sup>(10)</sup> |                      | 350.0 <sup>(5)</sup>  | 228.0 <sup>(B)</sup> | 346.0 <sup>(2)</sup> | 222.0 <sup>(B)</sup> | 272.0 <sup>(E)</sup> | 216.0 <sup>(B)</sup> | 224.0 <sup>(B)</sup> | 160.0 <sup>(B)</sup> | 162.0 <sup>(2)</sup> | 116.0 <sup>(B)</sup> | 116.0 <sup>(2)</sup> |
|                                     | BV |                       | 366.0 <sup>(4)</sup>  |                      | 384.0 <sup>(10)</sup> |                      | 386.0 <sup>(4)</sup>  | 226.0 <sup>(B)</sup> | 372.0 <sup>(2)</sup> | 222.0 <sup>(B)</sup> | 273.0 <sup>(E)</sup> | 217.0 <sup>(B)</sup> | 226.0 <sup>(B)</sup> | 161.0 <sup>(B)</sup> | 163.0 <sup>(2)</sup> | 116.0 <sup>(B)</sup> | 117.0 <sup>(2)</sup> |
| 170                                 | Ot |                       | 40.8 <sup>(4)</sup>   |                      | 60.3 <sup>(9)</sup>   |                      | 83.3 <sup>(11)</sup>  | 109.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 99.9 <sup>(A)</sup>  | 99.9 <sup>(A)</sup>  | 94.7 <sup>(A)</sup>  | 94.7 <sup>(A)</sup>  | 89.2 <sup>(A)</sup>  | 89.2 <sup>(A)</sup>  |
|                                     | B  |                       | 298.0 <sup>(4)</sup>  |                      | 316.0 <sup>(9)</sup>  |                      | 324.0 <sup>(6)</sup>  | 197.0 <sup>(B)</sup> | 322.0 <sup>(3)</sup> | 208.0 <sup>(B)</sup> | 263.0 <sup>(2)</sup> | 211.0 <sup>(B)</sup> | 222.0 <sup>(B)</sup> | 158.0 <sup>(B)</sup> | 161.0 <sup>(D)</sup> | 114.0 <sup>(B)</sup> | 114.0 <sup>(2)</sup> |
|                                     | BV |                       | 338.0 <sup>(4)</sup>  |                      | 354.0 <sup>(9)</sup>  |                      | 360.0 <sup>(5)</sup>  | 195.0 <sup>(B)</sup> | 351.0 <sup>(2)</sup> | 209.0 <sup>(B)</sup> | 264.0 <sup>(2)</sup> | 212.0 <sup>(B)</sup> | 223.0 <sup>(B)</sup> | 159.0 <sup>(B)</sup> | 162.0 <sup>(D)</sup> | 114.0 <sup>(B)</sup> | 115.0 <sup>(2)</sup> |
| 180                                 | Ot |                       |                       |                      | 47.5 <sup>(8)</sup>   |                      | 69.8 <sup>(11)</sup>  | 94.8 <sup>(B)</sup>  | 94.8 <sup>(B)</sup>  | 95.3 <sup>(A)</sup>  | 95.3 <sup>(A)</sup>  | 90.7 <sup>(A)</sup>  | 90.7 <sup>(A)</sup>  | 85.8 <sup>(A)</sup>  | 85.8 <sup>(A)</sup>  | 80.4 <sup>(A)</sup>  | 80.4 <sup>(A)</sup>  |
|                                     | B  |                       |                       |                      | 290.0 <sup>(8)</sup>  |                      | 304.0 <sup>(8)</sup>  | 156.0 <sup>(B)</sup> | 299.0 <sup>(3)</sup> | 197.0 <sup>(B)</sup> | 256.0 <sup>(2)</sup> | 198.0 <sup>(B)</sup> | 220.0 <sup>(3)</sup> | 156.0 <sup>(B)</sup> | 159.0 <sup>(D)</sup> | 112.0 <sup>(B)</sup> | 113.0 <sup>(2)</sup> |
|                                     | BV |                       |                       |                      | 326.0 <sup>(8)</sup>  |                      | 335.0 <sup>(5)</sup>  | 155.0 <sup>(B)</sup> | 329.0 <sup>(2)</sup> | 197.0 <sup>(B)</sup> | 257.0 <sup>(2)</sup> | 198.0 <sup>(B)</sup> | 220.0 <sup>(3)</sup> | 156.0 <sup>(B)</sup> | 160.0 <sup>(D)</sup> | 112.0 <sup>(B)</sup> | 113.0 <sup>(2)</sup> |
| 190                                 | Ot |                       |                       |                      | 36.4 <sup>(7)</sup>   |                      | 56.4 <sup>(10)</sup>  |                      | 76.5 <sup>(11)</sup> | 87.2 <sup>(A)</sup>  | 87.2 <sup>(A)</sup>  | 82.7 <sup>(A)</sup>  | 82.7 <sup>(A)</sup>  | 77.7 <sup>(A)</sup>  | 77.7 <sup>(A)</sup>  | 71.9 <sup>(A)</sup>  | 71.9 <sup>(A)</sup>  |
|                                     | B  |                       |                       |                      | 267.0 <sup>(7)</sup>  |                      | 282.0 <sup>(8)</sup>  |                      | 281.0 <sup>(4)</sup> | 179.0 <sup>(B)</sup> | 248.0 <sup>(2)</sup> | 182.0 <sup>(B)</sup> | 218.0 <sup>(E)</sup> | 153.0 <sup>(B)</sup> | 158.0 <sup>(D)</sup> | 110.0 <sup>(B)</sup> | 111.0 <sup>(B)</sup> |
|                                     | BV |                       |                       |                      | 302.0 <sup>(7)</sup>  |                      | 313.0 <sup>(6)</sup>  |                      | 307.0 <sup>(2)</sup> | 178.0 <sup>(B)</sup> | 249.0 <sup>(2)</sup> | 182.0 <sup>(B)</sup> | 218.0 <sup>(E)</sup> | 154.0 <sup>(B)</sup> | 159.0 <sup>(D)</sup> | 110.0 <sup>(B)</sup> | 112.0 <sup>(B)</sup> |
| 200                                 | Ot |                       |                       |                      | 27.5 <sup>(7)</sup>   |                      | 45.2 <sup>(10)</sup>  |                      | 65.0 <sup>(11)</sup> | 79.9 <sup>(A)</sup>  | 79.9 <sup>(A)</sup>  | 75.4 <sup>(A)</sup>  | 75.4 <sup>(A)</sup>  | 70.3 <sup>(A)</sup>  | 70.3 <sup>(A)</sup>  | 64.8 <sup>(A)</sup>  | 64.8 <sup>(A)</sup>  |
|                                     | B  |                       |                       |                      | 248.0 <sup>(7)</sup>  |                      | 263.0 <sup>(7)</sup>  |                      | 263.0 <sup>(4)</sup> | 159.0 <sup>(B)</sup> | 240.0 <sup>(2)</sup> | 166.0 <sup>(B)</sup> | 215.0 <sup>(E)</sup> | 151.0 <sup>(B)</sup> | 156.0 <sup>(D)</sup> | 108.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> |
|                                     | BV |                       |                       |                      | 280.0 <sup>(7)</sup>  |                      | 294.0 <sup>(7)</sup>  |                      | 289.0 <sup>(7)</sup> | 159.0 <sup>(B)</sup> | 241.0 <sup>(2)</sup> | 166.0 <sup>(B)</sup> | 214.0 <sup>(E)</sup> | 152.0 <sup>(B)</sup> | 158.0 <sup>(D)</sup> | 108.0 <sup>(B)</sup> | 111.0 <sup>(B)</sup> |
| 220                                 | Ot |                       |                       |                      |                       |                      | 25.8 <sup>(8)</sup>   |                      | 43.6 <sup>(11)</sup> | 63.7 <sup>(B)</sup>  | 63.7 <sup>(B)</sup>  | 62.9 <sup>(A)</sup>  | 62.9 <sup>(A)</sup>  | 57.6 <sup>(A)</sup>  | 57.6 <sup>(A)</sup>  | 52.1 <sup>(A)</sup>  | 52.1 <sup>(A)</sup>  |



177 ft  
HS



118 ft  
D



39 - 315 ft  
W



0 lb



330,700 lb



B BV

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



Wmax



50

| <div>ft</div> |    | HS 177 ft   |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|-----------------------------------------------------------------------------------------------|----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|----------------------|-------------|----------------------|----------------------|----------------------|---------------------|---------------------|
|                                                                                               |    | W 39 ft     |      | W 79 ft     |      | W 118 ft    |      | W 158 ft    |      | W 197 ft    |                      | W 236 ft    |                      | W 276 ft             |                      | W 315 ft            |                     |
|                                                                                               |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°         | Wmax                |
| 280                                                                                           | Ot |             |      |             |      |             |      |             |      |             | 12.6 <sup>[11]</sup> |             | 21.6 <sup>[11]</sup> | 31.1 <sup>[A]</sup>  | 31.1 <sup>[A]</sup>  | 26.3 <sup>[A]</sup> | 26.3 <sup>[A]</sup> |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             | 162.0 <sup>[4]</sup> |             | 156.0 <sup>[3]</sup> | 81.9 <sup>[8]</sup>  | 135.0 <sup>[3]</sup> | 86.3 <sup>[8]</sup> | 98.7 <sup>[5]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             | 180.0 <sup>[6]</sup> |             | 165.0 <sup>[2]</sup> | 81.7 <sup>[8]</sup>  | 135.0 <sup>[3]</sup> | 86.1 <sup>[8]</sup> | 99.2 <sup>[5]</sup> |
| 300                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      | 17.6 <sup>[11]</sup> | 21.2 <sup>[A]</sup>  | 21.2 <sup>[A]</sup> | 21.2 <sup>[A]</sup> |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             | 145.0 <sup>[8]</sup> |             | 140.0 <sup>[4]</sup> |                      | 126.0 <sup>[3]</sup> | 71.9 <sup>[8]</sup> | 95.1 <sup>[5]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             | 162.0 <sup>[4]</sup> |             | 153.0 <sup>[6]</sup> |                      | 127.0 <sup>[3]</sup> | 71.7 <sup>[8]</sup> | 95.4 <sup>[5]</sup> |
| 320                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      | 16.8 <sup>[A]</sup> | 16.8 <sup>[A]</sup> |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             | 126.0 <sup>[7]</sup> |             | 126.0 <sup>[4]</sup> |                      | 117.0 <sup>[2]</sup> | 56.0 <sup>[8]</sup> | 92.0 <sup>[4]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             | 148.0 <sup>[7]</sup> |             | 141.0 <sup>[2]</sup> |                      | 120.0 <sup>[2]</sup> | 55.9 <sup>[8]</sup> | 92.2 <sup>[4]</sup> |
| 340                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             |                      |             | 115.0 <sup>[6]</sup> |                      | 108.0 <sup>[5]</sup> |                     | 88.3 <sup>[4]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             |                      |             | 127.0 <sup>[3]</sup> |                      | 113.0 <sup>[2]</sup> |                     | 88.1 <sup>[4]</sup> |
| 360                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             |                      |             | 101.0 <sup>[7]</sup> |                      | 97.3 <sup>[4]</sup>  |                     | 82.4 <sup>[3]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             |                      |             | 116.0 <sup>[4]</sup> |                      | 105.0 <sup>[2]</sup> |                     | 82.7 <sup>[3]</sup> |
| 380                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             |                      |             |                      |                      | 87.3 <sup>[5]</sup>  |                     | 78.6 <sup>[6]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             |                      |             |                      |                      | 98.1 <sup>[H]</sup>  |                     | 78.5 <sup>[3]</sup> |
| 400                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             |                      |             |                      |                      | 79.2 <sup>[7]</sup>  |                     | 72.6 <sup>[3]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             |                      |             |                      |                      | 87.0 <sup>[H]</sup>  |                     | 73.4 <sup>[3]</sup> |
| 420                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     | 64.8 <sup>[4]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     | 69.7 <sup>[H]</sup> |
| 440                                                                                           | Ot |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     |                     |
|                                                                                               | B  |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     | 57.0 <sup>[7]</sup> |
|                                                                                               | BV |             |      |             |      |             |      |             |      |             |                      |             |                      |                      |                      |                     | 61.3 <sup>[H]</sup> |

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

A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

30 LR 1700-1.0W



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

|      |    |
|------|----|
| Wmax | 50 |
|------|----|

|  ft |    | HS 197 ft             |                       |                      |                       |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------------------------------------------------------|----|-----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                                                     |    | W39ft                 |                       | W79ft                |                       | W118ft               |                       | W158ft               |                        | W197ft               |                      | W236ft               |                      | W276ft               |                      | W315ft               |                      |
|                                                                                     |    | 87°/85°/84°           | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                   | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 |
| 45                                                                                  | Ot |                       |                       | 580.0 <sup>(A)</sup> | 581.0 <sup>(1)</sup>  |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                       |                       | 749.0 <sup>(A)</sup> | 758.0 <sup>(1)</sup>  |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                       |                       |                      |                       |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
| 50                                                                                  | Ot | 494.0 <sup>(C)</sup>  | 498.0 <sup>(1)</sup>  | 515.0 <sup>(A)</sup> | 515.0 <sup>(A)</sup>  |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  | 985.0 <sup>(C)</sup>  | 1001.0 <sup>(1)</sup> | 713.0 <sup>(A)</sup> | 761.0 <sup>(1)</sup>  |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV | 1005.0 <sup>(C)</sup> | 1027.0 <sup>(1)</sup> |                      |                       |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
| 60                                                                                  | Ot |                       | 400.0 <sup>(4)</sup>  | 418.0 <sup>(A)</sup> | 418.0 <sup>(A)</sup>  | 415.0 <sup>(A)</sup> | 415.0 <sup>(A)</sup>  |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                       | 950.0 <sup>(1)</sup>  | 721.0 <sup>(B)</sup> | 758.0 <sup>(1)</sup>  | 545.0 <sup>(A)</sup> | 567.0 <sup>(1)</sup>  |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                       | 1003.0 <sup>(1)</sup> | 721.0 <sup>(B)</sup> | 765.0 <sup>(1)</sup>  |                      |                       |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
| 70                                                                                  | Ot |                       | 313.0 <sup>(4)</sup>  | 350.0 <sup>(A)</sup> | 350.0 <sup>(A)</sup>  | 347.0 <sup>(A)</sup> | 347.0 <sup>(A)</sup>  | 343.0 <sup>(A)</sup> | 343.0 <sup>(A)</sup>   |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                       | 855.0 <sup>(2)</sup>  | 661.0 <sup>(B)</sup> | 750.0 <sup>(1)</sup>  | 556.0 <sup>(B)</sup> | 569.0 <sup>(1)</sup>  | 416.0 <sup>(A)</sup> | 424.0 <sup>(1)</sup>   |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                       | 928.0 <sup>(B)</sup>  | 664.0 <sup>(B)</sup> | 764.0 <sup>(1)</sup>  | 557.0 <sup>(B)</sup> | 574.0 <sup>(1)</sup>  |                      |                        |                      |                      |                      |                      |                      |                      |                      |                      |
| 80                                                                                  | Ot |                       | 259.0 <sup>(4)</sup>  | 298.0 <sup>(A)</sup> | 298.0 <sup>(A)</sup>  | 297.0 <sup>(A)</sup> | 297.0 <sup>(A)</sup>  | 294.0 <sup>(A)</sup> | 294.0 <sup>(A)</sup>   | 285.0 <sup>(A)</sup> | 285.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                       | 751.0 <sup>(4)</sup>  | 598.0 <sup>(B)</sup> | 726.0 <sup>(B)</sup>  | 525.0 <sup>(B)</sup> | 569.0 <sup>(1)</sup>  | 424.0 <sup>(B)</sup> | 424.0 <sup>(B)</sup>   | 305.0 <sup>(A)</sup> | 310.0 <sup>(1)</sup> | 230.0 <sup>(A)</sup> | 230.0 <sup>(A)</sup> |                      |                      |                      |                      |
|                                                                                     | BV |                       | 823.0 <sup>(4)</sup>  | 610.0 <sup>(B)</sup> | 747.0 <sup>(1)</sup>  | 525.0 <sup>(B)</sup> | 574.0 <sup>(1)</sup>  | 428.0 <sup>(B)</sup> | 428.0 <sup>(B)</sup>   |                      |                      |                      |                      |                      |                      |                      |                      |
| 90                                                                                  | Ot |                       | 207.0 <sup>(4)</sup>  | 258.0 <sup>(A)</sup> | 258.0 <sup>(A)</sup>  | 257.0 <sup>(A)</sup> | 257.0 <sup>(A)</sup>  | 253.0 <sup>(A)</sup> | 254.0 <sup>(3)</sup>   | 248.0 <sup>(A)</sup> | 248.0 <sup>(A)</sup> | 226.0 <sup>(A)</sup> | 226.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> |                      |                      |
|                                                                                     | B  |                       | 655.0 <sup>(2)</sup>  | 540.0 <sup>(B)</sup> | 656.0 <sup>(2)</sup>  | 494.0 <sup>(B)</sup> | 569.0 <sup>(B)</sup>  | 413.0 <sup>(B)</sup> | 415.0 <sup>(2)</sup>   | 306.0 <sup>(B)</sup> | 306.0 <sup>(B)</sup> | 226.0 <sup>(A)</sup> | 228.0 <sup>(1)</sup> | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> |                      |                      |
|                                                                                     | BV |                       | 725.0 <sup>(2)</sup>  | 541.0 <sup>(B)</sup> | 696.0 <sup>(B)</sup>  | 493.0 <sup>(B)</sup> | 576.0 <sup>(B)</sup>  | 414.0 <sup>(B)</sup> | 416.0 <sup>(2)</sup>   | 308.0 <sup>(B)</sup> | 308.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |
| 100                                                                                 | Ot |                       | 174.0 <sup>(4)</sup>  | 218.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup>  | 226.0 <sup>(A)</sup> | 226.0 <sup>(A)</sup>  | 223.0 <sup>(A)</sup> | 223.0 <sup>(A)</sup>   | 217.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup> | 211.0 <sup>(A)</sup> | 211.0 <sup>(A)</sup> | 166.0 <sup>(A)</sup> | 166.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> |
|                                                                                     | B  |                       | 585.0 <sup>(4)</sup>  | 446.0 <sup>(B)</sup> | 592.0 <sup>(4)</sup>  | 463.0 <sup>(B)</sup> | 552.0 <sup>(B)</sup>  | 396.0 <sup>(B)</sup> | 414.0 <sup>(2)</sup>   | 296.0 <sup>(B)</sup> | 296.0 <sup>(B)</sup> | 227.0 <sup>(B)</sup> | 227.0 <sup>(B)</sup> | 166.0 <sup>(A)</sup> | 166.0 <sup>(1)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> |
|                                                                                     | BV |                       | 648.0 <sup>(4)</sup>  | 446.0 <sup>(B)</sup> | 640.0 <sup>(E)</sup>  | 463.0 <sup>(B)</sup> | 555.0 <sup>(B)</sup>  | 396.0 <sup>(B)</sup> | 417.0 <sup>(2)</sup>   | 298.0 <sup>(B)</sup> | 298.0 <sup>(B)</sup> | 228.0 <sup>(B)</sup> | 228.0 <sup>(B)</sup> |                      |                      |                      |                      |
| 110                                                                                 | Ot |                       | 141.0 <sup>(4)</sup>  |                      | 186.0 <sup>(11)</sup> | 200.0 <sup>(A)</sup> | 200.0 <sup>(A)</sup>  | 197.0 <sup>(A)</sup> | 197.0 <sup>(A)</sup>   | 192.0 <sup>(A)</sup> | 192.0 <sup>(A)</sup> | 189.0 <sup>(A)</sup> | 189.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 120.0 <sup>(1)</sup> |
|                                                                                     | B  |                       | 519.0 <sup>(4)</sup>  |                      | 538.0 <sup>(4)</sup>  | 424.0 <sup>(B)</sup> | 523.0 <sup>(B)</sup>  | 379.0 <sup>(B)</sup> | 423.0 <sup>(B)</sup>   | 285.0 <sup>(B)</sup> | 290.0 <sup>(2)</sup> | 224.0 <sup>(B)</sup> | 224.0 <sup>(B)</sup> | 165.0 <sup>(B)</sup> | 165.0 <sup>(B)</sup> | 119.0 <sup>(A)</sup> | 120.0 <sup>(1)</sup> |
|                                                                                     | BV |                       | 577.0 <sup>(4)</sup>  |                      | 585.0 <sup>(4)</sup>  | 425.0 <sup>(B)</sup> | 533.0 <sup>(2)</sup>  | 379.0 <sup>(B)</sup> | 428.0 <sup>(B)</sup>   | 286.0 <sup>(B)</sup> | 291.0 <sup>(2)</sup> | 225.0 <sup>(B)</sup> | 225.0 <sup>(B)</sup> | 166.0 <sup>(B)</sup> | 166.0 <sup>(B)</sup> |                      |                      |
| 120                                                                                 | Ot |                       | 117.0 <sup>(4)</sup>  |                      | 155.0 <sup>(B)</sup>  | 179.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup>  | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup>   | 171.0 <sup>(A)</sup> | 171.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 156.0 <sup>(A)</sup> | 156.0 <sup>(A)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> |
|                                                                                     | B  |                       | 469.0 <sup>(4)</sup>  |                      | 486.0 <sup>(4)</sup>  | 371.0 <sup>(B)</sup> | 482.0 <sup>(4)</sup>  | 361.0 <sup>(B)</sup> | 412.0 <sup>(B)</sup>   | 273.0 <sup>(B)</sup> | 286.0 <sup>(2)</sup> | 221.0 <sup>(B)</sup> | 222.0 <sup>(2)</sup> | 163.0 <sup>(B)</sup> | 163.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> |
|                                                                                     | BV |                       | 523.0 <sup>(4)</sup>  |                      | 534.0 <sup>(B)</sup>  | 371.0 <sup>(B)</sup> | 524.0 <sup>(E)</sup>  | 361.0 <sup>(B)</sup> | 418.0 <sup>(2)</sup>   | 274.0 <sup>(B)</sup> | 287.0 <sup>(2)</sup> | 222.0 <sup>(B)</sup> | 222.0 <sup>(2)</sup> | 164.0 <sup>(B)</sup> | 164.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> |
| 130                                                                                 | Ot |                       | 95.6 <sup>(4)</sup>   |                      | 130.0 <sup>(11)</sup> | 160.0 <sup>(A)</sup> | 160.0 <sup>(A)</sup>  | 157.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup>   | 153.0 <sup>(A)</sup> | 153.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 142.0 <sup>(A)</sup> | 142.0 <sup>(A)</sup> | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> |
|                                                                                     | B  |                       | 423.0 <sup>(4)</sup>  |                      | 443.0 <sup>(E)</sup>  | 318.0 <sup>(B)</sup> | 444.0 <sup>(4)</sup>  | 333.0 <sup>(B)</sup> | 398.0 <sup>(2)</sup>   | 260.0 <sup>(B)</sup> | 286.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup> | 220.0 <sup>(2)</sup> | 161.0 <sup>(B)</sup> | 161.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> |
|                                                                                     | BV |                       | 473.0 <sup>(4)</sup>  |                      | 491.0 <sup>(7)</sup>  | 318.0 <sup>(B)</sup> | 484.0 <sup>(2)</sup>  | 332.0 <sup>(B)</sup> | 410.0 <sup>(2)</sup>   | 262.0 <sup>(B)</sup> | 288.0 <sup>(B)</sup> | 219.0 <sup>(B)</sup> | 222.0 <sup>(2)</sup> | 162.0 <sup>(B)</sup> | 162.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> |
| 140                                                                                 | Ot |                       | 77.5 <sup>(4)</sup>   |                      | 108.0 <sup>(11)</sup> | 138.0 <sup>(B)</sup> | 138.0 <sup>(B)</sup>  | 142.0 <sup>(A)</sup> | 142.0 <sup>(A)</sup>   | 138.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> | 128.0 <sup>(A)</sup> | 128.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> |
|                                                                                     | B  |                       | 384.0 <sup>(4)</sup>  |                      | 409.0 <sup>(11)</sup> | 259.0 <sup>(B)</sup> | 406.0 <sup>(4)</sup>  | 294.0 <sup>(B)</sup> | 394.0 <sup>(E)</sup>   | 247.0 <sup>(B)</sup> | 277.0 <sup>(2)</sup> | 215.0 <sup>(B)</sup> | 220.0 <sup>(2)</sup> | 159.0 <sup>(B)</sup> | 159.0 <sup>(2)</sup> | 115.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> |
|                                                                                     | BV |                       | 431.0 <sup>(4)</sup>  |                      | 451.0 <sup>(7)</sup>  | 259.0 <sup>(B)</sup> | 448.0 <sup>(3)</sup>  | 294.0 <sup>(B)</sup> | 407.0 <sup>(E)</sup>   | 249.0 <sup>(B)</sup> | 279.0 <sup>(2)</sup> | 216.0 <sup>(B)</sup> | 221.0 <sup>(2)</sup> | 160.0 <sup>(B)</sup> | 160.0 <sup>(2)</sup> | 115.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> |
| 150                                                                                 | Ot |                       | 62.0 <sup>(4)</sup>   |                      | 89.9 <sup>(11)</sup>  |                      | 117.0 <sup>(11)</sup> | 129.0 <sup>(A)</sup> | 129.0 <sup>(A)</sup>   | 124.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> |
|                                                                                     | B  |                       | 350.0 <sup>(4)</sup>  |                      | 374.0 <sup>(11)</sup> |                      | 375.0 <sup>(E)</sup>  | 266.0 <sup>(B)</sup> | 368.0 <sup>(E)</sup>   | 233.0 <sup>(B)</sup> | 271.0 <sup>(2)</sup> | 212.0 <sup>(B)</sup> | 219.0 <sup>(B)</sup> | 156.0 <sup>(B)</sup> | 158.0 <sup>(2)</sup> | 113.0 <sup>(B)</sup> | 113.0 <sup>(2)</sup> |
|                                                                                     | BV |                       | 394.0 <sup>(4)</sup>  |                      | 413.0 <sup>(9)</sup>  |                      | 415.0 <sup>(4)</sup>  | 266.0 <sup>(B)</sup> | 393.0 <sup>(E)</sup>   | 236.0 <sup>(B)</sup> | 273.0 <sup>(2)</sup> | 213.0 <sup>(B)</sup> | 220.0 <sup>(B)</sup> | 157.0 <sup>(B)</sup> | 159.0 <sup>(2)</sup> | 114.0 <sup>(B)</sup> | 114.0 <sup>(2)</sup> |
| 160                                                                                 | Ot |                       | 48.0 <sup>(4)</sup>   |                      | 73.1 <sup>(10)</sup>  |                      | 100.0 <sup>(B)</sup>  | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup>   | 113.0 <sup>(A)</sup> | 113.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 97.7 <sup>(A)</sup>  | 97.7 <sup>(A)</sup>  |
|                                                                                     | B  |                       | 320.0 <sup>(4)</sup>  |                      | 342.0 <sup>(10)</sup> |                      | 350.0 <sup>(6)</sup>  | 234.0 <sup>(B)</sup> | 344.0 <sup>(E)</sup>   | 220.0 <sup>(B)</sup> | 267.0 <sup>(E)</sup> | 208.0 <sup>(B)</sup> | 217.0 <sup>(B)</sup> | 154.0 <sup>(B)</sup> | 156.0 <sup>(2)</sup> | 111.0 <sup>(B)</sup> | 112.0 <sup>(2)</sup> |
|                                                                                     | BV |                       | 361.0 <sup>(4)</sup>  |                      | 383.0 <sup>(10)</sup> |                      | 384.0 <sup>(4)</sup>  | 234.0 <sup>(B)</sup> | 371.0 <sup>(2)</sup>   | 220.0 <sup>(B)</sup> | 269.0 <sup>(E)</sup> | 210.0 <sup>(B)</sup> | 219.0 <sup>(B)</sup> | 155.0 <sup>(B)</sup> | 157.0 <sup>(2)</sup> | 112.0 <sup>(B)</sup> | 112.0 <sup>(2)</sup> |
| 170                                                                                 | Ot |                       | 36.3 <sup>(4)</sup>   |                      | 58.2 <sup>(10)</sup>  |                      | 83.0 <sup>(11)</sup>  | 107.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup>   | 103.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup> | 93.6 <sup>(A)</sup>  | 93.6 <sup>(A)</sup>  | 87.9 <sup>(A)</sup>  | 87.9 <sup>(A)</sup>  |
|                                                                                     | B  |                       | 294.0 <sup>(4)</sup>  |                      | 313.0 <sup>(10)</sup> |                      | 323.0 <sup>(6)</sup>  | 204.0 <sup>(B)</sup> | 320.0 <sup>(3)</sup>   | 207.0 <sup>(B)</sup> | 259.0 <sup>(2)</sup> | 205.0 <sup>(B)</sup> | 216.0 <sup>(B)</sup> | 152.0 <sup>(B)</sup> | 155.0 <sup>(2)</sup> | 109.0 <sup>(B)</sup> | 110.0 <sup>(2)</sup> |
|                                                                                     | BV |                       | 333.0 <sup>(4)</sup>  |                      | 352.0 <sup>(10)</sup> |                      | 356.0 <sup>(5)</sup>  | 203.0 <sup>(B)</sup> | 349.0 <sup>(2)</sup>   | 207.0 <sup>(B)</sup> | 261.0 <sup>(2)</sup> | 206.0 <sup>(B)</sup> | 217.0 <sup>(B)</sup> | 153.0 <sup>(B)</sup> | 156.0 <sup>(2)</sup> | 110.0 <sup>(B)</sup> | 111.0 <sup>(2)</sup> |
| 180                                                                                 | Ot |                       | 26.8 <sup>(4)</sup>   |                      | 45.8 <sup>(9)</sup>   |                      | 68.7 <sup>(11)</sup>  | 92.8 <sup>(B)</sup>  | 92.8 <sup>(B)</sup>    | 94.0 <sup>(A)</sup>  | 94.0 <sup>(A)</sup>  | 91.6 <sup>(A)</sup>  | 91.6 <sup>(A)</sup>  | 84.7 <sup>(A)</sup>  | 84.7 <sup>(A)</sup>  | 79.1 <sup>(A)</sup>  | 79.1 <sup>(A)</sup>  |
|                                                                                     | B  |                       | 271.0 <sup>(4)</sup>  |                      | 288.0 <sup>(9)</sup>  |                      | 300.0 <sup>(7)</sup>  | 167.0 <sup>(B)</sup> | 299.0 <sup>(4)</sup>   | 197.0 <sup>(B)</sup> | 252.0 <sup>(2)</sup> | 199.0 <sup>(B)</sup> | 214.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 154.0 <sup>(B)</sup> | 108.0 <sup>(B)</sup> | 109.0 <sup>(2)</sup> |
|                                                                                     | BV |                       | 308.0 <sup>(4)</sup>  |                      | 325.0 <sup>(9)</sup>  |                      | 334.0 <sup>(6)</sup>  | 167.0 <sup>(B)</sup> | 328.0 <sup>(2)</sup>   | 197.0 <sup>(B)</sup> | 254.0 <sup>(2)</sup> | 200.0 <sup>(B)</sup> | 215.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> | 155.0 <sup>(B)</sup> | 108.0 <sup>(B)</sup> | 110.0 <sup>(2)</sup> |
| 190                                                                                 | Ot |                       |                       |                      | 34.6 <sup>(B)</sup>   |                      | 56.0 <sup>(11)</sup>  |                      | 75.4 <sup>(11)</sup>   | 85.9 <sup>(A)</sup>  | 85.9 <sup>(A)</sup>  | 83.2 <sup>(A)</sup>  | 83.2 <sup>(A)</sup>  | 76.7 <sup>(A)</sup>  | 76.7 <sup>(A)</sup>  | 70.5 <sup>(A)</sup>  | 70.5 <sup>(A)</sup>  |
|                                                                                     | B  |                       |                       |                      | 265.0 <sup>(B)</sup>  |                      | 281.0 <sup>(9)</sup>  |                      | 278.0 <sup>(4)</sup>   | 182.0 <sup>(B)</sup> | 246.0 <sup>(2)</sup> | 188.0 <sup>(B)</sup> | 212.0 <sup>(3)</sup> | 147.0 <sup>(B)</sup> | 152.0 <sup>(B)</sup> | 106.0 <sup>(B)</sup> | 108.0 <sup>(2)</sup> |
|                                                                                     | BV |                       |                       |                      | 300.0 <sup>(B)</sup>  |                      | 312.0 <sup>(7)</sup>  |                      | 308.0 <sup>(3)</sup>   | 182.0 <sup>(B)</sup> | 248.0 <sup>(2)</sup> | 188.0 <sup>(B)</sup> | 214.0 <sup>(3)</sup> | 149.0 <sup>(B)</sup> | 154.0 <sup>(B)</sup> | 106.0 <sup>(B)</sup> | 108.0 <sup>(2)</sup> |
| 200                                                                                 | Ot |                       |                       |                      | 25.4 <sup>(B)</sup>   |                      | 43.9 <sup>(10)</sup>  |                      | 63.4 <sup>(11)</sup>   | 78.7 <sup>(A)</sup>  | 78.7 <sup>(A)</sup>  | 76.1 <sup>(A)</sup>  | 76.1 <sup>(A)</sup>  | 69.0 <sup>(A)</sup>  | 69.0 <sup>(A)</sup>  | 63.5 <sup>(A)</sup>  | 63.5 <sup>(A)</sup>  |
|                                                                                     | B  |                       |                       |                      | 245.0 <sup>(B)</sup>  |                      | 262.0 <sup>(9)</sup>  |                      | 260.0 <sup>(B)</sup>   | 163.0 <sup>(B)</sup> | 238.0 <sup>(2)</sup> | 172.0 <sup>(B)</sup> | 211.0 <sup>(3)</sup> | 145.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> |
|                                                                                     | BV |                       |                       |                      | 278.0 <sup>(B)</sup>  |                      | 291.0 <sup>(7)</sup>  |                      | 288.0 <sup>(3)</sup>   | 162.0 <sup>(B)</sup> | 241.0 <sup>(2)</sup> | 172.0 <sup>(B)</sup> | 212.0 <sup>(3)</sup> | 146.0 <sup>(B)</sup> | 152.0 <sup>(B)</sup> | 105.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> |
| 220                                                                                 | Ot |                       |                       |                      |                       |                      | 25.2 <sup>(9)</sup>   |                      | 42.0 <sup>(11)</sup>   | 61.8 <sup>(B)</sup>  | 61.8 <sup>(B)</sup>  | 63.5 <sup>(A)</sup>  | 63.5 <sup>(A)</sup>  | 56.5 <sup>(A)</sup>  | 56.5 <sup>(A)</sup>  | 50.9 <sup>(A)</sup>  | 50.9 <sup>(A)</sup>  |
|                                                                                     | B  |                       |                       |                      |                       |                      | 225.0 <sup>(9)</sup>  |                      | 231.0 <sup>(6)</sup> ( |                      |                      |                      |                      |                      |                      |                      |                      |



197 ft



118 ft



39 - 315 ft



0 lb



330,700 lb



B BV

661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

110,200 lb - 328,500 lb

0 lb



Wmax



50

|     |    | HS 197 ft   |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|-----|----|-------------|------|-------------|------|-------------|------|----------------------|------|-------------|----------------------|-------------|----------------------|---------------------|----------------------|---------------------|---------------------|
|     |    | W39 ft      |      | W79 ft      |      | W118 ft     |      | W158 ft              |      | W197 ft     |                      | W236 ft     |                      | W276 ft             |                      | W315 ft             |                     |
|     |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                |
| 280 | Ot |             |      |             |      |             |      |                      |      |             |                      |             | 21.6 <sup>[11]</sup> | 30.3 <sup>[A]</sup> | 30.3 <sup>[A]</sup>  | 25.6 <sup>[A]</sup> | 25.6 <sup>[A]</sup> |
|     | B  |             |      |             |      |             |      | 155.0 <sup>[7]</sup> |      |             | 160.0 <sup>[7]</sup> |             | 158.0 <sup>[7]</sup> | 84.1 <sup>[B]</sup> | 133.0 <sup>[4]</sup> | 87.2 <sup>[B]</sup> | 96.2 <sup>[5]</sup> |
|     | BV |             |      |             |      |             |      | 179.0 <sup>[7]</sup> |      |             | 178.0 <sup>[4]</sup> |             | 173.0 <sup>[2]</sup> | 83.9 <sup>[B]</sup> | 134.0 <sup>[4]</sup> | 87.2 <sup>[B]</sup> | 96.9 <sup>[5]</sup> |
| 300 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      | 22.2 <sup>[B]</sup> | 22.2 <sup>[B]</sup>  | 20.5 <sup>[A]</sup> | 20.5 <sup>[A]</sup> |
|     | B  |             |      |             |      |             |      | 134.0 <sup>[4]</sup> |      |             | 143.0 <sup>[B]</sup> |             | 140.0 <sup>[4]</sup> | 57.7 <sup>[B]</sup> | 128.0 <sup>[7]</sup> | 73.3 <sup>[B]</sup> | 94.2 <sup>[5]</sup> |
|     | BV |             |      |             |      |             |      | 157.0 <sup>[4]</sup> |      |             | 160.0 <sup>[5]</sup> |             | 157.0 <sup>[2]</sup> | 57.8 <sup>[B]</sup> | 128.0 <sup>[3]</sup> | 73.1 <sup>[B]</sup> | 94.6 <sup>[5]</sup> |
| 320 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      | 16.2 <sup>[A]</sup> | 16.2 <sup>[A]</sup> |
|     | B  |             |      |             |      |             |      |                      |      |             | 125.0 <sup>[B]</sup> |             | 126.0 <sup>[4]</sup> |                     | 118.0 <sup>[3]</sup> | 57.7 <sup>[B]</sup> | 91.6 <sup>[5]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             | 146.0 <sup>[B]</sup> |             | 141.0 <sup>[3]</sup> |                     | 121.0 <sup>[3]</sup> | 57.6 <sup>[B]</sup> | 91.4 <sup>[5]</sup> |
| 340 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             | 108.0 <sup>[7]</sup> |             | 116.0 <sup>[B]</sup> |                     | 108.0 <sup>[4]</sup> |                     | 87.5 <sup>[4]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             | 128.0 <sup>[7]</sup> |             | 129.0 <sup>[4]</sup> |                     | 114.0 <sup>[3]</sup> |                     | 88.1 <sup>[4]</sup> |
| 360 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             |                      |             | 101.0 <sup>[B]</sup> |                     | 96.2 <sup>[5]</sup>  |                     | 83.7 <sup>[4]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             |                      |             | 116.0 <sup>[5]</sup> |                     | 106.0 <sup>[3]</sup> |                     | 83.9 <sup>[4]</sup> |
| 380 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             |                      |             | 86.0 <sup>[7]</sup>  |                     | 86.5 <sup>[4]</sup>  |                     | 78.8 <sup>[4]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             |                      |             | 104.0 <sup>[7]</sup> |                     | 98.4 <sup>[3]</sup>  |                     | 79.1 <sup>[4]</sup> |
| 400 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     | 77.8 <sup>[B]</sup>  |                     | 72.0 <sup>[4]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     | 88.4 <sup>[4]</sup>  |                     | 75.4 <sup>[3]</sup> |
| 420 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     | 64.0 <sup>[7]</sup>  |                     | 64.7 <sup>[5]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     | 79.7 <sup>[7]</sup>  |                     | 71.7 <sup>[3]</sup> |
| 440 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     | 57.2 <sup>[B]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     | 66.5 <sup>[3]</sup> |
| 460 | Ot |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     |                     |
|     | B  |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     | 45.9 <sup>[7]</sup> |
|     | BV |             |      |             |      |             |      |                      |      |             |                      |             |                      |                     |                      |                     | 59.2 <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°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°



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

|      |    |
|------|----|
| Wmax | 50 |
|------|----|

|  ft |    | HS 217 ft            |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------------------------------------------------------|----|----------------------|----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                                                     |    | W39ft                |                      | W79ft                |                       | W118ft               |                       | W158ft               |                      | W197ft               |                      | W236ft               |                      | W276ft               |                      | W315ft               |                      |
|                                                                                     |    | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 |
| 45                                                                                  | Ot |                      |                      | 577.0 <sup>(A)</sup> | 577.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      |                      | 690.0 <sup>(A)</sup> | 690.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 50                                                                                  | Ot | 490.0 <sup>(C)</sup> | 492.0 <sup>(1)</sup> | 512.0 <sup>(A)</sup> | 512.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  | 897.0 <sup>(C)</sup> | 906.0 <sup>(1)</sup> | 662.0 <sup>(A)</sup> | 692.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV | 914.0 <sup>(C)</sup> | 926.0 <sup>(1)</sup> |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 60                                                                                  | Ot |                      | 397.0 <sup>(4)</sup> | 416.0 <sup>(A)</sup> | 416.0 <sup>(A)</sup>  | 410.0 <sup>(A)</sup> | 410.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      | 872.0 <sup>(1)</sup> | 669.0 <sup>(B)</sup> | 693.0 <sup>(1)</sup>  | 505.0 <sup>(A)</sup> | 523.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      | 911.0 <sup>(1)</sup> | 669.0 <sup>(B)</sup> | 696.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 70                                                                                  | Ot |                      | 317.0 <sup>(4)</sup> | 347.0 <sup>(A)</sup> | 347.0 <sup>(A)</sup>  | 345.0 <sup>(A)</sup> | 345.0 <sup>(A)</sup>  | 339.0 <sup>(A)</sup> | 339.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      | 819.0 <sup>(B)</sup> | 618.0 <sup>(B)</sup> | 689.0 <sup>(1)</sup>  | 516.0 <sup>(B)</sup> | 526.0 <sup>(1)</sup>  | 389.0 <sup>(A)</sup> | 396.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      | 870.0 <sup>(B)</sup> | 617.0 <sup>(B)</sup> | 693.0 <sup>(1)</sup>  | 516.0 <sup>(B)</sup> | 526.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 80                                                                                  | Ot |                      | 257.0 <sup>(4)</sup> | 297.0 <sup>(A)</sup> | 297.0 <sup>(A)</sup>  | 294.0 <sup>(A)</sup> | 294.0 <sup>(A)</sup>  | 290.0 <sup>(A)</sup> | 290.0 <sup>(A)</sup> | 281.0 <sup>(A)</sup> | 281.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      | 738.0 <sup>(4)</sup> | 565.0 <sup>(B)</sup> | 687.0 <sup>(B)</sup>  | 487.0 <sup>(B)</sup> | 524.0 <sup>(1)</sup>  | 398.0 <sup>(B)</sup> | 398.0 <sup>(B)</sup> | 290.0 <sup>(A)</sup> | 294.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      | 794.0 <sup>(4)</sup> | 569.0 <sup>(B)</sup> | 691.0 <sup>(B)</sup>  | 487.0 <sup>(B)</sup> | 525.0 <sup>(1)</sup>  | 399.0 <sup>(B)</sup> | 399.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
| 90                                                                                  | Ot |                      | 210.0 <sup>(4)</sup> | 257.0 <sup>(A)</sup> | 257.0 <sup>(A)</sup>  | 254.0 <sup>(A)</sup> | 254.0 <sup>(A)</sup>  | 251.0 <sup>(A)</sup> | 251.0 <sup>(A)</sup> | 247.0 <sup>(A)</sup> | 247.0 <sup>(A)</sup> | 216.0 <sup>(A)</sup> | 216.0 <sup>(A)</sup> |                      |                      |                      |                      |
|                                                                                     | B  |                      | 653.0 <sup>(4)</sup> | 516.0 <sup>(B)</sup> | 641.0 <sup>(B)</sup>  | 459.0 <sup>(B)</sup> | 522.0 <sup>(1)</sup>  | 384.0 <sup>(B)</sup> | 384.0 <sup>(B)</sup> | 293.0 <sup>(B)</sup> | 293.0 <sup>(B)</sup> | 216.0 <sup>(A)</sup> | 217.0 <sup>(1)</sup> |                      |                      |                      |                      |
|                                                                                     | BV |                      | 715.0 <sup>(4)</sup> | 526.0 <sup>(B)</sup> | 654.0 <sup>(1)</sup>  | 458.0 <sup>(B)</sup> | 524.0 <sup>(1)</sup>  | 385.0 <sup>(B)</sup> | 385.0 <sup>(B)</sup> | 294.0 <sup>(B)</sup> | 294.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |
| 100                                                                                 | Ot |                      | 172.0 <sup>(4)</sup> | 216.0 <sup>(B)</sup> | 218.0 <sup>(11)</sup> | 223.0 <sup>(A)</sup> | 223.0 <sup>(A)</sup>  | 220.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup> | 206.0 <sup>(A)</sup> | 206.0 <sup>(A)</sup> | 158.0 <sup>(A)</sup> | 158.0 <sup>(A)</sup> |                      |                      |
|                                                                                     | B  |                      | 580.0 <sup>(4)</sup> | 465.0 <sup>(B)</sup> | 582.0 <sup>(3)</sup>  | 432.0 <sup>(B)</sup> | 511.0 <sup>(B)</sup>  | 369.0 <sup>(B)</sup> | 385.0 <sup>(2)</sup> | 284.0 <sup>(B)</sup> | 284.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup> | 158.0 <sup>(A)</sup> | 159.0 <sup>(1)</sup> | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> |
|                                                                                     | BV |                      | 643.0 <sup>(4)</sup> | 469.0 <sup>(B)</sup> | 618.0 <sup>(1)</sup>  | 430.0 <sup>(B)</sup> | 513.0 <sup>(B)</sup>  | 368.0 <sup>(B)</sup> | 385.0 <sup>(2)</sup> | 286.0 <sup>(B)</sup> | 286.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup> | 218.0 <sup>(B)</sup> |                      |                      |                      |                      |
| 110                                                                                 | Ot |                      | 141.0 <sup>(4)</sup> |                      | 185.0 <sup>(11)</sup> | 197.0 <sup>(A)</sup> | 197.0 <sup>(A)</sup>  | 195.0 <sup>(A)</sup> | 195.0 <sup>(A)</sup> | 192.0 <sup>(A)</sup> | 192.0 <sup>(A)</sup> | 187.0 <sup>(A)</sup> | 187.0 <sup>(A)</sup> | 157.0 <sup>(B)</sup> | 157.0 <sup>(B)</sup> | 114.0 <sup>(A)</sup> | 115.0 <sup>(1)</sup> |
|                                                                                     | B  |                      | 519.0 <sup>(4)</sup> |                      | 530.0 <sup>(4)</sup>  | 406.0 <sup>(B)</sup> | 489.0 <sup>(B)</sup>  | 352.0 <sup>(B)</sup> | 396.0 <sup>(B)</sup> | 274.0 <sup>(B)</sup> | 277.0 <sup>(2)</sup> | 215.0 <sup>(B)</sup> | 215.0 <sup>(B)</sup> | 158.0 <sup>(B)</sup> | 158.0 <sup>(B)</sup> | 114.0 <sup>(A)</sup> | 115.0 <sup>(1)</sup> |
|                                                                                     | BV |                      | 577.0 <sup>(4)</sup> |                      | 574.0 <sup>(1)</sup>  | 404.0 <sup>(B)</sup> | 496.0 <sup>(2)</sup>  | 352.0 <sup>(B)</sup> | 400.0 <sup>(B)</sup> | 276.0 <sup>(B)</sup> | 279.0 <sup>(2)</sup> | 216.0 <sup>(B)</sup> | 216.0 <sup>(B)</sup> | 159.0 <sup>(B)</sup> | 159.0 <sup>(B)</sup> |                      |                      |
| 120                                                                                 | Ot |                      | 115.0 <sup>(4)</sup> |                      | 154.0 <sup>(11)</sup> | 177.0 <sup>(A)</sup> | 177.0 <sup>(A)</sup>  | 174.0 <sup>(A)</sup> | 174.0 <sup>(A)</sup> | 171.0 <sup>(A)</sup> | 171.0 <sup>(A)</sup> | 167.0 <sup>(A)</sup> | 167.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 114.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> |
|                                                                                     | B  |                      | 466.0 <sup>(4)</sup> |                      | 485.0 <sup>(7)</sup>  | 378.0 <sup>(B)</sup> | 465.0 <sup>(B)</sup>  | 336.0 <sup>(B)</sup> | 390.0 <sup>(B)</sup> | 263.0 <sup>(B)</sup> | 274.0 <sup>(2)</sup> | 212.0 <sup>(B)</sup> | 212.0 <sup>(B)</sup> | 157.0 <sup>(B)</sup> | 157.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 519.0 <sup>(4)</sup> |                      | 526.0 <sup>(3)</sup>  | 378.0 <sup>(B)</sup> | 484.0 <sup>(2)</sup>  | 335.0 <sup>(B)</sup> | 391.0 <sup>(B)</sup> | 265.0 <sup>(B)</sup> | 276.0 <sup>(2)</sup> | 213.0 <sup>(B)</sup> | 213.0 <sup>(B)</sup> | 157.0 <sup>(B)</sup> | 157.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> |
| 130                                                                                 | Ot |                      | 94.2 <sup>(4)</sup>  |                      | 130.0 <sup>(11)</sup> | 158.0 <sup>(A)</sup> | 158.0 <sup>(A)</sup>  | 156.0 <sup>(A)</sup> | 156.0 <sup>(A)</sup> | 153.0 <sup>(A)</sup> | 153.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup> | 112.0 <sup>(B)</sup> | 112.0 <sup>(B)</sup> |
|                                                                                     | B  |                      | 421.0 <sup>(4)</sup> |                      | 442.0 <sup>(B)</sup>  | 328.0 <sup>(B)</sup> | 435.0 <sup>(5)</sup>  | 321.0 <sup>(B)</sup> | 379.0 <sup>(B)</sup> | 252.0 <sup>(B)</sup> | 276.0 <sup>(B)</sup> | 209.0 <sup>(B)</sup> | 211.0 <sup>(2)</sup> | 155.0 <sup>(B)</sup> | 155.0 <sup>(B)</sup> | 112.0 <sup>(B)</sup> | 112.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 471.0 <sup>(4)</sup> |                      | 485.0 <sup>(4)</sup>  | 328.0 <sup>(B)</sup> | 475.0 <sup>(E)</sup>  | 319.0 <sup>(B)</sup> | 387.0 <sup>(2)</sup> | 254.0 <sup>(B)</sup> | 278.0 <sup>(B)</sup> | 210.0 <sup>(B)</sup> | 212.0 <sup>(2)</sup> | 156.0 <sup>(B)</sup> | 156.0 <sup>(B)</sup> | 113.0 <sup>(B)</sup> | 113.0 <sup>(B)</sup> |
| 140                                                                                 | Ot |                      | 75.8 <sup>(4)</sup>  |                      | 107.0 <sup>(11)</sup> | 136.0 <sup>(B)</sup> | 136.0 <sup>(B)</sup>  | 140.0 <sup>(A)</sup> | 140.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 126.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> |
|                                                                                     | B  |                      | 382.0 <sup>(4)</sup> |                      | 404.0 <sup>(E)</sup>  | 271.0 <sup>(B)</sup> | 404.0 <sup>(5)</sup>  | 299.0 <sup>(B)</sup> | 368.0 <sup>(2)</sup> | 240.0 <sup>(B)</sup> | 268.0 <sup>(2)</sup> | 206.0 <sup>(B)</sup> | 211.0 <sup>(2)</sup> | 152.0 <sup>(B)</sup> | 153.0 <sup>(2)</sup> | 111.0 <sup>(B)</sup> | 111.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 428.0 <sup>(4)</sup> |                      | 449.0 <sup>(E)</sup>  | 271.0 <sup>(B)</sup> | 441.0 <sup>(3)</sup>  | 298.0 <sup>(B)</sup> | 384.0 <sup>(2)</sup> | 242.0 <sup>(B)</sup> | 270.0 <sup>(2)</sup> | 207.0 <sup>(B)</sup> | 212.0 <sup>(2)</sup> | 154.0 <sup>(B)</sup> | 154.0 <sup>(2)</sup> | 111.0 <sup>(B)</sup> | 111.0 <sup>(B)</sup> |
| 150                                                                                 | Ot |                      | 59.9 <sup>(4)</sup>  |                      | 88.8 <sup>(11)</sup>  |                      | 115.0 <sup>(11)</sup> | 127.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> | 125.0 <sup>(A)</sup> | 125.0 <sup>(4)</sup> | 121.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup> | 114.0 <sup>(A)</sup> | 114.0 <sup>(A)</sup> | 105.0 <sup>(A)</sup> | 105.0 <sup>(A)</sup> |
|                                                                                     | B  |                      | 348.0 <sup>(4)</sup> |                      | 372.0 <sup>(11)</sup> |                      | 372.0 <sup>(5)</sup>  | 271.0 <sup>(B)</sup> | 360.0 <sup>(E)</sup> | 228.0 <sup>(B)</sup> | 264.0 <sup>(2)</sup> | 203.0 <sup>(B)</sup> | 210.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 152.0 <sup>(2)</sup> | 109.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 391.0 <sup>(4)</sup> |                      | 414.0 <sup>(1B)</sup> |                      | 410.0 <sup>(E)</sup>  | 271.0 <sup>(B)</sup> | 383.0 <sup>(E)</sup> | 230.0 <sup>(B)</sup> | 265.0 <sup>(2)</sup> | 204.0 <sup>(B)</sup> | 212.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> | 153.0 <sup>(2)</sup> | 110.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> |
| 160                                                                                 | Ot |                      | 46.3 <sup>(4)</sup>  |                      | 71.7 <sup>(11)</sup>  |                      | 96.4 <sup>(B)</sup>   | 116.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> | 113.0 <sup>(A)</sup> | 113.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 96.0 <sup>(A)</sup>  | 96.0 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 318.0 <sup>(4)</sup> |                      | 340.0 <sup>(11)</sup> |                      | 344.0 <sup>(4)</sup>  | 240.0 <sup>(B)</sup> | 338.0 <sup>(E)</sup> | 217.0 <sup>(B)</sup> | 260.0 <sup>(E)</sup> | 200.0 <sup>(B)</sup> | 209.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 150.0 <sup>(2)</sup> | 107.0 <sup>(B)</sup> | 108.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 360.0 <sup>(4)</sup> |                      | 379.0 <sup>(11)</sup> |                      | 383.0 <sup>(5)</sup>  | 240.0 <sup>(B)</sup> | 369.0 <sup>(E)</sup> | 218.0 <sup>(B)</sup> | 262.0 <sup>(E)</sup> | 201.0 <sup>(B)</sup> | 211.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 152.0 <sup>(2)</sup> | 108.0 <sup>(B)</sup> | 108.0 <sup>(2)</sup> |
| 170                                                                                 | Ot |                      | 33.6 <sup>(4)</sup>  |                      | 57.5 <sup>(10)</sup>  |                      | 81.3 <sup>(11)</sup>  | 106.0 <sup>(A)</sup> | 106.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 99.2 <sup>(A)</sup>  | 99.2 <sup>(A)</sup>  | 92.2 <sup>(A)</sup>  | 92.2 <sup>(A)</sup>  | 86.3 <sup>(A)</sup>  | 86.3 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 291.0 <sup>(4)</sup> |                      | 312.0 <sup>(10)</sup> |                      | 322.0 <sup>(7)</sup>  | 209.0 <sup>(B)</sup> | 316.0 <sup>(E)</sup> | 204.0 <sup>(B)</sup> | 254.0 <sup>(E)</sup> | 197.0 <sup>(B)</sup> | 208.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 149.0 <sup>(2)</sup> | 106.0 <sup>(B)</sup> | 107.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 330.0 <sup>(4)</sup> |                      | 350.0 <sup>(10)</sup> |                      | 355.0 <sup>(5)</sup>  | 208.0 <sup>(B)</sup> | 346.0 <sup>(3)</sup> | 205.0 <sup>(B)</sup> | 256.0 <sup>(E)</sup> | 198.0 <sup>(B)</sup> | 210.0 <sup>(B)</sup> | 147.0 <sup>(B)</sup> | 150.0 <sup>(2)</sup> | 106.0 <sup>(B)</sup> | 107.0 <sup>(2)</sup> |
| 180                                                                                 | Ot |                      | 25.0 <sup>(4)</sup>  |                      | 43.9 <sup>(9)</sup>   |                      | 66.5 <sup>(11)</sup>  | 90.8 <sup>(B)</sup>  | 90.8 <sup>(B)</sup>  | 94.3 <sup>(A)</sup>  | 94.3 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 83.2 <sup>(A)</sup>  | 83.2 <sup>(A)</sup>  | 77.6 <sup>(A)</sup>  | 77.6 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 269.0 <sup>(4)</sup> |                      | 286.0 <sup>(9)</sup>  |                      | 299.0 <sup>(8)</sup>  | 175.0 <sup>(B)</sup> | 296.0 <sup>(E)</sup> | 195.0 <sup>(B)</sup> | 248.0 <sup>(2)</sup> | 194.0 <sup>(B)</sup> | 207.0 <sup>(B)</sup> | 144.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> | 105.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 306.0 <sup>(4)</sup> |                      | 322.0 <sup>(9)</sup>  |                      | 329.0 <sup>(4)</sup>  | 175.0 <sup>(B)</sup> | 325.0 <sup>(3)</sup> | 196.0 <sup>(B)</sup> | 250.0 <sup>(2)</sup> | 194.0 <sup>(B)</sup> | 208.0 <sup>(B)</sup> | 145.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 105.0 <sup>(B)</sup> | 106.0 <sup>(2)</sup> |
| 190                                                                                 | Ot |                      |                      |                      | 33.3 <sup>(9)</sup>   |                      | 54.1 <sup>(11)</sup>  |                      | 74.4 <sup>(11)</sup> | 86.3 <sup>(A)</sup>  | 86.3 <sup>(A)</sup>  | 82.1 <sup>(A)</sup>  | 82.1 <sup>(A)</sup>  | 75.2 <sup>(A)</sup>  | 75.2 <sup>(A)</sup>  | 69.1 <sup>(A)</sup>  | 69.1 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 247.0 <sup>(4)</sup> |                      | 264.0 <sup>(9)</sup>  |                      | 277.0 <sup>(8)</sup>  |                      | 277.0 <sup>(B)</sup> | 184.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup> | 188.0 <sup>(B)</sup> | 205.0 <sup>(3)</sup> | 142.0 <sup>(B)</sup> | 147.0 <sup>(B)</sup> | 102.0 <sup>(B)</sup> | 104.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 282.0 <sup>(4)</sup> |                      | 299.0 <sup>(9)</sup>  |                      | 309.0 <sup>(7)</sup>  |                      | 304.0 <sup>(3)</sup> | 184.0 <sup>(B)</sup> | 244.0 <sup>(2)</sup> | 188.0 <sup>(B)</sup> | 207.0 <sup>(3)</sup> | 143.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 103.0 <sup>(B)</sup> | 105.0 <sup>(2)</sup> |
| 200                                                                                 | Ot |                      |                      |                      | 23.8 <sup>(8)</sup>   |                      | 41.9 <sup>(11)</sup>  |                      | 63.0 <sup>(B)</sup>  | 79.1 <sup>(A)</sup>  | 79.1 <sup>(A)</sup>  | 75.0 <sup>(A)</sup>  | 75.0 <sup>(A)</sup>  | 67.8 <sup>(A)</sup>  | 67.8 <sup>(A)</sup>  | 62.5 <sup>(A)</sup>  | 62.5 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 228.0 <sup>(4)</sup> |                      | 243.0 <sup>(8)</sup>  |                      | 260.0 <sup>(11)</sup> |                      | 258.0 <sup>(B)</sup> | 168.0 <sup>(B)</sup> | 236.0 <sup>(2)</sup> | 174.0 <sup>(B)</sup> | 203.0 <sup>(3)</sup> | 140.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> | 103.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 262.0 <sup>(4)</sup> |                      | 276.0 <sup>(8)</sup>  |                      | 290.0 <sup>(8)</sup>  |                      | 286.0 <sup>(4)</sup> | 168.0 <sup>(B)</sup> | 238.0 <sup>(2)</sup> | 174.0 <sup>(B)</sup> | 205.0 <sup>(3)</sup> | 141.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> |
| 220                                                                                 | Ot |                      |                      |                      |                       |                      | 23.0 <sup>(9)</sup>   |                      | 40.5 <sup>(E)</sup>  | 61.4 <sup>(B)</sup>  | 61.4 <sup>(B)</sup>  | 62.5 <sup>(A)</sup>  | 62.5 <sup>(A)</sup>  | 55.7 <sup>(A)</sup>  | 55.7 <sup>(A)</sup>  | 49.9 <sup>(A)</sup>  | 49.9 <sup>(A)</sup>  |
|                                                                                     | B  |                      |                      |                      | 208.0 <sup>(7)</sup>  |                      | 222.0 <sup>(9)</sup>  |                      | 227.0 <sup>(4)</sup> | 126.0 <sup>(B)</sup> | 218.0 <sup>(3)</sup> | 149.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |



217 ft  
HS



118 ft  
D



39 - 315 ft  
W



0 lb



330,700 lb



B BV

661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

110,200 lb - 328,500 lb

0 lb

Wmax



50

|     |    | HS 217 ft   |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|-----|----|-------------|------|-------------|------|----------------------|------|----------------------|------|----------------------|------|----------------------|---------------------|----------------------|---------------------|---------------------|---------------------|
|     |    | W39 ft      |      | W79 ft      |      | W118 ft              |      | W158 ft              |      | W197 ft              |      | W236 ft              |                     | W276 ft              |                     | W315 ft             |                     |
|     |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°          | Wmax                | 87°/85°/84°          | Wmax                | 87°/85°/84°         | Wmax                |
| 280 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      | 23.1 <sup>[D]</sup> | 29.4 <sup>[A]</sup>  | 29.4 <sup>[A]</sup> | 24.9 <sup>[A]</sup> | 24.9 <sup>[A]</sup> |
|     | B  |             |      |             |      | 142.0 <sup>[H]</sup> |      | 153.0 <sup>[H]</sup> |      | 159.0 <sup>[F]</sup> |      | 155.0 <sup>[A]</sup> | 85.9 <sup>[B]</sup> | 132.0 <sup>[A]</sup> | 86.6 <sup>[B]</sup> | 93.7 <sup>[G]</sup> |                     |
|     | BV |             |      |             |      | 166.0 <sup>[H]</sup> |      | 177.0 <sup>[H]</sup> |      | 175.0 <sup>[A]</sup> |      | 171.0 <sup>[G]</sup> | 85.7 <sup>[B]</sup> | 133.0 <sup>[A]</sup> | 86.8 <sup>[B]</sup> | 94.5 <sup>[G]</sup> |                     |
| 300 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      | 11.1 <sup>[E]</sup> | 21.1 <sup>[B]</sup>  | 21.1 <sup>[B]</sup> | 19.8 <sup>[A]</sup> | 19.8 <sup>[A]</sup> |
|     | B  |             |      |             |      |                      |      | 132.0 <sup>[F]</sup> |      | 142.0 <sup>[G]</sup> |      | 140.0 <sup>[G]</sup> | 61.5 <sup>[B]</sup> | 126.0 <sup>[A]</sup> | 74.7 <sup>[B]</sup> | 92.2 <sup>[G]</sup> |                     |
|     | BV |             |      |             |      |                      |      | 155.0 <sup>[F]</sup> |      | 160.0 <sup>[A]</sup> |      | 155.0 <sup>[G]</sup> | 61.6 <sup>[B]</sup> | 127.0 <sup>[G]</sup> | 74.3 <sup>[B]</sup> | 92.9 <sup>[G]</sup> |                     |
| 320 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     | 15.5 <sup>[A]</sup> | 15.5 <sup>[A]</sup> |
|     | B  |             |      |             |      |                      |      |                      |      | 124.0 <sup>[G]</sup> |      | 126.0 <sup>[A]</sup> |                     | 120.0 <sup>[F]</sup> | 59.3 <sup>[B]</sup> | 90.2 <sup>[G]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      | 145.0 <sup>[B]</sup> |      | 142.0 <sup>[A]</sup> |                     | 122.0 <sup>[G]</sup> | 59.1 <sup>[B]</sup> | 90.9 <sup>[G]</sup> |                     |
| 340 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      | 107.0 <sup>[B]</sup> |      | 112.0 <sup>[B]</sup> |                     | 106.0 <sup>[A]</sup> | 39.4 <sup>[B]</sup> | 87.4 <sup>[G]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      | 127.0 <sup>[B]</sup> |      | 127.0 <sup>[G]</sup> |                     | 116.0 <sup>[G]</sup> | 39.2 <sup>[B]</sup> | 87.9 <sup>[G]</sup> |                     |
| 360 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                      |      | 99.8 <sup>[G]</sup>  |                     | 95.0 <sup>[G]</sup>  |                     | 84.0 <sup>[F]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      |                      |      | 115.0 <sup>[G]</sup> |                     | 107.0 <sup>[G]</sup> |                     | 83.9 <sup>[F]</sup> |                     |
| 380 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                      |      | 84.7 <sup>[B]</sup>  |                     | 86.9 <sup>[F]</sup>  |                     | 79.2 <sup>[A]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      |                      |      | 103.0 <sup>[B]</sup> |                     | 98.3 <sup>[G]</sup>  |                     | 80.4 <sup>[A]</sup> |                     |
| 400 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                      |      |                      |                     | 76.3 <sup>[G]</sup>  |                     | 71.9 <sup>[G]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      |                      |      |                      |                     | 87.4 <sup>[G]</sup>  |                     | 76.4 <sup>[A]</sup> |                     |
| 420 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                      |      |                      |                     | 62.7 <sup>[B]</sup>  |                     | 63.0 <sup>[B]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      |                      |      |                      |                     | 79.2 <sup>[B]</sup>  |                     | 71.6 <sup>[A]</sup> |                     |
| 440 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     | 55.4 <sup>[B]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     | 65.6 <sup>[A]</sup> |                     |
| 460 | Ot |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     | 44.6 <sup>[B]</sup> |                     |
|     | BV |             |      |             |      |                      |      |                      |      |                      |      |                      |                     |                      |                     | 59.2 <sup>[A]</sup> |                     |

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

A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°



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

|      |
|------|
| Wmax |
| 50   |

|  ft |    | HS 236 ft            |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|-------------------------------------------------------------------------------------|----|----------------------|----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                                                     |    | W39ft                |                      | W79ft                |                       | W118ft               |                       | W158ft               |                      | W197ft               |                      | W236ft               |                      | W276ft               |                      | W315ft               |                      |
|                                                                                     |    | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 |
| 45                                                                                  | Ot |                      |                      | 568.0 <sup>(A)</sup> | 568.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      |                      | 623.0 <sup>(A)</sup> | 623.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 50                                                                                  | Ot | 482.0 <sup>(C)</sup> | 482.0 <sup>(C)</sup> | 508.0 <sup>(A)</sup> | 508.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  | 812.0 <sup>(C)</sup> | 812.0 <sup>(C)</sup> | 601.0 <sup>(A)</sup> | 621.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV | 825.0 <sup>(C)</sup> | 825.0 <sup>(C)</sup> |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 60                                                                                  | Ot |                      | 392.0 <sup>(3)</sup> | 413.0 <sup>(A)</sup> | 413.0 <sup>(A)</sup>  | 408.0 <sup>(A)</sup> | 408.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      | 799.0 <sup>(1)</sup> | 610.0 <sup>(B)</sup> | 621.0 <sup>(1)</sup>  | 465.0 <sup>(A)</sup> | 477.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      | 824.0 <sup>(1)</sup> | 615.0 <sup>(B)</sup> | 629.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 70                                                                                  | Ot |                      | 317.0 <sup>(4)</sup> | 345.0 <sup>(A)</sup> | 345.0 <sup>(B)</sup>  | 342.0 <sup>(A)</sup> | 342.0 <sup>(A)</sup>  | 336.0 <sup>(A)</sup> | 336.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      | 781.0 <sup>(B)</sup> | 567.0 <sup>(B)</sup> | 619.0 <sup>(1)</sup>  | 475.0 <sup>(B)</sup> | 479.0 <sup>(1)</sup>  | 360.0 <sup>(A)</sup> | 365.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      | 818.0 <sup>(B)</sup> | 570.0 <sup>(B)</sup> | 625.0 <sup>(1)</sup>  | 475.0 <sup>(B)</sup> | 479.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 80                                                                                  | Ot |                      | 252.0 <sup>(4)</sup> | 295.0 <sup>(A)</sup> | 295.0 <sup>(A)</sup>  | 292.0 <sup>(A)</sup> | 292.0 <sup>(A)</sup>  | 288.0 <sup>(A)</sup> | 288.0 <sup>(A)</sup> | 271.0 <sup>(A)</sup> | 271.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |
|                                                                                     | B  |                      | 715.0 <sup>(4)</sup> | 517.0 <sup>(B)</sup> | 618.0 <sup>(1)</sup>  | 449.0 <sup>(B)</sup> | 477.0 <sup>(1)</sup>  | 368.0 <sup>(B)</sup> | 368.0 <sup>(B)</sup> | 272.0 <sup>(A)</sup> | 275.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |
|                                                                                     | BV |                      | 759.0 <sup>(4)</sup> | 526.0 <sup>(B)</sup> | 620.0 <sup>(1)</sup>  | 448.0 <sup>(B)</sup> | 477.0 <sup>(1)</sup>  | 369.0 <sup>(B)</sup> | 370.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
| 90                                                                                  | Ot |                      | 209.0 <sup>(4)</sup> | 256.0 <sup>(A)</sup> | 256.0 <sup>(A)</sup>  | 253.0 <sup>(A)</sup> | 253.0 <sup>(A)</sup>  | 250.0 <sup>(A)</sup> | 250.0 <sup>(A)</sup> | 243.0 <sup>(A)</sup> | 243.0 <sup>(A)</sup> | 204.0 <sup>(A)</sup> | 204.0 <sup>(A)</sup> |                      |                      |                      |                      |
|                                                                                     | B  |                      | 642.0 <sup>(4)</sup> | 475.0 <sup>(B)</sup> | 594.0 <sup>(B)</sup>  | 424.0 <sup>(B)</sup> | 474.0 <sup>(1)</sup>  | 356.0 <sup>(B)</sup> | 356.0 <sup>(B)</sup> | 276.0 <sup>(B)</sup> | 276.0 <sup>(B)</sup> | 204.0 <sup>(A)</sup> | 205.0 <sup>(1)</sup> |                      |                      |                      |                      |
|                                                                                     | BV |                      | 696.0 <sup>(1)</sup> | 485.0 <sup>(B)</sup> | 605.0 <sup>(1)</sup>  | 423.0 <sup>(B)</sup> | 475.0 <sup>(1)</sup>  | 355.0 <sup>(B)</sup> | 368.0 <sup>(1)</sup> | 277.0 <sup>(B)</sup> | 277.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |
| 100                                                                                 | Ot |                      | 166.0 <sup>(4)</sup> | 214.0 <sup>(B)</sup> | 218.0 <sup>(11)</sup> | 222.0 <sup>(A)</sup> | 222.0 <sup>(A)</sup>  | 219.0 <sup>(A)</sup> | 219.0 <sup>(A)</sup> | 214.0 <sup>(A)</sup> | 214.0 <sup>(A)</sup> | 198.0 <sup>(A)</sup> | 198.0 <sup>(A)</sup> | 150.0 <sup>(A)</sup> | 150.0 <sup>(1)</sup> |                      |                      |
|                                                                                     | B  |                      | 571.0 <sup>(2)</sup> | 438.0 <sup>(B)</sup> | 560.0 <sup>(B)</sup>  | 399.0 <sup>(B)</sup> | 469.0 <sup>(B)</sup>  | 341.0 <sup>(B)</sup> | 352.0 <sup>(2)</sup> | 268.0 <sup>(B)</sup> | 268.0 <sup>(B)</sup> | 206.0 <sup>(B)</sup> | 206.0 <sup>(B)</sup> | 150.0 <sup>(A)</sup> | 151.0 <sup>(1)</sup> |                      |                      |
|                                                                                     | BV |                      | 631.0 <sup>(2)</sup> | 448.0 <sup>(B)</sup> | 584.0 <sup>(1)</sup>  | 398.0 <sup>(B)</sup> | 470.0 <sup>(B)</sup>  | 340.0 <sup>(B)</sup> | 367.0 <sup>(1)</sup> | 270.0 <sup>(B)</sup> | 270.0 <sup>(B)</sup> | 207.0 <sup>(B)</sup> | 207.0 <sup>(B)</sup> |                      |                      |                      |                      |
| 110                                                                                 | Ot |                      | 139.0 <sup>(4)</sup> |                      | 184.0 <sup>(11)</sup> | 197.0 <sup>(A)</sup> | 197.0 <sup>(A)</sup>  | 194.0 <sup>(A)</sup> | 194.0 <sup>(A)</sup> | 190.0 <sup>(A)</sup> | 190.0 <sup>(A)</sup> | 184.0 <sup>(A)</sup> | 184.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 148.0 <sup>(1)</sup> | 108.0 <sup>(A)</sup> | 109.0 <sup>(1)</sup> |
|                                                                                     | B  |                      | 515.0 <sup>(4)</sup> |                      | 520.0 <sup>(B)</sup>  | 373.0 <sup>(B)</sup> | 451.0 <sup>(B)</sup>  | 326.0 <sup>(B)</sup> | 353.0 <sup>(2)</sup> | 259.0 <sup>(B)</sup> | 261.0 <sup>(2)</sup> | 204.0 <sup>(B)</sup> | 204.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup> | 108.0 <sup>(A)</sup> | 109.0 <sup>(1)</sup> |
|                                                                                     | BV |                      | 571.0 <sup>(4)</sup> |                      | 562.0 <sup>(1)</sup>  | 374.0 <sup>(B)</sup> | 454.0 <sup>(2)</sup>  | 325.0 <sup>(B)</sup> | 365.0 <sup>(1)</sup> | 261.0 <sup>(B)</sup> | 263.0 <sup>(2)</sup> | 204.0 <sup>(B)</sup> | 204.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> | 151.0 <sup>(B)</sup> |                      |                      |
| 120                                                                                 | Ot |                      | 112.0 <sup>(4)</sup> |                      | 154.0 <sup>(11)</sup> | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup>  | 173.0 <sup>(A)</sup> | 173.0 <sup>(A)</sup> | 169.0 <sup>(A)</sup> | 169.0 <sup>(A)</sup> | 164.0 <sup>(A)</sup> | 164.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 144.0 <sup>(A)</sup> | 106.0 <sup>(A)</sup> | 108.0 <sup>(1)</sup> |
|                                                                                     | B  |                      | 460.0 <sup>(4)</sup> |                      | 477.0 <sup>(B)</sup>  | 349.0 <sup>(B)</sup> | 431.0 <sup>(2)</sup>  | 312.0 <sup>(B)</sup> | 359.0 <sup>(B)</sup> | 250.0 <sup>(B)</sup> | 259.0 <sup>(2)</sup> | 201.0 <sup>(B)</sup> | 201.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 106.0 <sup>(A)</sup> | 108.0 <sup>(1)</sup> |
|                                                                                     | BV |                      | 512.0 <sup>(4)</sup> |                      | 517.0 <sup>(2)</sup>  | 355.0 <sup>(B)</sup> | 450.0 <sup>(2)</sup>  | 310.0 <sup>(B)</sup> | 359.0 <sup>(B)</sup> | 252.0 <sup>(B)</sup> | 261.0 <sup>(2)</sup> | 202.0 <sup>(B)</sup> | 202.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> |                      |                      |
| 130                                                                                 | Ot |                      | 91.3 <sup>(4)</sup>  |                      | 128.0 <sup>(11)</sup> | 158.0 <sup>(A)</sup> | 158.0 <sup>(A)</sup>  | 156.0 <sup>(A)</sup> | 156.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 135.0 <sup>(A)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> |
|                                                                                     | B  |                      | 418.0 <sup>(4)</sup> |                      | 439.0 <sup>(B)</sup>  | 326.0 <sup>(B)</sup> | 420.0 <sup>(E)</sup>  | 298.0 <sup>(B)</sup> | 351.0 <sup>(2)</sup> | 241.0 <sup>(B)</sup> | 263.0 <sup>(B)</sup> | 198.0 <sup>(B)</sup> | 200.0 <sup>(2)</sup> | 147.0 <sup>(B)</sup> | 147.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 466.0 <sup>(4)</sup> |                      | 477.0 <sup>(E)</sup>  | 330.0 <sup>(B)</sup> | 456.0 <sup>(E)</sup>  | 296.0 <sup>(B)</sup> | 353.0 <sup>(2)</sup> | 242.0 <sup>(B)</sup> | 265.0 <sup>(B)</sup> | 199.0 <sup>(B)</sup> | 201.0 <sup>(2)</sup> | 148.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> |
| 140                                                                                 | Ot |                      | 72.3 <sup>(4)</sup>  |                      | 107.0 <sup>(11)</sup> | 134.0 <sup>(B)</sup> | 134.0 <sup>(B)</sup>  | 140.0 <sup>(A)</sup> | 140.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 103.0 <sup>(B)</sup> | 103.0 <sup>(B)</sup> |
|                                                                                     | B  |                      | 378.0 <sup>(4)</sup> |                      | 402.0 <sup>(10)</sup> | 284.0 <sup>(B)</sup> | 389.0 <sup>(E)</sup>  | 284.0 <sup>(B)</sup> | 346.0 <sup>(2)</sup> | 230.0 <sup>(B)</sup> | 257.0 <sup>(B)</sup> | 195.0 <sup>(B)</sup> | 199.0 <sup>(2)</sup> | 145.0 <sup>(B)</sup> | 145.0 <sup>(2)</sup> | 105.0 <sup>(B)</sup> | 105.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 423.0 <sup>(4)</sup> |                      | 442.0 <sup>(E)</sup>  | 284.0 <sup>(B)</sup> | 432.0 <sup>(E)</sup>  | 281.0 <sup>(B)</sup> | 351.0 <sup>(2)</sup> | 232.0 <sup>(B)</sup> | 259.0 <sup>(B)</sup> | 196.0 <sup>(B)</sup> | 201.0 <sup>(2)</sup> | 146.0 <sup>(B)</sup> | 146.0 <sup>(2)</sup> | 106.0 <sup>(B)</sup> | 106.0 <sup>(B)</sup> |
| 150                                                                                 | Ot |                      | 56.8 <sup>(4)</sup>  |                      | 86.7 <sup>(11)</sup>  |                      | 115.0 <sup>(11)</sup> | 127.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> | 123.0 <sup>(A)</sup> | 123.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup> |
|                                                                                     | B  |                      | 345.0 <sup>(4)</sup> |                      | 368.0 <sup>(11)</sup> |                      | 364.0 <sup>(6)</sup>  | 270.0 <sup>(B)</sup> | 348.0 <sup>(E)</sup> | 220.0 <sup>(B)</sup> | 252.0 <sup>(2)</sup> | 192.0 <sup>(B)</sup> | 199.0 <sup>(B)</sup> | 143.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 104.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 387.0 <sup>(4)</sup> |                      | 410.0 <sup>(11)</sup> |                      | 403.0 <sup>(3)</sup>  | 273.0 <sup>(B)</sup> | 351.0 <sup>(E)</sup> | 222.0 <sup>(B)</sup> | 254.0 <sup>(2)</sup> | 193.0 <sup>(B)</sup> | 201.0 <sup>(B)</sup> | 144.0 <sup>(B)</sup> | 145.0 <sup>(2)</sup> | 104.0 <sup>(B)</sup> | 104.0 <sup>(B)</sup> |
| 160                                                                                 | Ot |                      | 42.6 <sup>(4)</sup>  |                      | 70.6 <sup>(11)</sup>  |                      | 96.3 <sup>(11)</sup>  | 116.0 <sup>(A)</sup> | 116.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup> | 92.9 <sup>(A)</sup>  | 92.9 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 314.0 <sup>(4)</sup> |                      | 338.0 <sup>(11)</sup> |                      | 340.0 <sup>(6)</sup>  | 248.0 <sup>(B)</sup> | 331.0 <sup>(E)</sup> | 210.0 <sup>(B)</sup> | 248.0 <sup>(2)</sup> | 189.0 <sup>(B)</sup> | 198.0 <sup>(B)</sup> | 141.0 <sup>(B)</sup> | 143.0 <sup>(2)</sup> | 102.0 <sup>(B)</sup> | 103.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 354.0 <sup>(4)</sup> |                      | 378.0 <sup>(11)</sup> |                      | 374.0 <sup>(4)</sup>  | 247.0 <sup>(B)</sup> | 346.0 <sup>(E)</sup> | 212.0 <sup>(B)</sup> | 250.0 <sup>(2)</sup> | 190.0 <sup>(B)</sup> | 200.0 <sup>(B)</sup> | 142.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 103.0 <sup>(B)</sup> | 103.0 <sup>(2)</sup> |
| 170                                                                                 | Ot |                      | 31.6 <sup>(4)</sup>  |                      | 55.0 <sup>(10)</sup>  |                      | 80.5 <sup>(11)</sup>  | 106.0 <sup>(A)</sup> | 106.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 97.9 <sup>(A)</sup>  | 97.9 <sup>(A)</sup>  | 90.5 <sup>(A)</sup>  | 90.5 <sup>(A)</sup>  | 84.3 <sup>(A)</sup>  | 84.3 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 288.0 <sup>(4)</sup> |                      | 309.0 <sup>(10)</sup> |                      | 317.0 <sup>(7)</sup>  | 217.0 <sup>(B)</sup> | 311.0 <sup>(E)</sup> | 200.0 <sup>(B)</sup> | 245.0 <sup>(E)</sup> | 185.0 <sup>(B)</sup> | 197.0 <sup>(B)</sup> | 139.0 <sup>(B)</sup> | 142.0 <sup>(2)</sup> | 101.0 <sup>(B)</sup> | 102.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 326.0 <sup>(4)</sup> |                      | 347.0 <sup>(10)</sup> |                      | 350.0 <sup>(6)</sup>  | 216.0 <sup>(B)</sup> | 338.0 <sup>(E)</sup> | 201.0 <sup>(B)</sup> | 247.0 <sup>(E)</sup> | 185.0 <sup>(B)</sup> | 200.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 101.0 <sup>(B)</sup> | 102.0 <sup>(2)</sup> |
| 180                                                                                 | Ot |                      | 21.8 <sup>(4)</sup>  |                      | 42.5 <sup>(10)</sup>  |                      | 66.2 <sup>(11)</sup>  | 90.0 <sup>(B)</sup>  | 90.0 <sup>(B)</sup>  | 92.8 <sup>(A)</sup>  | 92.8 <sup>(A)</sup>  | 88.9 <sup>(A)</sup>  | 88.9 <sup>(A)</sup>  | 81.8 <sup>(A)</sup>  | 81.8 <sup>(A)</sup>  | 75.9 <sup>(A)</sup>  | 75.9 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 264.0 <sup>(4)</sup> |                      | 284.0 <sup>(10)</sup> |                      | 298.0 <sup>(E)</sup>  | 184.0 <sup>(B)</sup> | 292.0 <sup>(E)</sup> | 191.0 <sup>(B)</sup> | 240.0 <sup>(E)</sup> | 180.0 <sup>(B)</sup> | 196.0 <sup>(B)</sup> | 136.0 <sup>(B)</sup> | 141.0 <sup>(B)</sup> | 99.0 <sup>(B)</sup>  | 101.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 300.0 <sup>(4)</sup> |                      | 321.0 <sup>(10)</sup> |                      | 327.0 <sup>(6)</sup>  | 183.0 <sup>(B)</sup> | 319.0 <sup>(4)</sup> | 192.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup> | 180.0 <sup>(B)</sup> | 199.0 <sup>(B)</sup> | 138.0 <sup>(B)</sup> | 143.0 <sup>(B)</sup> | 99.7 <sup>(B)</sup>  | 101.0 <sup>(2)</sup> |
| 190                                                                                 | Ot |                      |                      |                      | 30.9 <sup>(9)</sup>   |                      | 53.1 <sup>(11)</sup>  |                      | 74.5 <sup>(11)</sup> | 84.9 <sup>(A)</sup>  | 84.9 <sup>(A)</sup>  | 80.8 <sup>(A)</sup>  | 80.8 <sup>(A)</sup>  | 73.7 <sup>(A)</sup>  | 73.7 <sup>(A)</sup>  | 67.9 <sup>(A)</sup>  | 67.9 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 244.0 <sup>(4)</sup> |                      | 261.0 <sup>(9)</sup>  |                      | 277.0 <sup>(9)</sup>  |                      | 276.0 <sup>(E)</sup> | 182.0 <sup>(B)</sup> | 235.0 <sup>(2)</sup> | 175.0 <sup>(B)</sup> | 195.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 141.0 <sup>(B)</sup> | 97.6 <sup>(B)</sup>  | 99.6 <sup>(2)</sup>  |
|                                                                                     | BV |                      | 278.0 <sup>(4)</sup> |                      | 296.0 <sup>(9)</sup>  |                      | 306.0 <sup>(7)</sup>  |                      | 301.0 <sup>(4)</sup> | 183.0 <sup>(B)</sup> | 237.0 <sup>(2)</sup> | 175.0 <sup>(B)</sup> | 198.0 <sup>(B)</sup> | 136.0 <sup>(B)</sup> | 142.0 <sup>(B)</sup> | 98.3 <sup>(B)</sup>  | 100.0 <sup>(2)</sup> |
| 200                                                                                 | Ot |                      |                      |                      | 22.3 <sup>(9)</sup>   |                      | 41.4 <sup>(11)</sup>  |                      | 61.2 <sup>(11)</sup> | 77.7 <sup>(A)</sup>  | 77.7 <sup>(A)</sup>  | 73.6 <sup>(A)</sup>  | 73.6 <sup>(A)</sup>  | 66.5 <sup>(A)</sup>  | 66.5 <sup>(A)</sup>  | 60.9 <sup>(A)</sup>  | 60.9 <sup>(A)</sup>  |
|                                                                                     | B  |                      | 224.0 <sup>(4)</sup> |                      | 241.0 <sup>(9)</sup>  |                      | 257.0 <sup>(10)</sup> |                      | 260.0 <sup>(6)</sup> | 169.0 <sup>(B)</sup> | 230.0 <sup>(2)</sup> | 170.0 <sup>(B)</sup> | 194.0 <sup>(3)</sup> | 133.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup> | 96.0 <sup>(B)</sup>  | 98.6 <sup>(B)</sup>  |
|                                                                                     | BV |                      | 257.0 <sup>(4)</sup> |                      | 274.0 <sup>(9)</sup>  |                      | 287.0 <sup>(B)</sup>  |                      | 283.0 <sup>(4)</sup> | 169.0 <sup>(B)</sup> | 232.0 <sup>(2)</sup> | 170.0 <sup>(B)</sup> | 196.0 <sup>(3)</sup> | 134.0 <sup>(B)</sup> | 141.0 <sup>(B)</sup> | 96.8 <sup>(B)</sup>  | 99.4 <sup>(B)</sup>  |
| 220                                                                                 | Ot |                      |                      |                      |                       |                      | 22.5 <sup>(10)</sup>  |                      | 39.6 <sup>(11)</sup> | 59.6 <sup>(B)</sup>  | 59.6 <sup>(B)</sup>  | 61.3 <sup>(A)</sup>  | 61.3 <sup>(A)</sup>  | 54.4 <sup>(A)</sup>  | 54.4 <sup>(A)</sup>  | 48.5 <sup>(A)</sup>  | 48.5 <sup>(A)</sup>  |
|                                                                                     | B  |                      |                      |                      | 205.0 <sup>(B)</sup>  |                      | 221.0 <sup>(10)</sup> |                      | 226.0 <sup>(7)</sup> | 131.0 <sup>(B)</sup> | 214.0 <sup>(3)</sup> | 151.0 <sup>(B)</sup> | 191.0 <sup>(E)</sup> | 128.0 <sup>(B)</sup> | 137                  |                      |                      |



236 ft  
HS



118 ft  
D



39 - 315 ft  
W



0 lb



330,700 lb



B BV

661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

110,200 lb - 328,500 lb

0 lb



Wmax



50

| HS 236 ft |    |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|-----------|----|-------------|------|-------------|------|-------------|----------------------|-------------|----------------------|-------------|----------------------|-------------|----------------------|---------------------|----------------------|---------------------|---------------------|
|           |    | W39 ft      |      | W79 ft      |      | W118 ft     |                      | W158 ft     |                      | W197 ft     |                      | W236 ft     |                      | W276 ft             |                      | W315 ft             |                     |
|           |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                |
| 280       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             | 21.0 <sup>[D]</sup>  | 28.5 <sup>[A]</sup> | 28.5 <sup>[A]</sup>  | 24.0 <sup>[A]</sup> | 24.0 <sup>[A]</sup> |
|           | B  |             |      |             |      |             | 139.0 <sup>[G]</sup> |             | 152.0 <sup>[G]</sup> |             | 157.0 <sup>[B]</sup> |             | 156.0 <sup>[G]</sup> | 87.8 <sup>[B]</sup> | 130.0 <sup>[A]</sup> | 83.2 <sup>[B]</sup> | 90.3 <sup>[G]</sup> |
|           | BV |             |      |             |      |             | 163.0 <sup>[G]</sup> |             | 176.0 <sup>[G]</sup> |             | 176.0 <sup>[F]</sup> |             | 170.0 <sup>[F]</sup> | 87.5 <sup>[B]</sup> | 131.0 <sup>[A]</sup> | 84.2 <sup>[B]</sup> | 91.1 <sup>[G]</sup> |
| 300       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      | 19.9 <sup>[B]</sup> | 19.9 <sup>[B]</sup>  | 18.9 <sup>[A]</sup> | 18.9 <sup>[A]</sup> |
|           | B  |             |      |             |      |             |                      |             | 131.0 <sup>[B]</sup> |             | 140.0 <sup>[G]</sup> |             | 138.0 <sup>[A]</sup> | 64.8 <sup>[B]</sup> | 125.0 <sup>[A]</sup> | 74.9 <sup>[B]</sup> | 89.0 <sup>[G]</sup> |
|           | BV |             |      |             |      |             |                      |             | 153.0 <sup>[B]</sup> |             | 158.0 <sup>[F]</sup> |             | 156.0 <sup>[A]</sup> | 64.9 <sup>[B]</sup> | 127.0 <sup>[A]</sup> | 75.0 <sup>[B]</sup> | 89.8 <sup>[G]</sup> |
| 320       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      | 14.7 <sup>[A]</sup> | 14.7 <sup>[A]</sup> |
|           | B  |             |      |             |      |             |                      |             | 112.0 <sup>[A]</sup> |             | 123.0 <sup>[D]</sup> |             | 123.0 <sup>[F]</sup> |                     | 115.0 <sup>[A]</sup> | 60.6 <sup>[B]</sup> | 88.0 <sup>[A]</sup> |
|           | BV |             |      |             |      |             |                      |             | 133.0 <sup>[A]</sup> |             | 142.0 <sup>[B]</sup> |             | 138.0 <sup>[A]</sup> |                     | 122.0 <sup>[A]</sup> | 60.4 <sup>[B]</sup> | 89.0 <sup>[A]</sup> |
| 340       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             | 105.0 <sup>[G]</sup> |             | 112.0 <sup>[G]</sup> |                     | 105.0 <sup>[G]</sup> | 41.8 <sup>[B]</sup> | 85.5 <sup>[G]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             | 125.0 <sup>[G]</sup> |             | 125.0 <sup>[A]</sup> |                     | 115.0 <sup>[A]</sup> | 41.6 <sup>[B]</sup> | 86.5 <sup>[G]</sup> |
| 360       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             | 88.8 <sup>[F]</sup>  |             | 97.7 <sup>[D]</sup>  |                     | 96.0 <sup>[F]</sup>  |                     | 82.6 <sup>[G]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             | 108.0 <sup>[F]</sup> |             | 115.0 <sup>[B]</sup> |                     | 108.0 <sup>[A]</sup> |                     | 83.1 <sup>[G]</sup> |
| 380       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             |                      |             | 83.1 <sup>[G]</sup>  |                     | 84.4 <sup>[B]</sup>  |                     | 78.5 <sup>[F]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             |                      |             | 101.0 <sup>[G]</sup> |                     | 96.0 <sup>[G]</sup>  |                     | 79.6 <sup>[G]</sup> |
| 400       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             |                      |             | 67.9 <sup>[F]</sup>  |                     | 74.4 <sup>[G]</sup>  |                     | 69.1 <sup>[A]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             |                      |             | 86.0 <sup>[F]</sup>  |                     | 86.0 <sup>[A]</sup>  |                     | 76.3 <sup>[A]</sup> |
| 420       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     | 61.1 <sup>[G]</sup>  |                     | 61.0 <sup>[F]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     | 78.9 <sup>[G]</sup>  |                     | 71.4 <sup>[G]</sup> |
| 440       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     | 47.6 <sup>[F]</sup>  |                     | 54.8 <sup>[G]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     | 65.4 <sup>[F]</sup>  |                     | 65.6 <sup>[G]</sup> |
| 460       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     | 42.4 <sup>[B]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     | 58.7 <sup>[B]</sup> |
| 490       | 0t |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     |                     |
|           | B  |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     | 26.9 <sup>[F]</sup> |
|           | BV |             |      |             |      |             |                      |             |                      |             |                      |             |                      |                     |                      |                     | 42.6 <sup>[F]</sup> |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°



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

|      |    |
|------|----|
| Wmax | 50 |
|------|----|

|     |    | HS 256 ft            |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|-----|----|----------------------|----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|     |    | W39 ft               |                      | W79 ft               |                       | W118 ft              |                       | W158 ft              |                      | W197 ft              |                      | W236 ft              |                      | W276 ft              |                      | W315 ft              |                      |
|     |    | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 |
| 50  | Ot |                      |                      | 502.0 <sup>(A)</sup> | 502.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|     | B  |                      |                      | 546.0 <sup>(A)</sup> | 558.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 60  | Ot | 387.0 <sup>(C)</sup> | 389.0 <sup>(2)</sup> | 410.0 <sup>(A)</sup> | 410.0 <sup>(3)</sup>  | 404.0 <sup>(A)</sup> | 404.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|     | B  | 683.0 <sup>(C)</sup> | 720.0 <sup>(1)</sup> | 554.0 <sup>(B)</sup> | 559.0 <sup>(1)</sup>  | 427.0 <sup>(A)</sup> | 434.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|     | BV | 695.0 <sup>(C)</sup> | 736.0 <sup>(1)</sup> | 562.0 <sup>(B)</sup> | 566.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 70  | Ot |                      | 318.0 <sup>(4)</sup> | 344.0 <sup>(A)</sup> | 344.0 <sup>(A)</sup>  | 340.0 <sup>(A)</sup> | 340.0 <sup>(A)</sup>  | 325.0 <sup>(A)</sup> | 325.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|     | B  |                      | 716.0 <sup>(4)</sup> | 519.0 <sup>(B)</sup> | 557.0 <sup>(1)</sup>  | 437.0 <sup>(B)</sup> | 437.0 <sup>(1)</sup>  | 332.0 <sup>(A)</sup> | 335.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
|     | BV |                      | 735.0 <sup>(1)</sup> | 525.0 <sup>(B)</sup> | 562.0 <sup>(1)</sup>  | 437.0 <sup>(B)</sup> | 437.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| 80  | Ot |                      | 250.0 <sup>(4)</sup> | 293.0 <sup>(A)</sup> | 293.0 <sup>(A)</sup>  | 290.0 <sup>(A)</sup> | 290.0 <sup>(A)</sup>  | 284.0 <sup>(A)</sup> | 284.0 <sup>(A)</sup> | 254.0 <sup>(A)</sup> | 254.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |
|     | B  |                      | 681.0 <sup>(B)</sup> | 482.0 <sup>(B)</sup> | 556.0 <sup>(1)</sup>  | 415.0 <sup>(B)</sup> | 434.0 <sup>(1)</sup>  | 339.0 <sup>(B)</sup> | 339.0 <sup>(B)</sup> | 254.0 <sup>(A)</sup> | 256.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |
|     | BV |                      | 705.0 <sup>(1)</sup> | 488.0 <sup>(B)</sup> | 558.0 <sup>(1)</sup>  | 414.0 <sup>(B)</sup> | 434.0 <sup>(1)</sup>  | 339.0 <sup>(B)</sup> | 339.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |                      |                      |
| 90  | Ot |                      | 209.0 <sup>(4)</sup> | 254.0 <sup>(A)</sup> | 254.0 <sup>(A)</sup>  | 252.0 <sup>(A)</sup> | 252.0 <sup>(A)</sup>  | 246.0 <sup>(A)</sup> | 246.0 <sup>(A)</sup> | 237.0 <sup>(A)</sup> | 237.0 <sup>(A)</sup> | 192.0 <sup>(A)</sup> | 192.0 <sup>(A)</sup> |                      |                      |                      |                      |
|     | B  |                      | 623.0 <sup>(4)</sup> | 443.0 <sup>(B)</sup> | 547.0 <sup>(1)</sup>  | 392.0 <sup>(B)</sup> | 431.0 <sup>(1)</sup>  | 327.0 <sup>(B)</sup> | 327.0 <sup>(B)</sup> | 258.0 <sup>(B)</sup> | 258.0 <sup>(B)</sup> | 192.0 <sup>(A)</sup> | 193.0 <sup>(1)</sup> |                      |                      |                      |                      |
|     | BV |                      | 666.0 <sup>(1)</sup> | 452.0 <sup>(B)</sup> | 553.0 <sup>(1)</sup>  | 391.0 <sup>(B)</sup> | 431.0 <sup>(1)</sup>  | 327.0 <sup>(B)</sup> | 327.0 <sup>(B)</sup> | 260.0 <sup>(B)</sup> | 260.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |
| 100 | Ot |                      | 170.0 <sup>(4)</sup> | 222.0 <sup>(A)</sup> | 222.0 <sup>(A)</sup>  | 221.0 <sup>(A)</sup> | 221.0 <sup>(A)</sup>  | 216.0 <sup>(A)</sup> | 216.0 <sup>(A)</sup> | 211.0 <sup>(A)</sup> | 211.0 <sup>(A)</sup> | 188.0 <sup>(A)</sup> | 188.0 <sup>(A)</sup> | 141.0 <sup>(A)</sup> | 141.0 <sup>(1)</sup> |                      |                      |
|     | B  |                      | 564.0 <sup>(4)</sup> | 410.0 <sup>(B)</sup> | 519.0 <sup>(1)</sup>  | 371.0 <sup>(B)</sup> | 431.0 <sup>(B)</sup>  | 314.0 <sup>(B)</sup> | 322.0 <sup>(2)</sup> | 252.0 <sup>(B)</sup> | 252.0 <sup>(B)</sup> | 188.0 <sup>(A)</sup> | 193.0 <sup>(1)</sup> | 141.0 <sup>(A)</sup> | 142.0 <sup>(1)</sup> |                      |                      |
|     | BV |                      | 622.0 <sup>(1)</sup> | 419.0 <sup>(B)</sup> | 543.0 <sup>(1)</sup>  | 368.0 <sup>(B)</sup> | 431.0 <sup>(B)</sup>  | 314.0 <sup>(B)</sup> | 321.0 <sup>(2)</sup> | 253.0 <sup>(B)</sup> | 253.0 <sup>(B)</sup> |                      |                      |                      |                      |                      |                      |
| 110 | Ot |                      | 138.0 <sup>(4)</sup> |                      | 184.0 <sup>(11)</sup> | 196.0 <sup>(A)</sup> | 196.0 <sup>(A)</sup>  | 192.0 <sup>(A)</sup> | 192.0 <sup>(A)</sup> | 187.0 <sup>(A)</sup> | 187.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 140.0 <sup>(1)</sup> | 102.0 <sup>(A)</sup> | 102.0 <sup>(1)</sup> |
|     | B  |                      | 510.0 <sup>(4)</sup> |                      | 491.0 <sup>(1)</sup>  | 348.0 <sup>(B)</sup> | 415.0 <sup>(B)</sup>  | 301.0 <sup>(B)</sup> | 322.0 <sup>(2)</sup> | 244.0 <sup>(B)</sup> | 245.0 <sup>(2)</sup> | 191.0 <sup>(B)</sup> | 191.0 <sup>(B)</sup> | 138.0 <sup>(A)</sup> | 141.0 <sup>(1)</sup> | 102.0 <sup>(A)</sup> | 102.0 <sup>(1)</sup> |
|     | BV |                      | 566.0 <sup>(4)</sup> |                      | 533.0 <sup>(1)</sup>  | 347.0 <sup>(B)</sup> | 414.0 <sup>(B)</sup>  | 300.0 <sup>(B)</sup> | 321.0 <sup>(2)</sup> | 246.0 <sup>(B)</sup> | 247.0 <sup>(2)</sup> | 193.0 <sup>(B)</sup> | 193.0 <sup>(B)</sup> |                      |                      |                      |                      |
| 120 | Ot |                      | 113.0 <sup>(4)</sup> |                      | 155.0 <sup>(11)</sup> | 175.0 <sup>(A)</sup> | 175.0 <sup>(A)</sup>  | 171.0 <sup>(A)</sup> | 171.0 <sup>(A)</sup> | 167.0 <sup>(A)</sup> | 167.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup> | 161.0 <sup>(A)</sup> | 136.0 <sup>(B)</sup> | 136.0 <sup>(B)</sup> | 100.0 <sup>(A)</sup> | 102.0 <sup>(1)</sup> |
|     | B  |                      | 461.0 <sup>(4)</sup> |                      | 463.0 <sup>(B)</sup>  | 326.0 <sup>(B)</sup> | 403.0 <sup>(2)</sup>  | 288.0 <sup>(B)</sup> | 329.0 <sup>(B)</sup> | 236.0 <sup>(B)</sup> | 244.0 <sup>(2)</sup> | 189.0 <sup>(B)</sup> | 189.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup> | 140.0 <sup>(B)</sup> | 100.0 <sup>(A)</sup> | 102.0 <sup>(1)</sup> |
|     | BV |                      | 513.0 <sup>(4)</sup> |                      | 507.0 <sup>(1)</sup>  | 329.0 <sup>(B)</sup> | 409.0 <sup>(2)</sup>  | 286.0 <sup>(B)</sup> | 329.0 <sup>(B)</sup> | 238.0 <sup>(B)</sup> | 246.0 <sup>(2)</sup> | 190.0 <sup>(B)</sup> | 190.0 <sup>(B)</sup> | 141.0 <sup>(B)</sup> | 141.0 <sup>(B)</sup> |                      |                      |
| 130 | Ot |                      | 89.6 <sup>(4)</sup>  |                      | 127.0 <sup>(B)</sup>  | 157.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup>  | 154.0 <sup>(A)</sup> | 154.0 <sup>(A)</sup> | 150.0 <sup>(A)</sup> | 150.0 <sup>(A)</sup> | 145.0 <sup>(A)</sup> | 145.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 101.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> |
|     | B  |                      | 414.0 <sup>(4)</sup> |                      | 433.0 <sup>(10)</sup> | 307.0 <sup>(B)</sup> | 391.0 <sup>(2)</sup>  | 275.0 <sup>(B)</sup> | 322.0 <sup>(2)</sup> | 228.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup> | 186.0 <sup>(B)</sup> | 187.0 <sup>(2)</sup> | 138.0 <sup>(B)</sup> | 138.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> |
|     | BV |                      | 462.0 <sup>(3)</sup> |                      | 466.0 <sup>(2)</sup>  | 314.0 <sup>(B)</sup> | 405.0 <sup>(2)</sup>  | 273.0 <sup>(B)</sup> | 321.0 <sup>(2)</sup> | 230.0 <sup>(B)</sup> | 244.0 <sup>(2)</sup> | 188.0 <sup>(B)</sup> | 189.0 <sup>(2)</sup> | 139.0 <sup>(B)</sup> | 139.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> | 101.0 <sup>(B)</sup> |
| 140 | Ot |                      | 72.5 <sup>(4)</sup>  |                      | 106.0 <sup>(11)</sup> | 133.0 <sup>(B)</sup> | 134.0 <sup>(11)</sup> | 138.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 98.5 <sup>(B)</sup>  | 98.5 <sup>(B)</sup>  |
|     | B  |                      | 378.0 <sup>(4)</sup> |                      | 398.0 <sup>(10)</sup> | 288.0 <sup>(B)</sup> | 382.0 <sup>(E)</sup>  | 262.0 <sup>(B)</sup> | 319.0 <sup>(2)</sup> | 219.0 <sup>(B)</sup> | 244.0 <sup>(D)</sup> | 183.0 <sup>(B)</sup> | 187.0 <sup>(2)</sup> | 136.0 <sup>(B)</sup> | 137.0 <sup>(2)</sup> | 99.6 <sup>(B)</sup>  | 99.6 <sup>(B)</sup>  |
|     | BV |                      | 424.0 <sup>(4)</sup> |                      | 429.0 <sup>(4)</sup>  | 291.0 <sup>(B)</sup> | 404.0 <sup>(E)</sup>  | 260.0 <sup>(B)</sup> | 319.0 <sup>(2)</sup> | 221.0 <sup>(B)</sup> | 246.0 <sup>(D)</sup> | 185.0 <sup>(B)</sup> | 189.0 <sup>(2)</sup> | 138.0 <sup>(B)</sup> | 138.0 <sup>(2)</sup> | 100.0 <sup>(B)</sup> | 100.0 <sup>(B)</sup> |
| 150 | Ot |                      | 55.5 <sup>(4)</sup>  |                      | 86.2 <sup>(11)</sup>  |                      | 115.0 <sup>(11)</sup> | 125.0 <sup>(A)</sup> | 125.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 94.5 <sup>(A)</sup>  | 94.5 <sup>(A)</sup>  |
|     | B  |                      | 342.0 <sup>(4)</sup> |                      | 365.0 <sup>(11)</sup> |                      | 356.0 <sup>(3)</sup>  | 250.0 <sup>(B)</sup> | 316.0 <sup>(2)</sup> | 210.0 <sup>(B)</sup> | 239.0 <sup>(2)</sup> | 180.0 <sup>(B)</sup> | 187.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 136.0 <sup>(2)</sup> | 98.2 <sup>(B)</sup>  | 98.2 <sup>(B)</sup>  |
|     | BV |                      | 385.0 <sup>(4)</sup> |                      | 397.0 <sup>(4)</sup>  |                      | 384.0 <sup>(3)</sup>  | 251.0 <sup>(B)</sup> | 317.0 <sup>(2)</sup> | 212.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup> | 181.0 <sup>(B)</sup> | 189.0 <sup>(B)</sup> | 136.0 <sup>(B)</sup> | 137.0 <sup>(2)</sup> | 98.8 <sup>(B)</sup>  | 98.8 <sup>(B)</sup>  |
| 160 | Ot |                      | 42.5 <sup>(4)</sup>  |                      | 69.9 <sup>(11)</sup>  |                      | 96.9 <sup>(11)</sup>  | 114.0 <sup>(A)</sup> | 114.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup> | 106.0 <sup>(A)</sup> | 106.0 <sup>(A)</sup> | 98.8 <sup>(A)</sup>  | 98.8 <sup>(A)</sup>  | 89.4 <sup>(A)</sup>  | 89.4 <sup>(A)</sup>  |
|     | B  |                      | 314.0 <sup>(4)</sup> |                      | 336.0 <sup>(11)</sup> |                      | 333.0 <sup>(E)</sup>  | 239.0 <sup>(B)</sup> | 314.0 <sup>(E)</sup> | 202.0 <sup>(B)</sup> | 236.0 <sup>(2)</sup> | 176.0 <sup>(B)</sup> | 187.0 <sup>(B)</sup> | 133.0 <sup>(B)</sup> | 135.0 <sup>(2)</sup> | 96.8 <sup>(B)</sup>  | 97.2 <sup>(2)</sup>  |
|     | BV |                      | 355.0 <sup>(4)</sup> |                      | 370.0 <sup>(10)</sup> |                      | 361.0 <sup>(4)</sup>  | 242.0 <sup>(B)</sup> | 315.0 <sup>(E)</sup> | 204.0 <sup>(B)</sup> | 238.0 <sup>(2)</sup> | 176.0 <sup>(B)</sup> | 189.0 <sup>(B)</sup> | 134.0 <sup>(B)</sup> | 136.0 <sup>(2)</sup> | 97.4 <sup>(B)</sup>  | 97.8 <sup>(2)</sup>  |
| 170 | Ot |                      | 30.2 <sup>(4)</sup>  |                      | 54.8 <sup>(11)</sup>  |                      | 81.7 <sup>(B)</sup>   | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup> | 96.3 <sup>(A)</sup>  | 96.3 <sup>(A)</sup>  | 89.1 <sup>(A)</sup>  | 89.1 <sup>(A)</sup>  | 81.8 <sup>(A)</sup>  | 81.8 <sup>(A)</sup>  |
|     | B  |                      | 287.0 <sup>(4)</sup> |                      | 308.0 <sup>(11)</sup> |                      | 313.0 <sup>(B)</sup>  | 220.0 <sup>(B)</sup> | 303.0 <sup>(E)</sup> | 193.0 <sup>(B)</sup> | 232.0 <sup>(2)</sup> | 171.0 <sup>(B)</sup> | 186.0 <sup>(B)</sup> | 131.0 <sup>(B)</sup> | 134.0 <sup>(2)</sup> | 95.3 <sup>(B)</sup>  | 96.3 <sup>(2)</sup>  |
|     | BV |                      | 325.0 <sup>(4)</sup> |                      | 344.0 <sup>(11)</sup> |                      | 338.0 <sup>(4)</sup>  | 220.0 <sup>(B)</sup> | 309.0 <sup>(E)</sup> | 195.0 <sup>(B)</sup> | 235.0 <sup>(E)</sup> | 171.0 <sup>(B)</sup> | 188.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 136.0 <sup>(2)</sup> | 96.0 <sup>(B)</sup>  | 97.0 <sup>(2)</sup>  |
| 180 | Ot |                      | 20.6 <sup>(3)</sup>  |                      | 41.7 <sup>(10)</sup>  |                      | 66.2 <sup>(11)</sup>  | 87.8 <sup>(B)</sup>  | 87.8 <sup>(B)</sup>  | 91.2 <sup>(A)</sup>  | 91.2 <sup>(A)</sup>  | 87.4 <sup>(A)</sup>  | 87.4 <sup>(A)</sup>  | 80.4 <sup>(A)</sup>  | 80.4 <sup>(A)</sup>  | 74.0 <sup>(A)</sup>  | 74.0 <sup>(A)</sup>  |
|     | B  |                      | 264.0 <sup>(4)</sup> |                      | 283.0 <sup>(10)</sup> |                      | 294.0 <sup>(B)</sup>  | 190.0 <sup>(B)</sup> | 286.0 <sup>(E)</sup> | 186.0 <sup>(B)</sup> | 229.0 <sup>(E)</sup> | 166.0 <sup>(B)</sup> | 185.0 <sup>(B)</sup> | 129.0 <sup>(B)</sup> | 134.0 <sup>(2)</sup> | 93.8 <sup>(B)</sup>  | 95.4 <sup>(2)</sup>  |
|     | BV |                      | 300.0 <sup>(4)</sup> |                      | 319.0 <sup>(10)</sup> |                      | 318.0 <sup>(5)</sup>  | 190.0 <sup>(B)</sup> | 300.0 <sup>(E)</sup> | 187.0 <sup>(B)</sup> | 232.0 <sup>(E)</sup> | 166.0 <sup>(B)</sup> | 187.0 <sup>(B)</sup> | 130.0 <sup>(B)</sup> | 135.0 <sup>(2)</sup> | 94.5 <sup>(B)</sup>  | 96.2 <sup>(2)</sup>  |
| 190 | Ot |                      | 12.6 <sup>(3)</sup>  |                      | 30.8 <sup>(10)</sup>  |                      | 52.4 <sup>(11)</sup>  |                      | 73.4 <sup>(11)</sup> | 83.6 <sup>(A)</sup>  | 83.6 <sup>(A)</sup>  | 79.3 <sup>(A)</sup>  | 79.3 <sup>(A)</sup>  | 72.4 <sup>(A)</sup>  | 72.4 <sup>(A)</sup>  | 66.4 <sup>(A)</sup>  | 66.4 <sup>(A)</sup>  |
|     | B  |                      | 242.0 <sup>(4)</sup> |                      | 260.0 <sup>(10)</sup> |                      | 276.0 <sup>(10)</sup> |                      | 270.0 <sup>(E)</sup> | 177.0 <sup>(B)</sup> | 225.0 <sup>(2)</sup> | 161.0 <sup>(B)</sup> | 184.0 <sup>(3)</sup> | 127.0 <sup>(B)</sup> | 133.0 <sup>(B)</sup> | 92.4 <sup>(B)</sup>  | 94.6 <sup>(2)</sup>  |
|     | BV |                      | 277.0 <sup>(4)</sup> |                      | 295.0 <sup>(10)</sup> |                      | 299.0 <sup>(6)</sup>  |                      | 287.0 <sup>(4)</sup> | 179.0 <sup>(B)</sup> | 228.0 <sup>(2)</sup> | 161.0 <sup>(B)</sup> | 186.0 <sup>(3)</sup> | 128.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 93.1 <sup>(B)</sup>  | 95.3 <sup>(2)</sup>  |
| 200 | Ot |                      |                      |                      | 18.0 <sup>(5)</sup>   |                      | 41.4 <sup>(11)</sup>  |                      | 60.3 <sup>(11)</sup> | 76.3 <sup>(A)</sup>  | 76.3 <sup>(A)</sup>  | 72.2 <sup>(A)</sup>  | 72.2 <sup>(A)</sup>  | 65.3 <sup>(A)</sup>  | 65.3 <sup>(A)</sup>  | 59.4 <sup>(A)</sup>  | 59.4 <sup>(A)</sup>  |
|     | B  |                      | 224.0 <sup>(4)</sup> |                      | 240.0 <sup>(9)</sup>  |                      | 257.0 <sup>(10)</sup> |                      | 255.0 <sup>(E)</sup> | 168.0 <sup>(B)</sup> | 220.0 <sup>(2)</sup> | 156.0 <sup>(B)</sup> | 183.0 <sup>(3)</sup> | 125.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 90.9 <sup>(B)</sup>  | 93.8 <sup>(2)</sup>  |
|     | BV |                      | 257.0 <sup>(4)</sup> |                      | 272.0 <sup>(9)</sup>  |                      | 282.0 <sup>(B)</sup>  |                      | 273.0 <sup>(4)</sup> | 169.0 <sup>(B)</sup> | 224.0 <sup>(2)</sup> | 156.0 <sup>(B)</sup> | 184.0 <sup>(3)</sup> | 125.0 <sup>(B)</sup> | 134.0 <sup>(B)</sup> | 91.7 <sup>(B)</sup>  | 94.5 <sup>(2)</sup>  |
| 220 | Ot |                      |                      |                      |                       |                      | 21.7 <sup>(10)</sup>  |                      | 38.6 <sup>(11)</sup> | 57.8 <sup>(B)</sup>  | 57.8 <sup>(B)</sup>  | 60.1 <sup>(A)</sup>  | 60.1 <sup>(A)</sup>  | 53.1 <sup>(A)</sup>  | 53.1 <sup>(A)</sup>  | 47.3 <sup>(A)</sup>  | 47.3 <sup>(A)</sup>  |
|     | B  |                      | 190.0 <sup>(4)</sup> |                      | 204.0 <sup>(B)</sup>  |                      | 220.0 <sup>(10)</sup> |                      | 226.0 <sup>(7)</sup> | 135.0 <sup>(B)</sup> | 209.0 <sup>(2)</sup> | 146.0 <sup>(B)</sup> | 180.0 <sup>(3)</sup> | 118.0 <sup>(B)</sup> | 130.0 <sup>(B)</sup> | 87.6 <sup>(B)</sup>  | 92.0 <sup>(B)</sup>  |
|     | BV |                      | 221.0 <sup>(4)</sup> |                      | 234.0 <sup>(B)</sup>  |                      | 250.0 <sup>(10)</sup> |                      | 247.0 <sup>(5)</sup> | 134.0 <sup>(B)</sup> | 215.0 <sup>(2)</sup> | 147.0 <sup>(B)</sup> | 182.0 <sup>(3)</sup> | 118.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 88.5 <sup>(B)</sup>  | 92.9 <sup>(B)</sup>  |
| 240 | Ot |                      |                      |                      |                       |                      |                       |                      | 21.8 <sup>(11)</sup> |                      |                      | 35.0 <sup>(11)</sup> | 49.7 <sup>(A)</sup>  | 42.9 <sup>(A)</sup>  | 42.9 <sup>(A)</sup>  | 37.2 <sup>(A)</sup>  | 37.2 <sup>(A)</sup>  |
|     | B  |                      |                      |                      |                       |                      | 189.0 <sup>(9)</sup>  |                      | 198.0 <sup>(B)</sup> |                      |                      | 189.0 <sup>(4)</sup> | 126.0 <sup>(B)</sup> | 112.0 <sup>(B)</sup> | 128.0 <sup>(4)</sup> | 84.4 <sup>(B)</sup>  | 90.0 <sup>(B)</sup>  |



256 ft



118 ft



39 - 315 ft



0 lb



330,700 lb



B BV

661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

110,200 lb - 328,500 lb

0 lb



Wmax



50

|     |    | HS 256 ft   |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|-----|----|-------------|------|-------------|------|----------------------|------|----------------------|------|-------------------------|------|------------------------|------|---------------------|----------------------|---------------------|---------------------|
|     |    | W39 ft      |      | W79 ft      |      | W118 ft              |      | W158 ft              |      | W197 ft                 |      | W236 ft                |      | W276 ft             |                      | W315 ft             |                     |
|     |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°             | Wmax | 87°/85°/84°            | Wmax | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                |
| 300 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      | 18.8 <sup>(B)</sup> | 18.8 <sup>(B)</sup>  | 18.1 <sup>(A)</sup> | 18.1 <sup>(A)</sup> |
|     | B  |             |      |             |      | 119.0 <sup>(G)</sup> |      | 129.0 <sup>(H)</sup> |      | 139.0 <sup>(I)</sup>    |      | 138.0 <sup>(A)</sup>   |      | 68.0 <sup>(B)</sup> | 122.0 <sup>(E)</sup> | 71.2 <sup>(B)</sup> | 85.2 <sup>(E)</sup> |
|     | BV |             |      |             |      | 141.0 <sup>(G)</sup> |      | 151.0 <sup>(H)</sup> |      | 157.0 <sup>(F)</sup>    |      | 151.0 <sup>(A)</sup>   |      | 67.7 <sup>(B)</sup> | 123.0 <sup>(A)</sup> | 73.5 <sup>(B)</sup> | 86.1 <sup>(E)</sup> |
| 320 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      | 13.9 <sup>(A)</sup> | 13.9 <sup>(A)</sup> |
|     | B  |             |      |             |      |                      |      | 110.0 <sup>(I)</sup> |      | 121.0 <sup>(I,II)</sup> |      | 123.0 <sup>(I)</sup>   |      |                     | 117.0 <sup>(E)</sup> | 61.0 <sup>(B)</sup> | 84.3 <sup>(A)</sup> |
|     | BV |             |      |             |      |                      |      | 131.0 <sup>(I)</sup> |      | 140.0 <sup>(I)</sup>    |      | 139.0 <sup>(F)</sup>   |      |                     | 120.0 <sup>(A)</sup> | 61.8 <sup>(B)</sup> | 85.4 <sup>(A)</sup> |
| 340 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      | 93.5 <sup>(A)</sup>  |      | 104.0 <sup>(I)</sup>    |      | 109.0 <sup>(B)</sup>   |      |                     | 103.0 <sup>(E)</sup> | 44.1 <sup>(B)</sup> | 82.7 <sup>(A)</sup> |
|     | BV |             |      |             |      |                      |      | 114.0 <sup>(A)</sup> |      | 123.0 <sup>(I)</sup>    |      | 125.0 <sup>(A)</sup>   |      |                     | 116.0 <sup>(F)</sup> | 44.0 <sup>(B)</sup> | 83.5 <sup>(A)</sup> |
| 360 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      | 87.6 <sup>(B)</sup>     |      | 97.2 <sup>(I,II)</sup> |      |                     | 92.5 <sup>(I)</sup>  |                     | 80.7 <sup>(A)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      | 106.0 <sup>(B)</sup>    |      | 111.0 <sup>(B)</sup>   |      |                     | 104.0 <sup>(E)</sup> |                     | 81.4 <sup>(E)</sup> |
| 380 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      | 72.6 <sup>(I)</sup>     |      | 81.6 <sup>(I)</sup>    |      |                     | 84.6 <sup>(F)</sup>  |                     | 76.9 <sup>(F)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      | 91.3 <sup>(I)</sup>     |      | 99.7 <sup>(I)</sup>    |      |                     | 94.6 <sup>(E)</sup>  |                     | 79.3 <sup>(E)</sup> |
| 400 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                         |      | 66.8 <sup>(B)</sup>    |      |                     | 72.8 <sup>(I)</sup>  |                     | 69.9 <sup>(F)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                         |      | 85.1 <sup>(B)</sup>    |      |                     | 87.0 <sup>(I)</sup>  |                     | 76.3 <sup>(E)</sup> |
| 420 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                         |      | 53.4 <sup>(I)</sup>    |      |                     | 59.6 <sup>(I)</sup>  |                     | 63.1 <sup>(F)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                         |      | 71.6 <sup>(I)</sup>    |      |                     | 76.8 <sup>(I)</sup>  |                     | 72.2 <sup>(E)</sup> |
| 440 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     | 46.6 <sup>(B)</sup>  |                     | 52.5 <sup>(I)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     | 64.5 <sup>(B)</sup>  |                     | 63.1 <sup>(B)</sup> |
| 460 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     | 34.7 <sup>(I)</sup>  |                     | 41.6 <sup>(I)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     | 52.2 <sup>(I)</sup>  |                     | 56.6 <sup>(B)</sup> |
| 490 | Ot |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     |                     |
|     | B  |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     | 25.3 <sup>(I)</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                         |      |                        |      |                     |                      |                     | 40.6 <sup>(I)</sup> |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

38 LR1700-1.0W



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



|  ft |    | HS 276 ft            |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|-------------------------------------------------------------------------------------|----|----------------------|----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
|                                                                                     |    | W 39ft               |                      | W 79ft               |                       | W 118ft              |                       | W 158ft              |                      | W 197ft              |                      | W 236ft              |                      | W 276ft              |                      | W 315ft             |                     |
|                                                                                     |    | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°         | Wmax                |
| 50                                                                                  | Ot |                      |                      | 490.0 <sup>(A)</sup> | 490.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  |                      |                      | 494.0 <sup>(A)</sup> | 501.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 60                                                                                  | Ot | 382.0 <sup>(C)</sup> | 383.0 <sup>(2)</sup> | 406.0 <sup>(A)</sup> | 406.0 <sup>(A)</sup>  | 386.0 <sup>(A)</sup> | 386.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  | 620.0 <sup>(C)</sup> | 643.0 <sup>(1)</sup> | 502.0 <sup>(B)</sup> | 502.0 <sup>(B)</sup>  | 388.0 <sup>(A)</sup> | 392.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV | 630.0 <sup>(C)</sup> | 655.0 <sup>(1)</sup> | 508.0 <sup>(B)</sup> | 508.0 <sup>(B)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 70                                                                                  | Ot |                      | 316.0 <sup>(4)</sup> | 340.0 <sup>(A)</sup> | 340.0 <sup>(A)</sup>  | 334.0 <sup>(A)</sup> | 334.0 <sup>(A)</sup>  | 305.0 <sup>(A)</sup> | 305.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  |                      | 638.0 <sup>(1)</sup> | 472.0 <sup>(B)</sup> | 499.0 <sup>(1)</sup>  | 397.0 <sup>(B)</sup> | 397.0 <sup>(B)</sup>  | 305.0 <sup>(A)</sup> | 307.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      | 654.0 <sup>(1)</sup> | 478.0 <sup>(B)</sup> | 504.0 <sup>(1)</sup>  | 399.0 <sup>(B)</sup> | 399.0 <sup>(B)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 80                                                                                  | Ot |                      | 252.0 <sup>(4)</sup> | 291.0 <sup>(A)</sup> | 291.0 <sup>(A)</sup>  | 286.0 <sup>(A)</sup> | 286.0 <sup>(A)</sup>  | 280.0 <sup>(A)</sup> | 280.0 <sup>(A)</sup> | 235.0 <sup>(A)</sup> | 235.0 <sup>(A)</sup> |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  |                      | 620.0 <sup>(D)</sup> | 442.0 <sup>(B)</sup> | 498.0 <sup>(1)</sup>  | 378.0 <sup>(B)</sup> | 391.0 <sup>(1)</sup>  | 292.0 <sup>(A)</sup> | 308.0 <sup>(1)</sup> | 235.0 <sup>(A)</sup> | 236.0 <sup>(1)</sup> |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      | 644.0 <sup>(1)</sup> | 449.0 <sup>(B)</sup> | 501.0 <sup>(1)</sup>  | 378.0 <sup>(B)</sup> | 392.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 90                                                                                  | Ot |                      | 205.0 <sup>(4)</sup> | 253.0 <sup>(A)</sup> | 253.0 <sup>(A)</sup>  | 248.0 <sup>(A)</sup> | 248.0 <sup>(A)</sup>  | 244.0 <sup>(A)</sup> | 244.0 <sup>(A)</sup> | 227.0 <sup>(A)</sup> | 227.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup> | 179.0 <sup>(A)</sup> |                      |                      |                     |                     |
|                                                                                     | B  |                      | 583.0 <sup>(1)</sup> | 409.0 <sup>(B)</sup> | 498.0 <sup>(B)</sup>  | 359.0 <sup>(B)</sup> | 388.0 <sup>(1)</sup>  | 301.0 <sup>(B)</sup> | 307.0 <sup>(1)</sup> | 229.0 <sup>(A)</sup> | 237.0 <sup>(1)</sup> | 179.0 <sup>(A)</sup> | 180.0 <sup>(1)</sup> |                      |                      |                     |                     |
|                                                                                     | BV |                      | 621.0 <sup>(1)</sup> | 416.0 <sup>(B)</sup> | 499.0 <sup>(B)</sup>  | 358.0 <sup>(B)</sup> | 389.0 <sup>(1)</sup>  | 301.0 <sup>(B)</sup> | 307.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                     |                     |
| 100                                                                                 | Ot |                      | 169.0 <sup>(4)</sup> | 220.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup>  | 218.0 <sup>(A)</sup> | 218.0 <sup>(A)</sup>  | 215.0 <sup>(A)</sup> | 215.0 <sup>(A)</sup> | 206.0 <sup>(A)</sup> | 206.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 132.0 <sup>(1)</sup> |                     |                     |
|                                                                                     | B  |                      | 546.0 <sup>(1)</sup> | 378.0 <sup>(B)</sup> | 480.0 <sup>(1)</sup>  | 340.0 <sup>(B)</sup> | 386.0 <sup>(1)</sup>  | 290.0 <sup>(B)</sup> | 305.0 <sup>(1)</sup> | 234.0 <sup>(B)</sup> | 234.0 <sup>(B)</sup> | 176.0 <sup>(A)</sup> | 179.0 <sup>(1)</sup> | 132.0 <sup>(A)</sup> | 132.0 <sup>(1)</sup> |                     |                     |
|                                                                                     | BV |                      | 598.0 <sup>(1)</sup> | 386.0 <sup>(B)</sup> | 491.0 <sup>(1)</sup>  | 338.0 <sup>(B)</sup> | 386.0 <sup>(1)</sup>  | 289.0 <sup>(B)</sup> | 305.0 <sup>(1)</sup> | 235.0 <sup>(B)</sup> | 235.0 <sup>(B)</sup> |                      |                      |                      |                      |                     |                     |
| 110                                                                                 | Ot |                      | 133.0 <sup>(4)</sup> | 184.0 <sup>(B)</sup> | 184.0 <sup>(B)</sup>  | 193.0 <sup>(A)</sup> | 193.0 <sup>(A)</sup>  | 190.0 <sup>(A)</sup> | 190.0 <sup>(A)</sup> | 183.0 <sup>(A)</sup> | 183.0 <sup>(A)</sup> | 169.0 <sup>(A)</sup> | 169.0 <sup>(A)</sup> | 129.0 <sup>(A)</sup> | 131.0 <sup>(1)</sup> | 95.2 <sup>(A)</sup> | 95.3 <sup>(1)</sup> |
|                                                                                     | B  |                      | 501.0 <sup>(E)</sup> | 359.0 <sup>(B)</sup> | 463.0 <sup>(1)</sup>  | 319.0 <sup>(B)</sup> | 378.0 <sup>(D)</sup>  | 278.0 <sup>(B)</sup> | 303.0 <sup>(1)</sup> | 228.0 <sup>(B)</sup> | 228.0 <sup>(B)</sup> | 178.0 <sup>(B)</sup> | 178.0 <sup>(B)</sup> | 129.0 <sup>(A)</sup> | 132.0 <sup>(1)</sup> | 95.2 <sup>(A)</sup> | 95.3 <sup>(1)</sup> |
|                                                                                     | BV |                      | 553.0 <sup>(1)</sup> | 367.0 <sup>(B)</sup> | 484.0 <sup>(1)</sup>  | 319.0 <sup>(B)</sup> | 377.0 <sup>(D)</sup>  | 276.0 <sup>(B)</sup> | 303.0 <sup>(1)</sup> | 228.0 <sup>(B)</sup> | 228.0 <sup>(B)</sup> | 180.0 <sup>(B)</sup> | 180.0 <sup>(B)</sup> |                      |                      |                     |                     |
| 120                                                                                 | Ot |                      | 110.0 <sup>(4)</sup> |                      | 154.0 <sup>(11)</sup> | 173.0 <sup>(A)</sup> | 173.0 <sup>(A)</sup>  | 170.0 <sup>(A)</sup> | 170.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup> | 157.0 <sup>(A)</sup> | 130.0 <sup>(B)</sup> | 130.0 <sup>(B)</sup> | 93.7 <sup>(A)</sup> | 94.9 <sup>(1)</sup> |
|                                                                                     | B  |                      | 456.0 <sup>(4)</sup> |                      | 446.0 <sup>(1)</sup>  | 300.0 <sup>(B)</sup> | 369.0 <sup>(2)</sup>  | 266.0 <sup>(B)</sup> | 301.0 <sup>(1)</sup> | 220.0 <sup>(B)</sup> | 226.0 <sup>(2)</sup> | 176.0 <sup>(B)</sup> | 176.0 <sup>(B)</sup> | 131.0 <sup>(B)</sup> | 131.0 <sup>(B)</sup> | 93.7 <sup>(A)</sup> | 94.9 <sup>(1)</sup> |
|                                                                                     | BV |                      | 503.0 <sup>(3)</sup> |                      | 478.0 <sup>(1)</sup>  | 302.0 <sup>(B)</sup> | 368.0 <sup>(2)</sup>  | 264.0 <sup>(B)</sup> | 301.0 <sup>(1)</sup> | 221.0 <sup>(B)</sup> | 228.0 <sup>(2)</sup> | 177.0 <sup>(B)</sup> | 177.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> |                     |                     |
| 130                                                                                 | Ot |                      | 88.0 <sup>(4)</sup>  |                      | 126.0 <sup>(11)</sup> | 155.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup>  | 153.0 <sup>(A)</sup> | 153.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 142.0 <sup>(A)</sup> | 142.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 94.5 <sup>(B)</sup> | 94.5 <sup>(B)</sup> |
|                                                                                     | B  |                      | 412.0 <sup>(4)</sup> |                      | 413.0 <sup>(E)</sup>  | 282.0 <sup>(B)</sup> | 363.0 <sup>(2)</sup>  | 254.0 <sup>(B)</sup> | 294.0 <sup>(B)</sup> | 213.0 <sup>(B)</sup> | 226.0 <sup>(2)</sup> | 173.0 <sup>(B)</sup> | 174.0 <sup>(2)</sup> | 129.0 <sup>(B)</sup> | 129.0 <sup>(B)</sup> | 94.5 <sup>(B)</sup> | 94.5 <sup>(B)</sup> |
|                                                                                     | BV |                      | 458.0 <sup>(4)</sup> |                      | 446.0 <sup>(2)</sup>  | 288.0 <sup>(B)</sup> | 364.0 <sup>(2)</sup>  | 252.0 <sup>(B)</sup> | 294.0 <sup>(B)</sup> | 214.0 <sup>(B)</sup> | 227.0 <sup>(2)</sup> | 174.0 <sup>(B)</sup> | 176.0 <sup>(2)</sup> | 130.0 <sup>(B)</sup> | 130.0 <sup>(B)</sup> | 94.9 <sup>(B)</sup> | 94.9 <sup>(B)</sup> |
| 140                                                                                 | Ot |                      | 68.8 <sup>(4)</sup>  |                      | 105.0 <sup>(11)</sup> | 139.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup>  | 138.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 128.0 <sup>(A)</sup> | 128.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 92.9 <sup>(B)</sup> | 92.9 <sup>(B)</sup> |
|                                                                                     | B  |                      | 373.0 <sup>(4)</sup> |                      | 383.0 <sup>(E)</sup>  | 268.0 <sup>(B)</sup> | 366.0 <sup>(E)</sup>  | 242.0 <sup>(B)</sup> | 290.0 <sup>(2)</sup> | 206.0 <sup>(B)</sup> | 228.0 <sup>(D)</sup> | 170.0 <sup>(B)</sup> | 174.0 <sup>(2)</sup> | 128.0 <sup>(B)</sup> | 128.0 <sup>(2)</sup> | 93.3 <sup>(B)</sup> | 93.3 <sup>(B)</sup> |
|                                                                                     | BV |                      | 418.0 <sup>(4)</sup> |                      | 416.0 <sup>(2)</sup>  | 274.0 <sup>(B)</sup> | 366.0 <sup>(E)</sup>  | 240.0 <sup>(B)</sup> | 290.0 <sup>(2)</sup> | 206.0 <sup>(B)</sup> | 230.0 <sup>(D)</sup> | 170.0 <sup>(B)</sup> | 175.0 <sup>(2)</sup> | 129.0 <sup>(B)</sup> | 129.0 <sup>(B)</sup> | 93.8 <sup>(B)</sup> | 93.8 <sup>(B)</sup> |
| 150                                                                                 | Ot |                      | 53.4 <sup>(4)</sup>  |                      | 85.9 <sup>(11)</sup>  | 118.0 <sup>(B)</sup> | 118.0 <sup>(B)</sup>  | 125.0 <sup>(A)</sup> | 125.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 119.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 88.5 <sup>(A)</sup> | 88.5 <sup>(A)</sup> |
|                                                                                     | B  |                      | 340.0 <sup>(4)</sup> |                      | 358.0 <sup>(11)</sup> | 232.0 <sup>(B)</sup> | 347.0 <sup>(E)</sup>  | 231.0 <sup>(B)</sup> | 288.0 <sup>(2)</sup> | 198.0 <sup>(B)</sup> | 224.0 <sup>(D)</sup> | 166.0 <sup>(B)</sup> | 174.0 <sup>(B)</sup> | 126.0 <sup>(B)</sup> | 126.0 <sup>(2)</sup> | 92.0 <sup>(B)</sup> | 92.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 384.0 <sup>(4)</sup> |                      | 386.0 <sup>(3)</sup>  | 232.0 <sup>(B)</sup> | 355.0 <sup>(E)</sup>  | 230.0 <sup>(B)</sup> | 287.0 <sup>(2)</sup> | 199.0 <sup>(B)</sup> | 227.0 <sup>(D)</sup> | 166.0 <sup>(B)</sup> | 176.0 <sup>(B)</sup> | 127.0 <sup>(B)</sup> | 128.0 <sup>(2)</sup> | 92.6 <sup>(B)</sup> | 92.6 <sup>(B)</sup> |
| 160                                                                                 | Ot |                      | 38.2 <sup>(4)</sup>  |                      | 67.9 <sup>(11)</sup>  |                      | 95.4 <sup>(11)</sup>  | 114.0 <sup>(A)</sup> | 114.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 108.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 96.7 <sup>(A)</sup>  | 96.7 <sup>(A)</sup>  | 84.9 <sup>(A)</sup> | 84.9 <sup>(A)</sup> |
|                                                                                     | B  |                      | 308.0 <sup>(4)</sup> |                      | 332.0 <sup>(11)</sup> |                      | 325.0 <sup>(E)</sup>  | 220.0 <sup>(B)</sup> | 286.0 <sup>(E)</sup> | 190.0 <sup>(B)</sup> | 221.0 <sup>(2)</sup> | 161.0 <sup>(B)</sup> | 174.0 <sup>(B)</sup> | 124.0 <sup>(B)</sup> | 126.0 <sup>(2)</sup> | 90.7 <sup>(B)</sup> | 91.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 349.0 <sup>(4)</sup> |                      | 359.0 <sup>(E)</sup>  |                      | 340.0 <sup>(3)</sup>  | 224.0 <sup>(B)</sup> | 287.0 <sup>(E)</sup> | 191.0 <sup>(B)</sup> | 224.0 <sup>(2)</sup> | 161.0 <sup>(B)</sup> | 176.0 <sup>(B)</sup> | 125.0 <sup>(B)</sup> | 128.0 <sup>(2)</sup> | 91.4 <sup>(B)</sup> | 91.7 <sup>(2)</sup> |
| 170                                                                                 | Ot |                      | 28.3 <sup>(4)</sup>  |                      | 53.8 <sup>(11)</sup>  |                      | 77.3 <sup>(11)</sup>  | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 98.5 <sup>(A)</sup>  | 98.5 <sup>(A)</sup>  | 94.4 <sup>(A)</sup>  | 94.4 <sup>(A)</sup>  | 86.9 <sup>(A)</sup>  | 86.9 <sup>(A)</sup>  | 79.1 <sup>(A)</sup> | 79.1 <sup>(A)</sup> |
|                                                                                     | B  |                      | 284.0 <sup>(4)</sup> |                      | 306.0 <sup>(11)</sup> |                      | 305.0 <sup>(E)</sup>  | 210.0 <sup>(B)</sup> | 282.0 <sup>(E)</sup> | 183.0 <sup>(B)</sup> | 218.0 <sup>(2)</sup> | 157.0 <sup>(B)</sup> | 173.0 <sup>(B)</sup> | 122.0 <sup>(B)</sup> | 126.0 <sup>(2)</sup> | 89.3 <sup>(B)</sup> | 90.4 <sup>(2)</sup> |
|                                                                                     | BV |                      | 323.0 <sup>(4)</sup> |                      | 336.0 <sup>(B)</sup>  |                      | 323.0 <sup>(3)</sup>  | 214.0 <sup>(B)</sup> | 282.0 <sup>(2)</sup> | 184.0 <sup>(B)</sup> | 222.0 <sup>(2)</sup> | 156.0 <sup>(B)</sup> | 174.0 <sup>(B)</sup> | 123.0 <sup>(B)</sup> | 127.0 <sup>(2)</sup> | 90.0 <sup>(B)</sup> | 91.1 <sup>(2)</sup> |
| 180                                                                                 | Ot |                      | 18.5 <sup>(4)</sup>  |                      | 39.6 <sup>(11)</sup>  |                      | 63.9 <sup>(11)</sup>  | 87.1 <sup>(B)</sup>  | 87.1 <sup>(B)</sup>  | 89.5 <sup>(A)</sup>  | 89.5 <sup>(A)</sup>  | 85.5 <sup>(A)</sup>  | 85.5 <sup>(A)</sup>  | 78.4 <sup>(A)</sup>  | 78.4 <sup>(A)</sup>  | 72.1 <sup>(A)</sup> | 72.1 <sup>(A)</sup> |
|                                                                                     | B  |                      | 260.0 <sup>(4)</sup> |                      | 280.0 <sup>(11)</sup> |                      | 287.0 <sup>(E)</sup>  | 197.0 <sup>(B)</sup> | 275.0 <sup>(E)</sup> | 176.0 <sup>(B)</sup> | 216.0 <sup>(2)</sup> | 152.0 <sup>(B)</sup> | 171.0 <sup>(B)</sup> | 120.0 <sup>(B)</sup> | 125.0 <sup>(2)</sup> | 88.0 <sup>(B)</sup> | 89.6 <sup>(2)</sup> |
|                                                                                     | BV |                      | 296.0 <sup>(4)</sup> |                      | 315.0 <sup>(11)</sup> |                      | 307.0 <sup>(2)</sup>  | 197.0 <sup>(B)</sup> | 276.0 <sup>(2)</sup> | 178.0 <sup>(B)</sup> | 220.0 <sup>(E)</sup> | 151.0 <sup>(B)</sup> | 172.0 <sup>(2)</sup> | 120.0 <sup>(B)</sup> | 127.0 <sup>(2)</sup> | 88.7 <sup>(B)</sup> | 90.4 <sup>(2)</sup> |
| 190                                                                                 | Ot |                      |                      |                      | 29.4 <sup>(10)</sup>  |                      | 50.5 <sup>(11)</sup>  |                      | 73.7 <sup>(11)</sup> | 81.8 <sup>(A)</sup>  | 81.8 <sup>(A)</sup>  | 77.7 <sup>(A)</sup>  | 77.7 <sup>(A)</sup>  | 70.4 <sup>(A)</sup>  | 70.4 <sup>(A)</sup>  | 64.5 <sup>(A)</sup> | 64.5 <sup>(A)</sup> |
|                                                                                     | B  |                      | 239.0 <sup>(4)</sup> |                      | 258.0 <sup>(10)</sup> |                      | 270.0 <sup>(E)</sup>  |                      | 264.0 <sup>(E)</sup> | 170.0 <sup>(B)</sup> | 213.0 <sup>(E)</sup> | 147.0 <sup>(B)</sup> | 169.0 <sup>(2)</sup> | 118.0 <sup>(B)</sup> | 125.0 <sup>(D)</sup> | 86.6 <sup>(B)</sup> | 89.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 274.0 <sup>(4)</sup> |                      | 292.0 <sup>(10)</sup> |                      | 290.0 <sup>(4)</sup>  |                      | 271.0 <sup>(2)</sup> | 173.0 <sup>(B)</sup> | 217.0 <sup>(E)</sup> | 146.0 <sup>(B)</sup> | 170.0 <sup>(2)</sup> | 117.0 <sup>(B)</sup> | 126.0 <sup>(D)</sup> | 87.3 <sup>(B)</sup> | 89.8 <sup>(2)</sup> |
| 200                                                                                 | Ot |                      |                      |                      | 20.0 <sup>(10)</sup>  |                      | 38.7 <sup>(11)</sup>  |                      | 60.7 <sup>(11)</sup> | 74.7 <sup>(A)</sup>  | 74.7 <sup>(A)</sup>  | 70.8 <sup>(A)</sup>  | 70.8 <sup>(A)</sup>  | 63.7 <sup>(A)</sup>  | 63.7 <sup>(A)</sup>  | 57.6 <sup>(A)</sup> | 57.6 <sup>(A)</sup> |
|                                                                                     | B  |                      | 220.0 <sup>(4)</sup> |                      | 237.0 <sup>(10)</sup> |                      | 254.0 <sup>(11)</sup> |                      | 250.0 <sup>(E)</sup> | 162.0 <sup>(B)</sup> | 209.0 <sup>(E)</sup> | 143.0 <sup>(B)</sup> | 168.0 <sup>(3)</sup> | 115.0 <sup>(B)</sup> | 124.0 <sup>(D)</sup> | 85.1 <sup>(B)</sup> | 88.3 <sup>(2)</sup> |
|                                                                                     | BV |                      | 253.0 <sup>(4)</sup> |                      | 270.0 <sup>(10)</sup> |                      | 274.0 <sup>(5)</sup>  |                      | 266.0 <sup>(2)</sup> | 164.0 <sup>(B)</sup> | 213.0 <sup>(2)</sup> | 142.0 <sup>(B)</sup> | 169.0 <sup>(2)</sup> | 114.0 <sup>(B)</sup> | 126.0 <sup>(D)</sup> | 85.9 <sup>(B)</sup> | 89.2 <sup>(2)</sup> |
| 220                                                                                 | Ot |                      |                      |                      | 19.9 <sup>(11)</sup>  |                      | 19.9 <sup>(11)</sup>  |                      | 38.9 <sup>(11)</sup> | 55.8 <sup>(B)</sup>  | 55.8 <sup>(B)</sup>  | 58.7 <sup>(A)</sup>  | 58.7 <sup>(A)</sup>  | 51.6 <sup>(A)</sup>  | 51.6 <sup>(A)</sup>  | 45.7 <sup>(A)</sup> | 45.7 <sup>(A)</sup> |
|                                                                                     | B  |                      | 187.0 <sup>(4)</sup> |                      | 202.0 <sup>(9)</sup>  |                      | 217.0 <sup>(11)</sup> |                      | 225.0 <sup>(E)</sup> | 139.0 <sup>(B)</sup> | 200.0 <sup>(2)</sup> | 133.0 <sup>(B)</sup> | 165.0 <sup>(3)</sup> | 108.0 <sup>(B)</sup> | 122.0 <sup>(D)</sup> | 82.0 <sup>(B)</sup> | 86.7 <sup>(B)</sup> |
|                                                                                     | BV |                      | 217.0 <sup>(4)</sup> |                      | 232.0 <sup>(9)</sup>  |                      | 244.0 <sup>(10)</sup> |                      | 240.0 <sup>(4)</sup> | 138.0 <sup>(B)</sup> | 205.0 <sup>(2)</sup> | 134.0 <sup>(B)</sup> | 166.0 <sup>(E)</sup> | 107.0 <sup>(B)</sup> | 123.0 <sup>(3)</sup> | 82.9 <sup>(B)</sup> | 87.6 <sup>(D)</sup> |
| 240                                                                                 | Ot |                      |                      |                      |                       |                      |                       |                      | 14.1 <sup>(7)</sup>  |                      | 33.9 <sup>(11)</sup> | 48.4 <sup>(A)</sup>  | 48.4 <sup>(A)</sup>  | 41                   |                      |                     |                     |



276 ft  
HS



118 ft  
D



39 - 315 ft  
W



0 lb



330,700 lb



B BV

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



Wmax

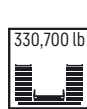
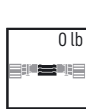
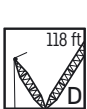


50

|     |    | HS 276 ft   |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|-----|----|-------------|------|-------------|------|----------------------|------|----------------------|------|-----------------------|------|----------------------|------|---------------------|----------------------|---------------------|----------------------|
|     |    | W39 ft      |      | W79 ft      |      | W118 ft              |      | W158 ft              |      | W197 ft               |      | W236 ft              |      | W276 ft             |                      | W315 ft             |                      |
|     |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°           | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                 |
| 300 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      | 17.4 <sup>[B]</sup> | 17.4 <sup>[B]</sup>  | 17.2 <sup>[A]</sup> | 17.2 <sup>[A]</sup>  |
|     | B  |             |      |             |      | 116.0 <sup>[7]</sup> |      | 128.0 <sup>[9]</sup> |      | 138.0 <sup>[10]</sup> |      | 134.0 <sup>[6]</sup> |      | 70.0 <sup>[B]</sup> | 113.0 <sup>[5]</sup> | 63.3 <sup>[B]</sup> | 80.7 <sup>[5]</sup>  |
|     | BV |             |      |             |      | 138.0 <sup>[7]</sup> |      | 150.0 <sup>[9]</sup> |      | 153.0 <sup>[8]</sup>  |      | 146.0 <sup>[5]</sup> |      | 70.2 <sup>[B]</sup> | 113.0 <sup>[4]</sup> | 65.6 <sup>[B]</sup> | 81.8 <sup>[5]</sup>  |
| 320 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      | 13.1 <sup>[A]</sup> | 13.1 <sup>[A]</sup>  |
|     | B  |             |      |             |      | 97.9 <sup>[6]</sup>  |      | 109.0 <sup>[8]</sup> |      | 119.0 <sup>[11]</sup> |      | 122.0 <sup>[8]</sup> |      |                     | 111.0 <sup>[5]</sup> | 56.3 <sup>[B]</sup> | 79.9 <sup>[3]</sup>  |
|     | BV |             |      |             |      | 119.0 <sup>[6]</sup> |      | 130.0 <sup>[8]</sup> |      | 139.0 <sup>[7]</sup>  |      | 134.0 <sup>[6]</sup> |      |                     | 112.0 <sup>[5]</sup> | 58.5 <sup>[B]</sup> | 81.0 <sup>[3]</sup>  |
| 340 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      | 92.1 <sup>[7]</sup>  |      | 102.0 <sup>[10]</sup> |      | 108.0 <sup>[9]</sup> |      |                     | 104.0 <sup>[6]</sup> | 46.3 <sup>[B]</sup> | 79.3 <sup>[3]</sup>  |
|     | BV |             |      |             |      |                      |      | 112.0 <sup>[7]</sup> |      | 121.0 <sup>[10]</sup> |      | 123.0 <sup>[7]</sup> |      |                     | 108.0 <sup>[5]</sup> | 46.1 <sup>[B]</sup> | 80.0 <sup>[4]</sup>  |
| 360 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      | 76.6 <sup>[6]</sup>  |      | 85.5 <sup>[9]</sup>   |      | 95.1 <sup>[7]</sup>  |      |                     | 93.1 <sup>[8]</sup>  |                     | 78.4 <sup>[4]</sup>  |
|     | BV |             |      |             |      |                      |      | 96.0 <sup>[6]</sup>  |      | 104.0 <sup>[9]</sup>  |      | 111.0 <sup>[8]</sup> |      |                     | 104.0 <sup>[5]</sup> |                     | 79.0 <sup>[4]</sup>  |
| 380 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      | 70.1 <sup>[8]</sup>   |      | 79.8 <sup>[10]</sup> |      |                     | 81.1 <sup>[8]</sup>  |                     | 73.9 <sup>[7]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      | 89.2 <sup>[8]</sup>   |      | 97.1 <sup>[10]</sup> |      |                     | 93.7 <sup>[6]</sup>  |                     | 77.2 <sup>[6]</sup>  |
| 400 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      | 56.1 <sup>[7]</sup>   |      | 64.8 <sup>[9]</sup>  |      |                     | 72.1 <sup>[7]</sup>  |                     | 67.4 <sup>[8]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      | 75.2 <sup>[7]</sup>   |      | 83.3 <sup>[9]</sup>  |      |                     | 83.5 <sup>[8]</sup>  |                     | 74.8 <sup>[7]</sup>  |
| 420 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      | 51.2 <sup>[8]</sup>  |      |                     | 57.9 <sup>[10]</sup> |                     | 59.1 <sup>[8]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      | 69.9 <sup>[8]</sup>  |      |                     | 75.5 <sup>[9]</sup>  |                     | 68.4 <sup>[6]</sup>  |
| 440 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      | 38.8 <sup>[7]</sup>  |      |                     | 44.8 <sup>[9]</sup>  |                     | 51.9 <sup>[10]</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      | 57.1 <sup>[7]</sup>  |      |                     | 62.9 <sup>[9]</sup>  |                     | 61.4 <sup>[7]</sup>  |
| 460 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     | 32.7 <sup>[8]</sup>  |                     | 40.2 <sup>[10]</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     | 50.1 <sup>[8]</sup>  |                     | 55.9 <sup>[9]</sup>  |
| 490 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     | 24.0 <sup>[8]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     | 38.9 <sup>[8]</sup>  |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

40 LR1700-1.0W



661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

110,200 lb - 328,500 lb

0 lb



50

|  ft |    | HS 295 ft            |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|-------------------------------------------------------------------------------------|----|----------------------|----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
|                                                                                     |    | W59ft                |                      | W79ft                |                       | W118ft               |                       | W158ft               |                      | W197ft               |                      | W236ft               |                      | W276ft               |                      | W315ft              |                     |
|                                                                                     |    | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°         | Wmax                |
| 50                                                                                  | Ot |                      |                      | 444.0 <sup>(A)</sup> | 444.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  |                      |                      | 444.0 <sup>(A)</sup> | 447.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      |                      |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 60                                                                                  | Ot |                      |                      | 401.0 <sup>(A)</sup> | 401.0 <sup>(A)</sup>  | 349.0 <sup>(A)</sup> | 349.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  |                      |                      | 416.0 <sup>(A)</sup> | 448.0 <sup>(1)</sup>  | 349.0 <sup>(A)</sup> | 351.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      |                      |                      | 452.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 70                                                                                  | Ot | 312.0 <sup>(C)</sup> | 312.0 <sup>(2)</sup> | 338.0 <sup>(A)</sup> | 338.0 <sup>(A)</sup>  | 328.0 <sup>(A)</sup> | 328.0 <sup>(A)</sup>  | 275.0 <sup>(A)</sup> | 275.0 <sup>(A)</sup> |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  | 485.0 <sup>(C)</sup> | 507.0 <sup>(1)</sup> | 429.0 <sup>(B)</sup> | 448.0 <sup>(1)</sup>  | 333.0 <sup>(A)</sup> | 353.0 <sup>(1)</sup>  | 275.0 <sup>(A)</sup> | 276.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV | 491.0 <sup>(C)</sup> | 514.0 <sup>(1)</sup> | 434.0 <sup>(B)</sup> | 454.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 80                                                                                  | Ot |                      | 264.0 <sup>(4)</sup> | 289.0 <sup>(A)</sup> | 289.0 <sup>(A)</sup>  | 284.0 <sup>(A)</sup> | 284.0 <sup>(A)</sup>  | 266.0 <sup>(A)</sup> | 266.0 <sup>(A)</sup> | 215.0 <sup>(A)</sup> | 215.0 <sup>(A)</sup> |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  |                      | 506.0 <sup>(1)</sup> | 404.0 <sup>(B)</sup> | 448.0 <sup>(1)</sup>  | 344.0 <sup>(B)</sup> | 354.0 <sup>(1)</sup>  | 266.0 <sup>(A)</sup> | 278.0 <sup>(1)</sup> | 215.0 <sup>(A)</sup> | 216.0 <sup>(1)</sup> |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      | 515.0 <sup>(1)</sup> | 408.0 <sup>(B)</sup> | 455.0 <sup>(1)</sup>  | 347.0 <sup>(B)</sup> | 357.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                      |                      |                     |                     |
| 90                                                                                  | Ot |                      | 219.0 <sup>(4)</sup> | 252.0 <sup>(A)</sup> | 252.0 <sup>(A)</sup>  | 247.0 <sup>(A)</sup> | 247.0 <sup>(A)</sup>  | 239.0 <sup>(B)</sup> | 239.0 <sup>(A)</sup> | 210.0 <sup>(A)</sup> | 210.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 163.0 <sup>(1)</sup> |                      |                      |                     |                     |
|                                                                                     | B  |                      | 500.0 <sup>(1)</sup> | 376.0 <sup>(B)</sup> | 449.0 <sup>(1)</sup>  | 329.0 <sup>(B)</sup> | 354.0 <sup>(1)</sup>  | 275.0 <sup>(B)</sup> | 280.0 <sup>(1)</sup> | 210.0 <sup>(A)</sup> | 216.0 <sup>(1)</sup> | 163.0 <sup>(A)</sup> | 164.0 <sup>(1)</sup> |                      |                      |                     |                     |
|                                                                                     | BV |                      | 514.0 <sup>(1)</sup> | 380.0 <sup>(B)</sup> | 456.0 <sup>(1)</sup>  | 331.0 <sup>(B)</sup> | 358.0 <sup>(1)</sup>  | 275.0 <sup>(B)</sup> | 280.0 <sup>(1)</sup> |                      |                      |                      |                      |                      |                      |                     |                     |
| 100                                                                                 | Ot |                      | 174.0 <sup>(D)</sup> | 220.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup>  | 217.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup>  | 211.0 <sup>(A)</sup> | 211.0 <sup>(A)</sup> | 199.0 <sup>(A)</sup> | 199.0 <sup>(A)</sup> | 160.0 <sup>(A)</sup> | 162.0 <sup>(1)</sup> | 120.0 <sup>(A)</sup> | 120.0 <sup>(1)</sup> |                     |                     |
|                                                                                     | B  |                      | 483.0 <sup>(1)</sup> | 348.0 <sup>(B)</sup> | 443.0 <sup>(1)</sup>  | 312.0 <sup>(B)</sup> | 354.0 <sup>(1)</sup>  | 266.0 <sup>(B)</sup> | 279.0 <sup>(1)</sup> | 215.0 <sup>(B)</sup> | 215.0 <sup>(B)</sup> | 160.0 <sup>(A)</sup> | 163.0 <sup>(1)</sup> | 120.0 <sup>(A)</sup> | 120.0 <sup>(1)</sup> |                     |                     |
|                                                                                     | BV |                      | 509.0 <sup>(1)</sup> | 353.0 <sup>(B)</sup> | 456.0 <sup>(1)</sup>  | 315.0 <sup>(B)</sup> | 359.0 <sup>(1)</sup>  | 266.0 <sup>(B)</sup> | 280.0 <sup>(1)</sup> | 216.0 <sup>(B)</sup> | 216.0 <sup>(B)</sup> |                      |                      |                      |                      |                     |                     |
| 110                                                                                 | Ot |                      | 147.0 <sup>(4)</sup> | 183.0 <sup>(B)</sup> | 183.0 <sup>(B)</sup>  | 193.0 <sup>(A)</sup> | 193.0 <sup>(A)</sup>  | 188.0 <sup>(A)</sup> | 188.0 <sup>(A)</sup> | 182.0 <sup>(A)</sup> | 182.0 <sup>(A)</sup> | 158.0 <sup>(B)</sup> | 158.0 <sup>(B)</sup> | 118.0 <sup>(A)</sup> | 120.0 <sup>(1)</sup> | 86.0 <sup>(A)</sup> | 86.0 <sup>(A)</sup> |
|                                                                                     | B  |                      | 467.0 <sup>(1)</sup> | 328.0 <sup>(B)</sup> | 433.0 <sup>(1)</sup>  | 294.0 <sup>(B)</sup> | 353.0 <sup>(D)</sup>  | 256.0 <sup>(B)</sup> | 279.0 <sup>(1)</sup> | 210.0 <sup>(B)</sup> | 210.0 <sup>(B)</sup> | 163.0 <sup>(B)</sup> | 163.0 <sup>(B)</sup> | 118.0 <sup>(A)</sup> | 120.0 <sup>(1)</sup> | 86.0 <sup>(A)</sup> | 86.0 <sup>(A)</sup> |
|                                                                                     | BV |                      | 505.0 <sup>(1)</sup> | 334.0 <sup>(B)</sup> | 456.0 <sup>(1)</sup>  | 297.0 <sup>(B)</sup> | 359.0 <sup>(D)</sup>  | 256.0 <sup>(B)</sup> | 281.0 <sup>(1)</sup> | 211.0 <sup>(B)</sup> | 211.0 <sup>(B)</sup> | 164.0 <sup>(B)</sup> | 164.0 <sup>(B)</sup> |                      |                      |                     |                     |
| 120                                                                                 | Ot |                      | 120.0 <sup>(4)</sup> |                      | 155.0 <sup>(11)</sup> | 172.0 <sup>(A)</sup> | 172.0 <sup>(A)</sup>  | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 163.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 85.1 <sup>(A)</sup> | 85.9 <sup>(1)</sup> |
|                                                                                     | B  |                      | 444.0 <sup>(E)</sup> |                      | 424.0 <sup>(1)</sup>  | 276.0 <sup>(B)</sup> | 344.0 <sup>(2)</sup>  | 246.0 <sup>(B)</sup> | 279.0 <sup>(1)</sup> | 204.0 <sup>(B)</sup> | 208.0 <sup>(2)</sup> | 161.0 <sup>(B)</sup> | 161.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 85.1 <sup>(A)</sup> | 85.9 <sup>(1)</sup> |
|                                                                                     | BV |                      | 488.0 <sup>(1)</sup> |                      | 456.0 <sup>(1)</sup>  | 280.0 <sup>(B)</sup> | 351.0 <sup>(2)</sup>  | 246.0 <sup>(B)</sup> | 281.0 <sup>(1)</sup> | 205.0 <sup>(B)</sup> | 209.0 <sup>(2)</sup> | 162.0 <sup>(B)</sup> | 162.0 <sup>(B)</sup> | 120.0 <sup>(B)</sup> | 120.0 <sup>(B)</sup> |                     |                     |
| 130                                                                                 | Ot |                      | 94.9 <sup>(4)</sup>  |                      | 128.0 <sup>(11)</sup> | 155.0 <sup>(A)</sup> | 155.0 <sup>(A)</sup>  | 151.0 <sup>(A)</sup> | 151.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 147.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup> | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> | 85.8 <sup>(B)</sup> | 85.8 <sup>(1)</sup> |
|                                                                                     | B  |                      | 410.0 <sup>(4)</sup> |                      | 404.0 <sup>(E)</sup>  | 260.0 <sup>(B)</sup> | 341.0 <sup>(2)</sup>  | 235.0 <sup>(B)</sup> | 277.0 <sup>(B)</sup> | 197.0 <sup>(B)</sup> | 207.0 <sup>(2)</sup> | 158.0 <sup>(B)</sup> | 159.0 <sup>(2)</sup> | 118.0 <sup>(B)</sup> | 118.0 <sup>(B)</sup> | 85.8 <sup>(B)</sup> | 85.8 <sup>(1)</sup> |
|                                                                                     | BV |                      | 450.0 <sup>(1)</sup> |                      | 441.0 <sup>(1)</sup>  | 264.0 <sup>(B)</sup> | 351.0 <sup>(2)</sup>  | 236.0 <sup>(B)</sup> | 280.0 <sup>(B)</sup> | 199.0 <sup>(B)</sup> | 209.0 <sup>(2)</sup> | 159.0 <sup>(B)</sup> | 160.0 <sup>(2)</sup> | 119.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 86.3 <sup>(B)</sup> | 86.3 <sup>(B)</sup> |
| 140                                                                                 | Ot |                      | 77.7 <sup>(4)</sup>  |                      | 104.0 <sup>(11)</sup> | 139.0 <sup>(A)</sup> | 139.0 <sup>(A)</sup>  | 136.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 125.0 <sup>(A)</sup> | 125.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 85.1 <sup>(B)</sup> | 85.1 <sup>(B)</sup> |
|                                                                                     | B  |                      | 377.0 <sup>(4)</sup> |                      | 376.0 <sup>(E)</sup>  | 246.0 <sup>(B)</sup> | 338.0 <sup>(2)</sup>  | 223.0 <sup>(B)</sup> | 272.0 <sup>(2)</sup> | 191.0 <sup>(B)</sup> | 209.0 <sup>(D)</sup> | 156.0 <sup>(B)</sup> | 159.0 <sup>(2)</sup> | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> | 85.1 <sup>(B)</sup> | 85.1 <sup>(B)</sup> |
|                                                                                     | BV |                      | 415.0 <sup>(3)</sup> |                      | 410.0 <sup>(1)</sup>  | 250.0 <sup>(B)</sup> | 351.0 <sup>(2)</sup>  | 225.0 <sup>(B)</sup> | 277.0 <sup>(2)</sup> | 193.0 <sup>(B)</sup> | 212.0 <sup>(D)</sup> | 156.0 <sup>(B)</sup> | 160.0 <sup>(2)</sup> | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> | 85.5 <sup>(B)</sup> | 85.5 <sup>(B)</sup> |
| 150                                                                                 | Ot |                      | 60.5 <sup>(4)</sup>  |                      | 86.1 <sup>(11)</sup>  | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup>  | 124.0 <sup>(A)</sup> | 124.0 <sup>(A)</sup> | 120.0 <sup>(A)</sup> | 120.0 <sup>(A)</sup> | 113.0 <sup>(A)</sup> | 113.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 103.0 <sup>(A)</sup> | 82.7 <sup>(B)</sup> | 82.7 <sup>(B)</sup> |
|                                                                                     | B  |                      | 344.0 <sup>(4)</sup> |                      | 351.0 <sup>(E)</sup>  | 238.0 <sup>(B)</sup> | 337.0 <sup>(E)</sup>  | 212.0 <sup>(B)</sup> | 270.0 <sup>(2)</sup> | 184.0 <sup>(B)</sup> | 207.0 <sup>(D)</sup> | 153.0 <sup>(B)</sup> | 159.0 <sup>(2)</sup> | 115.0 <sup>(B)</sup> | 116.0 <sup>(2)</sup> | 84.0 <sup>(B)</sup> | 84.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 383.0 <sup>(4)</sup> |                      | 380.0 <sup>(2)</sup>  | 242.0 <sup>(B)</sup> | 354.0 <sup>(E)</sup>  | 214.0 <sup>(B)</sup> | 276.0 <sup>(2)</sup> | 186.0 <sup>(B)</sup> | 210.0 <sup>(D)</sup> | 152.0 <sup>(B)</sup> | 160.0 <sup>(2)</sup> | 116.0 <sup>(B)</sup> | 117.0 <sup>(2)</sup> | 84.5 <sup>(B)</sup> | 84.5 <sup>(B)</sup> |
| 160                                                                                 | Ot |                      | 45.5 <sup>(4)</sup>  |                      | 67.9 <sup>(11)</sup>  |                      | 96.1 <sup>(11)</sup>  | 112.0 <sup>(A)</sup> | 112.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 94.3 <sup>(A)</sup>  | 94.3 <sup>(A)</sup>  | 78.7 <sup>(A)</sup> | 78.7 <sup>(A)</sup> |
|                                                                                     | B  |                      | 314.0 <sup>(4)</sup> |                      | 328.0 <sup>(E)</sup>  |                      | 318.0 <sup>(E)</sup>  | 201.0 <sup>(B)</sup> | 268.0 <sup>(2)</sup> | 178.0 <sup>(B)</sup> | 204.0 <sup>(2)</sup> | 149.0 <sup>(B)</sup> | 159.0 <sup>(D)</sup> | 114.0 <sup>(B)</sup> | 116.0 <sup>(2)</sup> | 82.8 <sup>(B)</sup> | 83.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 353.0 <sup>(4)</sup> |                      | 354.0 <sup>(4)</sup>  |                      | 338.0 <sup>(E)</sup>  | 204.0 <sup>(B)</sup> | 276.0 <sup>(2)</sup> | 180.0 <sup>(B)</sup> | 207.0 <sup>(2)</sup> | 148.0 <sup>(B)</sup> | 161.0 <sup>(D)</sup> | 114.0 <sup>(B)</sup> | 117.0 <sup>(2)</sup> | 83.4 <sup>(B)</sup> | 83.6 <sup>(2)</sup> |
| 170                                                                                 | Ot |                      | 34.4 <sup>(4)</sup>  |                      | 53.3 <sup>(11)</sup>  |                      | 78.4 <sup>(11)</sup>  | 102.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 99.0 <sup>(A)</sup>  | 99.0 <sup>(A)</sup>  | 92.6 <sup>(A)</sup>  | 92.6 <sup>(A)</sup>  | 85.2 <sup>(A)</sup>  | 85.2 <sup>(A)</sup>  | 75.3 <sup>(A)</sup> | 75.3 <sup>(A)</sup> |
|                                                                                     | B  |                      | 289.0 <sup>(4)</sup> |                      | 304.0 <sup>(11)</sup> |                      | 299.0 <sup>(E)</sup>  | 192.0 <sup>(B)</sup> | 266.0 <sup>(E)</sup> | 171.0 <sup>(B)</sup> | 202.0 <sup>(2)</sup> | 145.0 <sup>(B)</sup> | 158.0 <sup>(2)</sup> | 112.0 <sup>(B)</sup> | 115.0 <sup>(2)</sup> | 81.7 <sup>(B)</sup> | 82.5 <sup>(2)</sup> |
|                                                                                     | BV |                      | 327.0 <sup>(4)</sup> |                      | 331.0 <sup>(7)</sup>  |                      | 320.0 <sup>(3)</sup>  | 196.0 <sup>(B)</sup> | 275.0 <sup>(2)</sup> | 173.0 <sup>(B)</sup> | 205.0 <sup>(2)</sup> | 144.0 <sup>(B)</sup> | 161.0 <sup>(D)</sup> | 112.0 <sup>(B)</sup> | 116.0 <sup>(2)</sup> | 82.2 <sup>(B)</sup> | 83.1 <sup>(2)</sup> |
| 180                                                                                 | Ot |                      | 23.4 <sup>(4)</sup>  |                      | 40.0 <sup>(11)</sup>  |                      | 63.8 <sup>(11)</sup>  | 93.2 <sup>(A)</sup>  | 93.2 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 90.2 <sup>(A)</sup>  | 84.0 <sup>(A)</sup>  | 84.0 <sup>(A)</sup>  | 76.8 <sup>(A)</sup>  | 76.8 <sup>(A)</sup>  | 70.2 <sup>(A)</sup> | 70.2 <sup>(A)</sup> |
|                                                                                     | B  |                      | 264.0 <sup>(4)</sup> |                      | 280.0 <sup>(11)</sup> |                      | 282.0 <sup>(E)</sup>  | 184.0 <sup>(B)</sup> | 262.0 <sup>(E)</sup> | 165.0 <sup>(B)</sup> | 199.0 <sup>(2)</sup> | 141.0 <sup>(B)</sup> | 158.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> | 115.0 <sup>(2)</sup> | 80.5 <sup>(B)</sup> | 81.9 <sup>(2)</sup> |
|                                                                                     | BV |                      | 300.0 <sup>(4)</sup> |                      | 310.0 <sup>(B)</sup>  |                      | 302.0 <sup>(3)</sup>  | 188.0 <sup>(B)</sup> | 274.0 <sup>(E)</sup> | 167.0 <sup>(B)</sup> | 203.0 <sup>(2)</sup> | 140.0 <sup>(B)</sup> | 160.0 <sup>(D)</sup> | 110.0 <sup>(B)</sup> | 116.0 <sup>(2)</sup> | 81.1 <sup>(B)</sup> | 82.6 <sup>(2)</sup> |
| 190                                                                                 | Ot |                      |                      |                      | 24.6 <sup>(6)</sup>   |                      | 50.8 <sup>(11)</sup>  | 77.3 <sup>(B)</sup>  | 77.3 <sup>(B)</sup>  | 82.5 <sup>(A)</sup>  | 82.5 <sup>(A)</sup>  | 76.2 <sup>(A)</sup>  | 76.2 <sup>(A)</sup>  | 68.9 <sup>(A)</sup>  | 68.9 <sup>(A)</sup>  | 62.7 <sup>(A)</sup> | 62.7 <sup>(A)</sup> |
|                                                                                     | B  |                      | 243.0 <sup>(4)</sup> |                      | 256.0 <sup>(10)</sup> |                      | 266.0 <sup>(E)</sup>  | 164.0 <sup>(B)</sup> | 256.0 <sup>(E)</sup> | 158.0 <sup>(B)</sup> | 197.0 <sup>(2)</sup> | 136.0 <sup>(B)</sup> | 156.0 <sup>(D)</sup> | 107.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> | 79.3 <sup>(B)</sup> | 81.4 <sup>(2)</sup> |
|                                                                                     | BV |                      | 278.0 <sup>(4)</sup> |                      | 290.0 <sup>(10)</sup> |                      | 285.0 <sup>(4)</sup>  | 164.0 <sup>(B)</sup> | 267.0 <sup>(E)</sup> | 160.0 <sup>(B)</sup> | 201.0 <sup>(2)</sup> | 136.0 <sup>(B)</sup> | 159.0 <sup>(3)</sup> | 108.0 <sup>(B)</sup> | 116.0 <sup>(B)</sup> | 79.8 <sup>(B)</sup> | 82.1 <sup>(2)</sup> |
| 200                                                                                 | Ot |                      |                      |                      | 16.2 <sup>(6)</sup>   |                      | 37.8 <sup>(11)</sup>  |                      | 59.8 <sup>(11)</sup> | 75.3 <sup>(A)</sup>  | 75.3 <sup>(A)</sup>  | 69.4 <sup>(A)</sup>  | 69.4 <sup>(A)</sup>  | 62.3 <sup>(A)</sup>  | 62.3 <sup>(A)</sup>  | 56.2 <sup>(A)</sup> | 56.2 <sup>(A)</sup> |
|                                                                                     | B  |                      | 224.0 <sup>(4)</sup> |                      | 237.0 <sup>(10)</sup> |                      | 252.0 <sup>(E)</sup>  |                      | 244.0 <sup>(E)</sup> | 151.0 <sup>(B)</sup> | 195.0 <sup>(E)</sup> | 132.0 <sup>(B)</sup> | 155.0 <sup>(3)</sup> | 104.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> | 80.8 <sup>(2)</sup> |
|                                                                                     | BV |                      | 257.0 <sup>(4)</sup> |                      | 270.0 <sup>(10)</sup> |                      | 269.0 <sup>(5)</sup>  |                      | 256.0 <sup>(4)</sup> | 154.0 <sup>(B)</sup> | 199.0 <sup>(E)</sup> | 132.0 <sup>(B)</sup> | 158.0 <sup>(3)</sup> | 105.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> | 78.5 <sup>(B)</sup> | 81.6 <sup>(2)</sup> |
| 220                                                                                 | Ot |                      |                      |                      |                       |                      | 20.4 <sup>(11)</sup>  |                      | 37.6 <sup>(11)</sup> | 63.0 <sup>(A)</sup>  | 63.0 <sup>(A)</sup>  | 57.4 <sup>(A)</sup>  | 57.4 <sup>(9)</sup>  | 50.2 <sup>(A)</sup>  | 50.2 <sup>(A)</sup>  | 44.1 <sup>(A)</sup> | 44.1 <sup>(A)</sup> |
|                                                                                     | B  |                      | 191.0 <sup>(4)</sup> |                      | 201.0 <sup>(9)</sup>  |                      | 217.0 <sup>(11)</sup> |                      | 220.0 <sup>(7)</sup> | 136.0 <sup>(B)</sup> | 187.0 <sup>(2)</sup> | 121.0 <sup>(B)</sup> | 153.0 <sup>(3)</sup> | 98.2 <sup>(B)</sup>  | 112.0 <sup>(B)</sup> | 74.9 <sup>(B)</sup> | 79.6 <sup>(D)</sup> |
|                                                                                     | BV |                      | 221.0 <sup>(4)</sup> |                      | 231.0 <sup>(9)</sup>  |                      | 242.0 <sup>(B)</sup>  |                      | 235.0 <sup>(3)</sup> | 139.0 <sup>(B)</sup> | 192.0 <sup>(3)</sup> | 123.0 <sup>(B)</sup> | 156.0 <sup>(3)</sup> | 98.9 <sup>(B)</sup>  | 114.0 <sup>(3)</sup> | 75.4 <sup>(B)</sup> | 80.5 <sup>(D)</sup> |
| 240                                                                                 | Ot |                      |                      |                      |                       |                      |                       |                      | 19.9 <sup>(E)</sup>  |                      | 35.21                |                      |                      |                      |                      |                     |                     |



295 ft  
HS



118 ft  
D



59 - 315 ft  
W



0 lb



330,700 lb



B BV

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



Wmax

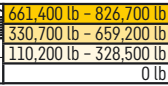


50

|     |    | HS 295 ft   |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|-----|----|-------------|------|-------------|------|----------------------|------|----------------------|------|-----------------------|------|----------------------|------|---------------------|----------------------|---------------------|----------------------|
|     |    | W59 ft      |      | W79 ft      |      | W118 ft              |      | W158 ft              |      | W197 ft               |      | W236 ft              |      | W276 ft             |                      | W315 ft             |                      |
|     |    | 87°/85°/84° | Wmax | 87°/85°/84° | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°           | Wmax | 87°/85°/84°          | Wmax | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                 |
| 300 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      | 16.3 <sup>[B]</sup> | 16.3 <sup>[B]</sup>  | 16.4 <sup>[A]</sup> | 16.4 <sup>[A]</sup>  |
|     | B  |             |      |             |      | 115.0 <sup>[7]</sup> |      | 126.0 <sup>[9]</sup> |      | 137.0 <sup>[10]</sup> |      | 131.0 <sup>[7]</sup> |      | 66.8 <sup>[B]</sup> | 104.0 <sup>[5]</sup> | 55.7 <sup>[B]</sup> | 74.1 <sup>[E]</sup>  |
|     | BV |             |      |             |      | 137.0 <sup>[7]</sup> |      | 149.0 <sup>[9]</sup> |      | 152.0 <sup>[9]</sup>  |      | 145.0 <sup>[5]</sup> |      | 68.9 <sup>[B]</sup> | 106.0 <sup>[5]</sup> | 56.8 <sup>[B]</sup> | 75.2 <sup>[5]</sup>  |
| 320 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      | 12.2 <sup>[A]</sup> | 12.2 <sup>[A]</sup>  |
|     | B  |             |      |             |      | 96.9 <sup>[6]</sup>  |      | 107.0 <sup>[8]</sup> |      | 120.0 <sup>[11]</sup> |      | 119.0 <sup>[8]</sup> |      |                     | 103.0 <sup>[5]</sup> | 48.7 <sup>[B]</sup> | 73.3 <sup>[E]</sup>  |
|     | BV |             |      |             |      | 118.0 <sup>[6]</sup> |      | 128.0 <sup>[8]</sup> |      | 137.0 <sup>[9]</sup>  |      | 132.0 <sup>[6]</sup> |      |                     | 105.0 <sup>[5]</sup> | 50.3 <sup>[B]</sup> | 74.6 <sup>[E]</sup>  |
| 340 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      | 90.2 <sup>[7]</sup>  |      | 102.0 <sup>[10]</sup> |      | 108.0 <sup>[9]</sup> |      |                     | 99.7 <sup>[6]</sup>  | 43.0 <sup>[B]</sup> | 72.1 <sup>[A]</sup>  |
|     | BV |             |      |             |      |                      |      | 110.0 <sup>[7]</sup> |      | 121.0 <sup>[10]</sup> |      | 120.0 <sup>[8]</sup> |      |                     | 104.0 <sup>[6]</sup> | 44.7 <sup>[B]</sup> | 73.5 <sup>[A]</sup>  |
| 360 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      | 74.6 <sup>[A]</sup>  |      | 85.2 <sup>[9]</sup>   |      | 93.6 <sup>[10]</sup> |      |                     | 91.5 <sup>[8]</sup>  |                     | 71.4 <sup>[A]</sup>  |
|     | BV |             |      |             |      |                      |      | 94.2 <sup>[A]</sup>  |      | 104.0 <sup>[9]</sup>  |      | 109.0 <sup>[8]</sup> |      |                     | 98.4 <sup>[A]</sup>  |                     | 72.9 <sup>[A]</sup>  |
| 380 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      | 69.8 <sup>[B]</sup>   |      | 78.6 <sup>[10]</sup> |      |                     | 81.4 <sup>[9]</sup>  |                     | 71.4 <sup>[7]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      | 88.7 <sup>[B]</sup>   |      | 96.4 <sup>[10]</sup> |      |                     | 91.2 <sup>[A]</sup>  |                     | 72.9 <sup>[7]</sup>  |
| 400 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      | 55.6 <sup>[7]</sup>   |      | 63.5 <sup>[9]</sup>  |      |                     | 69.0 <sup>[10]</sup> |                     | 69.1 <sup>[B]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      | 74.9 <sup>[7]</sup>   |      | 82.1 <sup>[9]</sup>  |      |                     | 83.2 <sup>[F]</sup>  |                     | 71.1 <sup>[7]</sup>  |
| 420 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      | 49.7 <sup>[B]</sup>  |      |                     | 56.7 <sup>[10]</sup> |                     | 58.5 <sup>[9]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      | 68.5 <sup>[B]</sup>  |      |                     | 73.0 <sup>[9]</sup>  |                     | 67.9 <sup>[7]</sup>  |
| 440 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      | 37.2 <sup>[7]</sup>  |      |                     | 43.4 <sup>[9]</sup>  |                     | 49.0 <sup>[10]</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      | 55.5 <sup>[7]</sup>  |      |                     | 61.5 <sup>[9]</sup>  |                     | 61.5 <sup>[7]</sup>  |
| 460 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     | 31.6 <sup>[B]</sup>  |                     | 38.9 <sup>[10]</sup> |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     | 48.6 <sup>[B]</sup>  |                     | 53.0 <sup>[9]</sup>  |
| 490 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     | 18.1 <sup>[7]</sup>  |                     | 23.5 <sup>[9]</sup>  |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     | 31.6 <sup>[7]</sup>  |                     | 38.1 <sup>[9]</sup>  |
| 520 | Ot |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | B  |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     |                      |
|     | BV |             |      |             |      |                      |      |                      |      |                       |      |                      |      |                     |                      |                     | 22.5 <sup>[7]</sup>  |

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

A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°



|  ft |    | HS 315 ft            |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
|-------------------------------------------------------------------------------------|----|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
|                                                                                     |    | W 79 ft              |                       | W 118 ft             |                       | W 158 ft             |                       | W 197 ft             |                      | W 236 ft             |                      | W 276 ft             |                      | W 315 ft            |                     |
|                                                                                     |    | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°         | Wmax                |
| 50                                                                                  | Ot | 400.0 <sup>(A)</sup> | 400.0 <sup>(A)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  | 400.0 <sup>(A)</sup> | 400.0 <sup>(A)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
| 60                                                                                  | Ot | 376.0 <sup>(A)</sup> | 376.0 <sup>(A)</sup>  | 314.0 <sup>(A)</sup> | 314.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  | 376.0 <sup>(A)</sup> | 400.0 <sup>(1)</sup>  | 314.0 <sup>(A)</sup> | 314.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
| 70                                                                                  | Ot | 332.0 <sup>(A)</sup> | 332.0 <sup>(A)</sup>  | 300.0 <sup>(A)</sup> | 300.0 <sup>(A)</sup>  | 248.0 <sup>(A)</sup> | 248.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  | 387.0 <sup>(B)</sup> | 399.0 <sup>(1)</sup>  | 300.0 <sup>(A)</sup> | 315.0 <sup>(1)</sup>  | 248.0 <sup>(A)</sup> | 248.0 <sup>(A)</sup>  |                      |                      |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV | 390.0 <sup>(B)</sup> | 403.0 <sup>(1)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
| 80                                                                                  | Ot | 285.0 <sup>(A)</sup> | 285.0 <sup>(A)</sup>  | 277.0 <sup>(A)</sup> | 277.0 <sup>(A)</sup>  | 239.0 <sup>(A)</sup> | 239.0 <sup>(A)</sup>  | 195.0 <sup>(A)</sup> | 195.0 <sup>(A)</sup> |                      |                      |                      |                      |                     |                     |
|                                                                                     | B  | 365.0 <sup>(B)</sup> | 399.0 <sup>(1)</sup>  | 310.0 <sup>(B)</sup> | 316.0 <sup>(1)</sup>  | 239.0 <sup>(A)</sup> | 249.0 <sup>(1)</sup>  | 195.0 <sup>(A)</sup> | 195.0 <sup>(A)</sup> |                      |                      |                      |                      |                     |                     |
|                                                                                     | BV | 369.0 <sup>(B)</sup> | 403.0 <sup>(1)</sup>  | 310.0 <sup>(B)</sup> | 317.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                      |                      |                     |                     |
| 90                                                                                  | Ot | 248.0 <sup>(A)</sup> | 248.0 <sup>(A)</sup>  | 242.0 <sup>(A)</sup> | 242.0 <sup>(A)</sup>  | 229.0 <sup>(A)</sup> | 229.0 <sup>(A)</sup>  | 190.0 <sup>(A)</sup> | 192.0 <sup>(1)</sup> | 149.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> |                      |                      |                     |                     |
|                                                                                     | B  | 343.0 <sup>(B)</sup> | 398.0 <sup>(1)</sup>  | 296.0 <sup>(B)</sup> | 315.0 <sup>(1)</sup>  | 248.0 <sup>(B)</sup> | 250.0 <sup>(1)</sup>  | 190.0 <sup>(A)</sup> | 195.0 <sup>(1)</sup> | 149.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup> |                      |                      |                     |                     |
|                                                                                     | BV | 346.0 <sup>(B)</sup> | 402.0 <sup>(1)</sup>  | 295.0 <sup>(B)</sup> | 316.0 <sup>(1)</sup>  | 246.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  |                      |                      |                      |                      |                      |                      |                     |                     |
| 100                                                                                 | Ot | 217.0 <sup>(A)</sup> | 217.0 <sup>(A)</sup>  | 213.0 <sup>(A)</sup> | 213.0 <sup>(A)</sup>  | 207.0 <sup>(A)</sup> | 207.0 <sup>(A)</sup>  | 185.0 <sup>(B)</sup> | 186.0 <sup>(1)</sup> | 146.0 <sup>(A)</sup> | 148.0 <sup>(1)</sup> | 109.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> |                     |                     |
|                                                                                     | B  | 319.0 <sup>(B)</sup> | 397.0 <sup>(1)</sup>  | 282.0 <sup>(B)</sup> | 315.0 <sup>(1)</sup>  | 240.0 <sup>(B)</sup> | 250.0 <sup>(1)</sup>  | 195.0 <sup>(B)</sup> | 195.0 <sup>(B)</sup> | 146.0 <sup>(A)</sup> | 149.0 <sup>(1)</sup> | 109.0 <sup>(A)</sup> | 109.0 <sup>(A)</sup> |                     |                     |
|                                                                                     | BV | 322.0 <sup>(B)</sup> | 402.0 <sup>(1)</sup>  | 280.0 <sup>(B)</sup> | 316.0 <sup>(1)</sup>  | 237.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  | 194.0 <sup>(B)</sup> | 194.0 <sup>(B)</sup> |                      |                      |                      |                      |                     |                     |
| 110                                                                                 | Ot | 179.0 <sup>(B)</sup> | 179.0 <sup>(11)</sup> | 189.0 <sup>(A)</sup> | 189.0 <sup>(A)</sup>  | 184.0 <sup>(A)</sup> | 184.0 <sup>(A)</sup>  | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> | 147.0 <sup>(B)</sup> | 147.0 <sup>(B)</sup> | 107.0 <sup>(A)</sup> | 109.0 <sup>(1)</sup> | 78.0 <sup>(A)</sup> | 78.0 <sup>(A)</sup> |
|                                                                                     | B  | 300.0 <sup>(B)</sup> | 394.0 <sup>(1)</sup>  | 267.0 <sup>(B)</sup> | 317.0 <sup>(1)</sup>  | 231.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  | 191.0 <sup>(B)</sup> | 191.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 107.0 <sup>(A)</sup> | 109.0 <sup>(1)</sup> | 78.0 <sup>(A)</sup> | 78.0 <sup>(A)</sup> |
|                                                                                     | BV | 304.0 <sup>(B)</sup> | 402.0 <sup>(1)</sup>  | 266.0 <sup>(B)</sup> | 315.0 <sup>(1)</sup>  | 228.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  | 189.0 <sup>(B)</sup> | 189.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup> |                      |                      |                     |                     |
| 120                                                                                 | Ot |                      | 153.0 <sup>(11)</sup> | 169.0 <sup>(A)</sup> | 169.0 <sup>(A)</sup>  | 165.0 <sup>(A)</sup> | 165.0 <sup>(A)</sup>  | 159.0 <sup>(A)</sup> | 159.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 138.0 <sup>(A)</sup> | 109.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup> | 77.2 <sup>(A)</sup> | 77.9 <sup>(1)</sup> |
|                                                                                     | B  |                      | 392.0 <sup>(1)</sup>  | 252.0 <sup>(B)</sup> | 314.0 <sup>(1)</sup>  | 222.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  | 186.0 <sup>(B)</sup> | 189.0 <sup>(2)</sup> | 148.0 <sup>(B)</sup> | 148.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup> | 77.2 <sup>(A)</sup> | 77.9 <sup>(1)</sup> |
|                                                                                     | BV |                      | 402.0 <sup>(1)</sup>  | 252.0 <sup>(B)</sup> | 315.0 <sup>(1)</sup>  | 218.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  | 183.0 <sup>(B)</sup> | 187.0 <sup>(2)</sup> | 146.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> | 110.0 <sup>(B)</sup> |                     |                     |
| 130                                                                                 | Ot |                      | 126.0 <sup>(11)</sup> | 152.0 <sup>(A)</sup> | 152.0 <sup>(A)</sup>  | 148.0 <sup>(A)</sup> | 148.0 <sup>(A)</sup>  | 143.0 <sup>(A)</sup> | 143.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 132.0 <sup>(A)</sup> | 108.0 <sup>(B)</sup> | 108.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> |
|                                                                                     | B  |                      | 389.0 <sup>(1)</sup>  | 237.0 <sup>(B)</sup> | 312.0 <sup>(1)</sup>  | 212.0 <sup>(B)</sup> | 248.0 <sup>(1)</sup>  | 181.0 <sup>(B)</sup> | 189.0 <sup>(2)</sup> | 145.0 <sup>(B)</sup> | 145.0 <sup>(2)</sup> | 108.0 <sup>(B)</sup> | 108.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> |
|                                                                                     | BV |                      | 402.0 <sup>(1)</sup>  | 239.0 <sup>(B)</sup> | 314.0 <sup>(1)</sup>  | 208.0 <sup>(B)</sup> | 247.0 <sup>(1)</sup>  | 177.0 <sup>(B)</sup> | 188.0 <sup>(2)</sup> | 143.0 <sup>(B)</sup> | 143.0 <sup>(2)</sup> | 109.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup> | 78.4 <sup>(B)</sup> | 78.4 <sup>(B)</sup> |
| 140                                                                                 | Ot |                      | 101.0 <sup>(1)</sup>  | 137.0 <sup>(A)</sup> | 137.0 <sup>(A)</sup>  | 134.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup>  | 130.0 <sup>(A)</sup> | 130.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 122.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 102.0 <sup>(A)</sup> | 77.5 <sup>(B)</sup> | 77.5 <sup>(B)</sup> |
|                                                                                     | B  |                      | 365.0 <sup>(E)</sup>  | 225.0 <sup>(B)</sup> | 311.0 <sup>(1)</sup>  | 202.0 <sup>(B)</sup> | 243.0 <sup>(2)</sup>  | 175.0 <sup>(B)</sup> | 188.0 <sup>(2)</sup> | 142.0 <sup>(B)</sup> | 145.0 <sup>(2)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 77.5 <sup>(B)</sup> | 77.5 <sup>(B)</sup> |
|                                                                                     | BV |                      | 385.0 <sup>(2)</sup>  | 228.0 <sup>(B)</sup> | 314.0 <sup>(1)</sup>  | 199.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup>  | 170.0 <sup>(B)</sup> | 188.0 <sup>(2)</sup> | 139.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 107.0 <sup>(B)</sup> | 107.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> | 78.0 <sup>(B)</sup> |
| 150                                                                                 | Ot |                      | 83.3 <sup>(11)</sup>  | 114.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup>  | 121.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup>  | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 111.0 <sup>(A)</sup> | 97.6 <sup>(A)</sup>  | 97.6 <sup>(A)</sup>  | 76.6 <sup>(B)</sup> | 76.6 <sup>(B)</sup> |
|                                                                                     | B  |                      | 341.0 <sup>(E)</sup>  | 216.0 <sup>(B)</sup> | 309.0 <sup>(E)</sup>  | 192.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup>  | 168.0 <sup>(B)</sup> | 190.0 <sup>(1)</sup> | 139.0 <sup>(B)</sup> | 145.0 <sup>(2)</sup> | 106.0 <sup>(B)</sup> | 106.0 <sup>(2)</sup> | 76.8 <sup>(B)</sup> | 76.8 <sup>(B)</sup> |
|                                                                                     | BV |                      | 363.0 <sup>(2)</sup>  | 220.0 <sup>(B)</sup> | 313.0 <sup>(E)</sup>  | 191.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup>  | 164.0 <sup>(B)</sup> | 191.0 <sup>(1)</sup> | 135.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 105.0 <sup>(B)</sup> | 106.0 <sup>(2)</sup> | 77.2 <sup>(B)</sup> | 77.2 <sup>(B)</sup> |
| 160                                                                                 | Ot |                      | 66.0 <sup>(11)</sup>  |                      | 94.3 <sup>(11)</sup>  | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup>  | 106.0 <sup>(A)</sup> | 106.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup> | 91.3 <sup>(A)</sup>  | 91.3 <sup>(A)</sup>  | 73.6 <sup>(B)</sup> | 73.6 <sup>(B)</sup> |
|                                                                                     | B  |                      | 319.0 <sup>(E)</sup>  |                      | 303.0 <sup>(E)</sup>  | 182.0 <sup>(B)</sup> | 242.0 <sup>(2)</sup>  | 162.0 <sup>(B)</sup> | 188.0 <sup>(2)</sup> | 135.0 <sup>(B)</sup> | 146.0 <sup>(1)</sup> | 104.0 <sup>(B)</sup> | 106.0 <sup>(2)</sup> | 75.8 <sup>(B)</sup> | 75.9 <sup>(2)</sup> |
|                                                                                     | BV |                      | 341.0 <sup>(2)</sup>  |                      | 307.0 <sup>(E)</sup>  | 184.0 <sup>(B)</sup> | 243.0 <sup>(2)</sup>  | 158.0 <sup>(B)</sup> | 189.0 <sup>(2)</sup> | 131.0 <sup>(B)</sup> | 146.0 <sup>(1)</sup> | 102.0 <sup>(B)</sup> | 106.0 <sup>(2)</sup> | 76.3 <sup>(B)</sup> | 76.4 <sup>(2)</sup> |
| 170                                                                                 | Ot |                      | 49.9 <sup>(11)</sup>  |                      | 77.0 <sup>(11)</sup>  | 100.0 <sup>(A)</sup> | 100.0 <sup>(A)</sup>  | 97.1 <sup>(A)</sup>  | 97.1 <sup>(A)</sup>  | 90.6 <sup>(A)</sup>  | 90.6 <sup>(A)</sup>  | 82.5 <sup>(A)</sup>  | 82.5 <sup>(A)</sup>  | 70.3 <sup>(A)</sup> | 70.3 <sup>(A)</sup> |
|                                                                                     | B  |                      | 299.0 <sup>(11)</sup> |                      | 290.0 <sup>(E)</sup>  | 174.0 <sup>(B)</sup> | 241.0 <sup>(E)</sup>  | 155.0 <sup>(B)</sup> | 186.0 <sup>(2)</sup> | 130.0 <sup>(B)</sup> | 145.0 <sup>(1)</sup> | 102.0 <sup>(B)</sup> | 106.0 <sup>(2)</sup> | 74.7 <sup>(B)</sup> | 75.5 <sup>(2)</sup> |
|                                                                                     | BV |                      | 320.0 <sup>(3)</sup>  |                      | 297.0 <sup>(E)</sup>  | 177.0 <sup>(B)</sup> | 244.0 <sup>(E)</sup>  | 152.0 <sup>(B)</sup> | 188.0 <sup>(2)</sup> | 127.0 <sup>(B)</sup> | 145.0 <sup>(1)</sup> | 99.9 <sup>(B)</sup>  | 106.0 <sup>(2)</sup> | 75.1 <sup>(B)</sup> | 76.0 <sup>(2)</sup> |
| 180                                                                                 | Ot |                      | 38.2 <sup>(11)</sup>  |                      | 62.7 <sup>(1)</sup>   | 91.3 <sup>(A)</sup>  | 91.3 <sup>(A)</sup>   | 88.4 <sup>(A)</sup>  | 88.4 <sup>(A)</sup>  | 82.0 <sup>(A)</sup>  | 82.0 <sup>(A)</sup>  | 74.4 <sup>(A)</sup>  | 74.4 <sup>(A)</sup>  | 66.9 <sup>(A)</sup> | 66.9 <sup>(A)</sup> |
|                                                                                     | B  |                      | 276.0 <sup>(11)</sup> |                      | 274.0 <sup>(5)</sup>  | 167.0 <sup>(B)</sup> | 240.0 <sup>(E)</sup>  | 148.0 <sup>(B)</sup> | 184.0 <sup>(2)</sup> | 126.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 99.2 <sup>(B)</sup>  | 105.0 <sup>(2)</sup> | 73.6 <sup>(B)</sup> | 75.0 <sup>(2)</sup> |
|                                                                                     | BV |                      | 299.0 <sup>(4)</sup>  |                      | 284.0 <sup>(3)</sup>  | 170.0 <sup>(B)</sup> | 242.0 <sup>(E)</sup>  | 146.0 <sup>(B)</sup> | 187.0 <sup>(2)</sup> | 123.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup> | 97.3 <sup>(B)</sup>  | 106.0 <sup>(1)</sup> | 73.7 <sup>(B)</sup> | 75.7 <sup>(2)</sup> |
| 190                                                                                 | Ot |                      | 26.5 <sup>(11)</sup>  |                      | 48.9 <sup>(11)</sup>  | 74.9 <sup>(B)</sup>  | 74.9 <sup>(B)</sup>   | 80.8 <sup>(A)</sup>  | 80.8 <sup>(A)</sup>  | 74.5 <sup>(A)</sup>  | 74.5 <sup>(A)</sup>  | 66.9 <sup>(A)</sup>  | 66.9 <sup>(A)</sup>  | 60.4 <sup>(A)</sup> | 60.4 <sup>(A)</sup> |
|                                                                                     | B  |                      | 254.0 <sup>(11)</sup> |                      | 258.0 <sup>(E)</sup>  | 162.0 <sup>(B)</sup> | 236.0 <sup>(E)</sup>  | 141.0 <sup>(B)</sup> | 182.0 <sup>(2)</sup> | 122.0 <sup>(B)</sup> | 143.0 <sup>(2)</sup> | 96.3 <sup>(B)</sup>  | 105.0 <sup>(2)</sup> | 72.3 <sup>(B)</sup> | 74.6 <sup>(2)</sup> |
|                                                                                     | BV |                      | 279.0 <sup>(6)</sup>  |                      | 273.0 <sup>(2)</sup>  | 165.0 <sup>(B)</sup> | 239.0 <sup>(E)</sup>  | 143.0 <sup>(B)</sup> | 185.0 <sup>(2)</sup> | 119.0 <sup>(B)</sup> | 143.0 <sup>(2)</sup> | 94.6 <sup>(B)</sup>  | 106.0 <sup>(1)</sup> | 72.0 <sup>(B)</sup> | 75.3 <sup>(2)</sup> |
| 200                                                                                 | Ot |                      |                       |                      | 36.5 <sup>(11)</sup>  |                      | 58.4 <sup>(11)</sup>  | 73.7 <sup>(A)</sup>  | 73.7 <sup>(A)</sup>  | 67.7 <sup>(A)</sup>  | 67.7 <sup>(A)</sup>  | 60.2 <sup>(A)</sup>  | 60.2 <sup>(A)</sup>  | 54.0 <sup>(A)</sup> | 54.0 <sup>(A)</sup> |
|                                                                                     | B  |                      | 233.0 <sup>(10)</sup> |                      | 245.0 <sup>(E)</sup>  |                      | 230.0 <sup>(E)</sup>  | 136.0 <sup>(B)</sup> | 180.0 <sup>(E)</sup> | 118.0 <sup>(B)</sup> | 141.0 <sup>(2)</sup> | 93.4 <sup>(B)</sup>  | 105.0 <sup>(1)</sup> | 70.8 <sup>(B)</sup> | 74.1 <sup>(2)</sup> |
|                                                                                     | BV |                      | 261.0 <sup>(9)</sup>  |                      | 257.0 <sup>(5)</sup>  |                      | 234.0 <sup>(E)</sup>  | 138.0 <sup>(B)</sup> | 184.0 <sup>(E)</sup> | 115.0 <sup>(B)</sup> | 142.0 <sup>(2)</sup> | 91.9 <sup>(B)</sup>  | 105.0 <sup>(1)</sup> | 70.2 <sup>(B)</sup> | 75.0 <sup>(2)</sup> |
| 220                                                                                 | Ot |                      |                       |                      |                       |                      | 37.6 <sup>(1)</sup>   | 61.3 <sup>(A)</sup>  | 61.3 <sup>(A)</sup>  | 55.8 <sup>(A)</sup>  | 55.8 <sup>(A)</sup>  | 48.5 <sup>(A)</sup>  | 48.5 <sup>(A)</sup>  | 42.5 <sup>(A)</sup> | 42.5 <sup>(A)</sup> |
|                                                                                     | B  |                      | 197.0 <sup>(10)</sup> |                      | 214.0 <sup>(11)</sup> |                      | 213.0 <sup>(E)</sup>  | 124.0 <sup>(B)</sup> | 174.0 <sup>(E)</sup> | 108.0 <sup>(B)</sup> | 138.0 <sup>(E)</sup> | 87.2 <sup>(B)</sup>  | 102.0 <sup>(3)</sup> | 66.9 <sup>(B)</sup> | 73.1 <sup>(1)</sup> |
|                                                                                     | BV |                      | 227.0 <sup>(10)</sup> |                      | 228.0 <sup>(5)</sup>  |                      | 222.0 <sup>(2)</sup>  | 126.0 <sup>(B)</sup> | 179.0 <sup>(3)</sup> | 107.0 <sup>(B)</sup> | 140.0 <sup>(3)</sup> | 85.8 <sup>(B)</sup>  | 103.0 <sup>(3)</sup> | 66.2 <sup>(B)</sup> | 74.1 <sup>(1)</sup> |
| 240                                                                                 | Ot |                      |                       |                      |                       |                      | 18.5 <sup>(11)</sup>  |                      | 34.4 <sup>(11)</sup> | 45.9 <sup>(A)</sup>  | 45.9 <sup>(A)</sup>  | 38.7 <sup>(A)</sup>  | 38.7 <sup>(A)</sup>  | 33.0 <sup>(A)</sup> | 33.0 <sup>(A)</sup> |
|                                                                                     | B  |                      | 168.0 <sup>(9)</sup>  |                      | 183.0 <sup>(10)</sup> |                      | 194.0 <sup>(E)</sup>  |                      | 168.0 <sup>(2)</sup> | 97.4 <sup>(B)</sup>  | 135.0 <sup>(E)</sup> | 81.1 <sup>(B)</sup>  | 99.7 <sup>(3)</sup>  | 62.6 <sup>(B)</sup> | 71.8 <sup>(1)</sup> |
|                                                                                     | BV |                      | 195.0 <sup>(9)</sup>  |                      | 203.0 <sup>(9)</sup>  |                      | 199.0 <sup>(4)</sup>  |                      | 174.0 <sup>(3)</sup> | 98.3 <sup>(B)</sup>  | 138.0 <sup>(E)</sup> | 79.7 <sup>(B)</sup>  | 101.0 <sup>(3)</sup> | 61.9 <sup>(B)</sup> | 72.6 <sup>(1)</sup> |
| 260                                                                                 | Ot |                      |                       |                      |                       |                      |                       |                      |                      | 37.5 <sup>(A)</sup>  | 37.5 <sup>(A)</sup>  | 30.9 <sup>(A)</sup>  | 30.9 <sup>(A)</sup>  | 25.6 <sup>(A)</sup> | 25.6 <sup>(A)</sup> |
|                                                                                     | B  |                      | 142.0 <sup>(8)</sup>  |                      | 156.0 <sup>(7)</sup>  |                      | 169.0 <sup>(11)</sup> |                      | 156.0 <sup>(4)</sup> | 87.9 <sup>(B)</sup>  | 132.0 <sup>(3)</sup> | 73.8 <sup>(B)</sup>  | 97.4 <sup>(3)</sup>  | 58.2 <sup>(B)</sup> | 69.8 <sup>(3)</sup> |
|                                                                                     | BV |                      | 168.0 <sup>(8)</sup>  |                      | 181.0 <sup>(7)</sup>  |                      | 179.0 <sup>(6)</sup>  |                      | 169.0 <sup>(4)</sup> | 89.3 <sup>(B)</sup>  | 135.0 <sup>(4)</sup> | 73.9 <sup>(B)</sup>  | 99.2 <sup>(3)</sup>  | 57.6 <sup>(B)</sup> | 70.9 <sup>(3)</sup> |
| 280                                                                                 | Ot |                      |                       |                      |                       |                      |                       |                      |                      |                      | 12.9 <sup>(10)</sup> | 24.8 <sup>(A)</sup>  | 24.8 <sup>(A)</sup>  | 20.1<               |                     |



315 ft  
HS



118 ft  
D



79 - 315 ft  
W



0 lb



330,700 lb



B BV

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



Wmax



50

| <div> ft</div> |    | HS 315 ft   |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|------------------------------------------------------------------------------------------------|----|-------------|----------------------|-------------|----------------------|-------------|----------------------|-------------|-----------------------|-------------|-----------------------|---------------------|----------------------|---------------------|----------------------|
|                                                                                                |    | W79 ft      |                      | W118 ft     |                      | W158 ft     |                      | W197 ft     |                       | W236 ft     |                       | W276 ft             |                      | W315 ft             |                      |
|                                                                                                |    | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                  | 87°/85°/84° | Wmax                  | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                 |
| 300                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       | 14.9 <sup>(B)</sup> | 14.9 <sup>(B)</sup>  | 15.3 <sup>(A)</sup> | 15.3 <sup>(A)</sup>  |
|                                                                                                | B  |             | 101.0 <sup>(6)</sup> |             | 112.0 <sup>(8)</sup> |             | 124.0 <sup>(9)</sup> |             | 132.0 <sup>(10)</sup> |             | 122.0 <sup>(5)</sup>  | 59.1 <sup>(8)</sup> | 93.3 <sup>(4)</sup>  | 47.7 <sup>(B)</sup> | 66.8 <sup>(4)</sup>  |
|                                                                                                | BV |             | 124.0 <sup>(6)</sup> |             | 134.0 <sup>(8)</sup> |             | 145.0 <sup>(9)</sup> |             | 142.0 <sup>(6)</sup>  |             | 130.0 <sup>(5)</sup>  | 60.1 <sup>(8)</sup> | 95.4 <sup>(4)</sup>  | 48.0 <sup>(B)</sup> | 68.1 <sup>(4)</sup>  |
| 320                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      | 11.1 <sup>(A)</sup> | 11.1 <sup>(A)</sup>  |
|                                                                                                | B  |             |                      |             | 94.0 <sup>(7)</sup>  |             | 105.0 <sup>(9)</sup> |             | 118.0 <sup>(11)</sup> |             | 113.0 <sup>(9)</sup>  |                     | 91.8 <sup>(5)</sup>  | 41.7 <sup>(B)</sup> | 65.4 <sup>(E)</sup>  |
|                                                                                                | BV |             |                      |             | 115.0 <sup>(7)</sup> |             | 126.0 <sup>(9)</sup> |             | 129.0 <sup>(9)</sup>  |             | 122.0 <sup>(6)</sup>  |                     | 93.9 <sup>(5)</sup>  | 42.2 <sup>(B)</sup> | 66.8 <sup>(E)</sup>  |
| 340                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             | 77.6 <sup>(6)</sup>  |             | 88.0 <sup>(8)</sup>  |             | 99.2 <sup>(10)</sup>  |             | 104.0 <sup>(9)</sup>  |                     | 90.4 <sup>(6)</sup>  | 36.7 <sup>(B)</sup> | 64.2 <sup>(5)</sup>  |
|                                                                                                | BV |             |                      |             | 98.1 <sup>(6)</sup>  |             | 108.0 <sup>(8)</sup> |             | 117.0 <sup>(10)</sup> |             | 110.0 <sup>(8)</sup>  |                     | 92.7 <sup>(6)</sup>  | 37.5 <sup>(B)</sup> | 65.6 <sup>(5)</sup>  |
| 360                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             | 71.9 <sup>(7)</sup>  |             | 83.2 <sup>(10)</sup>  |             | 92.3 <sup>(11)</sup>  |                     | 86.6 <sup>(7)</sup>  |                     | 63.2 <sup>(6)</sup>  |
|                                                                                                | BV |             |                      |             |                      |             | 91.6 <sup>(7)</sup>  |             | 102.0 <sup>(10)</sup> |             | 100.0 <sup>(10)</sup> |                     | 90.9 <sup>(7)</sup>  |                     | 64.7 <sup>(6)</sup>  |
| 380                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             | 57.1 <sup>(6)</sup>  |             | 67.5 <sup>(9)</sup>   |             | 76.0 <sup>(10)</sup>  |                     | 79.5 <sup>(9)</sup>  |                     | 62.7 <sup>(6)</sup>  |
|                                                                                                | BV |             |                      |             |                      |             | 77.2 <sup>(6)</sup>  |             | 86.6 <sup>(9)</sup>   |             | 90.5 <sup>(10)</sup>  |                     | 83.2 <sup>(9)</sup>  |                     | 64.3 <sup>(6)</sup>  |
| 400                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             |                      |             | 53.1 <sup>(8)</sup>   |             | 61.4 <sup>(10)</sup>  |                     | 67.8 <sup>(10)</sup> |                     | 61.6 <sup>(8)</sup>  |
|                                                                                                | BV |             |                      |             |                      |             |                      |             | 72.6 <sup>(8)</sup>   |             | 79.3 <sup>(10)</sup>  |                     | 75.2 <sup>(9)</sup>  |                     | 64.1 <sup>(8)</sup>  |
| 420                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             |                      |             | 40.2 <sup>(7)</sup>   |             | 47.6 <sup>(9)</sup>   |                     | 54.3 <sup>(10)</sup> |                     | 58.0 <sup>(9)</sup>  |
|                                                                                                | BV |             |                      |             |                      |             |                      |             | 59.3 <sup>(7)</sup>   |             | 66.4 <sup>(9)</sup>   |                     | 67.2 <sup>(10)</sup> |                     | 60.8 <sup>(9)</sup>  |
| 440                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             |                      |             |                       |             | 35.0 <sup>(8)</sup>   |                     | 41.5 <sup>(10)</sup> |                     | 47.5 <sup>(10)</sup> |
|                                                                                                | BV |             |                      |             |                      |             |                      |             |                       |             | 53.2 <sup>(8)</sup>   |                     | 57.7 <sup>(10)</sup> |                     | 54.6 <sup>(9)</sup>  |
| 460                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             |                      |             |                       |             | 24.8 <sup>(7)</sup>   |                     | 29.9 <sup>(9)</sup>  |                     | 36.8 <sup>(10)</sup> |
|                                                                                                | BV |             |                      |             |                      |             |                      |             |                       |             | 41.0 <sup>(7)</sup>   |                     | 46.3 <sup>(9)</sup>  |                     | 48.3 <sup>(10)</sup> |
| 490                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             |                      |             |                       |             |                       |                     | 11.1 <sup>(H)</sup>  |                     | 21.5 <sup>(9)</sup>  |
|                                                                                                | BV |             |                      |             |                      |             |                      |             |                       |             |                       |                     | 29.2 <sup>(7)</sup>  |                     | 35.0 <sup>(9)</sup>  |
| 520                                                                                            | Ot |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | B  |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     |                      |
|                                                                                                | BV |             |                      |             |                      |             |                      |             |                       |             |                       |                     |                      |                     | 20.7 <sup>(8)</sup>  |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

44 LR 1700-1.0W



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



|     |    | HS 335 ft            |                       |                      |                       |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
|-----|----|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
|     |    | W79 ft               |                       | W118 ft              |                       | W158 ft              |                       | W197 ft              |                      | W236 ft              |                      | W276 ft             |                     | W315 ft             |                     |
|     |    | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                 | 87°/85°/84°         | Wmax                | 87°/85°/84°         | Wmax                |
| 50  | Ot | 360.0 <sup>(A)</sup> | 360.0 <sup>(A)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
|     | B  | 360.0 <sup>(A)</sup> | 360.0 <sup>(A)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
|     | BV |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
| 60  | Ot | 342.0 <sup>(A)</sup> | 342.0 <sup>(A)</sup>  | 284.0 <sup>(A)</sup> | 284.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
|     | B  | 342.0 <sup>(A)</sup> | 360.0 <sup>(1)</sup>  | 284.0 <sup>(A)</sup> | 284.0 <sup>(A)</sup>  |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
|     | BV |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
| 70  | Ot | 320.0 <sup>(A)</sup> | 320.0 <sup>(A)</sup>  | 273.0 <sup>(A)</sup> | 274.0 <sup>(1)</sup>  | 225.0 <sup>(A)</sup> | 225.0 <sup>(A)</sup>  |                      |                      |                      |                      |                     |                     |                     |                     |
|     | B  | 352.0 <sup>(B)</sup> | 360.0 <sup>(1)</sup>  | 273.0 <sup>(A)</sup> | 284.0 <sup>(1)</sup>  | 225.0 <sup>(A)</sup> | 225.0 <sup>(A)</sup>  |                      |                      |                      |                      |                     |                     |                     |                     |
|     | BV | 355.0 <sup>(B)</sup> | 363.0 <sup>(1)</sup>  |                      |                       |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
| 80  | Ot | 282.0 <sup>(A)</sup> | 282.0 <sup>(A)</sup>  | 259.0 <sup>(A)</sup> | 259.0 <sup>(A)</sup>  | 218.0 <sup>(A)</sup> | 222.0 <sup>(1)</sup>  | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> |                      |                      |                     |                     |                     |                     |
|     | B  | 334.0 <sup>(B)</sup> | 358.0 <sup>(1)</sup>  | 282.0 <sup>(B)</sup> | 285.0 <sup>(1)</sup>  | 218.0 <sup>(A)</sup> | 225.0 <sup>(1)</sup>  | 176.0 <sup>(A)</sup> | 176.0 <sup>(A)</sup> |                      |                      |                     |                     |                     |                     |
|     | BV | 337.0 <sup>(B)</sup> | 362.0 <sup>(1)</sup>  | 283.0 <sup>(B)</sup> | 286.0 <sup>(1)</sup>  |                      |                       |                      |                      |                      |                      |                     |                     |                     |                     |
| 90  | Ot | 245.0 <sup>(A)</sup> | 245.0 <sup>(A)</sup>  | 239.0 <sup>(A)</sup> | 239.0 <sup>(A)</sup>  | 216.0 <sup>(B)</sup> | 216.0 <sup>(B)</sup>  | 172.0 <sup>(A)</sup> | 175.0 <sup>(1)</sup> | 136.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> |                     |                     |                     |                     |
|     | B  | 315.0 <sup>(B)</sup> | 357.0 <sup>(1)</sup>  | 271.0 <sup>(B)</sup> | 284.0 <sup>(1)</sup>  | 226.0 <sup>(B)</sup> | 226.0 <sup>(1)</sup>  | 172.0 <sup>(A)</sup> | 176.0 <sup>(1)</sup> | 136.0 <sup>(A)</sup> | 136.0 <sup>(A)</sup> |                     |                     |                     |                     |
|     | BV | 319.0 <sup>(B)</sup> | 362.0 <sup>(1)</sup>  | 272.0 <sup>(B)</sup> | 286.0 <sup>(1)</sup>  | 226.0 <sup>(B)</sup> | 226.0 <sup>(1)</sup>  |                      |                      |                      |                      |                     |                     |                     |                     |
| 100 | Ot | 215.0 <sup>(A)</sup> | 215.0 <sup>(A)</sup>  | 211.0 <sup>(A)</sup> | 211.0 <sup>(A)</sup>  | 200.0 <sup>(A)</sup> | 200.0 <sup>(A)</sup>  | 175.0 <sup>(B)</sup> | 175.0 <sup>(B)</sup> | 132.0 <sup>(A)</sup> | 135.0 <sup>(1)</sup> | 98.9 <sup>(A)</sup> | 98.9 <sup>(A)</sup> |                     |                     |
|     | B  | 295.0 <sup>(B)</sup> | 358.0 <sup>(B)</sup>  | 258.0 <sup>(B)</sup> | 283.0 <sup>(1)</sup>  | 219.0 <sup>(B)</sup> | 226.0 <sup>(1)</sup>  | 176.0 <sup>(B)</sup> | 176.0 <sup>(B)</sup> | 132.0 <sup>(A)</sup> | 135.0 <sup>(1)</sup> | 98.9 <sup>(A)</sup> | 98.9 <sup>(A)</sup> |                     |                     |
|     | BV | 298.0 <sup>(B)</sup> | 362.0 <sup>(D)</sup>  | 259.0 <sup>(B)</sup> | 285.0 <sup>(1)</sup>  | 219.0 <sup>(B)</sup> | 226.0 <sup>(1)</sup>  | 176.0 <sup>(B)</sup> | 176.0 <sup>(B)</sup> |                      |                      |                     |                     |                     |                     |
| 110 | Ot | 177.0 <sup>(B)</sup> | 179.0 <sup>(11)</sup> | 188.0 <sup>(A)</sup> | 188.0 <sup>(A)</sup>  | 183.0 <sup>(A)</sup> | 183.0 <sup>(A)</sup>  | 160.0 <sup>(A)</sup> | 160.0 <sup>(A)</sup> | 135.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 97.3 <sup>(A)</sup> | 98.6 <sup>(1)</sup> |                     |                     |
|     | B  | 276.0 <sup>(B)</sup> | 355.0 <sup>(1)</sup>  | 246.0 <sup>(B)</sup> | 283.0 <sup>(1)</sup>  | 211.0 <sup>(B)</sup> | 225.0 <sup>(1)</sup>  | 172.0 <sup>(B)</sup> | 176.0 <sup>(1)</sup> | 135.0 <sup>(B)</sup> | 135.0 <sup>(B)</sup> | 97.3 <sup>(A)</sup> | 98.6 <sup>(1)</sup> |                     |                     |
|     | BV | 280.0 <sup>(B)</sup> | 360.0 <sup>(1)</sup>  | 248.0 <sup>(B)</sup> | 285.0 <sup>(1)</sup>  | 211.0 <sup>(B)</sup> | 226.0 <sup>(1)</sup>  | 172.0 <sup>(B)</sup> | 176.0 <sup>(1)</sup> | 134.0 <sup>(B)</sup> | 134.0 <sup>(B)</sup> |                     |                     |                     |                     |
| 120 | Ot |                      | 152.0 <sup>(11)</sup> | 168.0 <sup>(A)</sup> | 168.0 <sup>(A)</sup>  | 164.0 <sup>(A)</sup> | 164.0 <sup>(A)</sup>  | 153.0 <sup>(A)</sup> | 153.0 <sup>(A)</sup> | 132.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 98.7 <sup>(B)</sup> | 98.7 <sup>(B)</sup> |                     |                     |
|     | B  |                      | 353.0 <sup>(1)</sup>  | 232.0 <sup>(B)</sup> | 282.0 <sup>(1)</sup>  | 203.0 <sup>(B)</sup> | 225.0 <sup>(1)</sup>  | 168.0 <sup>(B)</sup> | 175.0 <sup>(1)</sup> | 133.0 <sup>(B)</sup> | 134.0 <sup>(1)</sup> | 98.7 <sup>(B)</sup> | 98.7 <sup>(B)</sup> |                     |                     |
|     | BV |                      | 360.0 <sup>(1)</sup>  | 234.0 <sup>(B)</sup> | 284.0 <sup>(1)</sup>  | 203.0 <sup>(B)</sup> | 225.0 <sup>(1)</sup>  | 168.0 <sup>(B)</sup> | 175.0 <sup>(1)</sup> | 132.0 <sup>(B)</sup> | 132.0 <sup>(B)</sup> | 99.1 <sup>(B)</sup> | 99.1 <sup>(B)</sup> |                     |                     |
| 130 | Ot |                      | 127.0 <sup>(11)</sup> | 152.0 <sup>(A)</sup> | 152.0 <sup>(A)</sup>  | 148.0 <sup>(A)</sup> | 148.0 <sup>(A)</sup>  | 140.0 <sup>(A)</sup> | 140.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup> | 98.1 <sup>(B)</sup> | 98.1 <sup>(B)</sup> |                     |                     |
|     | B  |                      | 351.0 <sup>(1)</sup>  | 219.0 <sup>(B)</sup> | 281.0 <sup>(1)</sup>  | 195.0 <sup>(B)</sup> | 224.0 <sup>(1)</sup>  | 163.0 <sup>(B)</sup> | 175.0 <sup>(1)</sup> | 131.0 <sup>(B)</sup> | 134.0 <sup>(1)</sup> | 98.1 <sup>(B)</sup> | 98.1 <sup>(B)</sup> |                     |                     |
|     | BV |                      | 360.0 <sup>(1)</sup>  | 221.0 <sup>(B)</sup> | 283.0 <sup>(1)</sup>  | 195.0 <sup>(B)</sup> | 225.0 <sup>(1)</sup>  | 163.0 <sup>(B)</sup> | 175.0 <sup>(1)</sup> | 130.0 <sup>(B)</sup> | 130.0 <sup>(B)</sup> | 97.9 <sup>(B)</sup> | 97.9 <sup>(B)</sup> | 70.7 <sup>(B)</sup> | 70.7 <sup>(B)</sup> |
| 140 | Ot |                      | 102.0 <sup>(11)</sup> | 137.0 <sup>(A)</sup> | 137.0 <sup>(A)</sup>  | 134.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup>  | 127.0 <sup>(A)</sup> | 127.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 117.0 <sup>(A)</sup> | 94.6 <sup>(B)</sup> | 94.6 <sup>(B)</sup> |                     |                     |
|     | B  |                      | 346.0 <sup>(E)</sup>  | 208.0 <sup>(B)</sup> | 279.0 <sup>(1)</sup>  | 186.0 <sup>(B)</sup> | 220.0 <sup>(D)</sup>  | 158.0 <sup>(B)</sup> | 174.0 <sup>(1)</sup> | 128.0 <sup>(B)</sup> | 133.0 <sup>(1)</sup> | 97.1 <sup>(B)</sup> | 97.1 <sup>(B)</sup> |                     |                     |
|     | BV |                      | 355.0 <sup>(E)</sup>  | 210.0 <sup>(B)</sup> | 282.0 <sup>(1)</sup>  | 187.0 <sup>(B)</sup> | 221.0 <sup>(D)</sup>  | 158.0 <sup>(B)</sup> | 175.0 <sup>(1)</sup> | 128.0 <sup>(B)</sup> | 130.0 <sup>(2)</sup> | 96.5 <sup>(B)</sup> | 96.5 <sup>(B)</sup> | 70.2 <sup>(B)</sup> | 70.2 <sup>(B)</sup> |
| 150 | Ot |                      | 82.5 <sup>(11)</sup>  | 113.0 <sup>(B)</sup> | 113.0 <sup>(B)</sup>  | 121.0 <sup>(A)</sup> | 121.0 <sup>(A)</sup>  | 115.0 <sup>(A)</sup> | 115.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 107.0 <sup>(A)</sup> | 88.9 <sup>(A)</sup> | 88.9 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 332.0 <sup>(E)</sup>  | 199.0 <sup>(B)</sup> | 278.0 <sup>(1)</sup>  | 177.0 <sup>(B)</sup> | 218.0 <sup>(2)</sup>  | 153.0 <sup>(B)</sup> | 173.0 <sup>(D)</sup> | 125.0 <sup>(B)</sup> | 132.0 <sup>(1)</sup> | 95.7 <sup>(B)</sup> | 96.3 <sup>(2)</sup> |                     |                     |
|     | BV |                      | 344.0 <sup>(E)</sup>  | 202.0 <sup>(B)</sup> | 282.0 <sup>(1)</sup>  | 179.0 <sup>(B)</sup> | 219.0 <sup>(2)</sup>  | 152.0 <sup>(B)</sup> | 174.0 <sup>(D)</sup> | 124.0 <sup>(B)</sup> | 130.0 <sup>(2)</sup> | 95.0 <sup>(B)</sup> | 95.7 <sup>(2)</sup> | 69.5 <sup>(B)</sup> | 69.5 <sup>(B)</sup> |
| 160 | Ot |                      | 65.9 <sup>(11)</sup>  |                      | 94.7 <sup>(11)</sup>  | 110.0 <sup>(A)</sup> | 110.0 <sup>(A)</sup>  | 104.0 <sup>(A)</sup> | 104.0 <sup>(A)</sup> | 97.6 <sup>(A)</sup>  | 97.6 <sup>(A)</sup>  | 85.8 <sup>(A)</sup> | 85.8 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 311.0 <sup>(E)</sup>  |                      | 274.0 <sup>(E)</sup>  | 168.0 <sup>(B)</sup> | 218.0 <sup>(2)</sup>  | 147.0 <sup>(B)</sup> | 171.0 <sup>(D)</sup> | 122.0 <sup>(B)</sup> | 132.0 <sup>(D)</sup> | 94.0 <sup>(B)</sup> | 96.0 <sup>(2)</sup> |                     |                     |
|     | BV |                      | 326.0 <sup>(1)</sup>  |                      | 279.0 <sup>(E)</sup>  | 170.0 <sup>(B)</sup> | 219.0 <sup>(2)</sup>  | 147.0 <sup>(B)</sup> | 171.0 <sup>(D)</sup> | 121.0 <sup>(B)</sup> | 133.0 <sup>(D)</sup> | 93.3 <sup>(B)</sup> | 95.8 <sup>(2)</sup> | 68.5 <sup>(B)</sup> | 68.5 <sup>(2)</sup> |
| 170 | Ot |                      | 49.3 <sup>(11)</sup>  |                      | 77.8 <sup>(11)</sup>  | 101.0 <sup>(A)</sup> | 101.0 <sup>(A)</sup>  | 94.9 <sup>(A)</sup>  | 94.9 <sup>(A)</sup>  | 88.3 <sup>(A)</sup>  | 88.3 <sup>(A)</sup>  | 79.2 <sup>(A)</sup> | 79.2 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 293.0 <sup>(E)</sup>  |                      | 268.0 <sup>(E)</sup>  | 160.0 <sup>(B)</sup> | 217.0 <sup>(2)</sup>  | 141.0 <sup>(B)</sup> | 170.0 <sup>(2)</sup> | 118.0 <sup>(B)</sup> | 132.0 <sup>(D)</sup> | 91.8 <sup>(B)</sup> | 95.8 <sup>(2)</sup> |                     |                     |
|     | BV |                      | 311.0 <sup>(1)</sup>  |                      | 273.0 <sup>(E)</sup>  | 163.0 <sup>(B)</sup> | 219.0 <sup>(2)</sup>  | 142.0 <sup>(B)</sup> | 170.0 <sup>(2)</sup> | 118.0 <sup>(B)</sup> | 132.0 <sup>(D)</sup> | 91.5 <sup>(B)</sup> | 95.8 <sup>(2)</sup> | 67.5 <sup>(B)</sup> | 68.3 <sup>(2)</sup> |
| 180 | Ot |                      | 37.0 <sup>(11)</sup>  |                      | 60.8 <sup>(11)</sup>  | 91.6 <sup>(A)</sup>  | 91.6 <sup>(A)</sup>   | 86.5 <sup>(A)</sup>  | 86.5 <sup>(A)</sup>  | 79.9 <sup>(A)</sup>  | 79.9 <sup>(A)</sup>  | 72.2 <sup>(A)</sup> | 72.2 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 273.0 <sup>(11)</sup> |                      | 260.0 <sup>(E)</sup>  | 154.0 <sup>(B)</sup> | 216.0 <sup>(E)</sup>  | 135.0 <sup>(B)</sup> | 168.0 <sup>(2)</sup> | 114.0 <sup>(B)</sup> | 131.0 <sup>(D)</sup> | 89.3 <sup>(B)</sup> | 95.5 <sup>(2)</sup> |                     |                     |
|     | BV |                      | 290.0 <sup>(1)</sup>  |                      | 267.0 <sup>(E)</sup>  | 157.0 <sup>(B)</sup> | 219.0 <sup>(E)</sup>  | 136.0 <sup>(B)</sup> | 170.0 <sup>(2)</sup> | 114.0 <sup>(B)</sup> | 131.0 <sup>(2)</sup> | 89.4 <sup>(B)</sup> | 96.4 <sup>(B)</sup> | 66.4 <sup>(B)</sup> | 68.1 <sup>(2)</sup> |
| 190 | Ot |                      | 26.6 <sup>(11)</sup>  |                      | 49.0 <sup>(11)</sup>  | 74.6 <sup>(B)</sup>  | 74.6 <sup>(B)</sup>   | 79.0 <sup>(A)</sup>  | 79.0 <sup>(A)</sup>  | 72.5 <sup>(A)</sup>  | 72.5 <sup>(A)</sup>  | 64.8 <sup>(A)</sup> | 64.8 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 252.0 <sup>(11)</sup> |                      | 251.0 <sup>(E)</sup>  | 149.0 <sup>(B)</sup> | 214.0 <sup>(E)</sup>  | 128.0 <sup>(B)</sup> | 167.0 <sup>(2)</sup> | 110.0 <sup>(B)</sup> | 129.0 <sup>(2)</sup> | 86.5 <sup>(B)</sup> | 95.5 <sup>(D)</sup> |                     |                     |
|     | BV |                      | 271.0 <sup>(4)</sup>  |                      | 258.0 <sup>(2)</sup>  | 152.0 <sup>(B)</sup> | 217.0 <sup>(2)</sup>  | 130.0 <sup>(B)</sup> | 169.0 <sup>(2)</sup> | 110.0 <sup>(B)</sup> | 130.0 <sup>(2)</sup> | 86.9 <sup>(B)</sup> | 96.4 <sup>(D)</sup> | 65.2 <sup>(B)</sup> | 67.9 <sup>(2)</sup> |
| 200 | Ot |                      | 16.1 <sup>(11)</sup>  |                      | 37.4 <sup>(11)</sup>  |                      | 59.2 <sup>(11)</sup>  | 72.1 <sup>(A)</sup>  | 72.1 <sup>(A)</sup>  | 66.0 <sup>(A)</sup>  | 66.0 <sup>(A)</sup>  | 58.4 <sup>(A)</sup> | 58.4 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 231.0 <sup>(11)</sup> |                      | 239.0 <sup>(E)</sup>  |                      | 209.0 <sup>(E)</sup>  | 123.0 <sup>(B)</sup> | 165.0 <sup>(2)</sup> | 106.0 <sup>(B)</sup> | 128.0 <sup>(2)</sup> | 83.7 <sup>(B)</sup> | 94.7 <sup>(D)</sup> |                     |                     |
|     | BV |                      | 254.0 <sup>(6)</sup>  |                      | 249.0 <sup>(2)</sup>  |                      | 215.0 <sup>(2)</sup>  | 125.0 <sup>(B)</sup> | 168.0 <sup>(2)</sup> | 106.0 <sup>(B)</sup> | 129.0 <sup>(2)</sup> | 84.2 <sup>(B)</sup> | 95.7 <sup>(D)</sup> | 63.7 <sup>(B)</sup> | 67.8 <sup>(D)</sup> |
| 220 | Ot |                      |                       |                      |                       |                      | 36.0 <sup>(D)</sup>   | 59.9 <sup>(A)</sup>  | 59.9 <sup>(A)</sup>  | 54.2 <sup>(A)</sup>  | 54.2 <sup>(A)</sup>  | 46.8 <sup>(A)</sup> | 46.8 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 197.0 <sup>(10)</sup> |                      | 212.0 <sup>(11)</sup> |                      | 197.0 <sup>(E)</sup>  | 113.0 <sup>(B)</sup> | 161.0 <sup>(3)</sup> | 96.9 <sup>(B)</sup>  | 125.0 <sup>(2)</sup> | 77.8 <sup>(B)</sup> | 91.9 <sup>(2)</sup> |                     |                     |
|     | BV |                      | 223.0 <sup>(10)</sup> |                      | 221.0 <sup>(4)</sup>  |                      | 211.0 <sup>(2)</sup>  | 115.0 <sup>(B)</sup> | 165.0 <sup>(3)</sup> | 98.1 <sup>(B)</sup>  | 127.0 <sup>(2)</sup> | 78.3 <sup>(B)</sup> | 93.0 <sup>(3)</sup> | 59.6 <sup>(B)</sup> | 67.1 <sup>(D)</sup> |
| 240 | Ot |                      |                       |                      |                       |                      | 19.0 <sup>(11)</sup>  |                      | 33.7 <sup>(11)</sup> | 44.4 <sup>(A)</sup>  | 44.4 <sup>(A)</sup>  | 37.3 <sup>(A)</sup> | 37.3 <sup>(B)</sup> |                     |                     |
|     | B  |                      | 167.0 <sup>(9)</sup>  |                      | 182.0 <sup>(11)</sup> |                      | 185.0 <sup>(E)</sup>  |                      | 157.0 <sup>(3)</sup> | 87.7 <sup>(B)</sup>  | 122.0 <sup>(E)</sup> | 72.0 <sup>(B)</sup> | 89.7 <sup>(3)</sup> |                     |                     |
|     | BV |                      | 194.0 <sup>(9)</sup>  |                      | 197.0 <sup>(7)</sup>  |                      | 193.0 <sup>(7)</sup>  |                      | 161.0 <sup>(3)</sup> | 89.1 <sup>(B)</sup>  | 125.0 <sup>(E)</sup> | 72.5 <sup>(B)</sup> | 91.2 <sup>(3)</sup> | 55.4 <sup>(B)</sup> | 65.3 <sup>(3)</sup> |
| 260 | Ot |                      |                       |                      |                       |                      |                       |                      | 18.7 <sup>(D)</sup>  | 36.1 <sup>(A)</sup>  | 36.1 <sup>(A)</sup>  | 29.8 <sup>(A)</sup> | 29.8 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 141.0 <sup>(B)</sup>  |                      | 155.0 <sup>(10)</sup> |                      | 169.0 <sup>(11)</sup> |                      | 151.0 <sup>(3)</sup> | 79.2 <sup>(B)</sup>  | 119.0 <sup>(3)</sup> | 65.7 <sup>(B)</sup> | 87.6 <sup>(3)</sup> |                     |                     |
|     | BV |                      | 166.0 <sup>(B)</sup>  |                      | 177.0 <sup>(10)</sup> |                      | 174.0 <sup>(5)</sup>  |                      | 157.0 <sup>(3)</sup> | 80.9 <sup>(B)</sup>  | 122.0 <sup>(3)</sup> | 66.4 <sup>(B)</sup> | 89.3 <sup>(3)</sup> | 51.2 <sup>(B)</sup> | 63.6 <sup>(3)</sup> |
| 280 | Ot |                      |                       |                      |                       |                      |                       |                      |                      |                      |                      | 23.8 <sup>(A)</sup> | 23.8 <sup>(A)</sup> |                     |                     |
|     | B  |                      | 118.0 <sup>(7)</sup>  |                      | 132.0 <sup>(9)</sup>  |                      | 144.0 <sup>(10)</sup> |                      | 140.0 <sup>(E)</sup> |                      | 116.0 <sup>(4)</sup> | 58.4 <sup>(B)</sup> | 85.5 <sup>(E)</sup> |                     |                     |
|     | BV |                      | 142.0 <sup>(7)</sup>  |                      | 155.0 <sup>(9)</sup>  |                      | 157.0 <sup>(4)</sup>  |                      | 148.0 <sup>(4)</sup> |                      | 119.0 <sup>(4)</sup> | 59.3 <sup>(B)</sup> | 87.3 <sup>(E)</sup> | 47.2 <sup>(B)</sup> | 62.0 <sup>(3)</sup> |



335 ft  
HS



118 ft  
D



79 - 315 ft  
W



0 lb



330,700 lb



B BV

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



Wmax

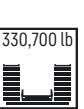
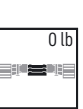
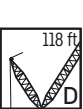


50

|     |    | HS 335 ft   |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|-----|----|-------------|----------------------|-------------|----------------------|-------------|-----------------------|-------------|-----------------------|-------------|----------------------|---------------------|----------------------|---------------------|-----------------------------------------|
|     |    | W79 ft      |                      | W118 ft     |                      | W158 ft     |                       | W197 ft     |                       | W236 ft     |                      | W276 ft             |                      | W315 ft             |                                         |
|     |    | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                 | 87°/85°/84° | Wmax                  | 87°/85°/84° | Wmax                  | 87°/85°/84° | Wmax                 | 87°/85°/84°         | Wmax                 | 87°/85°/84°         | Wmax                                    |
| 300 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      | 19.1 <sup>(A)</sup> | 19.1 <sup>(A)</sup>  |                     |                                         |
|     | B  |             | 99.6 <sup>(7)</sup>  |             | 111.0 <sup>(8)</sup> |             | 124.0 <sup>(10)</sup> |             | 129.0 <sup>(11)</sup> |             | 114.0 <sup>(4)</sup> |                     | 51.7 <sup>(8)</sup>  | 83.5 <sup>(4)</sup> |                                         |
|     | BV |             | 122.0 <sup>(7)</sup> |             | 133.0 <sup>(8)</sup> |             | 141.0 <sup>(9)</sup>  |             | 134.0 <sup>(5)</sup>  |             | 117.0 <sup>(4)</sup> |                     | 53.3 <sup>(8)</sup>  | 85.4 <sup>(4)</sup> | 41.7 <sup>(8)</sup> 60.7 <sup>(E)</sup> |
| 320 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             | 82.6 <sup>(6)</sup>  |             | 92.5 <sup>(7)</sup>  |             | 104.0 <sup>(9)</sup>  |             | 115.0 <sup>(11)</sup> |             | 107.0 <sup>(6)</sup> |                     | 81.6 <sup>(5)</sup>  |                     |                                         |
|     | BV |             | 104.0 <sup>(6)</sup> |             | 113.0 <sup>(7)</sup> |             | 124.0 <sup>(9)</sup>  |             | 122.0 <sup>(8)</sup>  |             | 112.0 <sup>(5)</sup> |                     | 83.7 <sup>(4)</sup>  | 36.4 <sup>(8)</sup> | 59.3 <sup>(E)</sup>                     |
| 340 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             | 76.4 <sup>(7)</sup>  |             | 86.9 <sup>(8)</sup>   |             | 98.1 <sup>(11)</sup>  |             | 99.2 <sup>(8)</sup>  |                     | 80.4 <sup>(5)</sup>  |                     |                                         |
|     | BV |             |                      |             | 96.8 <sup>(7)</sup>  |             | 107.0 <sup>(8)</sup>  |             | 110.0 <sup>(11)</sup> |             | 103.0 <sup>(7)</sup> |                     | 82.7 <sup>(5)</sup>  | 31.8 <sup>(8)</sup> | 58.0 <sup>(5)</sup>                     |
| 360 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             | 61.0 <sup>(6)</sup>  |             | 70.7 <sup>(7)</sup>   |             | 81.2 <sup>(10)</sup>  |             | 90.6 <sup>(11)</sup> |                     | 78.6 <sup>(7)</sup>  |                     |                                         |
|     | BV |             |                      |             | 81.7 <sup>(6)</sup>  |             | 90.4 <sup>(7)</sup>   |             | 97.9 <sup>(10)</sup>  |             | 93.6 <sup>(11)</sup> |                     | 80.8 <sup>(6)</sup>  |                     | 57.1 <sup>(5)</sup>                     |
| 380 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             | 56.3 <sup>(7)</sup>   |             | 65.4 <sup>(9)</sup>   |             | 74.8 <sup>(11)</sup> |                     | 74.4 <sup>(8)</sup>  |                     |                                         |
|     | BV |             |                      |             |                      |             | 76.4 <sup>(7)</sup>   |             | 84.6 <sup>(9)</sup>   |             | 84.4 <sup>(11)</sup> |                     | 76.7 <sup>(8)</sup>  |                     | 56.4 <sup>(6)</sup>                     |
| 400 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             | 42.9 <sup>(6)</sup>   |             | 50.9 <sup>(8)</sup>   |             | 59.6 <sup>(10)</sup> |                     | 66.8 <sup>(11)</sup> |                     |                                         |
|     | BV |             |                      |             |                      |             | 62.9 <sup>(6)</sup>   |             | 70.4 <sup>(8)</sup>   |             | 74.0 <sup>(10)</sup> |                     | 69.6 <sup>(11)</sup> |                     | 56.1 <sup>(7)</sup>                     |
| 420 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             |                       |             | 38.2 <sup>(8)</sup>   |             | 45.6 <sup>(9)</sup>  |                     | 53.2 <sup>(11)</sup> |                     |                                         |
|     | BV |             |                      |             |                      |             |                       |             | 57.2 <sup>(8)</sup>   |             | 62.7 <sup>(9)</sup>  |                     | 61.8 <sup>(11)</sup> |                     | 54.3 <sup>(8)</sup>                     |
| 440 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             |                       |             | 27.3 <sup>(7)</sup>   |             | 33.1 <sup>(8)</sup>  |                     | 39.8 <sup>(10)</sup> |                     |                                         |
|     | BV |             |                      |             |                      |             |                       |             | 44.7 <sup>(7)</sup>   |             | 51.0 <sup>(8)</sup>  |                     | 52.8 <sup>(10)</sup> |                     | 49.7 <sup>(10)</sup>                    |
| 460 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             |                       |             |                       |             | 23.4 <sup>(8)</sup>  |                     | 28.2 <sup>(9)</sup>  |                     |                                         |
|     | BV |             |                      |             |                      |             |                       |             |                       |             | 39.1 <sup>(8)</sup>  |                     | 43.1 <sup>(9)</sup>  |                     | 43.3 <sup>(11)</sup>                    |
| 490 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             |                       |             |                       |             |                      |                     | 14.0 <sup>(7)</sup>  |                     |                                         |
|     | BV |             |                      |             |                      |             |                       |             |                       |             |                      |                     | 28.3 <sup>(8)</sup>  |                     | 31.5 <sup>(10)</sup>                    |
| 520 | Ot |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | B  |             |                      |             |                      |             |                       |             |                       |             |                      |                     |                      |                     |                                         |
|     | BV |             |                      |             |                      |             |                       |             |                       |             |                      |                     | 13.2 <sup>(7)</sup>  |                     |                                         |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

46 LR1700-1.0W

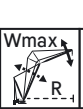


661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

110,200 lb - 328,500 lb

0 lb



50

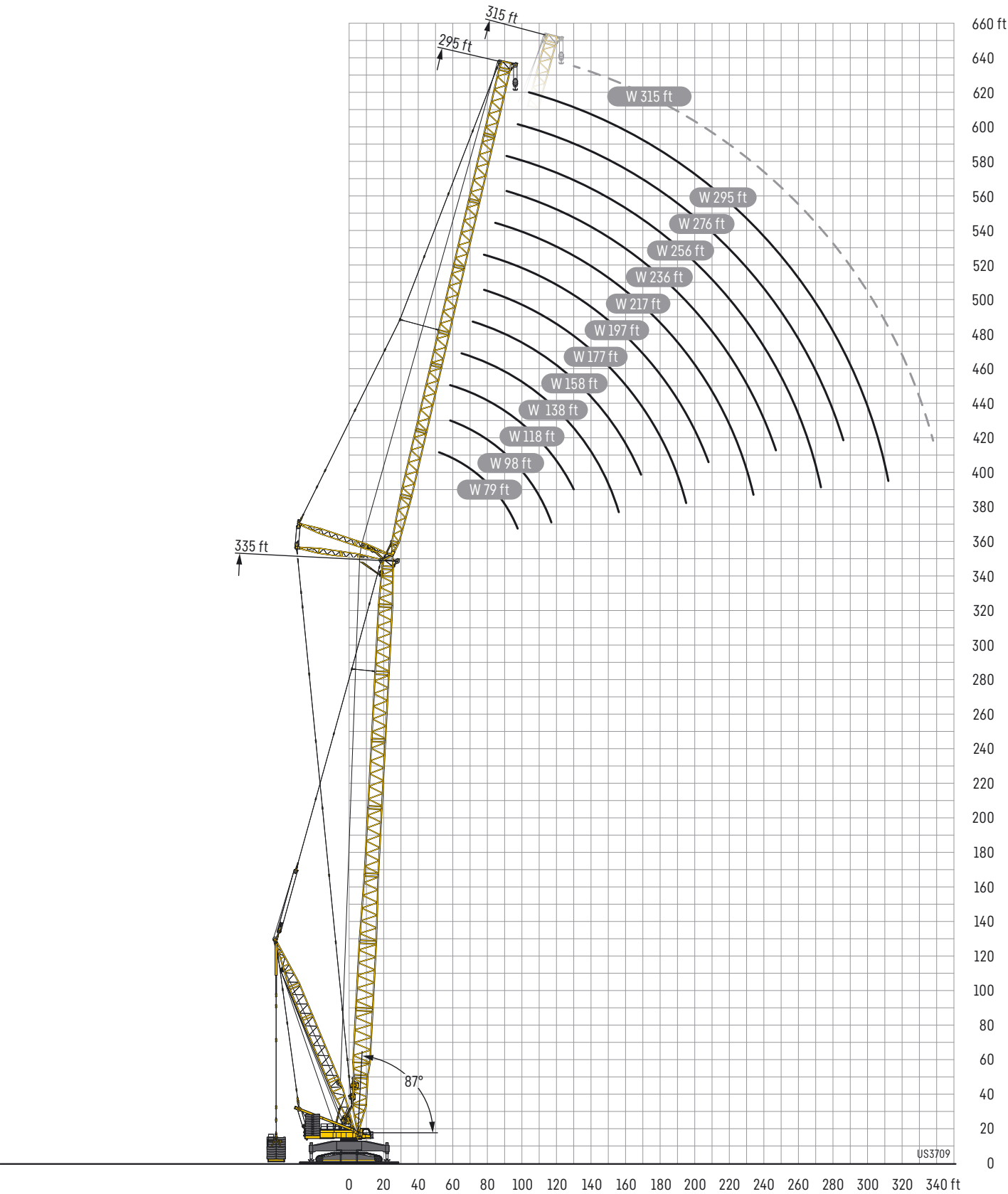
|     |    | HS 354 ft            |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|-----|----|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
|     |    | W 79 ft              |                      | W 118 ft             |                       | W 158 ft             |                      | W 197 ft             |                       | W 236 ft             |                      |
|     |    | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 | 87°/85°/84°          | Wmax                  | 87°/85°/84°          | Wmax                 |
| 60  | Ot | 278.0 <sup>(A)</sup> | 280.0 <sup>(1)</sup> | 252.0 <sup>(A)</sup> | 252.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 278.0 <sup>(A)</sup> | 282.0 <sup>(1)</sup> | 252.0 <sup>(A)</sup> | 252.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
| 70  | Ot | 266.0 <sup>(A)</sup> | 280.0 <sup>(1)</sup> | 243.0 <sup>(A)</sup> | 250.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 266.0 <sup>(A)</sup> | 282.0 <sup>(1)</sup> | 243.0 <sup>(A)</sup> | 251.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 80  | Ot | 253.0 <sup>(B)</sup> | 253.0 <sup>(B)</sup> | 246.0 <sup>(B)</sup> | 246.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 275.0 <sup>(B)</sup> | 282.0 <sup>(1)</sup> | 251.0 <sup>(B)</sup> | 252.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 90  | Ot | 235.0 <sup>(A)</sup> | 235.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup> | 220.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 263.0 <sup>(B)</sup> | 280.0 <sup>(1)</sup> | 242.0 <sup>(B)</sup> | 250.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 100 | Ot | 262.0 <sup>(B)</sup> | 279.0 <sup>(1)</sup> | 240.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  | 198.0 <sup>(B)</sup> | 198.0 <sup>(1)</sup> |                      |                       |                      |                      |
|     | BV | 209.0 <sup>(A)</sup> | 209.0 <sup>(A)</sup> | 206.0 <sup>(A)</sup> | 206.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
| 110 | Ot | 250.0 <sup>(B)</sup> | 279.0 <sup>(1)</sup> | 232.0 <sup>(B)</sup> | 249.0 <sup>(1)</sup>  |                      |                      | 154.0 <sup>(B)</sup> | 154.0 <sup>(B)</sup>  |                      |                      |
|     | BV | 248.0 <sup>(B)</sup> | 278.0 <sup>(1)</sup> | 230.0 <sup>(B)</sup> | 248.0 <sup>(1)</sup>  | 192.0 <sup>(B)</sup> | 197.0 <sup>(1)</sup> |                      |                       |                      |                      |
| 120 | Ot | 186.0 <sup>(A)</sup> | 186.0 <sup>(A)</sup> | 184.0 <sup>(A)</sup> | 184.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 237.0 <sup>(B)</sup> | 279.0 <sup>(B)</sup> | 221.0 <sup>(B)</sup> | 248.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 130 | Ot | 236.0 <sup>(B)</sup> | 278.0 <sup>(B)</sup> | 219.0 <sup>(B)</sup> | 247.0 <sup>(1)</sup>  | 185.0 <sup>(B)</sup> | 196.0 <sup>(1)</sup> | 150.0 <sup>(B)</sup> | 153.0 <sup>(1)</sup>  | 117.0 <sup>(B)</sup> | 117.0 <sup>(B)</sup> |
|     | BV | 167.0 <sup>(A)</sup> | 167.0 <sup>(A)</sup> | 165.0 <sup>(A)</sup> | 165.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
| 140 | Ot | 222.0 <sup>(B)</sup> | 275.0 <sup>(1)</sup> | 210.0 <sup>(B)</sup> | 247.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 224.0 <sup>(B)</sup> | 276.0 <sup>(1)</sup> | 209.0 <sup>(B)</sup> | 246.0 <sup>(1)</sup>  | 179.0 <sup>(B)</sup> | 195.0 <sup>(1)</sup> | 146.0 <sup>(B)</sup> | 152.0 <sup>(1)</sup>  | 115.0 <sup>(B)</sup> | 115.0 <sup>(B)</sup> |
| 150 | Ot | 136.0 <sup>(B)</sup> | 138.0 <sup>(1)</sup> | 149.0 <sup>(A)</sup> | 149.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV | 211.0 <sup>(B)</sup> | 273.0 <sup>(1)</sup> | 198.0 <sup>(B)</sup> | 245.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 160 | Ot | 214.0 <sup>(B)</sup> | 274.0 <sup>(1)</sup> | 200.0 <sup>(B)</sup> | 245.0 <sup>(1)</sup>  | 172.0 <sup>(B)</sup> | 195.0 <sup>(1)</sup> | 142.0 <sup>(B)</sup> | 152.0 <sup>(1)</sup>  | 113.0 <sup>(B)</sup> | 113.0 <sup>(B)</sup> |
|     | BV |                      | 117.0 <sup>(1)</sup> | 134.0 <sup>(A)</sup> | 134.0 <sup>(A)</sup>  |                      |                      |                      |                       |                      |                      |
| 170 | Ot |                      | 271.0 <sup>(1)</sup> | 188.0 <sup>(B)</sup> | 242.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 273.0 <sup>(1)</sup> | 190.0 <sup>(B)</sup> | 244.0 <sup>(1)</sup>  | 164.0 <sup>(B)</sup> | 192.0 <sup>(B)</sup> | 138.0 <sup>(B)</sup> | 151.0 <sup>(1)</sup>  | 110.0 <sup>(B)</sup> | 112.0 <sup>(2)</sup> |
| 180 | Ot |                      | 97.4 <sup>(1)</sup>  | 109.0 <sup>(B)</sup> | 109.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 268.0 <sup>(B)</sup> | 180.0 <sup>(B)</sup> | 240.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 190 | Ot |                      | 272.0 <sup>(1)</sup> | 183.0 <sup>(B)</sup> | 242.0 <sup>(1)</sup>  | 158.0 <sup>(B)</sup> | 190.0 <sup>(2)</sup> | 133.0 <sup>(B)</sup> | 150.0 <sup>(B)</sup>  | 107.0 <sup>(B)</sup> | 112.0 <sup>(2)</sup> |
|     | BV |                      | 77.4 <sup>(1)</sup>  |                      | 92.6 <sup>(1)</sup>   |                      |                      |                      |                       |                      |                      |
| 200 | Ot |                      | 263.0 <sup>(B)</sup> |                      | 238.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 268.0 <sup>(1)</sup> |                      | 240.0 <sup>(B)</sup>  | 152.0 <sup>(B)</sup> | 189.0 <sup>(2)</sup> | 128.0 <sup>(B)</sup> | 149.0 <sup>(B)</sup>  | 104.0 <sup>(B)</sup> | 112.0 <sup>(2)</sup> |
| 210 | Ot |                      | 60.9 <sup>(1)</sup>  |                      | 76.0 <sup>(1)</sup>   |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 256.0 <sup>(4)</sup> |                      | 234.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
| 220 | Ot |                      | 265.0 <sup>(1)</sup> |                      | 236.0 <sup>(2)</sup>  | 145.0 <sup>(B)</sup> | 188.0 <sup>(2)</sup> | 123.0 <sup>(B)</sup> | 147.0 <sup>(2)</sup>  | 102.0 <sup>(B)</sup> | 114.0 <sup>(B)</sup> |
|     | BV |                      | 47.8 <sup>(1)</sup>  |                      | 59.4 <sup>(1)</sup>   |                      |                      |                      |                       |                      |                      |
| 230 | Ot |                      | 248.0 <sup>(B)</sup> |                      | 228.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 262.0 <sup>(1)</sup> |                      | 234.0 <sup>(2)</sup>  | 140.0 <sup>(B)</sup> | 189.0 <sup>(B)</sup> | 119.0 <sup>(B)</sup> | 147.0 <sup>(2)</sup>  | 98.3 <sup>(B)</sup>  | 113.0 <sup>(B)</sup> |
| 240 | Ot |                      | 34.7 <sup>(1)</sup>  |                      | 46.4 <sup>(1)</sup>   |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 243.0 <sup>(B)</sup> |                      | 222.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
| 250 | Ot |                      | 254.0 <sup>(1)</sup> |                      | 231.0 <sup>(2)</sup>  | 136.0 <sup>(B)</sup> | 187.0 <sup>(2)</sup> | 115.0 <sup>(B)</sup> | 146.0 <sup>(2)</sup>  | 95.0 <sup>(B)</sup>  | 112.0 <sup>(2)</sup> |
|     | BV |                      |                      |                      | 35.5 <sup>(1)</sup>   |                      |                      |                      |                       |                      |                      |
| 260 | Ot |                      | 234.0 <sup>(1)</sup> |                      | 216.0 <sup>(B)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 240.0 <sup>(1)</sup> |                      | 228.0 <sup>(2)</sup>  |                      | 186.0 <sup>(2)</sup> | 110.0 <sup>(B)</sup> | 146.0 <sup>(B)</sup>  | 91.6 <sup>(B)</sup>  | 111.0 <sup>(2)</sup> |
| 270 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 201.0 <sup>(1)</sup> |                      | 204.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
| 280 | Ot |                      | 212.0 <sup>(5)</sup> |                      | 209.0 <sup>(2)</sup>  |                      | 183.0 <sup>(2)</sup> | 102.0 <sup>(B)</sup> | 144.0 <sup>(2)</sup>  | 84.9 <sup>(B)</sup>  | 110.0 <sup>(2)</sup> |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 290 | Ot |                      | 171.0 <sup>(1)</sup> |                      | 178.0 <sup>(1)</sup>  |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 188.0 <sup>(7)</sup> |                      | 186.0 <sup>(4)</sup>  |                      | 179.0 <sup>(3)</sup> |                      | 141.0 <sup>(2)</sup>  | 77.9 <sup>(B)</sup>  | 108.0 <sup>(B)</sup> |
| 300 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 144.0 <sup>(9)</sup> |                      | 152.0 <sup>(10)</sup> |                      |                      |                      |                       |                      |                      |
| 310 | Ot |                      | 167.0 <sup>(9)</sup> |                      | 166.0 <sup>(7)</sup>  |                      | 162.0 <sup>(4)</sup> |                      | 139.0 <sup>(3)</sup>  | 71.0 <sup>(B)</sup>  | 106.0 <sup>(3)</sup> |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 320 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 122.0 <sup>(9)</sup> |                      | 128.0 <sup>(9)</sup>  |                      |                      |                      |                       |                      |                      |
| 330 | Ot |                      | 145.0 <sup>(9)</sup> |                      | 148.0 <sup>(9)</sup>  |                      | 146.0 <sup>(6)</sup> |                      | 135.0 <sup>(4)</sup>  |                      | 104.0 <sup>(3)</sup> |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 340 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 102.0 <sup>(B)</sup> |                      | 108.0 <sup>(9)</sup>  |                      |                      |                      |                       |                      |                      |
| 350 | Ot |                      | 124.0 <sup>(B)</sup> |                      | 129.0 <sup>(9)</sup>  |                      | 131.0 <sup>(9)</sup> |                      | 124.0 <sup>(5)</sup>  |                      | 102.0 <sup>(4)</sup> |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 360 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 83.8 <sup>(7)</sup>  |                      | 89.9 <sup>(B)</sup>   |                      |                      |                      |                       |                      |                      |
| 370 | Ot |                      | 105.0 <sup>(7)</sup> |                      | 111.0 <sup>(B)</sup>  |                      | 117.0 <sup>(9)</sup> |                      | 112.0 <sup>(B)</sup>  |                      | 100.0 <sup>(B)</sup> |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 380 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      | 67.3 <sup>(6)</sup>  |                      | 72.9 <sup>(7)</sup>   |                      | 104.0 <sup>(9)</sup> |                      | 101.0 <sup>(11)</sup> |                      | 93.6 <sup>(7)</sup>  |
| 390 | Ot |                      | 88.5 <sup>(6)</sup>  |                      | 93.5 <sup>(7)</sup>   |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 400 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      | 57.2 <sup>(6)</sup>   |                      | 88.0 <sup>(B)</sup>  |                      | 90.2 <sup>(10)</sup>  |                      | 85.1 <sup>(9)</sup>  |
| 410 | Ot |                      |                      |                      | 78.2 <sup>(6)</sup>   |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 420 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      | 73.3 <sup>(7)</sup>  |                      | 78.8 <sup>(10)</sup>  |                      | 76.4 <sup>(11)</sup> |
| 430 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
| 440 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      | 59.5 <sup>(6)</sup>  |                      | 67.1 <sup>(9)</sup>   |                      | 67.2 <sup>(10)</sup> |
| 450 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      | 54.4 <sup>(B)</sup>   |                      | 57.5 <sup>(10)</sup> |
| 460 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      | 41.6 <sup>(7)</sup>   |                      | 47.1 <sup>(9)</sup>  |
| 470 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      | 36.2 <sup>(B)</sup>  |
| 480 | Ot |                      |                      |                      |                       |                      |                      |                      |                       |                      |                      |
|     | BV |                      |                      |                      |                       |                      |                      |                      |                       |                      | 21.2 <sup>(7)</sup>  |

1) 12° 2) 17° 3) 22° 4) 27° 5) 32° 6) 37° 7) 42° 8) 47° 9) 52° 10) 57° 11) 62°  
A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

# Lifting heights

## Hauteurs de levage

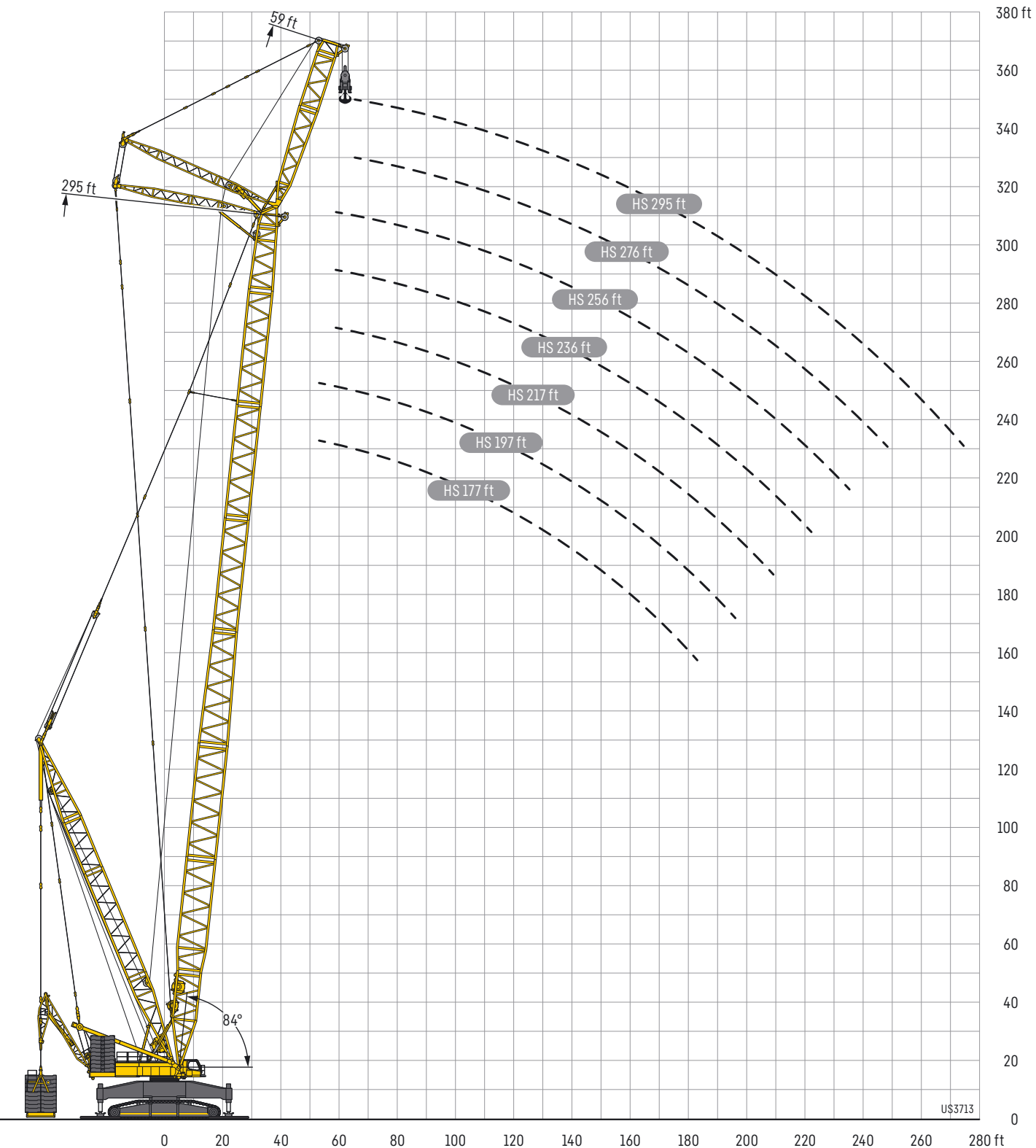
HSDWB/BV



# Lifting heights

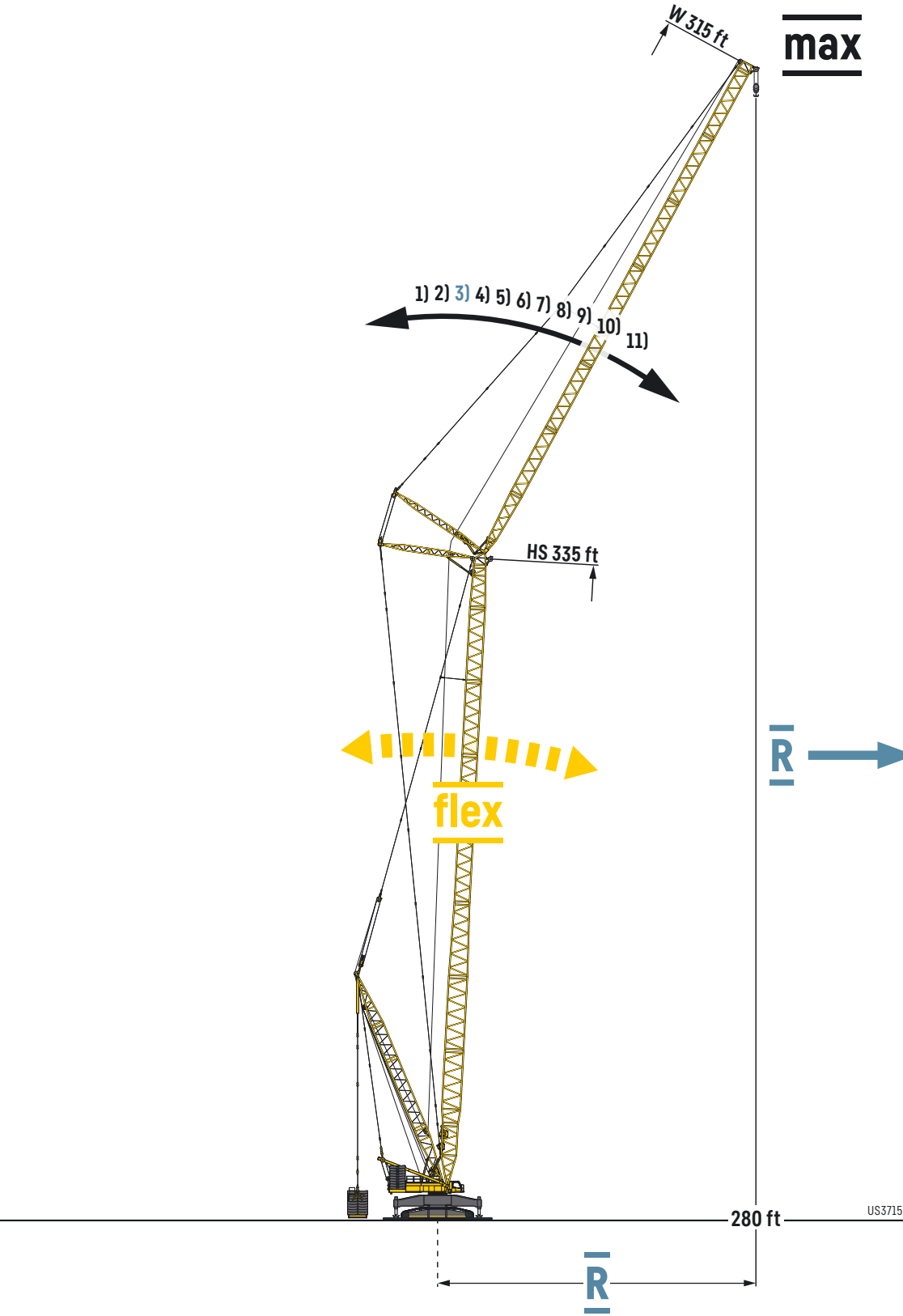
## Hauteurs de levage

HSDWB/BV



Example
Exemple

Wmax



|     |    | HS 335 ft           |                      |
|-----|----|---------------------|----------------------|
|     |    | W 315 ft            |                      |
|     |    | 87°/85°/84°         | Wmax                 |
| 130 | Ot |                     |                      |
|     | B  |                     |                      |
| 140 | Ot | 70.7 <sup>(B)</sup> | 70.7 <sup>(B)</sup>  |
|     | B  |                     |                      |
| 150 | Ot |                     |                      |
|     | B  |                     |                      |
| 160 | Ot | 69.5 <sup>(B)</sup> | 69.5 <sup>(B)</sup>  |
|     | B  |                     |                      |
| 170 | Ot |                     |                      |
|     | B  | 68.5 <sup>(B)</sup> | 68.5 <sup>(2)</sup>  |
| 180 | Ot |                     |                      |
|     | B  | 67.5 <sup>(B)</sup> | 68.3 <sup>(2)</sup>  |
| 190 | Ot |                     |                      |
|     | B  | 66.4 <sup>(B)</sup> | 68.1 <sup>(2)</sup>  |
| 200 | Ot |                     |                      |
|     | B  | 65.2 <sup>(B)</sup> | 67.9 <sup>(2)</sup>  |
| 210 | Ot |                     |                      |
|     | B  | 63.7 <sup>(B)</sup> | 67.8 <sup>(3)</sup>  |
| 220 | Ot |                     |                      |
|     | B  | 59.6 <sup>(B)</sup> | 67.1 <sup>(3)</sup>  |
| 230 | Ot |                     |                      |
|     | B  | 55.4 <sup>(B)</sup> | 65.3 <sup>(3)</sup>  |
| 240 | Ot |                     |                      |
|     | B  | 51.2 <sup>(B)</sup> | 63.6 <sup>(3)</sup>  |
| 250 | Ot |                     |                      |
|     | B  | 47.2 <sup>(B)</sup> | 62.0 <sup>(3)</sup>  |
| 260 | Ot |                     |                      |
|     | B  | 41.7 <sup>(B)</sup> | 60.7 <sup>(E)</sup>  |
| 270 | Ot |                     |                      |
|     | B  | 36.4 <sup>(B)</sup> | 59.3 <sup>(E)</sup>  |
| 280 | Ot |                     |                      |
|     | B  | 31.8 <sup>(B)</sup> | 58.0 <sup>(E)</sup>  |
| 290 | Ot |                     |                      |
|     | B  |                     | 57.1 <sup>(E)</sup>  |
| 300 | Ot |                     |                      |
|     | B  |                     | 56.4 <sup>(E)</sup>  |
| 310 | Ot |                     |                      |
|     | B  |                     | 56.1 <sup>(7)</sup>  |
| 320 | Ot |                     |                      |
|     | B  |                     | 54.3 <sup>(8)</sup>  |
| 330 | Ot |                     |                      |
|     | B  |                     | 49.7 <sup>(10)</sup> |
| 340 | Ot |                     |                      |
|     | B  |                     | 43.3 <sup>(11)</sup> |
| 350 | Ot |                     |                      |
|     | B  |                     | 31.5 <sup>(10)</sup> |

Example · Exemple

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

A) 87° B) 85° C) 84° D) 80° E) 75° F) 65° G) 55° H) 45°

# HSL2AF/HSL3AF

# HSL 295 – 325



295 – 325 ft



A



F



0 – 143,300 lb

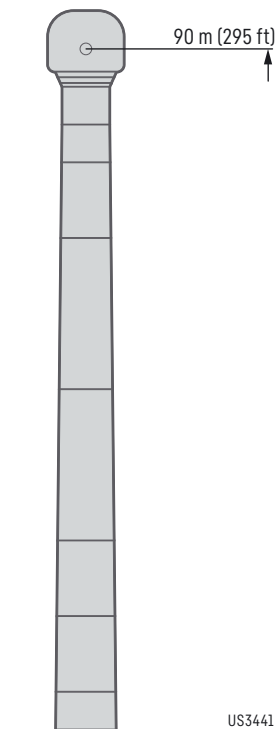


418,900 lb – 507,100 lb  
286,600 lb – 416,700 lb  
154,300 lb – 284,400 lb  
0 lb

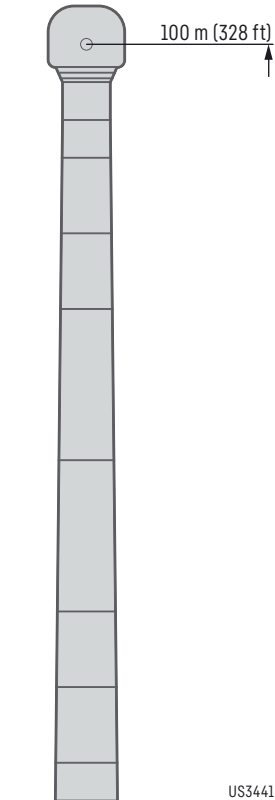


max. 149,900 lb

|     |      | HSL2, HSL3 295 ft |      |        |      |        |      |
|-----|------|-------------------|------|--------|------|--------|------|
|     |      | F39 ft            |      | F49 ft |      | F59 ft |      |
|     |      | 10°               | 15°  | 10°    | 15°  | 10°    | 15°  |
| 60  | HSL2 | 346               | 344  | 328    | 283  | 286    |      |
|     | HSL3 | 344               | 345  | 331    | 285  | 288    |      |
| 70  | HSL2 | 293               | 295  | 292    | 267  | 267    | 227  |
|     | HSL3 | 290               | 291  | 289    | 269  | 269    | 228  |
| 80  | HSL2 | 251               | 254  | 251    | 252  | 250    | 215  |
|     | HSL3 | 247               | 250  | 248    | 251  | 249    | 216  |
| 90  | HSL2 | 220               | 220  | 218    | 222  | 219    | 204  |
|     | HSL3 | 216               | 216  | 215    | 219  | 216    | 205  |
| 100 | HSL2 | 194               | 195  | 192    | 197  | 193    | 193  |
|     | HSL3 | 190               | 191  | 189    | 194  | 190    | 191  |
| 110 | HSL2 | 174               | 176  | 172    | 175  | 174    | 176  |
|     | HSL3 | 170               | 171  | 168    | 172  | 170    | 172  |
| 120 | HSL2 | 157               | 158  | 156    | 159  | 157    | 158  |
|     | HSL3 | 152               | 153  | 152    | 155  | 154    | 154  |
| 130 | HSL2 | 142               | 143  | 141    | 144  | 142    | 143  |
|     | HSL3 | 137               | 138  | 137    | 139  | 138    | 139  |
| 140 | HSL2 | 128               | 130  | 128    | 131  | 130    | 130  |
|     | HSL3 | 122               | 124  | 123    | 126  | 125    | 126  |
| 150 | HSL2 | 116               | 117  | 116    | 118  | 118    | 118  |
|     | HSL3 | 110               | 111  | 110    | 113  | 112    | 114  |
| 160 | HSL2 | 103               | 105  | 104    | 107  | 107    | 107  |
|     | HSL3 | 97                | 98.8 | 97.9   | 101  | 101    | 102  |
| 170 | HSL2 | 91.7              | 92.8 | 92.8   | 96   | 96     | 96.9 |
|     | HSL3 | 85.8              | 87   | 87.1   | 90.5 | 90.5   | 91.5 |
| 180 | HSL2 | 81.3              | 82.3 | 82.4   | 85.1 | 85.5   | 87   |
|     | HSL3 | 75.4              | 76.5 | 76.7   | 79.5 | 79.9   | 81.6 |
| 190 | HSL2 | 72.5              | 73.4 | 73     | 76   | 76     | 77.3 |
|     | HSL3 | 66.5              | 67.5 | 67.3   | 70.4 | 70.4   | 71.9 |
| 200 | HSL2 | 64.2              | 65.2 | 65     | 67.8 | 67.8   | 69   |
|     | HSL3 | 58.2              | 59.3 | 59.2   | 62.1 | 62.2   | 63.6 |
| 220 | HSL2 | 50.6              | 51.4 | 51.4   | 53.5 | 53.9   | 54.6 |
|     | HSL3 | 44.5              | 45.5 | 45.6   | 47.8 | 48.3   | 49.1 |
| 240 | HSL2 | 39.1              | 39.8 | 39.6   | 41.5 | 42.1   | 42.8 |
|     | HSL3 | 33.3              | 34   | 34     | 35.9 | 36.6   | 37.4 |
| 260 | HSL2 | 30                | 30.4 | 30.2   | 31.9 | 32.4   | 33.2 |
|     | HSL3 | 24.7              | 25.1 | 25.3   | 26.9 | 27.5   | 28.2 |
| 280 | HSL2 | 23                | 23.3 | 23.5   | 24.6 | 25.2   | 25.6 |
|     | HSL3 | 18.2              | 18.5 | 18.6   | 19.9 | 20.6   | 21   |
| 300 | HSL2 |                   |      | 17.7   | 18.7 | 19.4   | 19.8 |
|     | HSL3 |                   |      | 13     | 14.1 | 14.8   | 15.2 |
| 320 | HSL2 |                   |      |        |      |        |      |
|     | HSL3 |                   |      |        |      |        |      |
| 340 | HSL2 |                   |      |        |      |        |      |
|     | HSL3 |                   |      |        |      |        |      |



|     |      | HSL2, HSL3 325 ft |      |        |      |        |      |
|-----|------|-------------------|------|--------|------|--------|------|
|     |      | F39 ft            |      | F49 ft |      | F59 ft |      |
|     |      | 10°               | 15°  | 10°    | 15°  | 10°    | 15°  |
| 60  | HSL2 | 324               | 319  | 304    |      |        |      |
|     | HSL3 | 323               | 325  | 320    |      |        |      |
| 70  | HSL2 | 275               | 277  | 276    | 268  | 267    | 235  |
|     | HSL3 | 272               | 274  | 270    | 269  | 268    | 229  |
| 80  | HSL2 | 236               | 238  | 238    | 241  | 236    | 224  |
|     | HSL3 | 233               | 234  | 232    | 238  | 233    | 218  |
| 90  | HSL2 | 205               | 207  | 206    | 209  | 206    | 210  |
|     | HSL3 | 202               | 203  | 200    | 206  | 203    | 204  |
| 100 | HSL2 | 181               | 182  | 182    | 183  | 180    | 186  |
|     | HSL3 | 177               | 179  | 176    | 180  | 177    | 179  |
| 110 | HSL2 | 162               | 163  | 163    | 163  | 161    | 166  |
|     | HSL3 | 158               | 159  | 157    | 160  | 158    | 160  |
| 120 | HSL2 | 145               | 146  | 146    | 146  | 144    | 149  |
|     | HSL3 | 140               | 141  | 140    | 143  | 141    | 143  |
| 130 | HSL2 | 131               | 132  | 132    | 133  | 132    | 134  |
|     | HSL3 | 126               | 127  | 125    | 128  | 127    | 128  |
| 140 | HSL2 | 118               | 119  | 119    | 120  | 119    | 122  |
|     | HSL3 | 113               | 113  | 112    | 115  | 114    | 115  |
| 150 | HSL2 | 106               | 107  | 108    | 108  | 108    | 110  |
|     | HSL3 | 100               | 102  | 101    | 103  | 103    | 103  |
| 160 | HSL2 | 94.8              | 95.3 | 96.7   | 97.3 | 97.3   | 100  |
|     | HSL3 | 89.1              | 89.7 | 89.3   | 92.2 | 92.2   | 93   |
| 170 | HSL2 | 84                | 85.2 | 86.5   | 87.4 | 87     | 90.7 |
|     | HSL3 | 78                | 79.3 | 78.8   | 81.9 | 81.8   | 83.2 |
| 180 | HSL2 | 73.8              | 75.1 | 76.9   | 78   | 78.1   | 81.3 |
|     | HSL3 | 67.8              | 69.2 | 69.2   | 72.3 | 72.6   | 73.7 |
| 190 | HSL2 | 64.6              | 65.7 | 67.4   | 69.1 | 69.1   | 72.4 |
|     | HSL3 | 58.6              | 59.8 | 59.8   | 63.4 | 63.5   | 64.9 |
| 200 | HSL2 | 56.6              | 57.7 | 59.5   | 60.5 | 60.6   | 64.1 |
|     | HSL3 | 50.6              | 51.7 | 51.8   | 54.7 | 55     | 56.6 |
| 220 | HSL2 | 42.7              | 43.7 | 45.2   | 45.9 | 46.6   | 49.3 |
|     | HSL3 | 36.8              | 37.8 | 37.7   | 40.3 | 41     | 41.9 |
| 240 | HSL2 | 31.6              | 32.5 | 34.1   | 34.8 | 35.2   | 37.6 |
|     | HSL3 | 26.5              | 27.3 | 27.5   | 29.6 | 29.9   | 30.7 |
| 260 | HSL2 | 23.4              | 23.9 | 25.1   | 25.4 | 26.1   | 28.2 |
|     | HSL3 | 18.5              | 19   | 19.2   | 20.8 | 21.4   | 22.2 |
| 280 | HSL2 | 16.8              | 17.2 | 18.3   | 18.8 | 19.2   | 20.9 |
|     | HSL3 | 11.9              | 12.3 | 12.4   | 14   | 14.6   | 15.1 |
| 300 | HSL2 | 11.2              | 11.5 | 12.5   | 12.9 | 13.4   | 15   |
|     | HSL3 |                   |      |        |      |        |      |
| 320 | HSL2 |                   |      |        |      |        |      |
|     | HSL3 |                   |      |        |      |        |      |



# HSL2AF/HSL3AF

# HSL 344 – 364



344 – 364 ft



A



F



0 – 143,300 lb

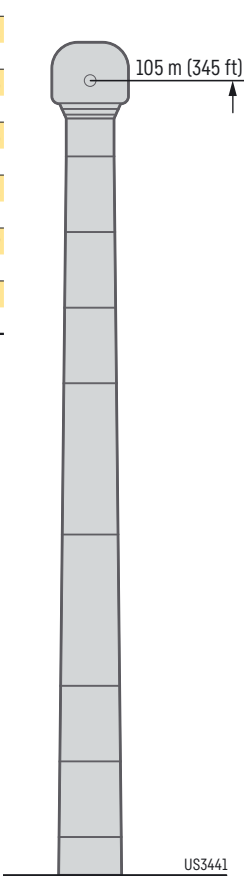


418,900 lb – 507,100 lb  
286,600 lb – 416,700 lb  
154,300 lb – 284,400 lb  
0 lb

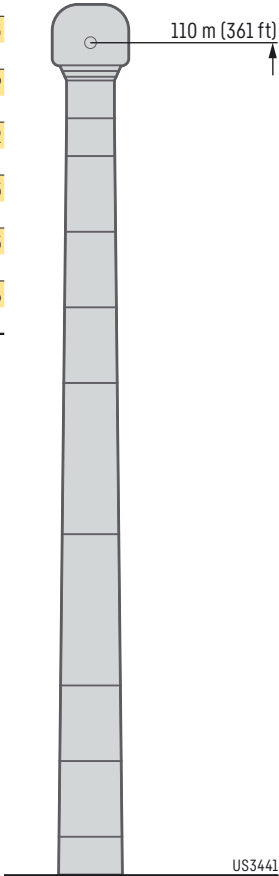


max. 149,900 lb

|     |      | HSL2, HSL3 344 ft |      |         |      |         |      |
|-----|------|-------------------|------|---------|------|---------|------|
|     |      | F 39 ft           |      | F 49 ft |      | F 59 ft |      |
|     |      | 10°               | 15°  | 10°     | 15°  | 10°     | 15°  |
| 60  | HSL2 | 309               | 300  | 286     |      |         |      |
|     | HSL3 |                   |      |         |      |         |      |
| 70  | HSL2 | 265               | 268  | 264     | 262  | 256     |      |
|     | HSL3 |                   |      |         |      |         |      |
| 80  | HSL2 | 225               | 231  | 229     | 230  | 226     | 225  |
|     | HSL3 |                   |      |         |      |         |      |
| 90  | HSL2 | 196               | 201  | 199     | 200  | 197     | 202  |
|     | HSL3 |                   |      |         |      |         |      |
| 100 | HSL2 | 173               | 176  | 174     | 175  | 172     | 179  |
|     | HSL3 |                   |      |         |      |         |      |
| 110 | HSL2 | 154               | 156  | 155     | 156  | 154     | 158  |
|     | HSL3 |                   |      |         |      |         |      |
| 120 | HSL2 | 137               | 141  | 139     | 139  | 138     | 141  |
|     | HSL3 |                   |      |         |      |         |      |
| 130 | HSL2 | 123               | 127  | 124     | 126  | 124     | 127  |
|     | HSL3 |                   |      |         |      |         |      |
| 140 | HSL2 | 111               | 114  | 112     | 113  | 112     | 115  |
|     | HSL3 |                   |      |         |      |         |      |
| 150 | HSL2 | 100               | 102  | 101     | 102  | 101     | 104  |
|     | HSL3 |                   |      |         |      |         |      |
| 160 | HSL2 | 88.5              | 91.9 | 91.2    | 92   | 91.4    | 94.7 |
|     | HSL3 |                   |      |         |      |         |      |
| 170 | HSL2 | 79                | 81.7 | 81.4    | 82.1 | 81.6    | 85.1 |
|     | HSL3 |                   |      |         |      |         |      |
| 180 | HSL2 | 69.5              | 72.8 | 72.3    | 73.4 | 73.2    | 76.6 |
|     | HSL3 |                   |      |         |      |         |      |
| 190 | HSL2 | 61                | 63.8 | 63.3    | 65   | 64.7    | 68.2 |
|     | HSL3 |                   |      |         |      |         |      |
| 200 | HSL2 | 52.4              | 55.5 | 55.4    | 56.6 | 56.7    | 60.2 |
|     | HSL3 |                   |      |         |      |         |      |
| 220 | HSL2 | 38.6              | 41.2 | 41.4    | 42.3 | 42.3    | 45.6 |
|     | HSL3 |                   |      |         |      |         |      |
| 240 | HSL2 | 28.5              | 30.6 | 29.9    | 30.4 | 31.1    | 33.6 |
|     | HSL3 |                   |      |         |      |         |      |
| 260 | HSL2 | 20.2              | 22.1 | 21.9    | 22.6 | 22.9    | 25.2 |
|     | HSL3 |                   |      |         |      |         |      |
| 280 | HSL2 | 13.6              | 15.3 | 15.2    | 15.8 | 16.1    | 17.9 |
|     | HSL3 |                   |      |         |      |         |      |
| 300 | HSL2 |                   |      |         |      |         | 12   |
|     | HSL3 |                   |      |         |      |         |      |



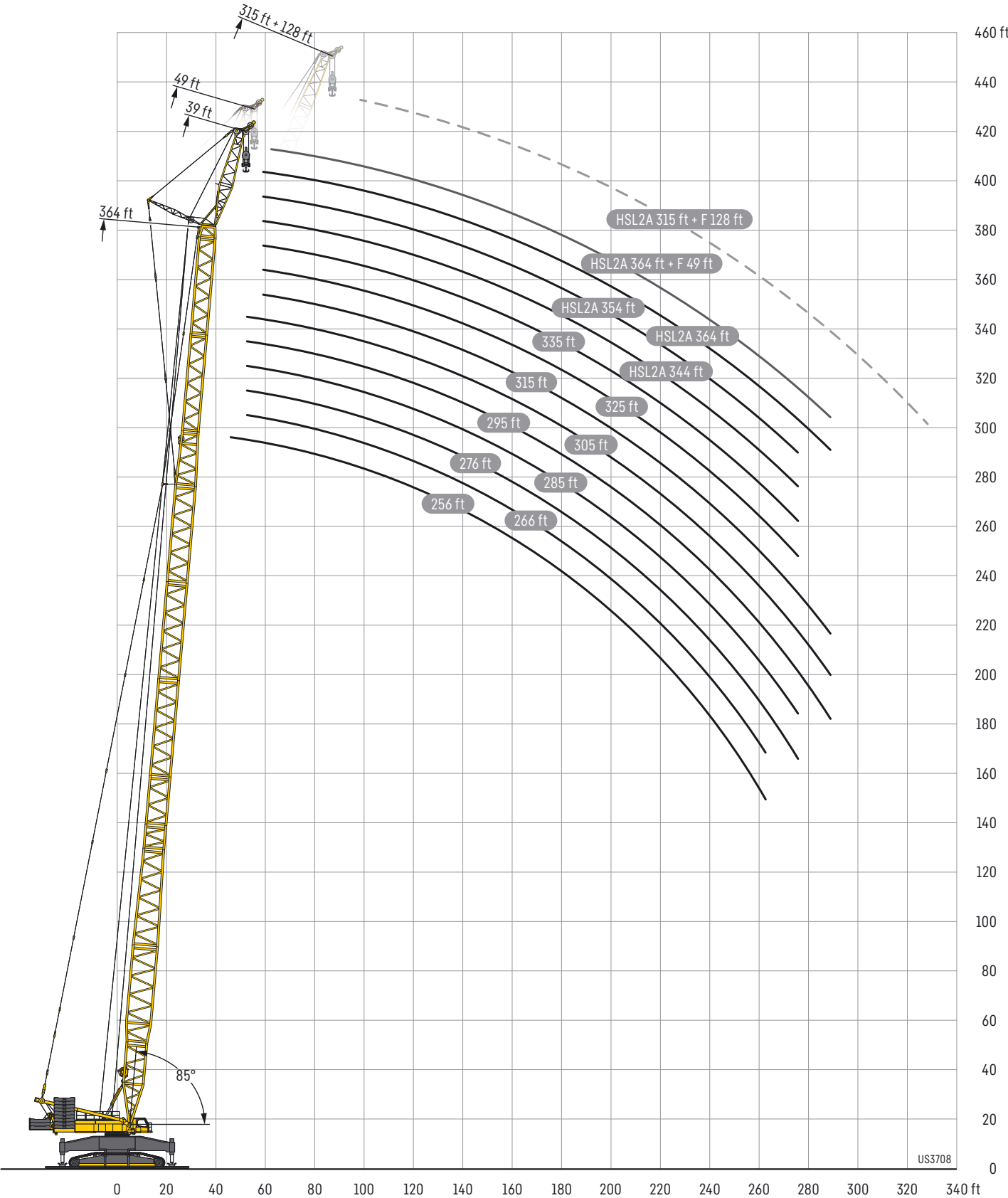
|     |      | HSL2, HSL3 364 ft |      |         |      |
|-----|------|-------------------|------|---------|------|
|     |      | F 39 ft           |      | F 49 ft |      |
|     |      | 10°               | 15°  | 10°     | 15°  |
| 60  | HSL2 | 256               |      |         |      |
|     | HSL3 |                   |      |         |      |
| 70  | HSL2 | 247               | 238  | 227     | 217  |
|     | HSL3 |                   |      |         |      |
| 80  | HSL2 | 224               | 227  | 219     | 211  |
|     | HSL3 |                   |      |         |      |
| 90  | HSL2 | 195               | 196  | 198     | 200  |
|     | HSL3 |                   |      |         |      |
| 100 | HSL2 | 171               | 173  | 172     | 176  |
|     | HSL3 |                   |      |         |      |
| 110 | HSL2 | 153               | 153  | 154     | 155  |
|     | HSL3 |                   |      |         |      |
| 120 | HSL2 | 136               | 137  | 138     | 139  |
|     | HSL3 |                   |      |         |      |
| 130 | HSL2 | 123               | 123  | 124     | 126  |
|     | HSL3 |                   |      |         |      |
| 140 | HSL2 | 111               | 112  | 113     | 114  |
|     | HSL3 |                   |      |         |      |
| 150 | HSL2 | 100               | 101  | 102     | 103  |
|     | HSL3 |                   |      |         |      |
| 160 | HSL2 | 90.8              | 91.4 | 92.4    | 93.2 |
|     | HSL3 |                   |      |         |      |
| 170 | HSL2 | 80.8              | 82.1 | 83.2    | 84.2 |
|     | HSL3 |                   |      |         |      |
| 180 | HSL2 | 72.2              | 73.1 | 74.6    | 75.6 |
|     | HSL3 |                   |      |         |      |
| 190 | HSL2 | 63.6              | 64.5 | 66.5    | 67.6 |
|     | HSL3 |                   |      |         |      |
| 200 | HSL2 | 55.4              | 56.4 | 58.2    | 59.5 |
|     | HSL3 |                   |      |         |      |
| 220 | HSL2 | 41                | 41.8 | 43.8    | 44.9 |
|     | HSL3 |                   |      |         |      |
| 240 | HSL2 | 29.7              | 30.6 | 32.2    | 33.2 |
|     | HSL3 |                   |      |         |      |
| 260 | HSL2 | 22                | 22.5 | 23.8    | 24.5 |
|     | HSL3 |                   |      |         |      |
| 280 | HSL2 | 15.4              | 15.7 | 16.9    | 17.5 |
|     | HSL3 |                   |      |         |      |
| 300 | HSL2 |                   |      | 11.2    | 11.6 |
|     | HSL3 |                   |      |         |      |

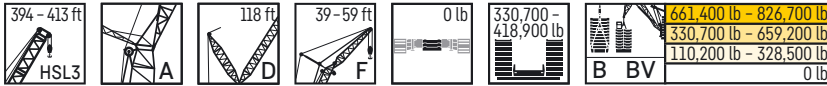


# Lifting heights

## Hauteurs de levage

# HSL2AF/HSL3AF

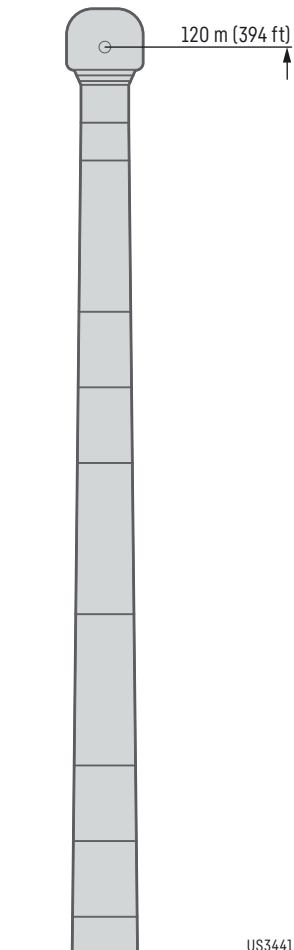




| HSL3 394 ft |                        |                    |                    |
|-------------|------------------------|--------------------|--------------------|
|             | F39 ft                 | F49 ft             | F59 ft             |
| 10°         |                        |                    |                    |
| 60          | Ot 322<br>B 325<br>BV  |                    |                    |
| 70          | Ot 285<br>B 324<br>BV  | 285<br>291<br>293  | 265<br>265<br>266  |
| 80          | Ot 243<br>B 323<br>BV  | 245<br>290<br>292  | 247<br>257<br>257  |
| 90          | Ot 211<br>B 322<br>BV  | 213<br>289<br>290  | 214<br>245<br>245  |
| 100         | Ot 183<br>B 320<br>BV  | 186<br>278<br>279  | 187<br>234<br>234  |
| 110         | Ot 161<br>B 317<br>BV  | 163<br>266<br>267  | 164<br>224<br>224  |
| 120         | Ot 140<br>B 313<br>BV  | 144<br>256<br>256  | 144<br>214<br>215  |
| 130         | Ot 123<br>B 303<br>BV  | 126<br>245<br>245  | 127<br>206<br>206  |
| 140         | Ot 108<br>B 292<br>BV  | 111<br>236<br>236  | 112<br>198<br>198  |
| 150         | Ot 93.2<br>B 281<br>BV | 96.2<br>227<br>227 | 97.7<br>190<br>190 |
| 160         | Ot 82<br>B 272<br>BV   | 84.4<br>219<br>219 | 85.5<br>183<br>183 |
| 170         | Ot 70.6<br>B 262<br>BV | 73.7<br>211<br>211 | 75.1<br>176<br>176 |
| 180         | Ot 60.7<br>B 253<br>BV | 63.9<br>204<br>204 | 65.8<br>171<br>171 |
| 190         | Ot 51.4<br>B 245<br>BV | 54.6<br>198<br>198 | 56.4<br>165<br>165 |
| 200         | Ot 43<br>B 238<br>BV   | 45.9<br>192<br>192 | 47.7<br>160<br>160 |
| 220         | Ot 29.3<br>B 220<br>BV | 32.2<br>181<br>181 | 33.4<br>150<br>150 |
| 240         | Ot 19.4<br>B 196<br>BV | 21.6<br>171<br>171 | 22.9<br>142<br>142 |
| 260         | Ot 11.3<br>B 175<br>BV | 13.5<br>162<br>163 | 14.6<br>135<br>135 |
| 280         | Ot 156<br>B 178<br>BV  | 153<br>155<br>155  | 128<br>128<br>128  |
| 300         | Ot 140<br>B 161<br>BV  | 142<br>148<br>148  | 122<br>122<br>122  |
| 320         | Ot 126<br>B 145<br>BV  | 127<br>142<br>142  | 117<br>117<br>117  |
| 340         | Ot 112<br>B 130<br>BV  | 114<br>131<br>131  | 111<br>113<br>113  |
| 360         | Ot 100<br>B 117<br>BV  | 102<br>119<br>119  | 103<br>109<br>109  |
| 380         | Ot<br>B<br>BV          | 91.7<br>108<br>108 | 92.8<br>105<br>105 |
| 400         | Ot<br>B<br>BV          |                    | 80.8<br>96.1       |
| 420         | Ot<br>B<br>BV          |                    |                    |
| 440         | Ot<br>B<br>BV          |                    |                    |
| 460         | Ot<br>B<br>BV          |                    |                    |

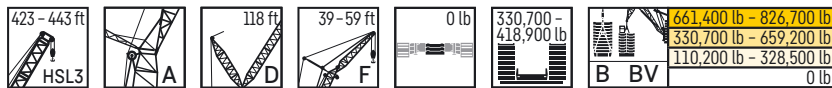
| HSL3 404 ft |                        |                    |                    |
|-------------|------------------------|--------------------|--------------------|
|             | F39 ft                 | F49 ft             | F59 ft             |
| 10°         |                        |                    |                    |
| 60          | Ot 312<br>B 314<br>BV  |                    |                    |
| 70          | Ot 277<br>B 313<br>BV  | 276<br>282<br>284  | 258<br>258<br>259  |
| 80          | Ot 238<br>B 312<br>BV  | 240<br>282<br>283  | 240<br>256<br>256  |
| 90          | Ot 205<br>B 311<br>BV  | 208<br>281<br>283  | 209<br>246<br>246  |
| 100         | Ot 179<br>B 309<br>BV  | 180<br>277<br>278  | 182<br>235<br>235  |
| 110         | Ot 156<br>B 306<br>BV  | 159<br>268<br>269  | 159<br>225<br>225  |
| 120         | Ot 136<br>B 304<br>BV  | 138<br>257<br>257  | 140<br>216<br>216  |
| 130         | Ot 119<br>B 301<br>BV  | 122<br>247<br>247  | 123<br>207<br>207  |
| 140         | Ot 103<br>B 294<br>BV  | 107<br>238<br>238  | 108<br>199<br>199  |
| 150         | Ot 89.4<br>B 283<br>BV | 93.2<br>229<br>230 | 94.7<br>192<br>192 |
| 160         | Ot 77.8<br>B 272<br>BV | 81.2<br>222<br>221 | 82<br>185<br>185   |
| 170         | Ot 67.3<br>B 261<br>BV | 70.8<br>213<br>213 | 72.1<br>178<br>178 |
| 180         | Ot 57.5<br>B 251<br>BV | 60.9<br>206<br>206 | 62.2<br>171<br>172 |
| 190         | Ot 48.3<br>B 243<br>BV | 52.1<br>199<br>199 | 53.6<br>166<br>166 |
| 200         | Ot 40<br>B 235<br>BV   | 43.4<br>192<br>192 | 44.9<br>160<br>160 |
| 220         | Ot 26.9<br>B 217<br>BV | 29.5<br>180<br>181 | 31.1<br>151<br>151 |
| 240         | Ot 19.4<br>B 194<br>BV | 19.2<br>170<br>171 | 20.3<br>142<br>142 |
| 260         | Ot 172<br>B 194<br>BV  | 161<br>162<br>162  | 134<br>134<br>134  |
| 280         | Ot 154<br>B 176<br>BV  | 151<br>155<br>155  | 128<br>128<br>128  |
| 300         | Ot 137<br>B 158<br>BV  | 139<br>148<br>148  | 122<br>122<br>122  |
| 320         | Ot 122<br>B 142<br>BV  | 125<br>140<br>140  | 117<br>117<br>117  |
| 340         | Ot 110<br>B 128<br>BV  | 112<br>130<br>130  | 112<br>112<br>112  |
| 360         | Ot 97.9<br>B 115<br>BV | 99.8<br>117<br>117 | 101<br>109<br>109  |
| 380         | Ot 87.5<br>B 104<br>BV | 89.4<br>106<br>106 | 90.5<br>104<br>104 |
| 400         | Ot<br>B<br>BV          |                    | 80.8<br>96.1       |
| 420         | Ot<br>B<br>BV          |                    |                    |
| 440         | Ot<br>B<br>BV          |                    |                    |
| 460         | Ot<br>B<br>BV          |                    |                    |

| HSL3 413 ft |                        |                      |                      |
|-------------|------------------------|----------------------|----------------------|
|             | F39 ft                 | F49 ft               | F59 ft               |
| 10°         |                        |                      |                      |
| 60          | Ot 298<br>B<br>BV      |                      |                      |
| 70          | Ot 277<br>B 297<br>BV  | 266<br>268<br>269    | 246<br>246<br>246    |
| 80          | Ot 238<br>B 296<br>BV  | 238<br>267<br>269    | 238<br>245<br>246    |
| 90          | Ot 205<br>B 294<br>BV  | 206<br>266<br>267    | 206<br>242<br>243    |
| 100         | Ot 179<br>B 292<br>BV  | 180<br>264<br>266    | 180<br>234<br>233    |
| 110         | Ot 156<br>B 290<br>BV  | 157<br>262<br>263    | 158<br>224<br>224    |
| 120         | Ot 137<br>B 287<br>BV  | 137<br>256<br>257    | 138<br>215<br>215    |
| 130         | Ot 120<br>B 285<br>BV  | 120<br>247<br>247    | 122<br>207<br>207    |
| 140         | Ot 106<br>B 282<br>BV  | 107<br>238<br>238    | 107<br>199<br>199    |
| 150         | Ot 91.9<br>B 278<br>BV | 93.4<br>230<br>230   | 93.8<br>192<br>192   |
| 160         | Ot 79.8<br>B 271<br>BV | 80.8<br>222<br>222   | 82.4<br>185<br>185   |
| 170         | Ot 70<br>B 264<br>BV   | 70.4<br>214<br>214   | 71.6<br>179<br>179   |
| 180         | Ot 60.3<br>B 257<br>BV | 61.3<br>208<br>208   | 62.6<br>173<br>173   |
| 190         | Ot 51.6<br>B 251<br>BV | 52.7<br>201<br>201   | 54.1<br>167<br>168   |
| 200         | Ot 42.7<br>B 244<br>BV | 44<br>194<br>194     | 45.4<br>162<br>162   |
| 220         | Ot 29.1<br>B 220<br>BV | 30.4<br>182<br>183   | 31.7<br>152<br>152   |
| 240         | Ot 18.9<br>B 195<br>BV | 19.8<br>172<br>173   | 21<br>144<br>144     |
| 260         | Ot 174<br>B 194<br>BV  | 163<br>164<br>164    | 136<br>136<br>136    |
| 280         | Ot 156<br>B 177<br>BV  | 152<br>156<br>156    | 129<br>129<br>129    |
| 300         | Ot 139<br>B 160<br>BV  | 139<br>150<br>150    | 123<br>124<br>124    |
| 320         | Ot 124<br>B 144<br>BV  | 125<br>141<br>141    | 118<br>118<br>118    |
| 340         | Ot 112<br>B 130<br>BV  | 112<br>131<br>131    | 111<br>114<br>114    |
| 360         | Ot 99.7<br>B 117<br>BV | 100<br>118<br>118    | 102<br>110<br>110    |
| 380         | Ot 89.4<br>B 106<br>BV | 90.1<br>106<br>106   | 90.8<br>105<br>105   |
| 400         | Ot<br>B<br>BV          | 80.4<br>95.7<br>95.7 | 81.4<br>96.5<br>96.5 |
| 420         | Ot<br>B<br>BV          |                      |                      |
| 440         | Ot<br>B<br>BV          |                      |                      |
| 460         | Ot<br>B<br>BV          |                      |                      |



# HSL3ADFB/BV

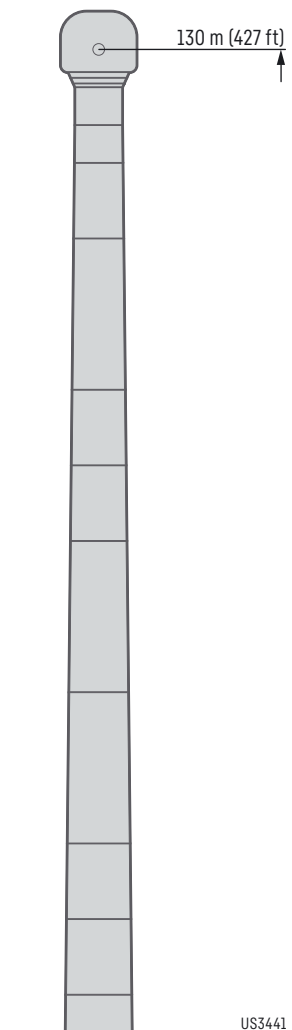
# HSL3A 423 – 443



| HSL3 423 ft |         |        |        |
|-------------|---------|--------|--------|
|             | F39 ft  | F49 ft | F59 ft |
| 10°         |         |        |        |
| 60          | Ot 287  |        |        |
|             | B 269   | 258    | 238    |
|             | BV 286  | 259    | 238    |
| 70          | Ot 288  | 260    |        |
|             | B 233   | 231    | 231    |
|             | B 285   | 258    | 237    |
|             | BV 286  | 259    | 238    |
| 80          | Ot 200  | 201    | 201    |
|             | B 283   | 257    | 236    |
|             | BV 285  | 258    | 236    |
| 90          | Ot 175  | 175    | 175    |
|             | B 281   | 255    | 233    |
|             | BV 284  | 257    | 234    |
| 100         | Ot 152  | 152    | 154    |
|             | B 279   | 253    | 225    |
|             | BV 282  | 255    | 225    |
| 110         | Ot 133  | 134    | 135    |
|             | B 276   | 251    | 216    |
|             | BV 280  | 253    | 217    |
| 120         | Ot 116  | 117    | 118    |
|             | B 272   | 247    | 208    |
|             | BV 277  | 248    | 208    |
| 130         | Ot 103  | 103    | 104    |
|             | B 269   | 239    | 200    |
|             | BV 274  | 240    | 200    |
| 140         | Ot 89.3 | 89.7   | 91.2   |
|             | B 265   | 230    | 193    |
|             | BV 270  | 230    | 193    |
| 150         | Ot 75.9 | 77.3   | 78.9   |
|             | B 257   | 222    | 186    |
|             | BV 265  | 222    | 186    |
| 160         | Ot 66.5 | 67.6   | 68.2   |
|             | B 251   | 214    | 179    |
|             | BV 260  | 214    | 179    |
| 170         | Ot 57.5 | 58.6   | 59.4   |
|             | B 244   | 207    | 173    |
|             | BV 254  | 207    | 173    |
| 180         | Ot 48.8 | 49.5   | 51     |
|             | B 236   | 199    | 167    |
|             | BV 248  | 200    | 167    |
| 190         | Ot 40.1 | 41.3   | 42.8   |
|             | B 231   | 193    | 161    |
|             | BV 240  | 194    | 161    |
| 200         | Ot 27.1 | 27.6   | 28.6   |
|             | B 214   | 182    | 152    |
|             | BV 223  | 183    | 152    |
| 220         | Ot 16.7 | 17.6   | 18.8   |
|             | B 192   | 172    | 143    |
|             | BV 205  | 173    | 144    |
| 240         | Ot 171  | 163    | 136    |
|             | B 189   | 164    | 136    |
|             | BV 153  | 152    | 129    |
| 260         | Ot 173  | 156    | 130    |
|             | B 136   | 137    | 124    |
|             | BV 157  | 150    | 124    |
| 280         | Ot 122  | 122    | 118    |
|             | B 142   | 141    | 119    |
|             | BV 109  | 109    | 109    |
| 300         | Ot 128  | 128    | 114    |
|             | B 97.5  | 97.9   | 98.7   |
|             | BV 115  | 115    | 110    |
| 320         | Ot 87.1 | 87.5   | 88.6   |
|             | B 103   | 104    | 104    |
|             | BV 77.4 | 78.1   | 79.2   |
| 340         | Ot 92.8 | 93.5   | 94.6   |
|             | B 70.4  |        |        |
|             | BV 85.1 |        |        |
| 360         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 380         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 400         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 420         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 440         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 460         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 480         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 490         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |

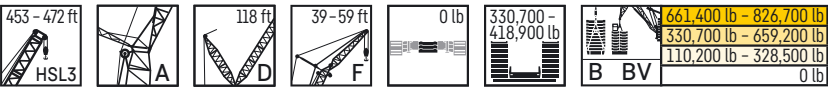
| HSL3 433 ft |         |        |        |
|-------------|---------|--------|--------|
|             | F39 ft  | F49 ft | F59 ft |
| 10°         |         |        |        |
| 70          | Ot 265  | 250    | 230    |
|             | B 275   | 250    | 230    |
|             | BV 277  | 251    |        |
| 80          | Ot 226  | 228    | 226    |
|             | B 274   | 249    | 229    |
|             | BV 276  | 250    | 230    |
| 90          | Ot 196  | 197    | 200    |
|             | B 272   | 248    | 229    |
|             | BV 274  | 249    | 230    |
| 100         | Ot 171  | 171    | 174    |
|             | B 270   | 246    | 228    |
|             | BV 273  | 248    | 229    |
| 110         | Ot 148  | 150    | 152    |
|             | B 267   | 244    | 226    |
|             | BV 271  | 247    | 228    |
| 120         | Ot 130  | 131    | 134    |
|             | B 265   | 242    | 223    |
|             | BV 268  | 245    | 224    |
| 130         | Ot 113  | 114    | 117    |
|             | B 261   | 239    | 217    |
|             | BV 266  | 242    | 217    |
| 140         | Ot 99.4 | 100    | 103    |
|             | B 258   | 236    | 208    |
|             | BV 263  | 239    | 208    |
| 150         | Ot 86.4 | 87.8   | 90.6   |
|             | B 253   | 230    | 200    |
|             | BV 259  | 231    | 200    |
| 160         | Ot 73.9 | 75.5   | 79.6   |
|             | B 248   | 222    | 193    |
|             | BV 254  | 222    | 193    |
| 170         | Ot 64.5 | 64.9   | 68.1   |
|             | B 240   | 214    | 185    |
|             | BV 249  | 214    | 185    |
| 180         | Ot 55.5 | 56     | 59.4   |
|             | B 235   | 207    | 179    |
|             | BV 244  | 207    | 179    |
| 190         | Ot 46.3 | 47.7   | 51.6   |
|             | B 226   | 199    | 173    |
|             | BV 238  | 200    | 173    |
| 200         | Ot 38.2 | 39.6   | 43.6   |
|             | B 220   | 192    | 167    |
|             | BV 233  | 194    | 168    |
| 220         | Ot 25   | 25.8   | 28.5   |
|             | B 208   | 181    | 157    |
|             | BV 218  | 182    | 157    |
| 240         | Ot 15.3 |        | 17.3   |
|             | B 190   | 171    | 148    |
|             | BV 201  | 173    | 149    |
| 260         | Ot 169  | 163    | 141    |
|             | B 186   | 164    | 141    |
| 280         | Ot 150  | 149    | 134    |
|             | B 170   | 157    | 134    |
| 300         | Ot 134  | 135    | 127    |
|             | B 155   | 149    | 128    |
| 320         | Ot 120  | 120    | 120    |
|             | B 140   | 139    | 123    |
| 340         | Ot 107  | 108    | 110    |
|             | B 126   | 126    | 118    |
| 360         | Ot 95.9 | 96.1   | 98.4   |
|             | B 114   | 114    | 114    |
| 380         | Ot 85.5 | 85.9   | 88.6   |
|             | B 102   | 102    | 104    |
| 400         | Ot 75.8 | 76.5   | 78.9   |
|             | B 91.2  | 92     | 94.4   |
| 420         | Ot 67.8 | 70     |        |
|             | B 82.2  | 84.8   |        |
| 440         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 460         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 480         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 490         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |

| HSL3 443 ft |         |        |        |
|-------------|---------|--------|--------|
|             | F39 ft  | F49 ft | F59 ft |
| 10°         |         |        |        |
| 70          | Ot 257  | 241    | 222    |
|             | B 264   | 241    | 222    |
|             | BV 266  |        |        |
| 80          | Ot 222  | 221    | 219    |
|             | B 262   | 240    | 222    |
|             | BV 264  | 241    | 222    |
| 90          | Ot 192  | 193    | 194    |
|             | B 260   | 238    | 220    |
|             | BV 262  | 240    | 222    |
| 100         | Ot 166  | 167    | 170    |
|             | B 257   | 236    | 219    |
|             | BV 260  | 238    | 221    |
| 110         | Ot 145  | 146    | 148    |
|             | B 255   | 233    | 217    |
|             | BV 258  | 236    | 219    |
| 120         | Ot 127  | 127    | 129    |
|             | B 252   | 231    | 215    |
|             | BV 255  | 233    | 216    |
| 130         | Ot 110  | 110    | 114    |
|             | B 248   | 228    | 212    |
|             | BV 252  | 230    | 213    |
| 140         | Ot 95.6 | 96.4   | 99.9   |
|             | B 244   | 223    | 206    |
|             | BV 249  | 227    | 206    |
| 150         | Ot 83.6 | 84     | 87.1   |
|             | B 240   | 219    | 198    |
|             | BV 245  | 223    | 198    |
| 160         | Ot 71.3 | 73     | 76.1   |
|             | B 235   | 214    | 191    |
|             | BV 240  | 218    | 191    |
| 170         | Ot 60.9 | 61.5   | 65.7   |
|             | B 228   | 209    | 184    |
|             | BV 235  | 212    | 184    |
| 180         | Ot 52.1 | 52.6   | 56.1   |
|             | B 222   | 203    | 178    |
|             | BV 230  | 206    | 178    |
| 190         | Ot 43.9 | 44.5   | 48.4   |
|             | B 215   | 196    | 172    |
|             | BV 224  | 199    | 172    |
| 200         | Ot 35.9 | 37.4   | 40.7   |
|             | B 208   | 190    | 167    |
|             | BV 219  | 193    | 167    |
| 220         | Ot 22.9 | 23.5   | 27.1   |
|             | B 198   | 180    | 157    |
|             | BV 208  | 182    | 157    |
| 240         | Ot 185  | 168    | 148    |
|             | B 195   | 173    | 148    |
| 260         | Ot 165  | 160    | 140    |
|             | B 181   | 164    | 141    |
| 280         | Ot 147  | 147    | 134    |
|             | B 166   | 157    | 134    |
| 300         | Ot 131  | 132    | 127    |
|             | B 151   | 147    | 128    |
| 320         | Ot 117  | 117    | 118    |
|             | B 137   | 136    | 124    |
| 340         | Ot 104  | 105    | 107    |
|             | B 123   | 124    | 118    |
| 360         | Ot 93   | 93.3   | 95.9   |
|             | B 110   | 111    | 112    |
| 380         | Ot 82.8 | 83.3   | 85.9   |
|             | B 99.2  | 99.7   | 102    |
| 400         | Ot 73.5 | 74     | 76.6   |
|             | B 89    | 89.5   | 92.2   |
| 420         | Ot 64.7 | 65.3   | 67.8   |
|             | B 78.8  | 79.8   | 82.6   |
| 440         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 460         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 480         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |
| 490         | Ot      |        |        |
|             | B       |        |        |
|             | BV      |        |        |

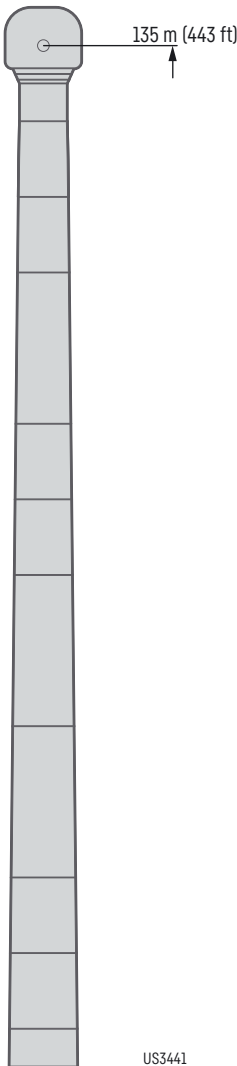


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HSL3ADFB/BV



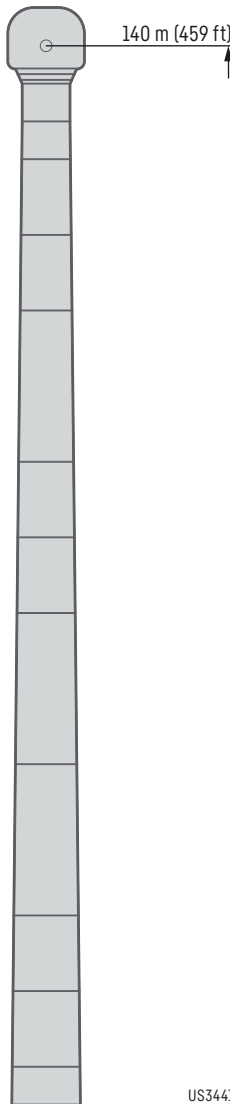
| HSL3 453 ft |    |        |        |
|-------------|----|--------|--------|
| ft          |    | F39 ft | F49 ft |
|             |    | 10°    |        |
| 70          | Ot | 249    | 233    |
|             | B  | 254    | 233    |
|             | BV | 255    |        |
|             | Ot | 216    | 220    |
| 80          | B  | 252    | 232    |
|             | BV | 254    | 233    |
|             | Ot | 188    | 190    |
| 90          | B  | 250    | 230    |
|             | BV | 252    | 232    |
|             | Ot | 163    | 167    |
| 100         | B  | 248    | 229    |
|             | BV | 250    | 231    |
|             | Ot | 142    | 145    |
| 110         | B  | 245    | 226    |
|             | BV | 248    | 229    |
|             | Ot | 123    | 126    |
| 120         | B  | 243    | 224    |
|             | BV | 246    | 227    |
|             | Ot | 107    | 111    |
| 130         | B  | 240    | 222    |
|             | BV | 244    | 224    |
|             | Ot | 93.2   | 96.6   |
| 140         | B  | 236    | 218    |
|             | BV | 241    | 222    |
|             | Ot | 81.1   | 84     |
| 150         | B  | 232    | 214    |
|             | BV | 238    | 219    |
|             | Ot | 70     | 73.2   |
| 160         | B  | 228    | 210    |
|             | BV | 234    | 214    |
|             | Ot | 58.8   | 62.9   |
| 170         | B  | 222    | 206    |
|             | BV | 229    | 210    |
|             | Ot | 50.1   | 53.3   |
| 180         | B  | 218    | 201    |
|             | BV | 225    | 206    |
|             | Ot | 42.7   | 45.7   |
| 190         | B  | 212    | 195    |
|             | BV | 221    | 202    |
|             | Ot | 35     | 38.2   |
| 200         | B  | 206    | 191    |
|             | BV | 216    | 197    |
|             | Ot | 21.6   | 24.7   |
| 220         | B  | 196    | 183    |
|             | BV | 206    | 188    |
|             | Ot |        | 16     |
| 240         | B  | 182    | 172    |
|             | BV | 190    | 180    |
|             | Ot | 164    | 162    |
| 260         | B  | 176    | 172    |
|             | BV |        |        |
|             | Ot | 145    | 148    |
| 280         | B  | 162    | 162    |
|             | BV |        |        |
|             | Ot | 130    | 132    |
| 300         | B  | 148    | 150    |
|             | BV |        |        |
|             | Ot | 115    | 118    |
| 320         | B  | 135    | 137    |
|             | BV |        |        |
|             | Ot | 103    | 105    |
| 340         | B  | 122    | 124    |
|             | BV |        |        |
|             | Ot | 91.5   | 93.7   |
| 360         | B  | 109    | 111    |
|             | BV |        |        |
|             | Ot | 81.8   | 83.8   |
| 380         | B  | 98.2   | 100    |
|             | BV |        |        |
|             | Ot | 72.6   | 74.6   |
| 400         | B  | 88.1   | 90.1   |
|             | BV |        |        |
|             | Ot | 63.8   | 65.6   |
| 420         | B  | 78.3   | 80.5   |
|             | BV |        |        |
|             | Ot |        | 58.7   |
| 440         | B  |        | 72.6   |
|             | BV |        |        |
|             | Ot |        |        |
| 460         | B  |        |        |
|             | BV |        |        |
|             | Ot |        |        |
| 490         | B  |        |        |
|             | BV |        |        |



HSL3A 453 - 472

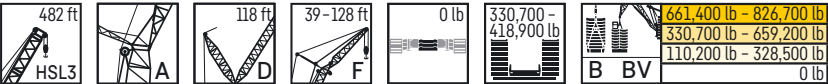
| HSL3 463 ft |    |        |        |
|-------------|----|--------|--------|
| ft          |    | F39 ft | F49 ft |
|             |    | 10°    |        |
| 70          | Ot | 240    | 224    |
|             | B  | 242    | 224    |
|             | BV | 244    |        |
|             | Ot | 213    | 214    |
| 80          | B  | 240    | 222    |
|             | BV | 242    | 223    |
|             | Ot | 182    | 187    |
| 90          | B  | 238    | 220    |
|             | BV | 240    | 222    |
|             | Ot | 159    | 161    |
| 100         | B  | 236    | 218    |
|             | BV | 238    | 220    |
|             | Ot | 137    | 141    |
| 110         | B  | 234    | 216    |
|             | BV | 236    | 218    |
|             | Ot | 119    | 123    |
| 120         | B  | 231    | 214    |
|             | BV | 234    | 216    |
|             | Ot | 104    | 107    |
| 130         | B  | 228    | 211    |
|             | BV | 232    | 214    |
|             | Ot | 89.6   | 93.5   |
| 140         | B  | 224    | 208    |
|             | BV | 229    | 211    |
|             | Ot | 77.3   | 80.6   |
| 150         | B  | 220    | 203    |
|             | BV | 225    | 207    |
|             | Ot | 66.5   | 69.6   |
| 160         | B  | 216    | 199    |
|             | BV | 221    | 203    |
|             | Ot | 56.2   | 59.5   |
| 170         | B  | 212    | 195    |
|             | BV | 216    | 198    |
|             | Ot | 46.7   | 50.7   |
| 180         | B  | 206    | 191    |
|             | BV | 212    | 194    |
|             | Ot | 39.4   | 42.6   |
| 190         | B  | 201    | 186    |
|             | BV | 207    | 190    |
|             | Ot | 32.8   | 35.7   |
| 200         | B  | 195    | 180    |
|             | BV | 203    | 185    |
|             | Ot | 19.7   | 22.8   |
| 220         | B  | 186    | 172    |
|             | BV | 194    | 176    |
|             | Ot |        |        |
| 240         | B  | 176    | 159    |
|             | BV | 183    | 168    |
|             | Ot |        |        |
| 260         | B  | 160    | 152    |
|             | BV | 171    | 160    |
|             | Ot |        |        |
| 280         | B  | 142    | 143    |
|             | BV | 157    | 152    |
|             | Ot |        |        |
| 300         | B  | 127    | 129    |
|             | BV | 144    | 144    |
|             | Ot |        |        |
| 320         | B  | 113    | 115    |
|             | BV | 131    | 133    |
|             | Ot |        |        |
| 340         | B  | 100    | 102    |
|             | BV | 119    | 121    |
|             | Ot |        |        |
| 360         | B  | 89     | 91.4   |
|             | BV | 107    | 109    |
|             | Ot |        |        |
| 380         | B  | 79.4   | 81.1   |
|             | BV | 95.8   | 97.8   |
|             | Ot |        |        |
| 400         | B  | 70     | 71.9   |
|             | BV | 85.5   | 87.7   |
|             | Ot |        |        |
| 420         | B  | 61.5   | 63.5   |
|             | BV | 76.3   | 78.5   |
|             | Ot |        |        |
| 440         | B  |        | 55.4   |
|             | BV |        | 68.9   |
|             | Ot |        |        |
| 460         | B  |        |        |
|             | BV |        |        |
|             | Ot |        |        |
| 490         | B  |        |        |
|             | BV |        |        |
|             | Ot |        |        |
| 520         | B  |        |        |
|             | BV |        |        |

| HSL3 472 ft |    |        |        |
|-------------|----|--------|--------|
| ft          |    | F39 ft | F49 ft |
|             |    | 10°    |        |
| 70          | Ot | 233    | 214    |
|             | B  | 233    | 214    |
|             | BV | 234    |        |
|             | Ot | 210    | 207    |
| 80          | B  | 230    | 212    |
|             | BV | 232    | 213    |
|             | Ot | 182    | 182    |
| 90          | B  | 228    | 210    |
|             | BV | 230    | 212    |
|             | Ot | 158    | 158    |
| 100         | B  | 226    | 208    |
|             | BV | 228    | 210    |
|             | Ot | 136    | 137    |
| 110         | B  | 224    | 206    |
|             | BV | 226    | 208    |
|             | Ot | 119    | 120    |
| 120         | B  | 221    | 204    |
|             | BV | 224    | 206    |
|             | Ot | 103    | 104    |
| 130         | B  | 218    | 201    |
|             | BV | 221    | 203    |
|             | Ot | 89.4   | 89.9   |
| 140         | B  | 214    | 197    |
|             | BV | 218    | 200    |
|             | Ot | 76.8   | 78     |
| 150         | B  | 210    | 193    |
|             | BV | 214    | 196    |
|             | Ot | 66.2   | 66.8   |
| 160         | B  | 205    | 188    |
|             | BV | 209    | 191    |
|             | Ot | 56.9   | 57.6   |
| 170         | B  | 201    | 184    |
|             | BV | 205    | 187    |
|             | Ot | 47.4   | 48     |
| 180         | B  | 195    | 180    |
|             | BV | 200    | 182    |
|             | Ot | 39.3   | 40.1   |
| 190         | B  | 190    | 176    |
|             | BV | 195    | 178    |
|             | Ot | 32.6   | 33.2   |
| 200         | B  | 185    | 171    |
|             | BV | 191    | 172    |
|             | Ot | 20.4   | 21.3   |
| 220         | B  | 176    | 157    |
|             | BV | 182    | 162    |
|             | Ot |        |        |
| 240         | B  | 164    | 148    |
|             | BV | 172    | 152    |
|             | Ot |        |        |
| 260         | B  | 154    | 138    |
|             | BV | 163    | 143    |
|             | Ot |        |        |
| 280         | B  | 142    | 131    |
|             | BV | 154    | 136    |
|             | Ot |        |        |
| 300         | B  | 126    | 124    |
|             | BV | 143    | 129    |
|             | Ot |        |        |
| 320         | B  | 112    | 113    |
|             | BV | 131    | 123    |
|             | Ot |        |        |
| 340         | B  | 99.9   | 100    |
|             | BV | 118    | 117    |
|             | Ot |        |        |
| 360         | B  | 88.9   | 89.4   |
|             | BV | 106    | 107    |
|             | Ot |        |        |
| 380         | B  | 78.7   | 78.9   |
|             | BV | 95.3   | 95.7   |
|             | Ot |        |        |
| 400         | B  | 69.9   | 70.3   |
|             | BV | 85.6   | 86.1   |
|             | Ot |        |        |
| 420         | B  | 61.3   | 61.8   |
|             | BV | 76.1   | 76.8   |
|             | Ot |        |        |
| 440         | B  | 53.4   | 53.9   |
|             | BV | 66.5   | 67.8   |
|             | Ot |        |        |
| 460         | B  |        | 47.8   |
|             | BV |        | 59.8   |
|             | Ot |        |        |
| 490         | B  |        |        |
|             | BV |        |        |
|             | Ot |        |        |
| 520         | B  |        |        |
|             | BV |        |        |

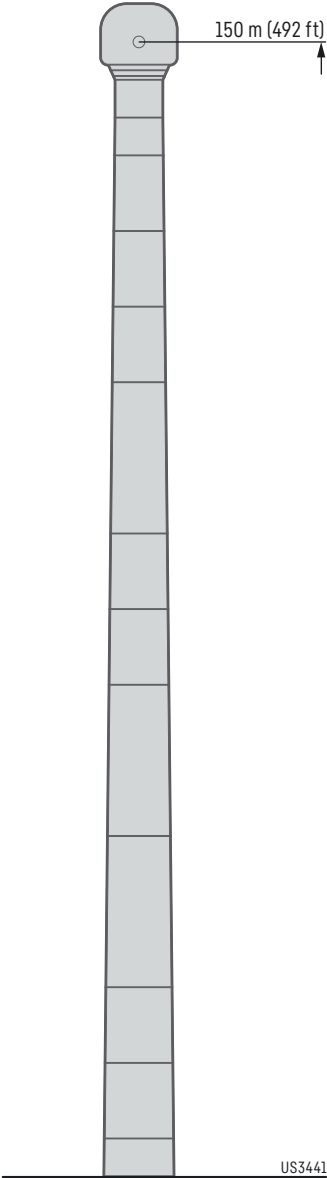


# HSL3ADFB/BV

# HSL3A 482



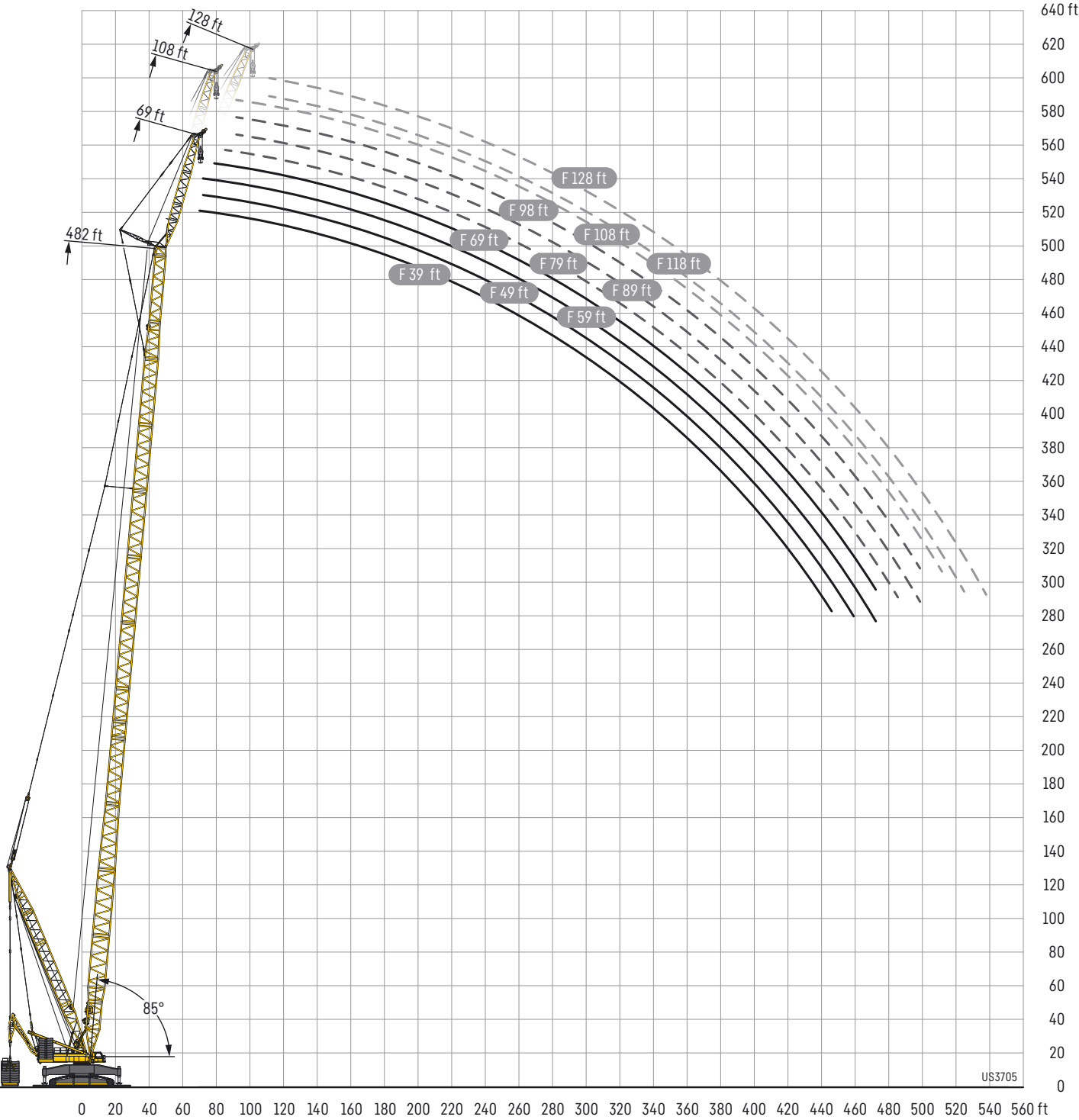
|  |               | HSL3 482 ft |        |        |        |        |        |        |         |         |         |
|----------------------------------------------------------------------------------|---------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
|                                                                                  |               | F39 ft      | F49 ft | F59 ft | F69 ft | F79 ft | F89 ft | F98 ft | F108 ft | F118 ft | F128 ft |
|                                                                                  |               | 10°         |        |        |        | 15°    |        |        |         | 30°     |         |
| 70                                                                               | Ot<br>B<br>BV | 222<br>222  | 206    |        |        |        |        |        |         |         |         |
| 80                                                                               | Ot            | 206         | 202    | 190    | 178    |        |        |        |         |         |         |
|                                                                                  | B             | 221         | 204    | 190    | 178    |        |        |        |         |         |         |
|                                                                                  | BV            | 222         | 205    | 191    | 178    |        |        |        |         |         |         |
| 90                                                                               | Ot            | 178         | 178    | 177    | 174    | 158    |        |        |         |         |         |
|                                                                                  | B             | 219         | 202    | 189    | 177    | 158    |        |        |         |         |         |
|                                                                                  | BV            | 221         | 204    | 190    | 178    | 158    |        |        |         |         |         |
| 100                                                                              | Ot            | 152         | 154    | 153    | 153    | 154    |        |        |         |         |         |
|                                                                                  | B             | 217         | 201    | 187    | 175    | 156    |        |        |         |         |         |
|                                                                                  | BV            | 219         | 202    | 188    | 176    | 157    | 148    | 139    | 132     |         |         |
| 110                                                                              | Ot            | 132         | 133    | 134    | 134    | 138    |        |        |         |         |         |
|                                                                                  | B             | 215         | 199    | 185    | 174    | 155    |        |        |         |         |         |
|                                                                                  | BV            | 217         | 200    | 187    | 175    | 155    | 143    | 134    | 127     | 83.1    | 79.4    |
| 120                                                                              | Ot            | 114         | 115    | 116    | 116    | 120    |        |        |         |         |         |
|                                                                                  | B             | 213         | 197    | 183    | 172    | 150    |        |        |         |         |         |
|                                                                                  | BV            | 215         | 198    | 185    | 173    | 150    | 138    | 129    | 122     | 80.6    | 76.5    |
| 130                                                                              | Ot            | 99.3        | 99.9   | 101    | 100    | 105    |        |        |         |         |         |
|                                                                                  | B             | 210         | 194    | 181    | 169    | 145    |        |        |         |         |         |
|                                                                                  | BV            | 213         | 196    | 183    | 170    | 145    | 132    | 124    | 117     | 77.9    | 74.1    |
| 140                                                                              | Ot            | 84.8        | 86.4   | 87     | 87.5   | 90.6   |        |        |         |         |         |
|                                                                                  | B             | 206         | 191    | 177    | 166    | 140    |        |        |         |         |         |
|                                                                                  | BV            | 210         | 194    | 180    | 168    | 140    | 128    | 119    | 112     | 75.3    | 71.4    |
| 150                                                                              | Ot            | 73.1        | 74.4   | 74.9   | 75.1   | 79     |        |        |         |         |         |
|                                                                                  | B             | 202         | 187    | 174    | 162    | 135    |        |        |         |         |         |
|                                                                                  | BV            | 207         | 191    | 176    | 164    | 135    | 123    | 115    | 108     | 72.9    | 68.9    |
| 160                                                                              | Ot            | 63          | 63     | 64     | 64.1   | 67.7   |        |        |         |         |         |
|                                                                                  | B             | 199         | 183    | 170    | 159    | 131    |        |        |         |         |         |
|                                                                                  | BV            | 203         | 187    | 173    | 161    | 131    | 119    | 110    | 104     | 70.6    | 66.8    |
| 170                                                                              | Ot            | 52.9        | 53.8   | 54.7   | 54.5   | 57.5   |        |        |         |         |         |
|                                                                                  | B             | 195         | 180    | 167    | 155    | 126    |        |        |         |         |         |
|                                                                                  | BV            | 199         | 183    | 169    | 157    | 126    | 115    | 107    | 100     | 68.4    | 64.5    |
| 180                                                                              | Ot            | 44.3        | 45.2   | 46.2   | 46     | 49.5   |        |        |         |         |         |
|                                                                                  | B             | 190         | 176    | 163    | 151    | 123    |        |        |         |         |         |
|                                                                                  | BV            | 195         | 180    | 166    | 153    | 123    | 111    | 103    | 96.3    | 66.4    | 62.5    |
| 190                                                                              | Ot            | 36.2        | 36.8   | 38.2   | 37.9   | 41.4   |        |        |         |         |         |
|                                                                                  | B             | 186         | 172    | 159    | 147    | 119    |        |        |         |         |         |
|                                                                                  | BV            | 191         | 176    | 162    | 149    | 119    | 108    | 99.6   | 93.1    | 64.5    | 60.5    |
| 200                                                                              | Ot            | 28.2        | 30.1   | 30.7   | 31.1   | 33.8   |        |        |         |         |         |
|                                                                                  | B             | 181         | 169    | 155    | 143    | 116    |        |        |         |         |         |
|                                                                                  | BV            | 187         | 172    | 157    | 144    | 116    | 105    | 96.6   | 89.7    | 62.6    | 58.6    |
| 220                                                                              | Ot            | 15.9        |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 172         | 159    | 147    | 136    | 110    |        |        |         |         |         |
|                                                                                  | BV            | 179         | 164    | 149    | 136    | 109    | 98.4   | 90.9   | 84.2    | 59.3    | 55.2    |
| 240                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 165         | 150    | 136    | 128    | 104    |        |        |         |         |         |
|                                                                                  | BV            | 172         | 156    | 140    | 128    | 104    | 93.3   | 85.6   | 79.1    | 56.4    | 52.2    |
| 260                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 155         | 140    | 129    | 118    | 99     |        |        |         |         |         |
|                                                                                  | BV            | 163         | 148    | 133    | 120    | 98.9   | 88.3   | 81     | 74.4    | 53.6    | 49.5    |
| 280                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 139         | 134    | 120    | 111    | 94.2   |        |        |         |         |         |
|                                                                                  | BV            | 151         | 140    | 126    | 114    | 94.6   | 84.4   | 76.9   | 70.6    | 51.1    | 47.1    |
| 300                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 123         | 123    | 116    | 104    | 90.3   |        |        |         |         |         |
|                                                                                  | BV            | 138         | 134    | 120    | 109    | 90.7   | 80.5   | 73.2   | 66.9    | 48.9    | 44.8    |
| 320                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 110         | 110    | 109    | 99.9   | 86.9   |        |        |         |         |         |
|                                                                                  | BV            | 126         | 125    | 114    | 104    | 87.3   | 77.2   | 70     | 63.7    | 46.9    | 42.8    |
| 340                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 97          | 97.8   | 98.4   | 93.4   | 83.6   |        |        |         |         |         |
|                                                                                  | BV            | 114         | 114    | 109    | 99.5   | 84.2   | 74.2   | 67     | 60.9    | 45.2    | 41      |
| 360                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 86.1        | 86.4   | 87.2   | 86.2   | 81     |        |        |         |         |         |
|                                                                                  | BV            | 103         | 103    | 103    | 95.4   | 81.4   | 71.5   | 64.4   | 58.4    | 43.7    | 39.5    |
| 380                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 75.9        | 76.4   | 77.2   | 77.4   | 76.7   |        |        |         |         |         |
|                                                                                  | BV            | 92.7        | 93.1   | 93.2   | 89.7   | 78.7   | 69     | 62     | 56      | 42.3    | 38.1    |
| 400                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 66.9        | 67.2   | 68     | 68.1   | 69.2   |        |        |         |         |         |
|                                                                                  | BV            | 82.8        | 83.3   | 83.8   | 83.5   | 76.4   | 66.8   | 59.9   | 53.8    | 41      | 36.8    |
| 420                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 58.5        | 58.8   | 60     | 60.2   | 61.3   |        |        |         |         |         |
|                                                                                  | BV            | 73.2        | 74     | 75.3   | 75.2   | 72.8   | 64.7   | 57.9   | 51.9    | 39.8    | 35.6    |
| 440                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             | 50.9        | 51.3   | 52.3   | 52.4   | 53.9   |        |        |         |         |         |
|                                                                                  | BV            | 64          | 64.7   | 66.2   | 66.4   | 67     | 62.8   | 56.1   | 50.2    | 38.9    | 34.6    |
| 460                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             |             | 44.2   | 45.3   | 45.6   | 46.7   |        |        |         |         |         |
|                                                                                  | BV            |             | 55.5   | 57.2   | 57.8   | 59.7   | 59.9   | 54.5   | 48.6    | 38.1    | 33.7    |
| 490                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             |             |        |        |        | 36.9   |        |        |         |         |         |
|                                                                                  | BV            |             |        |        |        | 47.3   | 48.1   | 48.9   | 46.1    | 37.2    | 32.8    |
| 520                                                                              | Ot            |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | B             |             |        |        |        |        |        |        |         |         |         |
|                                                                                  | BV            |             |        |        |        |        |        |        |         | 36.3    | 32.1    |



# Lifting heights

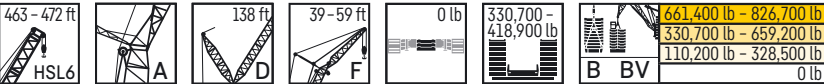
## Hauteurs de levage

HSL3ADFB/BV



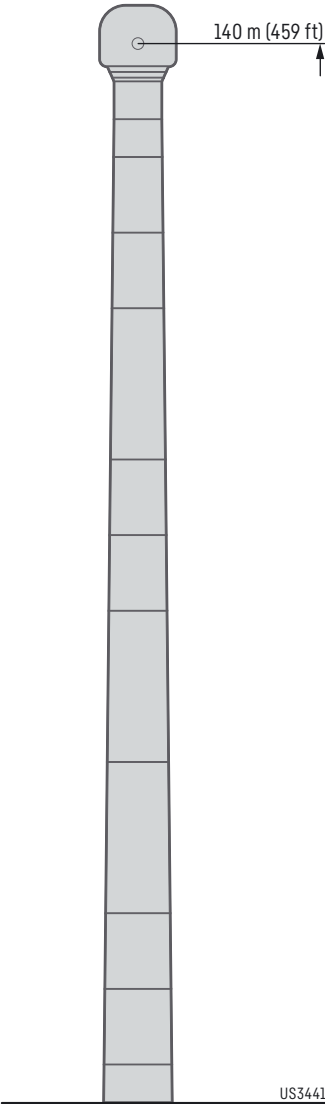
# HSL6ADFB/BV

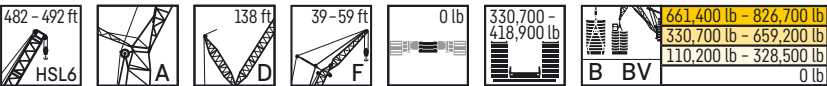
# HSL6A 463 – 472



|     |         | HSL6 463 ft |            |       |
|-----|---------|-------------|------------|-------|
|     |         | F39ft       | F49ft      | F59ft |
|     |         | 10°         |            |       |
| 70  | ft      |             |            |       |
|     | Ot      | 242         | 241        |       |
|     | B<br>BV | 286<br>289  | 260<br>262 |       |
| 80  | Ot      | 209         | 209        | 208   |
|     | B       | 286         | 260        | 238   |
|     | BV      | 289         | 262        | 240   |
| 90  | Ot      | 178         | 180        | 179   |
|     | B       | 284         | 259        | 238   |
|     | BV      | 288         | 262        | 240   |
| 100 | Ot      | 154         | 154        | 155   |
|     | B       | 283         | 258        | 236   |
|     | BV      | 287         | 261        | 238   |
| 110 | Ot      | 133         | 134        | 135   |
|     | B       | 280         | 256        | 230   |
|     | BV      | 287         | 260        | 231   |
| 120 | Ot      | 114         | 116        | 117   |
|     | B       | 277         | 254        | 222   |
|     | BV      | 286         | 259        | 223   |
| 130 | Ot      | 99.1        | 99.7       | 101   |
|     | B       | 274         | 251        | 214   |
|     | BV      | 285         | 256        | 215   |
| 140 | Ot      | 84.8        | 86.3       | 86.6  |
|     | B       | 269         | 246        | 206   |
|     | BV      | 282         | 248        | 207   |
| 150 | Ot      | 72.4        | 73.3       | 74.6  |
|     | B       | 263         | 238        | 199   |
|     | BV      | 279         | 239        | 200   |
| 160 | Ot      | 61.6        | 62.3       | 63.2  |
|     | B       | 257         | 228        | 191   |
|     | BV      | 274         | 230        | 193   |
| 170 | Ot      | 51.4        | 52.3       | 53.9  |
|     | B       | 250         | 220        | 185   |
|     | BV      | 268         | 222        | 186   |
| 180 | Ot      | 42.1        | 43.7       | 44.3  |
|     | B       | 236         | 212        | 178   |
|     | BV      | 260         | 215        | 179   |
| 190 | Ot      | 33.3        | 35.1       | 36.7  |
|     | B       | 221         | 206        | 173   |
|     | BV      | 252         | 208        | 174   |
| 200 | Ot      | 26.1        | 27.5       |       |
|     | B       | 207         | 198        | 167   |
|     | BV      | 242         | 202        | 168   |
| 220 | Ot      | 13.5        | 14.6       |       |
|     | B       | 180         | 179        | 157   |
|     | BV      | 222         | 190        | 158   |
| 240 | Ot      |             |            |       |
|     | B       | 158         | 158        | 148   |
|     | BV      | 197         | 180        | 149   |
| 260 | Ot      |             |            |       |
|     | B       | 138         | 138        | 138   |
|     | BV      | 175         | 169        | 142   |
| 280 | Ot      |             |            |       |
|     | B       | 121         | 121        | 122   |
|     | BV      | 155         | 156        | 135   |
| 300 | Ot      |             |            |       |
|     | B       | 106         | 106        | 107   |
|     | BV      | 139         | 139        | 129   |
| 320 | Ot      |             |            |       |
|     | B       | 92.8        | 93.3       | 94.2  |
|     | BV      | 124         | 124        | 120   |
| 340 | Ot      |             |            |       |
|     | B       | 80.8        | 81.2       | 82.1  |
|     | BV      | 110         | 111        | 110   |
| 360 | Ot      |             |            |       |
|     | B       | 70          | 70.6       | 71.6  |
|     | BV      | 98.2        | 98.8       | 99.7  |
| 380 | Ot      |             |            |       |
|     | B       | 60          | 60.5       | 61.4  |
|     | BV      | 87.5        | 87.8       | 88.4  |
| 400 | Ot      |             |            |       |
|     | B       | 50.4        | 51.1       | 52.6  |
|     | BV      | 77.2        | 77.9       | 79.1  |
| 420 | Ot      |             |            |       |
|     | B       | 42.1        | 42.8       | 43.9  |
|     | BV      | 68.1        | 68.9       | 69.9  |
| 440 | Ot      |             |            |       |
|     | B       |             | 35         | 36.2  |
|     | BV      |             | 60.3       | 61.5  |
| 460 | Ot      |             |            |       |
|     | B       |             |            |       |
|     | BV      |             |            |       |
| 490 | Ot      |             |            |       |
|     | B       |             |            |       |
|     | BV      |             |            |       |
| 520 | Ot      |             |            |       |
|     | B       |             |            |       |
|     | BV      |             |            |       |

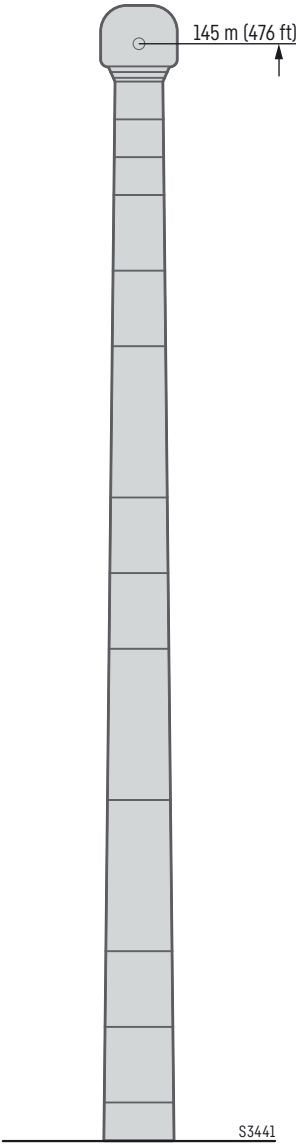
|     |         | HSL6 472 ft |            |       |
|-----|---------|-------------|------------|-------|
|     |         | F39ft       | F49ft      | F59ft |
|     |         | 10°         |            |       |
| 70  | ft      |             |            |       |
|     | Ot      | 240         |            |       |
|     | B<br>BV | 276<br>278  | 252<br>253 |       |
| 80  | Ot      | 203         | 204        | 209   |
|     | B       | 275         | 251        | 231   |
|     | BV      | 278         | 253        | 232   |
| 90  | Ot      | 175         | 175        | 180   |
|     | B       | 272         | 249        | 230   |
|     | BV      | 277         | 252        | 232   |
| 100 | Ot      | 152         | 151        | 155   |
|     | B       | 270         | 247        | 229   |
|     | BV      | 276         | 252        | 231   |
| 110 | Ot      | 129         | 130        | 134   |
|     | B       | 267         | 244        | 228   |
|     | BV      | 274         | 250        | 231   |
| 120 | Ot      | 112         | 113        | 116   |
|     | B       | 264         | 242        | 225   |
|     | BV      | 272         | 248        | 229   |
| 130 | Ot      | 95.5        | 97.5       | 101   |
|     | B       | 260         | 238        | 219   |
|     | BV      | 269         | 245        | 222   |
| 140 | Ot      | 82.2        | 82.7       | 86.9  |
|     | B       | 255         | 233        | 211   |
|     | BV      | 266         | 242        | 213   |
| 150 | Ot      | 69.5        | 70.8       | 74.7  |
|     | B       | 249         | 229        | 204   |
|     | BV      | 262         | 236        | 205   |
| 160 | Ot      | 58.6        | 59.5       | 63.1  |
|     | B       | 243         | 222        | 196   |
|     | BV      | 257         | 228        | 198   |
| 170 | Ot      | 49.3        | 50.3       | 53.9  |
|     | B       | 238         | 217        | 190   |
|     | BV      | 252         | 220        | 191   |
| 180 | Ot      | 40.2        | 40.7       | 45.2  |
|     | B       | 228         | 210        | 184   |
|     | BV      | 247         | 213        | 185   |
| 190 | Ot      | 31.8        | 33.3       | 36.7  |
|     | B       | 215         | 204        | 177   |
|     | BV      | 241         | 206        | 179   |
| 200 | Ot      |             |            | 29.6  |
|     | B       | 203         | 197        | 172   |
|     | BV      | 234         | 200        | 173   |
| 220 | Ot      |             |            |       |
|     | B       | 178         | 178        | 161   |
|     | BV      | 218         | 188        | 163   |
| 240 | Ot      |             |            |       |
|     | B       | 156         | 156        | 152   |
|     | BV      | 194         | 179        | 154   |
| 260 | Ot      |             |            |       |
|     | B       | 135         | 136        | 138   |
|     | BV      | 172         | 168        | 146   |
| 280 | Ot      |             |            |       |
|     | B       | 118         | 119        | 122   |
|     | BV      | 153         | 153        | 140   |
| 300 | Ot      |             |            |       |
|     | B       | 104         | 104        | 107   |
|     | BV      | 136         | 137        | 134   |
| 320 | Ot      |             |            |       |
|     | B       | 90.6        | 91.3       | 94.4  |
|     | BV      | 122         | 122        | 124   |
| 340 | Ot      |             |            |       |
|     | B       | 78.4        | 78.9       | 81.9  |
|     | BV      | 108         | 109        | 111   |
| 360 | Ot      |             |            |       |
|     | B       | 67.8        | 68.4       | 71.1  |
|     | BV      | 96.4        | 97         | 99.7  |
| 380 | Ot      |             |            |       |
|     | B       | 57.7        | 58.3       | 61.6  |
|     | BV      | 85.5        | 85.8       | 89.1  |
| 400 | Ot      |             |            |       |
|     | B       | 48.7        | 49.4       | 52.2  |
|     | BV      | 75.8        | 76.3       | 79    |
| 420 | Ot      |             |            |       |
|     | B       | 40.2        | 40.8       | 43.7  |
|     | BV      | 66.6        | 67.2       | 70    |
| 440 | Ot      |             |            |       |
|     | B       | 32.7        | 33.2       | 35.9  |
|     | BV      | 58.2        | 58.8       | 61.5  |
| 460 | Ot      |             |            |       |
|     | B       |             |            | 29.3  |
|     | BV      |             |            | 53.7  |
| 490 | Ot      |             |            |       |
|     | B       |             |            |       |
|     | BV      |             |            |       |
| 520 | Ot      |             |            |       |
|     | B       |             |            |       |
|     | BV      |             |            |       |





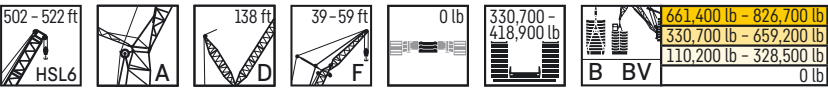
|     |    | HSL6 482 ft |         |         |
|-----|----|-------------|---------|---------|
|     |    | F 39 ft     | F 49 ft | F 59 ft |
|     |    | 10°         |         |         |
| ft  | Ot | 233         |         |         |
|     | B  | 264         | 241     |         |
| 70  | BV | 266         | 244     |         |
|     | Ot | 200         | 200     | 203     |
| 80  | B  | 261         | 240     | 223     |
|     | BV | 265         | 242     | 224     |
| 90  | Ot | 171         | 172     | 174     |
|     | B  | 259         | 237     | 221     |
| 100 | BV | 263         | 241     | 224     |
|     | Ot | 145         | 147     | 150     |
| 110 | B  | 256         | 235     | 219     |
|     | BV | 261         | 239     | 222     |
| 120 | Ot | 125         | 126     | 131     |
|     | B  | 253         | 232     | 217     |
| 130 | BV | 259         | 237     | 220     |
|     | Ot | 108         | 109     | 113     |
| 140 | B  | 250         | 229     | 213     |
|     | BV | 257         | 234     | 218     |
| 150 | Ot | 92.3        | 93      | 96.8    |
|     | B  | 246         | 225     | 210     |
| 160 | BV | 254         | 231     | 214     |
|     | Ot | 77.7        | 79.4    | 82.9    |
| 170 | B  | 241         | 220     | 205     |
|     | BV | 250         | 228     | 209     |
| 180 | Ot | 65.8        | 67.3    | 70.6    |
|     | B  | 236         | 215     | 199     |
| 190 | BV | 246         | 223     | 202     |
|     | Ot | 55.6        | 55.8    | 59.6    |
| 200 | B  | 228         | 209     | 193     |
|     | BV | 240         | 217     | 195     |
| 210 | Ot | 45.5        | 46.6    | 50.2    |
|     | B  | 222         | 202     | 188     |
| 220 | BV | 234         | 212     | 188     |
|     | Ot | 37          | 37.9    | 41.6    |
| 230 | B  | 216         | 197     | 182     |
|     | BV | 229         | 206     | 183     |
| 240 | Ot | 29.1        | 29.8    | 33.7    |
|     | B  | 206         | 189     | 175     |
| 250 | BV | 223         | 199     | 177     |
|     | Ot |             | 23.1    | 26.5    |
| 260 | B  | 196         | 182     | 169     |
|     | BV | 217         | 193     | 171     |
| 270 | Ot |             |         |         |
|     | B  | 174         | 167     | 157     |
| 280 | BV | 205         | 180     | 162     |
|     | Ot |             |         |         |
| 290 | B  | 152         | 152     | 146     |
|     | BV | 188         | 168     | 153     |
| 300 | Ot |             |         |         |
|     | B  | 132         | 133     | 134     |
| 310 | BV | 168         | 158     | 145     |
|     | Ot |             |         |         |
| 320 | B  | 116         | 116     | 119     |
|     | BV | 150         | 148     | 137     |
| 330 | Ot |             |         |         |
|     | B  | 100         | 101     | 105     |
| 340 | BV | 133         | 134     | 130     |
|     | Ot |             |         |         |
| 350 | B  | 87.1        | 87.9    | 90.8    |
|     | BV | 118         | 119     | 122     |
| 360 | Ot |             |         |         |
|     | B  | 74.9        | 75.9    | 79.2    |
| 370 | BV | 105         | 106     | 109     |
|     | Ot |             |         |         |
| 380 | B  | 64.4        | 64.8    | 68      |
|     | BV | 93.4        | 93.8    | 96.7    |
| 390 | Ot |             |         |         |
|     | B  | 54.7        | 55.3    | 58.2    |
| 400 | BV | 82.6        | 83.3    | 85.9    |
|     | Ot |             |         |         |
| 410 | B  | 45.5        | 46.1    | 49.1    |
|     | BV | 73          | 73.5    | 76      |
| 420 | Ot |             |         |         |
|     | B  | 37.1        | 37.8    | 41      |
| 430 | BV | 63.9        | 64.5    | 67.5    |
|     | Ot |             |         |         |
| 440 | B  | 29.9        | 30.5    | 33.3    |
|     | BV | 55.6        | 56.2    | 58.9    |
| 450 | Ot |             |         |         |
|     | B  |             | 24.6    | 26.7    |
| 460 | BV |             | 48.6    | 51.1    |
|     | Ot |             |         |         |
| 470 | B  |             |         |         |
|     | BV |             |         |         |
| 480 | Ot |             |         |         |
|     | B  |             |         |         |
| 490 | BV |             |         |         |
|     | Ot |             |         |         |
| 500 | B  |             |         |         |
|     | BV |             |         |         |

|     |    | HSL6 492 ft |         |         |
|-----|----|-------------|---------|---------|
|     |    | F 39 ft     | F 49 ft | F 59 ft |
|     |    | 10°         |         |         |
| ft  | Ot | 229         |         |         |
|     | B  | 249         |         |         |
| 70  | BV | 251         |         |         |
|     | Ot | 196         | 199     | 199     |
| 80  | B  | 248         | 229     | 212     |
|     | BV | 251         | 230     | 212     |
| 90  | Ot | 168         | 171     | 171     |
|     | B  | 246         | 228     | 211     |
| 100 | BV | 250         | 230     | 212     |
|     | Ot | 144         | 147     | 149     |
| 110 | B  | 244         | 226     | 210     |
|     | BV | 249         | 229     | 211     |
| 120 | Ot | 124         | 128     | 128     |
|     | B  | 242         | 224     | 208     |
| 130 | BV | 248         | 228     | 211     |
|     | Ot | 106         | 110     | 111     |
| 140 | B  | 240         | 222     | 206     |
|     | BV | 246         | 227     | 210     |
| 150 | Ot | 91.1        | 94.7    | 95.7    |
|     | B  | 237         | 219     | 204     |
| 160 | BV | 244         | 225     | 209     |
|     | Ot | 77.6        | 81      | 81.8    |
| 170 | B  | 233         | 215     | 200     |
|     | BV | 242         | 223     | 206     |
| 180 | Ot | 65.7        | 68.8    | 70.7    |
|     | B  | 228         | 211     | 196     |
| 190 | BV | 239         | 220     | 204     |
|     | Ot | 55.4        | 58.2    | 59.7    |
| 200 | B  | 224         | 208     | 193     |
|     | BV | 235         | 216     | 199     |
| 210 | Ot | 45.4        | 49      | 50.1    |
|     | B  | 219         | 203     | 188     |
| 220 | BV | 231         | 213     | 192     |
|     | Ot | 36.8        | 40.4    | 41.4    |
| 230 | B  | 213         | 199     | 183     |
|     | BV | 228         | 209     | 186     |
| 240 | Ot | 29.7        | 32.8    | 33.3    |
|     | B  | 204         | 194     | 178     |
| 250 | BV | 224         | 205     | 180     |
|     | Ot |             | 26.2    | 26.9    |
| 260 | B  | 195         | 190     | 172     |
|     | BV | 219         | 201     | 174     |
| 270 | Ot |             |         |         |
|     | B  | 174         | 176     | 162     |
| 280 | BV | 208         | 193     | 164     |
|     | Ot |             |         |         |
| 290 | B  | 152         | 154     | 152     |
|     | BV | 190         | 184     | 155     |
| 300 | Ot |             |         |         |
|     | B  | 133         | 136     | 136     |
| 310 | BV | 169         | 170     | 148     |
|     | Ot |             |         |         |
| 320 | B  | 116         | 118     | 119     |
|     | BV | 150         | 153     | 141     |
| 330 | Ot |             |         |         |
|     | B  | 101         | 104     | 105     |
| 340 | BV | 133         | 136     | 133     |
|     | Ot |             |         |         |
| 350 | B  | 87.9        | 90.3    | 91.5    |
|     | BV | 119         | 122     | 122     |
| 360 | Ot |             |         |         |
|     | B  | 75.8        | 78.8    | 79.6    |
| 370 | BV | 106         | 109     | 110     |
|     | Ot |             |         |         |
| 380 | B  | 65.4        | 67.7    | 68.8    |
|     | BV | 94.2        | 96.3    | 97.5    |
| 390 | Ot |             |         |         |
|     | B  | 55.5        | 58.2    | 59.2    |
| 400 | BV | 83.2        | 85.9    | 86.9    |
|     | Ot |             |         |         |
| 410 | B  | 46.7        | 49.1    | 50.1    |
|     | BV | 73.9        | 76.1    | 76.9    |
| 420 | Ot |             |         |         |
|     | B  | 38.3        | 40.8    | 41.9    |
| 430 | BV | 64.9        | 67.3    | 68.3    |
|     | Ot |             |         |         |
| 440 | B  | 31          | 33.4    | 34.4    |
|     | BV | 56.7        | 59      | 60.1    |
| 450 | Ot |             |         |         |
|     | B  | 25.1        | 26.8    | 28      |
| 460 | BV | 49.2        | 51.2    | 52.3    |
|     | Ot |             |         |         |
| 470 | B  |             |         |         |
|     | BV |             |         |         |
| 480 | Ot |             |         |         |
|     | B  |             |         |         |
| 490 | BV |             |         |         |
|     | Ot |             |         |         |
| 500 | B  |             |         |         |
|     | BV |             |         |         |



# HSL6ADFB/BV

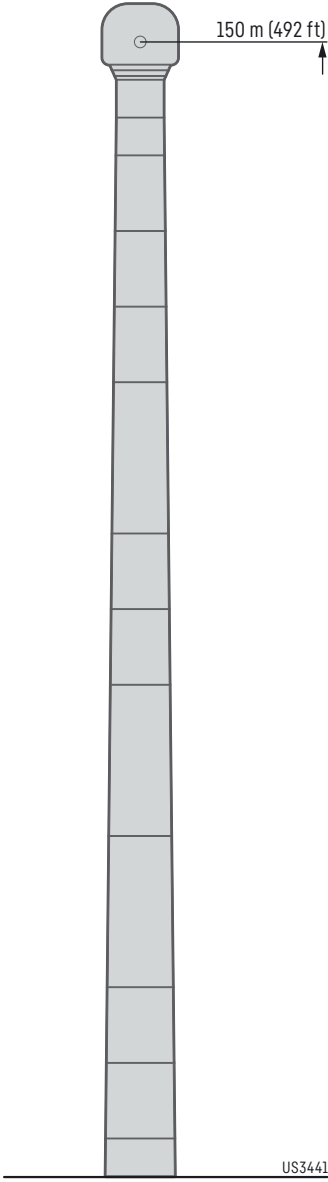
# HSL6A 502 – 522



|  |               | HSL6 502 ft        |                    |                    |
|----------------------------------------------------------------------------------|---------------|--------------------|--------------------|--------------------|
|                                                                                  |               | F39 ft             | F49 ft             | F59 ft             |
|                                                                                  |               | 10°                |                    |                    |
| 70                                                                               | Ot<br>B<br>BV | 222<br>238<br>240  |                    |                    |
| 80                                                                               | Ot<br>B<br>BV | 190<br>237<br>240  | 194<br>219<br>221  | 194<br>204<br>205  |
| 90                                                                               | Ot<br>B<br>BV | 162<br>235<br>239  | 168<br>218<br>220  | 168<br>202<br>204  |
| 100                                                                              | Ot<br>B<br>BV | 140<br>233<br>237  | 144<br>216<br>219  | 144<br>201<br>203  |
| 110                                                                              | Ot<br>B<br>BV | 120<br>231<br>236  | 123<br>214<br>217  | 124<br>199<br>202  |
| 120                                                                              | Ot<br>B<br>BV | 102<br>228<br>234  | 106<br>212<br>216  | 108<br>197<br>200  |
| 130                                                                              | Ot<br>B<br>BV | 86.7<br>225<br>232 | 90.8<br>209<br>214 | 91.8<br>194<br>199 |
| 140                                                                              | Ot<br>B<br>BV | 74.3<br>222<br>230 | 78.1<br>205<br>212 | 79.1<br>191<br>196 |
| 150                                                                              | Ot<br>B<br>BV | 62.3<br>217<br>226 | 65.8<br>201<br>208 | 66.6<br>187<br>193 |
| 160                                                                              | Ot<br>B<br>BV | 51.7<br>213<br>222 | 54.8<br>197<br>205 | 56.5<br>183<br>190 |
| 170                                                                              | Ot<br>B<br>BV | 42.4<br>209<br>219 | 45.4<br>193<br>201 | 46.7<br>179<br>186 |
| 180                                                                              | Ot<br>B<br>BV | 33<br>204<br>214   | 36.8<br>189<br>197 | 38.1<br>175<br>181 |
| 190                                                                              | Ot<br>B<br>BV | 26<br>197<br>210   | 28.9<br>184<br>193 | 30.1<br>172<br>177 |
| 200                                                                              | Ot<br>B<br>BV | 19.8<br>189<br>206 | 22.9<br>180<br>189 | 166<br>172         |
| 220                                                                              | Ot<br>B<br>BV | 170<br>198         | 169<br>181         | 157<br>163         |
| 240                                                                              | Ot<br>B<br>BV | 148<br>186         | 151<br>173         | 147<br>154         |
| 260                                                                              | Ot<br>B<br>BV | 129<br>165         | 132<br>164         | 133<br>147         |
| 280                                                                              | Ot<br>B<br>BV | 113<br>147         | 115<br>150         | 117<br>140         |
| 300                                                                              | Ot<br>B<br>BV | 97.4<br>130        | 100<br>133         | 101<br>133         |
| 320                                                                              | Ot<br>B<br>BV | 84.5<br>116        | 87.2<br>119        | 88.3<br>120        |
| 340                                                                              | Ot<br>B<br>BV | 72.5<br>103        | 75.4<br>106        | 76.6<br>107        |
| 360                                                                              | Ot<br>B<br>BV | 61.9<br>91.4       | 64.6<br>93.7       | 65.6<br>94.6       |
| 380                                                                              | Ot<br>B<br>BV | 52.3<br>80.7       | 54.9<br>83.1       | 55.9<br>83.9       |
| 400                                                                              | Ot<br>B<br>BV | 43.5<br>71.1       | 45.8<br>73.2       | 47.1<br>74.3       |
| 420                                                                              | Ot<br>B<br>BV | 35.3<br>62.3       | 37.7<br>64.6       | 38.8<br>65.5       |
| 440                                                                              | Ot<br>B<br>BV | 28.6<br>54.1       | 30.5<br>56.4       | 31.5<br>57.5       |
| 460                                                                              | Ot<br>B<br>BV | 22.6<br>46.4       | 24.5<br>48.6       | 25.6<br>49.9       |
| 490                                                                              | Ot<br>B<br>BV |                    |                    |                    |
| 520                                                                              | Ot<br>B<br>BV |                    |                    |                    |
| 550                                                                              | Ot<br>B<br>BV |                    |                    |                    |

|  |               | HSL6 512 ft |        |        |
|-----------------------------------------------------------------------------------|---------------|-------------|--------|--------|
|                                                                                   |               | F39 ft      | F49 ft | F59 ft |
|                                                                                   |               | 10°         |        |        |
| 70                                                                                | Ot<br>B<br>BV |             |        |        |
| 80                                                                                | Ot<br>B<br>BV | 229         |        |        |
| 90                                                                                | Ot<br>B<br>BV | 229         | 213    | 197    |
| 100                                                                               | Ot<br>B<br>BV | 228         | 210    | 196    |
| 110                                                                               | Ot<br>B<br>BV | 227         | 209    | 195    |
| 120                                                                               | Ot<br>B<br>BV | 225         | 208    | 193    |
| 130                                                                               | Ot<br>B<br>BV | 224         | 206    | 192    |
| 140                                                                               | Ot<br>B<br>BV | 222         | 204    | 190    |
| 150                                                                               | Ot<br>B<br>BV | 219         | 201    | 187    |
| 160                                                                               | Ot<br>B<br>BV | 216         | 199    | 184    |
| 170                                                                               | Ot<br>B<br>BV | 213         | 195    | 181    |
| 180                                                                               | Ot<br>B<br>BV | 210         | 192    | 178    |
| 190                                                                               | Ot<br>B<br>BV | 206         | 189    | 175    |
| 200                                                                               | Ot<br>B<br>BV | 202         | 186    | 171    |
| 220                                                                               | Ot<br>B<br>BV | 194         | 179    | 163    |
| 240                                                                               | Ot<br>B<br>BV | 186         | 172    | 156    |
| 260                                                                               | Ot<br>B<br>BV | 165         | 161    | 148    |
| 280                                                                               | Ot<br>B<br>BV | 147         | 147    | 140    |
| 300                                                                               | Ot<br>B<br>BV | 130         | 130    | 130    |
| 320                                                                               | Ot<br>B<br>BV | 116         | 116    | 117    |
| 340                                                                               | Ot<br>B<br>BV | 103         | 104    | 104    |
| 360                                                                               | Ot<br>B<br>BV | 90.7        | 91.5   | 92.2   |
| 380                                                                               | Ot<br>B<br>BV | 80.6        | 80.9   | 81.5   |
| 400                                                                               | Ot<br>B<br>BV | 70.8        | 71.2   | 72.1   |
| 420                                                                               | Ot<br>B<br>BV | 62.1        | 62.7   | 63.5   |
| 440                                                                               | Ot<br>B<br>BV | 54          | 54.3   | 55.6   |
| 460                                                                               | Ot<br>B<br>BV | 46.2        | 46.9   | 48     |
| 490                                                                               | Ot<br>B<br>BV |             |        | 37.5   |
| 520                                                                               | Ot<br>B<br>BV |             |        |        |
| 550                                                                               | Ot<br>B<br>BV |             |        |        |

|  |               | HSL6 522 ft |        |        |
|-----------------------------------------------------------------------------------|---------------|-------------|--------|--------|
|                                                                                   |               | F39 ft      | F49 ft | F59 ft |
|                                                                                   |               | 10°         |        |        |
| 70                                                                                | Ot<br>B<br>BV |             |        |        |
| 80                                                                                | Ot<br>B<br>BV | 219         |        |        |
| 90                                                                                | Ot<br>B<br>BV | 219         | 203    | 189    |
| 100                                                                               | Ot<br>B<br>BV | 218         | 201    | 187    |
| 110                                                                               | Ot<br>B<br>BV | 216         | 200    | 186    |
| 120                                                                               | Ot<br>B<br>BV | 214         | 198    | 184    |
| 130                                                                               | Ot<br>B<br>BV | 213         | 196    | 183    |
| 140                                                                               | Ot<br>B<br>BV | 210         | 194    | 180    |
| 150                                                                               | Ot<br>B<br>BV | 208         | 191    | 178    |
| 160                                                                               | Ot<br>B<br>BV | 204         | 188    | 174    |
| 170                                                                               | Ot<br>B<br>BV | 200         | 185    | 171    |
| 180                                                                               | Ot<br>B<br>BV | 197         | 182    | 168    |
| 190                                                                               | Ot<br>B<br>BV | 193         | 178    | 165    |
| 200                                                                               | Ot<br>B<br>BV | 190         | 175    | 161    |
| 220                                                                               | Ot<br>B<br>BV | 182         | 168    | 154    |
| 240                                                                               | Ot<br>B<br>BV | 175         | 161    | 146    |
| 260                                                                               | Ot<br>B<br>BV | 160         | 153    | 138    |
| 280                                                                               | Ot<br>B<br>BV | 143         | 142    | 131    |
| 300                                                                               | Ot<br>B<br>BV | 127         | 128    | 124    |
| 320                                                                               | Ot<br>B<br>BV | 112         | 113    | 114    |
| 340                                                                               | Ot<br>B<br>BV | 99.8        | 100    | 101    |
| 360                                                                               | Ot<br>B<br>BV | 87.6        | 89     | 89.9   |
| 380                                                                               | Ot<br>B<br>BV | 77.7        | 78.3   | 78.9   |
| 400                                                                               | Ot<br>B<br>BV | 68          | 68.4   | 69.5   |
| 420                                                                               | Ot<br>B<br>BV | 59.2        | 59.7   | 60.5   |
| 440                                                                               | Ot<br>B<br>BV | 51.2        | 51.7   | 52.8   |
| 460                                                                               | Ot<br>B<br>BV | 43.7        | 44.2   | 45.2   |
| 490                                                                               | Ot<br>B<br>BV |             | 34     | 35.1   |
| 520                                                                               | Ot<br>B<br>BV |             |        |        |
| 550                                                                               | Ot<br>B<br>BV |             |        |        |



HSL6ADFB/BV

HSL6A 531 – 541



531 - 541 ft

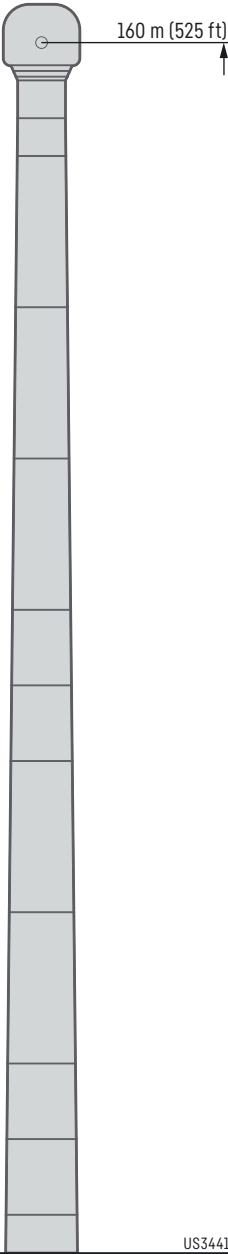
661,400 lb - 826,700 lb

330,700 lb - 659,200 lb

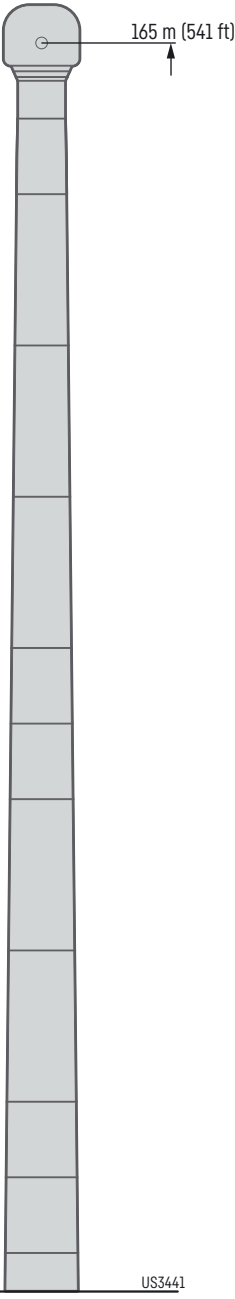
110,200 lb - 328,500 lb

0 lb

| HSL6 531 ft |               |         |         |
|-------------|---------------|---------|---------|
| ft          | Ot<br>B<br>BV | F 39 ft | F 49 ft |
|             |               | 10°     |         |
| 80          | BV            | 210     | 195     |
| 90          | BV            | 210     | 194     |
| 100         | BV            | 208     | 192     |
| 110         | BV            | 206     | 191     |
| 120         | BV            | 205     | 189     |
| 130         | BV            | 203     | 188     |
| 140         | BV            | 200     | 185     |
| 150         | BV            | 196     | 182     |
| 160         | BV            | 193     | 178     |
| 170         | BV            | 189     | 175     |
| 180         | BV            | 185     | 171     |
| 190         | BV            | 181     | 168     |
| 200         | BV            | 178     | 164     |
| 220         | BV            | 170     | 154     |
| 240         | BV            | 162     | 145     |
| 260         | BV            | 153     | 136     |
| 280         | BV            | 141     | 129     |
| 300         | BV            | 125     | 122     |
| 320         | BV            | 112     | 112     |
| 340         | BV            | 98.7    | 98.9    |
| 360         | BV            | 87.2    | 87.9    |
| 380         | BV            | 76.7    | 77.4    |
| 400         | BV            | 67.1    | 67.6    |
| 420         | BV            | 58.4    | 58.7    |
| 440         | BV            | 50.5    | 50.9    |
| 460         | BV            | 43.1    | 43.3    |
| 490         | BV            | 31.6    | 33.2    |
| 520         | BV            |         |         |
| 550         | BV            |         |         |
| 580         | BV            |         |         |



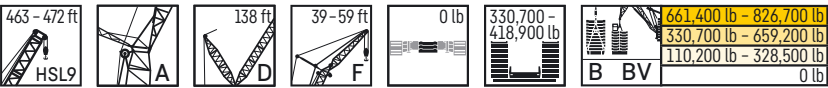
| HSL6 541 ft |               |         |         |
|-------------|---------------|---------|---------|
| ft          | Ot<br>B<br>BV | F 39 ft | F 49 ft |
|             |               | 10°     |         |
| 80          | BV            | 200     | 187     |
| 90          | BV            | 199     | 185     |
| 100         | BV            | 198     | 184     |
| 110         | BV            | 196     | 182     |
| 120         | BV            | 194     | 180     |
| 130         | BV            | 192     | 178     |
| 140         | BV            | 189     | 175     |
| 150         | BV            | 185     | 171     |
| 160         | BV            | 181     | 166     |
| 170         | BV            | 177     | 161     |
| 180         | BV            | 173     | 156     |
| 190         | BV            | 169     | 151     |
| 200         | BV            | 164     | 146     |
| 220         | BV            | 154     | 136     |
| 240         | BV            | 144     | 128     |
| 260         | BV            | 136     | 120     |
| 280         | BV            | 128     | 114     |
| 300         | BV            | 120     | 108     |
| 320         | BV            | 108     | 102     |
| 340         | BV            | 95.6    | 94.7    |
| 360         | BV            | 84.7    | 84.9    |
| 380         | BV            | 73.8    | 74.1    |
| 400         | BV            | 64.4    | 65      |
| 420         | BV            | 54.9    | 56.1    |
| 440         | BV            | 40.2    | 44.2    |
| 460         | BV            | 27      | 31.6    |
| 490         | BV            | 14.6    | 17.1    |





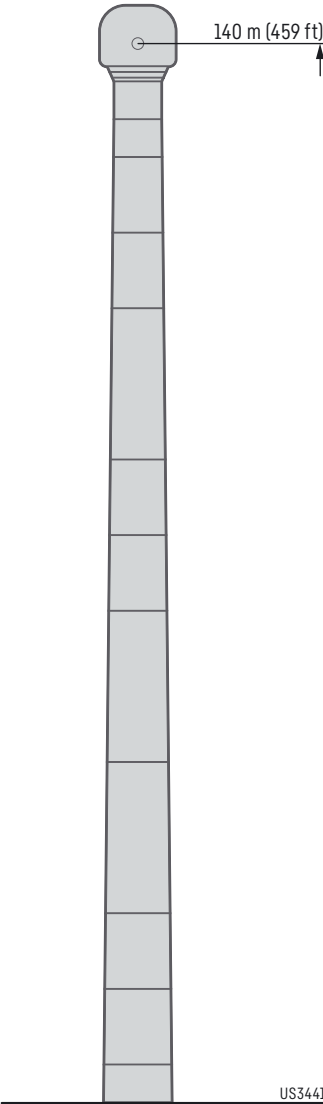
HSL9A(Z)DFB/BV

HSL9A 463 – 472



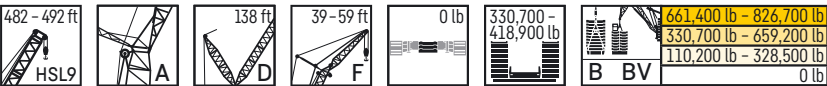
| HSL9 463 ft |    |         |         |
|-------------|----|---------|---------|
| ft          |    | F 39 ft | F 49 ft |
|             |    | 10°     |         |
| 70          | Ot | 237     | 236     |
|             | B  | 311     | 282     |
|             | BV | 314     | 284     |
| 80          | Ot | 203     | 203     |
|             | B  | 310     | 281     |
|             | BV | 314     | 284     |
| 90          | Ot | 173     | 175     |
|             | B  | 310     | 281     |
|             | BV | 314     | 284     |
| 100         | Ot | 149     | 149     |
|             | B  | 308     | 280     |
|             | BV | 314     | 283     |
| 110         | Ot | 127     | 128     |
|             | B  | 306     | 276     |
|             | BV | 313     | 279     |
| 120         | Ot | 108     | 111     |
|             | B  | 303     | 267     |
|             | BV | 312     | 269     |
| 130         | Ot | 93.2    | 94      |
|             | B  | 298     | 257     |
|             | BV | 306     | 258     |
| 140         | Ot | 78.9    | 80.6    |
|             | B  | 291     | 247     |
|             | BV | 292     | 249     |
| 150         | Ot | 66.5    | 67.6    |
|             | B  | 282     | 238     |
|             | BV | 280     | 239     |
| 160         | Ot | 55.6    | 56.5    |
|             | B  | 265     | 229     |
|             | BV | 270     | 231     |
| 170         | Ot | 45.3    | 46.4    |
|             | B  | 247     | 221     |
|             | BV | 260     | 223     |
| 180         | Ot | 36.3    | 37.8    |
|             | B  | 231     | 214     |
|             | BV | 251     | 216     |
| 190         | Ot |         | 29.7    |
|             | B  | 216     | 206     |
|             | BV | 243     | 209     |
| 200         | Ot |         |         |
|             | B  | 202     | 197     |
|             | BV | 234     | 203     |
| 220         | Ot |         |         |
|             | B  | 175     | 175     |
|             | BV | 214     | 191     |
| 240         | Ot |         |         |
|             | B  | 152     | 152     |
|             | BV | 189     | 181     |
| 260         | Ot |         |         |
|             | B  | 132     | 133     |
|             | BV | 166     | 167     |
| 280         | Ot |         |         |
|             | B  | 115     | 116     |
|             | BV | 147     | 150     |
| 300         | Ot |         |         |
|             | B  | 100     | 101     |
|             | BV | 131     | 134     |
| 320         | Ot |         |         |
|             | B  | 86.5    | 87.3    |
|             | BV | 116     | 119     |
| 340         | Ot |         |         |
|             | B  | 74.4    | 74.9    |
|             | BV | 103     | 105     |
| 360         | Ot |         |         |
|             | B  | 63.5    | 64.3    |
|             | BV | 90.7    | 93.4    |
| 380         | Ot |         |         |
|             | B  | 53.6    | 54.2    |
|             | BV | 80.1    | 82.4    |
| 400         | Ot |         |         |
|             | B  | 44      | 44.9    |
|             | BV | 69.9    | 72.4    |
| 420         | Ot |         |         |
|             | B  | 35.7    | 36.6    |
|             | BV | 61.1    | 63.3    |
| 440         | Ot |         |         |
|             | B  |         | 29.1    |
|             | BV |         | 54.7    |
| 460         | Ot |         |         |
|             | B  |         |         |
|             | BV |         |         |
| 490         | Ot |         |         |
|             | B  |         |         |
|             | BV |         |         |
| 520         | Ot |         |         |
|             | B  |         |         |
|             | BV |         |         |

| HSL9 472 ft |    |         |         |
|-------------|----|---------|---------|
| ft          |    | F 39 ft | F 49 ft |
|             |    | 10°     |         |
| 70          | Ot | 234     | 211     |
|             | B  | 301     | 274     |
|             | BV | 304     | 276     |
| 80          | Ot | 197     | 198     |
|             | B  | 300     | 273     |
|             | BV | 304     | 276     |
| 90          | Ot | 169     | 169     |
|             | B  | 299     | 272     |
|             | BV | 304     | 276     |
| 100         | Ot | 145     | 145     |
|             | B  | 298     | 271     |
|             | BV | 303     | 275     |
| 110         | Ot | 123     | 124     |
|             | B  | 297     | 270     |
|             | BV | 303     | 275     |
| 120         | Ot | 106     | 107     |
|             | B  | 295     | 268     |
|             | BV | 302     | 270     |
| 130         | Ot | 89.4    | 91.4    |
|             | B  | 292     | 260     |
|             | BV | 296     | 261     |
| 140         | Ot | 75.9    | 76.7    |
|             | B  | 287     | 251     |
|             | BV | 285     | 252     |
| 150         | Ot | 63.2    | 64.8    |
|             | B  | 278     | 241     |
|             | BV | 273     | 244     |
| 160         | Ot | 52.5    | 53.5    |
|             | B  | 261     | 232     |
|             | BV | 263     | 235     |
| 170         | Ot | 43.2    | 44.2    |
|             | B  | 244     | 224     |
|             | BV | 254     | 227     |
| 180         | Ot | 34.3    | 34.7    |
|             | B  | 227     | 216     |
|             | BV | 245     | 219     |
| 190         | Ot | 26.2    | 27.8    |
|             | B  | 212     | 206     |
|             | BV | 236     | 213     |
| 200         | Ot |         |         |
|             | B  | 198     | 195     |
|             | BV | 228     | 206     |
| 220         | Ot |         |         |
|             | B  | 172     | 172     |
|             | BV | 211     | 194     |
| 240         | Ot |         |         |
|             | B  | 150     | 150     |
|             | BV | 188     | 182     |
| 260         | Ot |         |         |
|             | B  | 130     | 131     |
|             | BV | 166     | 166     |
| 280         | Ot |         |         |
|             | B  | 112     | 113     |
|             | BV | 147     | 147     |
| 300         | Ot |         |         |
|             | B  | 97.3    | 98      |
|             | BV | 130     | 131     |
| 320         | Ot |         |         |
|             | B  | 84      | 84.8    |
|             | BV | 116     | 116     |
| 340         | Ot |         |         |
|             | B  | 71.8    | 72.4    |
|             | BV | 102     | 103     |
| 360         | Ot |         |         |
|             | B  | 61.3    | 62.1    |
|             | BV | 90.4    | 91.3    |
| 380         | Ot |         |         |
|             | B  | 51.3    | 52      |
|             | BV | 79.6    | 80.2    |
| 400         | Ot |         |         |
|             | B  | 42.3    | 43.1    |
|             | BV | 70      | 70.8    |
| 420         | Ot |         |         |
|             | B  | 33.9    | 34.7    |
|             | BV | 60.8    | 61.6    |
| 440         | Ot |         |         |
|             | B  | 26.9    | 27.6    |
|             | BV | 52.4    | 53.1    |
| 460         | Ot |         |         |
|             | B  |         |         |
|             | BV |         |         |
| 490         | Ot |         |         |
|             | B  |         |         |
|             | BV |         |         |
| 520         | Ot |         |         |
|             | B  |         |         |
|             | BV |         |         |



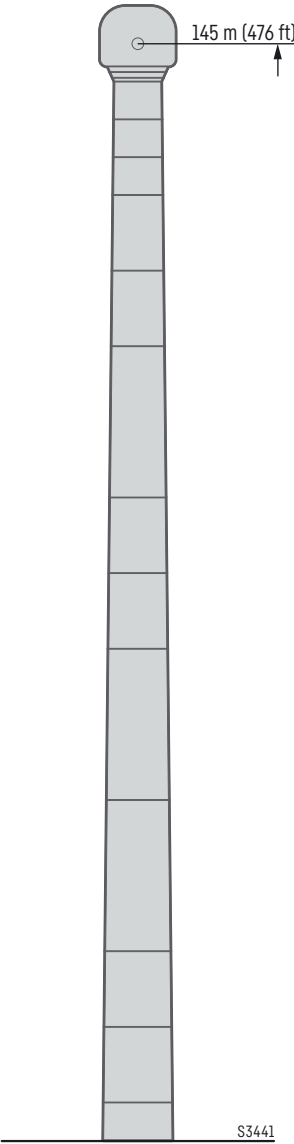
HSL9A(Z)DFB/BV

HSL9A 482 – 492



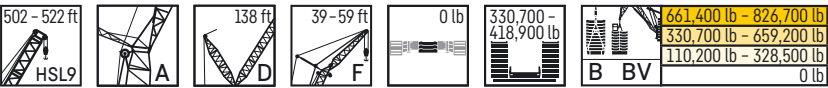
| HSL9 482 ft |                              |                    |                    |
|-------------|------------------------------|--------------------|--------------------|
|             | F 39 ft                      | F 49 ft            | F 59 ft            |
| 10°         |                              |                    |                    |
| 70          | Ot 227<br>B 291<br>BV 294    | 265<br>267         |                    |
| 80          | Ot 193<br>B 290<br>BV 294    | 194<br>264<br>267  | 194<br>243<br>245  |
| 90          | Ot 165<br>B 290<br>BV 293    | 165<br>264<br>267  | 165<br>242<br>245  |
| 100         | Ot 139<br>B 288<br>BV 293    | 141<br>263<br>266  | 141<br>240<br>243  |
| 110         | Ot 119<br>B 286<br>BV 292    | 120<br>261<br>266  | 122<br>234<br>235  |
| 120         | Ot 101<br>B 283<br>BV 292    | 102<br>259<br>265  | 104<br>226<br>226  |
| 130         | Ot 85.9<br>B 279<br>BV 287   | 86.7<br>256<br>262 | 87.9<br>217<br>219 |
| 140         | Ot 71.2<br>B 274<br>BV 276   | 73.1<br>250<br>252 | 74<br>209<br>211   |
| 150         | Ot 59.4<br>B 267<br>BV 265   | 61.1<br>240<br>243 | 61.8<br>202<br>203 |
| 160         | Ot 49.3<br>B 255<br>BV 255   | 49.6<br>231<br>234 | 50.8<br>194<br>196 |
| 170         | Ot 39.2<br>B 238<br>BV 246   | 40.4<br>224<br>227 | 41.5<br>188<br>189 |
| 180         | Ot 30.8<br>B 222<br>BV 238   | 31.7<br>216<br>219 | 33.2<br>182<br>183 |
| 190         | Ot 23.4<br>B 208<br>BV 229   | 205<br>212         | 175<br>177         |
| 200         | Ot 194<br>B 221<br>BV 221    | 193<br>206         | 170<br>171         |
| 220         | Ot 168<br>B 204<br>BV 204    | 168<br>194         | 159<br>162         |
| 240         | Ot 146<br>B 184<br>BV 184    | 147<br>182         | 146<br>152         |
| 260         | Ot 126<br>B 162<br>BV 162    | 127<br>162         | 128<br>145         |
| 280         | Ot 109<br>B 143<br>BV 143    | 110<br>144         | 110<br>138         |
| 300         | Ot 93.6<br>B 126<br>BV 126   | 94.3<br>127        | 95.7<br>128        |
| 320         | Ot 80.5<br>B 112<br>BV 112   | 81.4<br>113        | 82.1<br>114        |
| 340         | Ot 68.4<br>B 98.8<br>BV 98.8 | 69.3<br>100        | 70.7<br>101        |
| 360         | Ot 57.9<br>B 87.4<br>BV 87.4 | 58.3<br>88         | 59.5<br>89         |
| 380         | Ot 48.1<br>B 76.8<br>BV 76.8 | 48.8<br>77.5       | 49.8<br>78.4       |
| 400         | Ot 39<br>B 67.1<br>BV 67.1   | 39.7<br>67.7       | 40.9<br>68.6       |
| 420         | Ot 31<br>B 58<br>BV 58       | 31.5<br>58.7       | 32.9<br>60         |
| 440         | Ot 24.5<br>B 49.7<br>BV 49.7 | 25.1<br>50.4       | 26<br>51.6         |
| 460         | Ot<br>B<br>BV                | 19.5<br>42.8       | 20.4<br>43.9       |
| 490         | Ot<br>B<br>BV                |                    |                    |
| 520         | Ot<br>B<br>BV                |                    |                    |

| HSL9 492 ft |                              |                    |         |
|-------------|------------------------------|--------------------|---------|
|             | F 39 ft                      | F 49 ft            | F 59 ft |
| 10°         |                              |                    |         |
| 70          | Ot 223<br>B 282<br>BV 284    |                    |         |
| 80          | Ot 189<br>B 281<br>BV 284    | 190<br>256<br>259  | 238     |
| 90          | Ot 161<br>B 280<br>BV 284    | 162<br>255<br>258  | 238     |
| 100         | Ot 137<br>B 277<br>BV 283    | 137<br>254<br>258  | 237     |
| 110         | Ot 116<br>B 275<br>BV 283    | 119<br>252<br>258  | 234     |
| 120         | Ot 99.1<br>B 272<br>BV 281   | 101<br>250<br>257  | 227     |
| 130         | Ot 83.8<br>B 268<br>BV 278   | 84.9<br>246<br>255 | 218     |
| 140         | Ot 70.3<br>B 263<br>BV 271   | 71.2<br>242<br>250 | 210     |
| 150         | Ot 58.4<br>B 257<br>BV 260   | 59<br>236<br>242   | 203     |
| 160         | Ot 48<br>B 248<br>BV 250     | 48.3<br>230<br>233 | 195     |
| 170         | Ot 38<br>B 233<br>BV 240     | 39.3<br>222<br>226 | 189     |
| 180         | Ot 29.4<br>B 219<br>BV 232   | 31<br>214<br>219   | 182     |
| 190         | Ot 206<br>B 225<br>BV 225    | 205<br>212         | 176     |
| 200         | Ot 192<br>B 216<br>BV 216    | 192<br>206         | 171     |
| 220         | Ot 167<br>B 201<br>BV 201    | 167<br>194         | 162     |
| 240         | Ot 145<br>B 183<br>BV 183    | 145<br>182         | 153     |
| 260         | Ot 126<br>B 162<br>BV 162    | 126<br>162         | 145     |
| 280         | Ot 108<br>B 142<br>BV 142    | 108<br>142         | 137     |
| 300         | Ot 92.7<br>B 126<br>BV 126   | 93.6<br>127        | 127     |
| 320         | Ot 79.9<br>B 112<br>BV 112   | 80.2<br>112        | 113     |
| 340         | Ot 67.8<br>B 98.5<br>BV 98.5 | 68.8<br>99.5       | 100     |
| 360         | Ot 57.4<br>B 87.1<br>BV 87.1 | 57.8<br>87.3       | 88.5    |
| 380         | Ot 47.4<br>B 76.2<br>BV 76.2 | 48.4<br>77.1       | 78      |
| 400         | Ot 38.7<br>B 66.8<br>BV 66.8 | 39.5<br>67.4       | 68.1    |
| 420         | Ot 30.6<br>B 57.8<br>BV 57.8 | 31.4<br>58.6       | 59.6    |
| 440         | Ot 24.3<br>B 49.5<br>BV 49.5 | 24.9<br>50.3       | 51.5    |
| 460         | Ot 18.8<br>B 42<br>BV 42     | 19.3<br>42.6       | 43.8    |
| 490         | Ot<br>B<br>BV                |                    |         |
| 520         | Ot<br>B<br>BV                |                    |         |
| 550         | Ot<br>B<br>BV                |                    |         |



# HSL9A(Z)DFB/BV

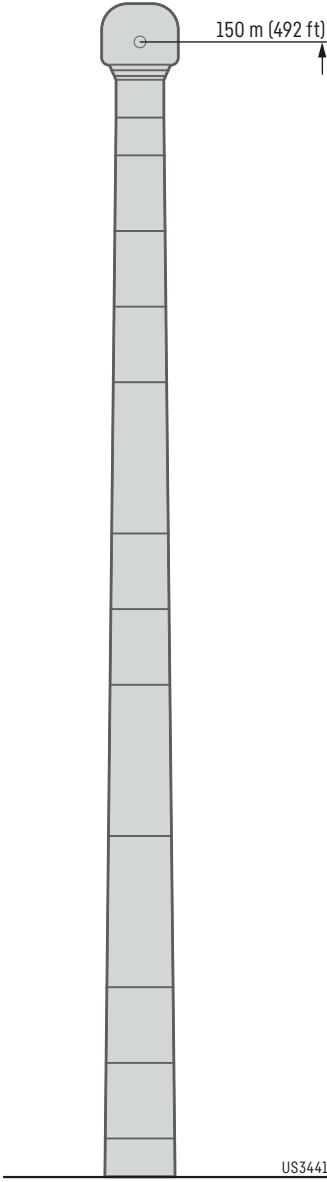
# HSL9A 502 – 522



| ft  | HSL9 502 ft | 10°    |        |        |
|-----|-------------|--------|--------|--------|
|     |             | F39 ft | F49 ft | F59 ft |
| 70  | Ot B BV     | 274    |        |        |
| 80  | Ot B BV     | 274    | 249    | 230    |
| 90  | Ot B BV     | 273    | 249    | 230    |
| 100 | Ot B BV     | 272    | 249    | 229    |
| 110 | Ot B BV     | 270    | 248    | 229    |
| 120 | Ot B BV     | 269    | 246    | 229    |
| 130 | Ot B BV     | 266    | 244    | 226    |
| 140 | Ot B BV     | 262    | 242    | 218    |
| 150 | Ot B BV     | 252    | 238    | 210    |
| 160 | Ot B BV     | 242    | 232    | 203    |
| 170 | Ot B BV     | 234    | 225    | 196    |
| 180 | Ot B BV     | 224    | 218    | 189    |
| 190 | Ot B BV     | 217    | 210    | 183    |
| 200 | Ot B BV     | 210    | 204    | 178    |
| 220 | Ot B BV     | 195    | 191    | 168    |
| 240 | Ot B BV     | 179    | 178    | 158    |
| 260 | Ot B BV     | 158    | 158    | 151    |
| 280 | Ot B BV     | 139    | 139    | 141    |
| 300 | Ot B BV     | 122    | 123    | 126    |
| 320 | Ot B BV     | 108    | 109    | 112    |
| 340 | Ot B BV     | 95.3   | 95.9   | 99.6   |
| 360 | Ot B BV     | 83.7   | 84.2   | 87.6   |
| 380 | Ot B BV     | 73.1   | 73.9   | 77     |
| 400 | Ot B BV     | 63.6   | 64.1   | 67.3   |
| 420 | Ot B BV     | 54.9   | 55.5   | 58.4   |
| 440 | Ot B BV     | 46.8   | 47.5   | 50.4   |
| 460 | Ot B BV     | 39.1   | 39.9   | 42.8   |
| 490 | Ot B BV     |        |        |        |
| 520 | Ot B BV     |        |        |        |
| 550 | Ot B BV     |        |        |        |

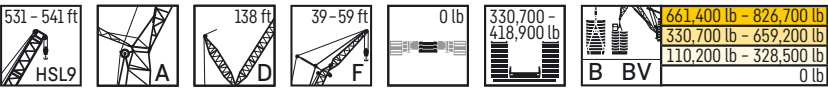
| ft  | HSL9 512 ft | 10°    |        |        |
|-----|-------------|--------|--------|--------|
|     |             | F39 ft | F49 ft | F59 ft |
| 70  | Ot B BV     | 261    |        |        |
| 80  | Ot B BV     | 273    | 250    | 230    |
| 90  | Ot B BV     | 272    | 250    | 230    |
| 100 | Ot B BV     | 270    | 248    | 230    |
| 110 | Ot B BV     | 268    | 245    | 229    |
| 120 | Ot B BV     | 265    | 242    | 224    |
| 130 | Ot B BV     | 261    | 237    | 218    |
| 140 | Ot B BV     | 257    | 231    | 216    |
| 150 | Ot B BV     | 248    | 227    | 208    |
| 160 | Ot B BV     | 238    | 224    | 202    |
| 170 | Ot B BV     | 230    | 218    | 195    |
| 180 | Ot B BV     | 221    | 212    | 189    |
| 190 | Ot B BV     | 213    | 206    | 183    |
| 200 | Ot B BV     | 205    | 199    | 178    |
| 220 | Ot B BV     | 190    | 186    | 167    |
| 240 | Ot B BV     | 176    | 173    | 159    |
| 260 | Ot B BV     | 155    | 156    | 150    |
| 280 | Ot B BV     | 137    | 137    | 139    |
| 300 | Ot B BV     | 120    | 120    | 125    |
| 320 | Ot B BV     | 106    | 107    | 110    |
| 340 | Ot B BV     | 93.4   | 94.1   | 97.4   |
| 360 | Ot B BV     | 81.4   | 82.2   | 85.6   |
| 380 | Ot B BV     | 71.4   | 71.8   | 74.9   |
| 400 | Ot B BV     | 61.6   | 62.2   | 65.5   |
| 420 | Ot B BV     | 53.2   | 53.8   | 56.7   |
| 440 | Ot B BV     | 45.3   | 45.8   | 48.8   |
| 460 | Ot B BV     | 37.7   | 38.4   | 41.3   |
| 490 | Ot B BV     |        |        | 31.1   |
| 520 | Ot B BV     |        |        |        |
| 550 | Ot B BV     |        |        |        |

| ft  | HSL9 522 ft | 10°    |        |        |
|-----|-------------|--------|--------|--------|
|     |             | F39 ft | F49 ft | F59 ft |
| 70  | Ot B BV     | 248    |        |        |
| 80  | Ot B BV     | 260    | 241    | 223    |
| 90  | Ot B BV     | 261    | 241    | 223    |
| 100 | Ot B BV     | 259    | 239    | 223    |
| 110 | Ot B BV     | 257    | 236    | 221    |
| 120 | Ot B BV     | 254    | 234    | 218    |
| 130 | Ot B BV     | 252    | 229    | 211    |
| 140 | Ot B BV     | 247    | 223    | 207    |
| 150 | Ot B BV     | 240    | 220    | 203    |
| 160 | Ot B BV     | 230    | 216    | 200    |
| 170 | Ot B BV     | 222    | 212    | 194    |
| 180 | Ot B BV     | 214    | 207    | 188    |
| 190 | Ot B BV     | 206    | 202    | 183    |
| 200 | Ot B BV     | 198    | 196    | 177    |
| 220 | Ot B BV     | 184    | 183    | 167    |
| 240 | Ot B BV     | 170    | 170    | 158    |
| 260 | Ot B BV     | 151    | 155    | 149    |
| 280 | Ot B BV     | 133    | 136    | 136    |
| 300 | Ot B BV     | 117    | 120    | 121    |
| 320 | Ot B BV     | 102    | 105    | 107    |
| 340 | Ot B BV     | 90     | 92.9   | 93.9   |
| 360 | Ot B BV     | 77.9   | 81.5   | 82.7   |
| 380 | Ot B BV     | 68.2   | 71     | 71.6   |
| 400 | Ot B BV     | 58.6   | 61.2   | 62.4   |
| 420 | Ot B BV     | 50     | 52.6   | 53.5   |
| 440 | Ot B BV     | 42.2   | 44.8   | 46     |
| 460 | Ot B BV     | 35     | 37.3   | 38.5   |
| 490 | Ot B BV     |        | 27.3   | 28.6   |
| 520 | Ot B BV     |        |        |        |

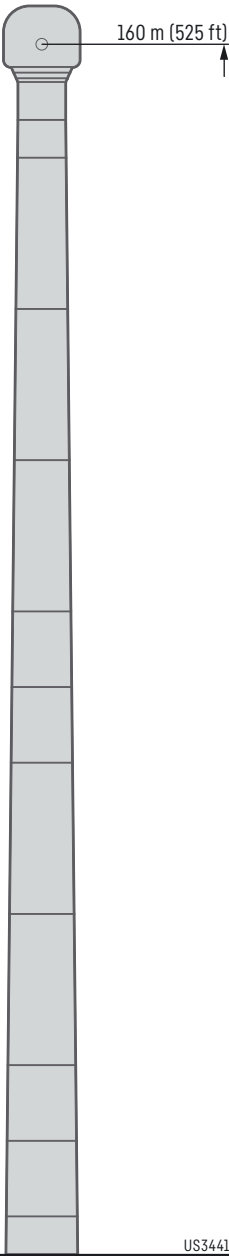


# HSL9A(Z)DFB/BV

# HSL9A 531 – 541

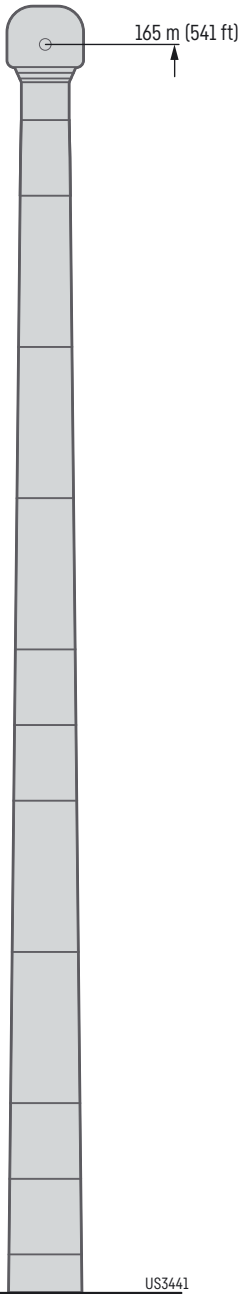


| HSL9 531 ft |         |        |           |
|-------------|---------|--------|-----------|
|             | F39 ft  | F49 ft | F59 ft    |
| 10°         |         |        |           |
| 80          | Ot B BV | 248    | 232 215   |
| 90          | Ot B BV | 249    | 232 215   |
| 100         | Ot B BV | 248    | 230 214   |
| 110         | Ot B BV | 246    | 228 212   |
| 120         | Ot B BV | 244    | 226 209   |
| 130         | Ot B BV | 241    | 222 202   |
| 140         | Ot B BV | 237    | 215 197   |
| 150         | Ot B BV | 230    | 209 194   |
| 160         | Ot B BV | 222    | 206 190   |
| 170         | Ot B BV | 214    | 202 187   |
| 180         | Ot B BV | 207    | 198 183   |
| 190         | Ot B BV | 200    | 194 179   |
| 200         | Ot B BV | 193    | 190 174   |
| 220         | Ot B BV | 180    | 179 166   |
| 240         | Ot B BV | 167    | 168 157   |
| 260         | Ot B BV | 151    | 154 148   |
| 280         | Ot B BV | 133    | 136 135   |
| 300         | Ot B BV | 116    | 120 122   |
| 320         | Ot B BV | 103    | 106 107   |
| 340         | Ot B BV | 90.1   | 92.7 94.3 |
| 360         | Ot B BV | 78.6   | 81.7 82.9 |
| 380         | Ot B BV | 68.1   | 71.1 72   |
| 400         | Ot B BV | 58.9   | 61.5 62.9 |
| 420         | Ot B BV | 50.5   | 52.7 54.1 |
| 440         | Ot B BV | 42.8   | 45.1 46.2 |
| 460         | Ot B BV | 35.7   | 37.7 39   |
| 490         | Ot B BV | 26.2   | 28 29.4   |
| 520         | Ot B BV |        |           |



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| HSL9 541 ft |         |        |           |
|-------------|---------|--------|-----------|
|             | F39 ft  | F49 ft | F59 ft    |
| 10°         |         |        |           |
| 80          | Ot B BV | 236    | 224 198   |
| 90          | Ot B BV | 238    | 223 208   |
| 100         | Ot B BV | 238    | 222 207   |
| 110         | Ot B BV | 237    | 220 205   |
| 120         | Ot B BV | 234    | 218 202   |
| 130         | Ot B BV | 232    | 214 195   |
| 140         | Ot B BV | 228    | 208 189   |
| 150         | Ot B BV | 221    | 200 186   |
| 160         | Ot B BV | 214    | 197 183   |
| 170         | Ot B BV | 210    | 194 179   |
| 180         | Ot B BV | 204    | 190 176   |
| 190         | Ot B BV | 196    | 186 172   |
| 200         | Ot B BV | 190    | 183 168   |
| 220         | Ot B BV | 178    | 173 160   |
| 240         | Ot B BV | 166    | 162 151   |
| 260         | Ot B BV | 151    | 150 143   |
| 280         | Ot B BV | 133    | 133 131   |
| 300         | Ot B BV | 116    | 117 118   |
| 320         | Ot B BV | 102    | 102 104   |
| 340         | Ot B BV | 89.1   | 89.9 90.9 |
| 360         | Ot B BV | 78.1   | 78.6 79.8 |
| 380         | Ot B BV | 67.2   | 67.6 69.5 |
| 400         | Ot B BV | 58     | 58.6 59.8 |
| 420         | Ot B BV | 49.2   | 49.8 51.1 |
| 440         | Ot B BV | 41.6   | 42 43.1   |
| 460         | Ot B BV | 34.3   | 35 36.2   |
| 490         | Ot B BV | 24.8   | 25.3 26.4 |
| 520         | Ot B BV |        | 17.8      |

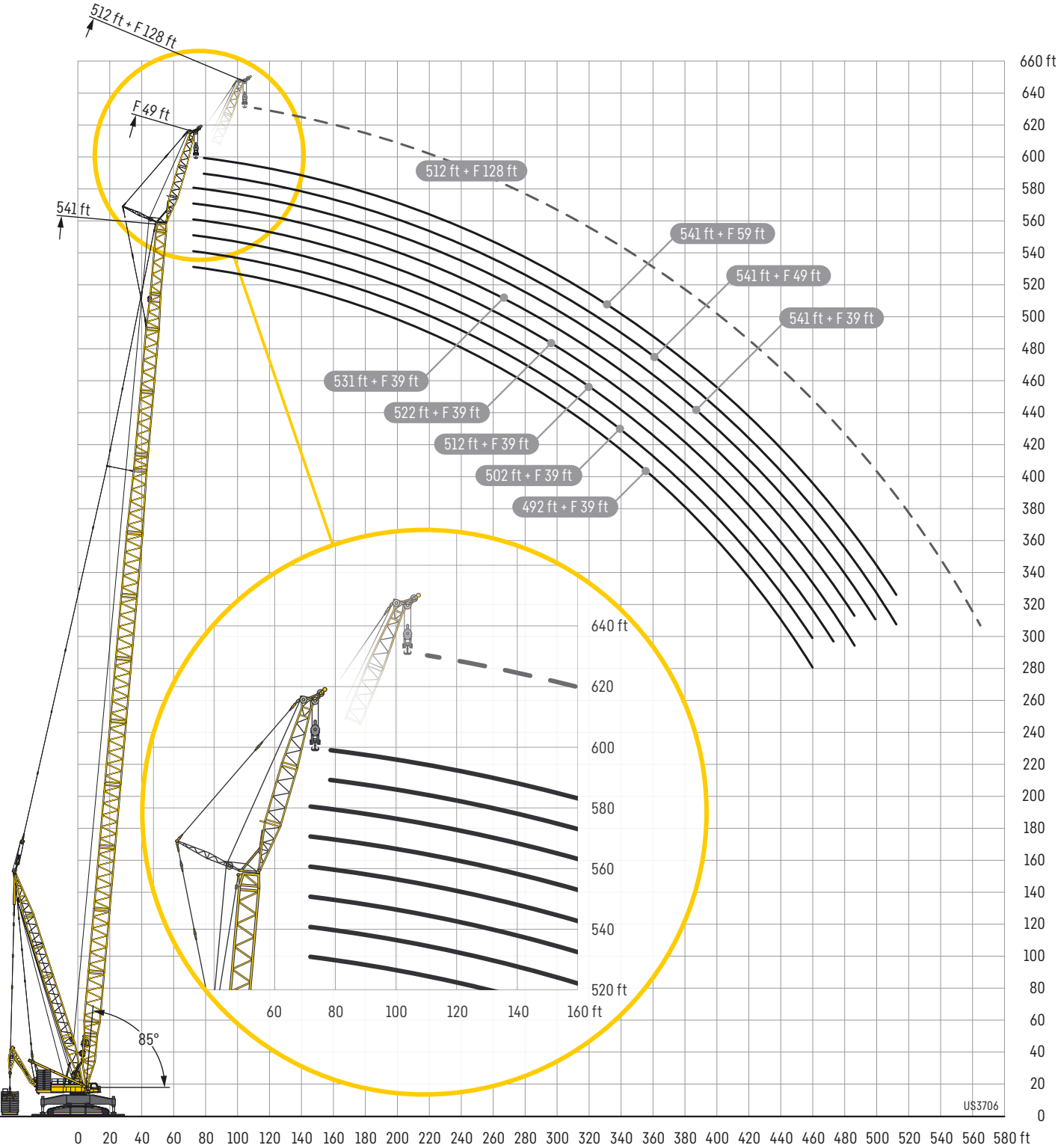


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# Lifting heights

## Hauteurs de levage

HSL9A(Z)DFB/BV



# Description of symbols

## Explication des symboles

|                                                                                    |                                                                       |                                                                                     |                                                                                       |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    | <b>Max. capacity</b><br>Capacité max.                                 |    | <b>Weight</b><br>Poids                                                                |
|    | <b>Max. boom length</b><br>Longueur maxi. de la fleche principale     |    | <b>No. of lines</b><br>Brins                                                          |
|    | <b>Max. boom system length</b><br>Longueur maxi. du systeme de fleche |    | <b>No. of sheaves</b><br>Poulies                                                      |
|    | <b>Counterweight</b><br>Contrepoids                                   |    | <b>Radius</b><br>Portée                                                               |
|    | <b>Central ballast</b><br>Contrepoids central                         |    | <b>Main boom, heavy</b><br>Flèche principale, lourde                                  |
|   | <b>Width crawler chassis</b><br>Largeur du train de chenilles         |   | <b>Main boom, heavy/light</b><br>Flèche principale, londre/légère                     |
|  | <b>Hoist gear</b><br>Treuil de levage                                 |  | <b>Main boom S2</b><br>Flèche principale S2                                           |
|  | <b>Working speeds</b><br>Witesses                                     |  | <b>Derrick system D</b><br>Système derrick D                                          |
|  | <b>Max. single line pull</b><br>Effort au brin maxi.                  |  | <b>Luffing fly jib, heavy</b><br>Flèchelette, lourde                                  |
|  | <b>Rope diameter</b><br>Diamètre                                      |  | <b>Fixed lattice jib F</b><br>Flechette a treillis fixe F                             |
|  | <b>Rope length</b><br>Longueur du câble                               |  | <b>Adapter A</b><br>Piece d'adaptateur A                                              |
|  | <b>Slewing speeds</b><br>Vitesses d'orientation                       |  | <b>Counterweight frame B</b><br>Palette de lest B                                     |
|  | <b>Driving speed</b><br>Vitesse de translation                        |  | <b>Suspended ballast V-frame®</b><br>V-frame® de contrepoids suspendu                 |
|  | <b>Load</b><br>Forces de levage                                       |  | <b>Extension of slewing platform ballast</b><br>Extension de lest de partie tournante |
|  | <b>Hookblock/Capacity</b><br>Moufle à crochet/Capacité de charge      |                                                                                     |                                                                                       |

Remarks

|     |                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5.<br>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 m² 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.<br>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 m² 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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### Proposition 65



**WARNING:** This product can expose you to chemicals, including exhaust emissions, including lead and lead compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm.  
For more information see: [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel)

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