



770 USt



541 ft



335 ft +
315 ft

Blending worlds, merging types

LR 1700-1.0

Crawler crane
Grue sur chenilles

LIEBHERR

Mobile and crawler cranes

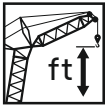


Technical Data

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LR 1700-1.0



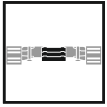
643 ft



525 ft



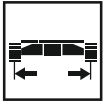
507,100 lb



198,400 lb



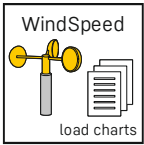
826,700 lb



28 ft 7 in



400 kW (544 h.p.)

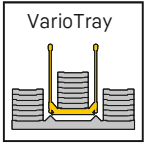


WindSpeed

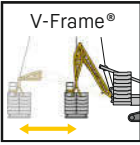
load charts



M-Wagon®



VarioTray



V-Frame®



Equipment

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

770 USt with additional equipment



Crawler travel gear

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



Crane superstructure

Superstructure frame	Liebherr-slewing platform frame, consisting of slewing platform with winch IV and removable SA-frame, connected to the center section by a roller slewing bearing.
Crane engine with sound insulation	6-cylinder diesel engine, make Liebherr, water cooled, rated power 400 kW (544 h.p.), max torque 1856 lb-ft. Fuel tank approx. 317 gallons, exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R96.
Winch I	Standard hoist winch, hydraulically driven with variable axial piston motor with integrated planetary gear.
Winch IV	Boom hoist.
Reeving winch	Auxiliary winch to reeve the hoist ropes.
Slewing gear	2 slewing gears with integrated planetary gear hydraulically driven by axial piston variable motor.
Crane cabin	Air conditioned crane cabin tiltable to the rear with safety glazing, heat insulating glass, roof window with bullet proof glass, standardized control units ergonomically positioned. Additional thermostatically controlled hot water heating.
Crane control	Setting of configuration data by convenient interactive functions. All crane movements are initiated by means of three 4-way joystick hand levers and two 2-way hand/foot levers. All working movements are independently controllable.
Safety devices	Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light.
Camera observation	2 color monitors, cameras for all winches, slewing platform, right-hand side and rear.
Counterweight	2 brackets 33 kip each. Total counterweight at superstructure 507 kip. 20 ballast plates 22 kip each.



Boom system

Main boom HS	System 3230/2825 with head section for max. 1323 kip load capacity. Boom length HS 98 ft – 316 ft. Boom length HSDB 138 ft – 354 ft with derrick system.
Main boom (H) SL	System 3230/2825/2420 with head section for max. 1323 kip load capacity. Boom length SL 177 ft – 364 ft, HSLDB 256 ft – 532 ft, HSL3DB 256 ft – 482 ft, HSL6DB 335 ft – 541 ft, HSL9DB 374 ft – 541 ft.
Lattice type luffing fly jib W	System 2420 with head section for max. 1323 kip load capacity. Luffing jib lengths W 39 ft 4 in – 315 ft. Winch V is needed for all luffing jib operations.
Lattice fly jib F	System 2116 with head section for max. 375 kip load capacity. Boom length F 39 ft – 128 ft.
Derrick system D	System 2419 including guy rods. Winch III is needed for all derrick operations. Length 118 ft / 138 ft.
Counterweight frame B	For max. derrick counterweight of 826,7 kip. D118 ft: for infinitely variable radius from 34 ft 5 in – 59 ft. D138 ft: for infinitely variable radius from 39 ft 4 in – 52 ft 6 in.
V-frame®	For max. derrick counterweight of 826,7 kip, for infinitely variable radius from 42 ft 8 in – 69 ft.
Counterweight trailer BW	For max. derrick counterweight of 826,7 kip, for infinitely variable radius from 42 ft 8 in – 69 ft.
Derrick-Counterweight	Plates for a total of 826,7 kip.
Winch II	Second hoist winch.
Winch III	Reeving main boom / Derrick operation.
Winch V	Luffing for W-jib configuration.
Winch VI	Auxiliary hoist gear.
Whip line	79,4 kip for attaching to the SW head.

Additional equipment

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

Other items of equipment available on request.

Équipement

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

770 UST avec équipement additionnel

Train de chenilles

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



Partie tournante

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



Système de flèche

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

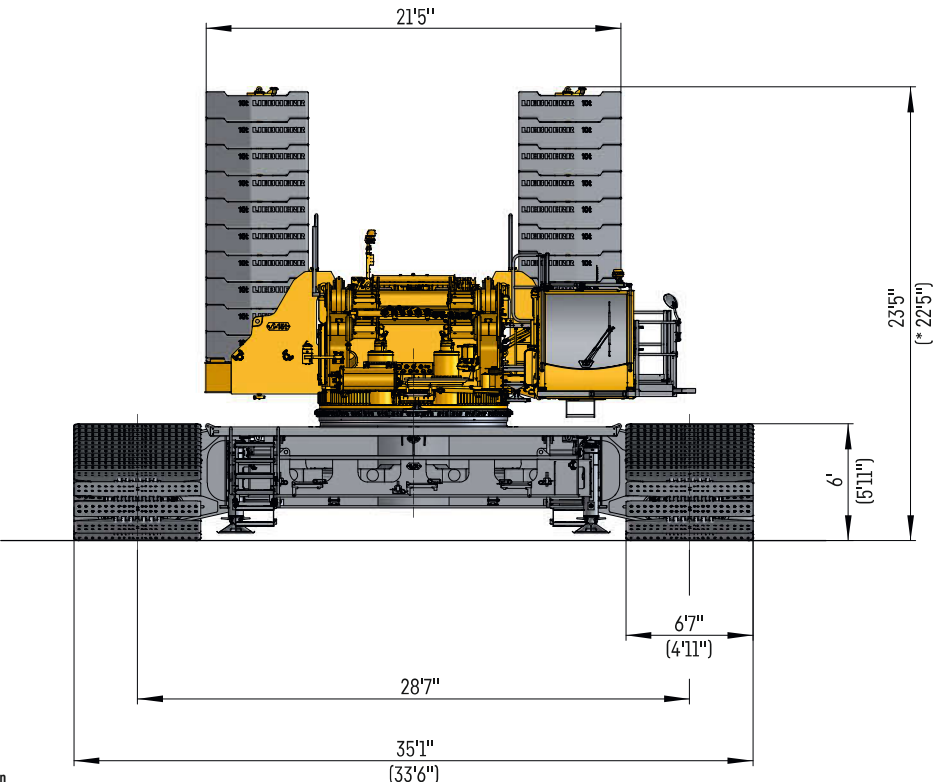
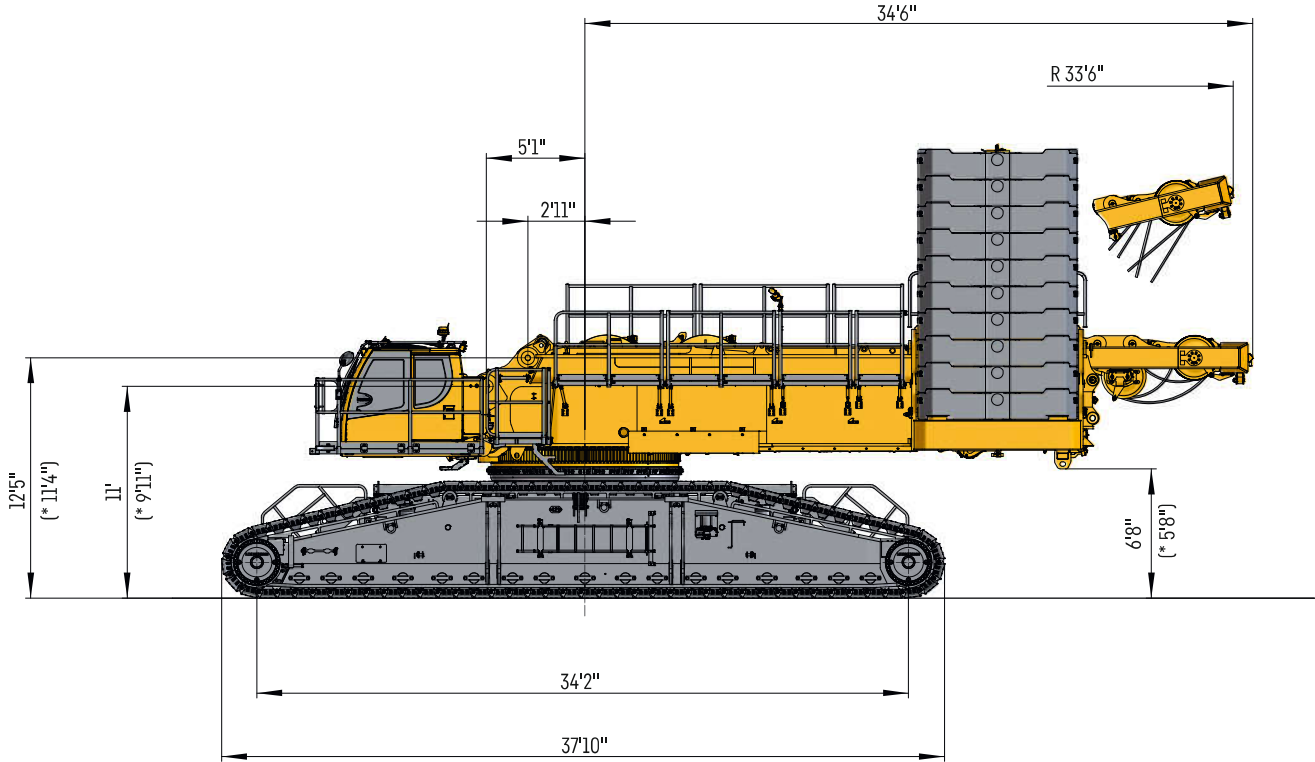
Équipement additionnel

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

D'autres équipements additionnels sont disponibles sur demande.

Dimensions

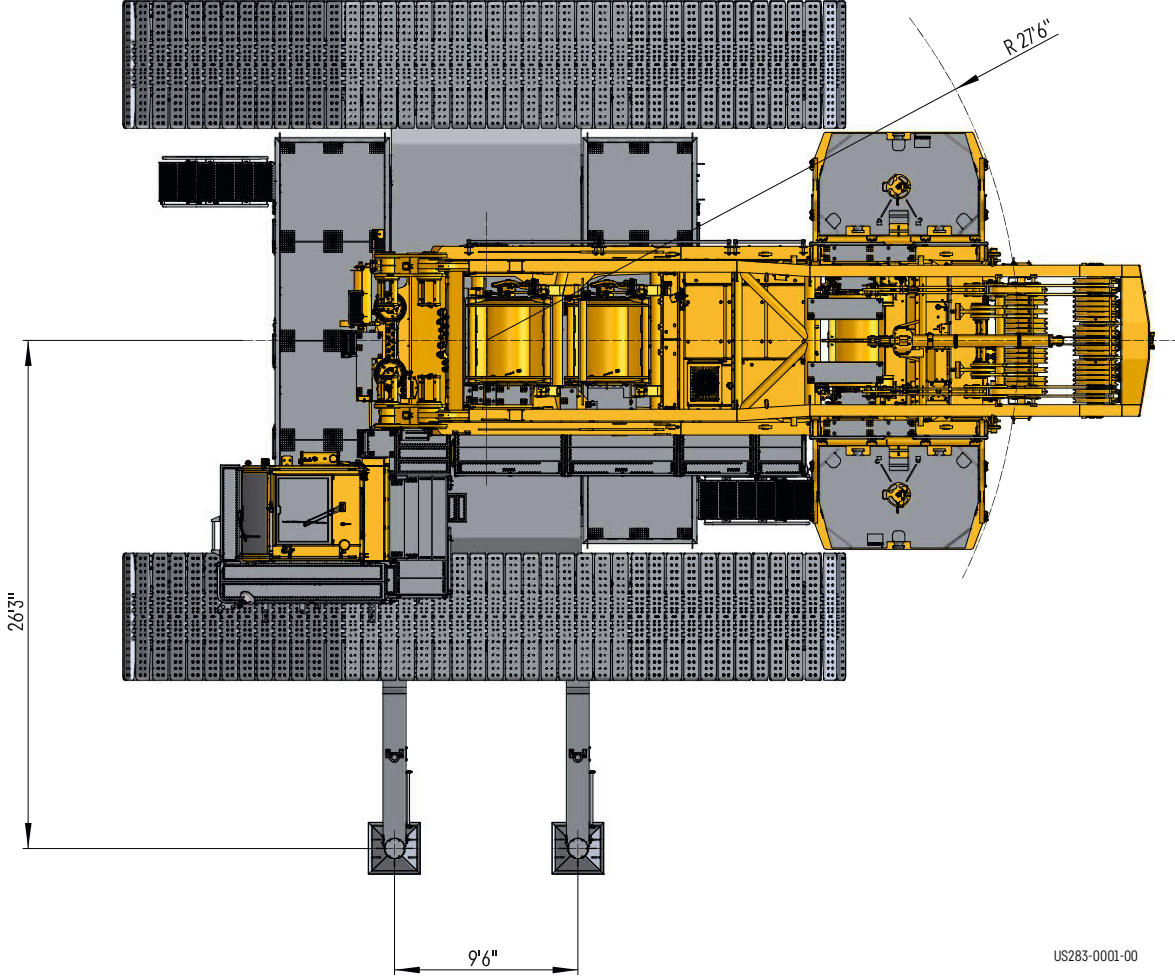
Encombrement



*without - sans Quick Connection

Dimensions

Encombrement

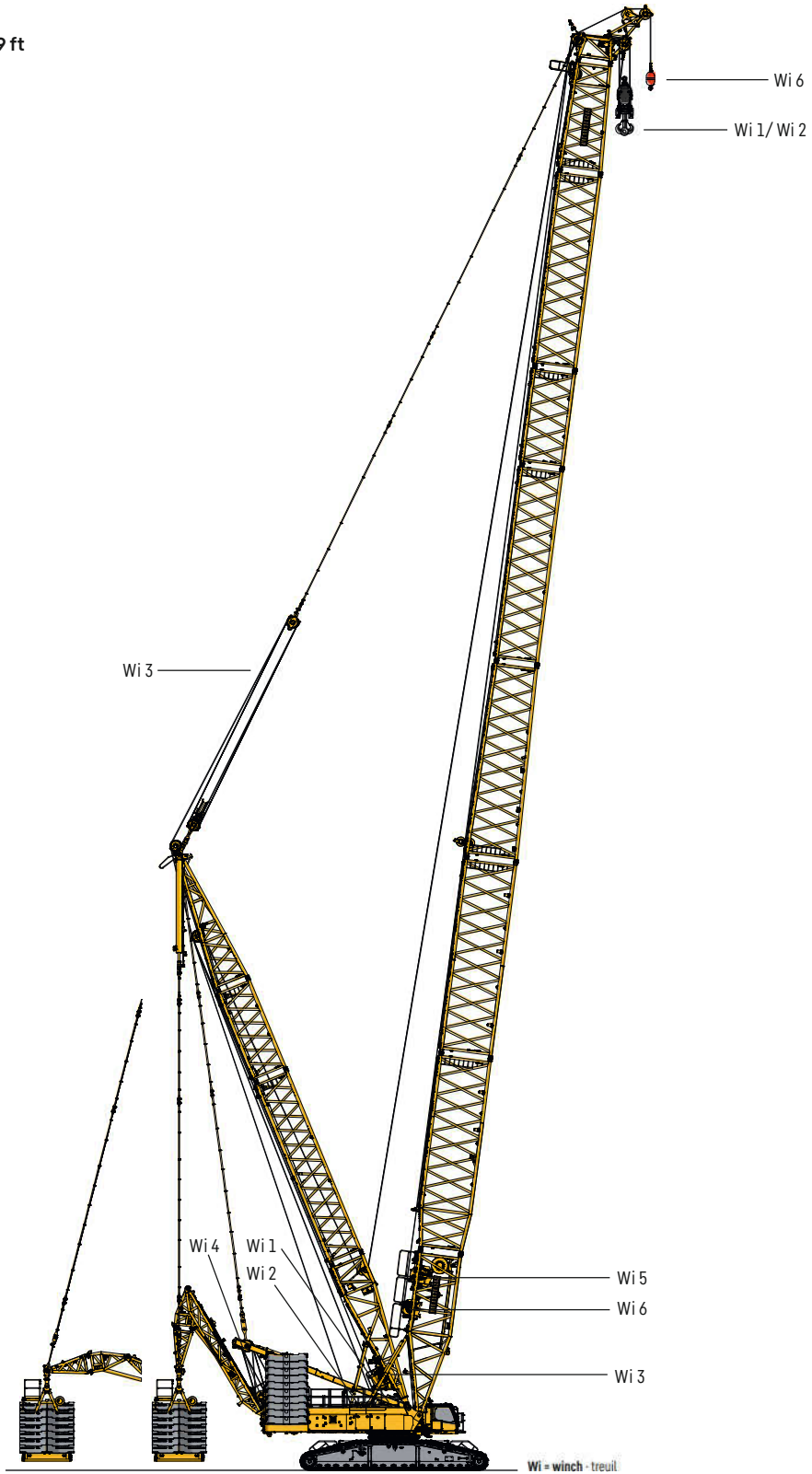


US283-0001-00

HSDBV



42 ft 8 in - 69 ft

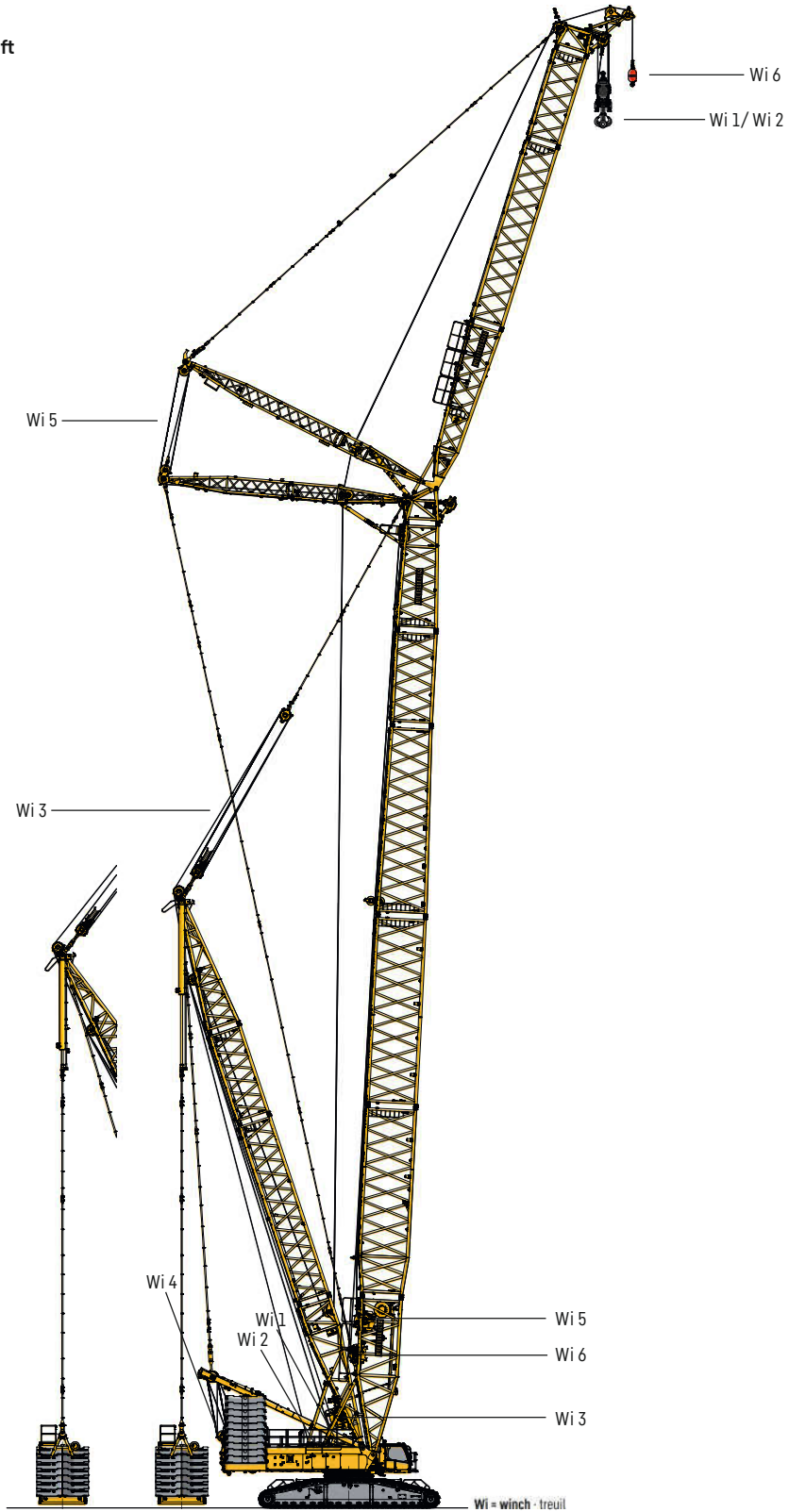


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HSDWB



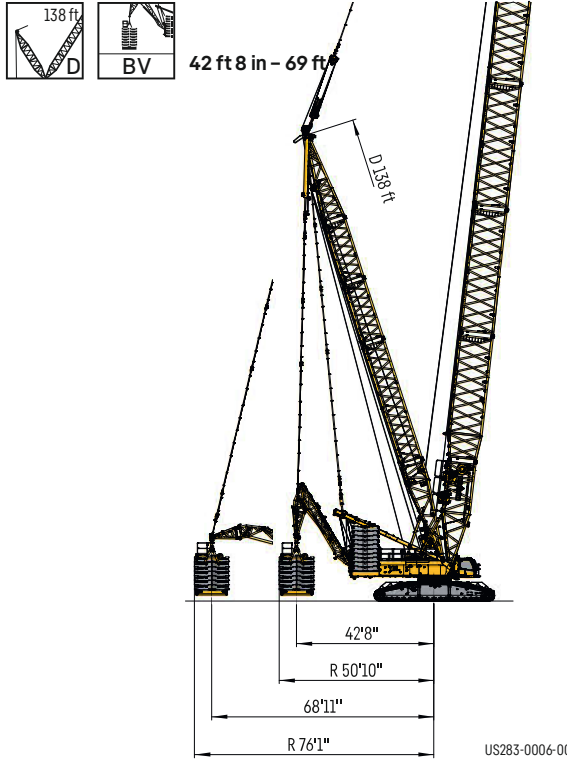
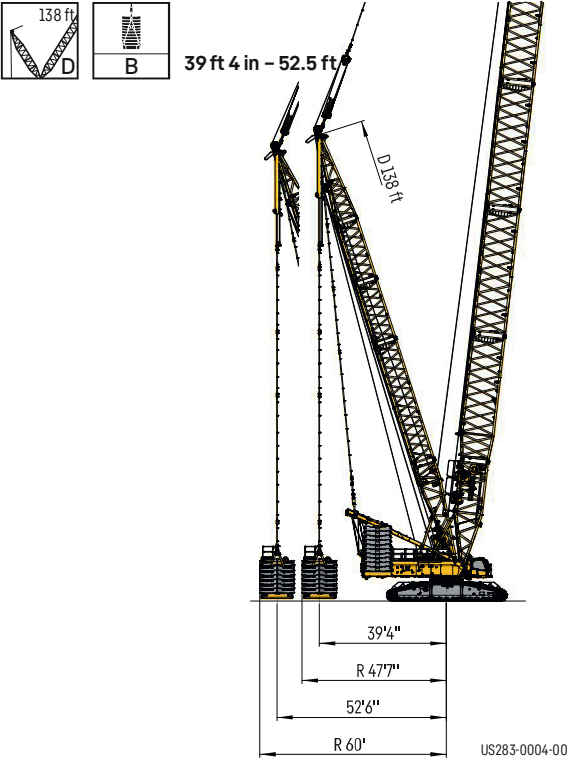
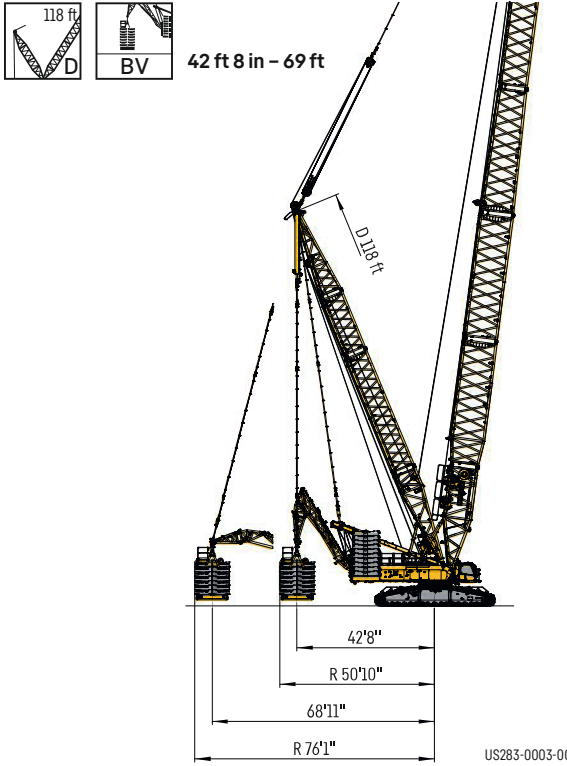
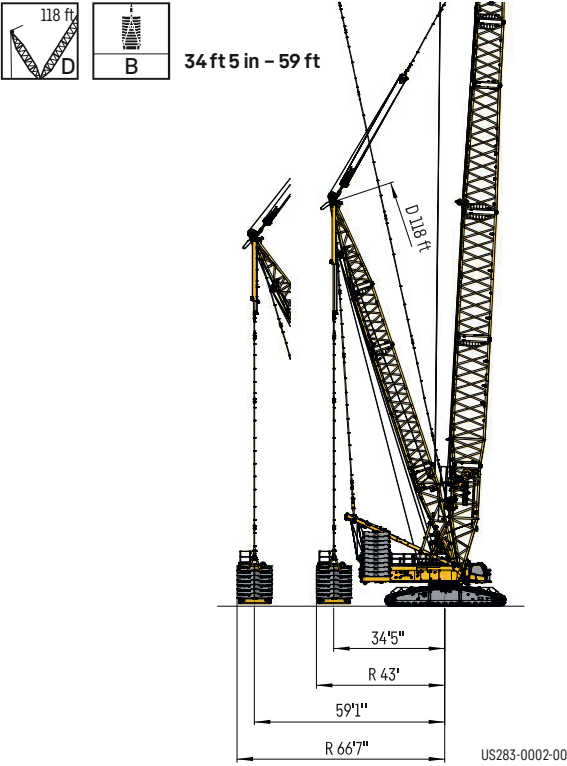
34 ft 5 in - 59 ft



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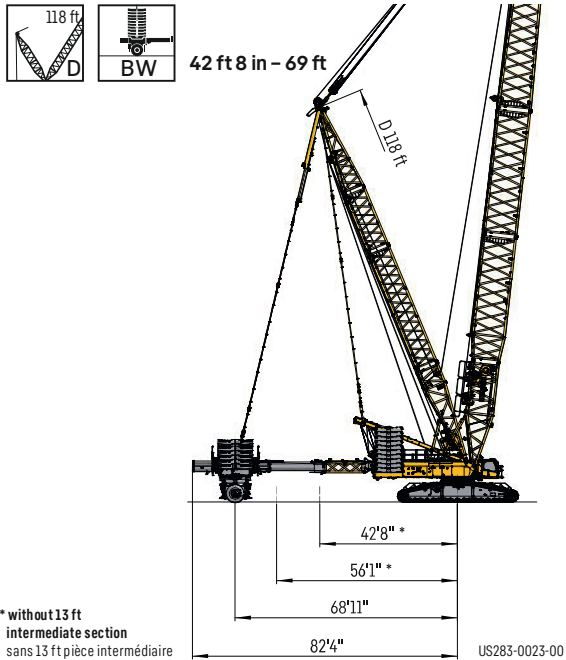
Dimensions

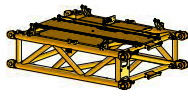
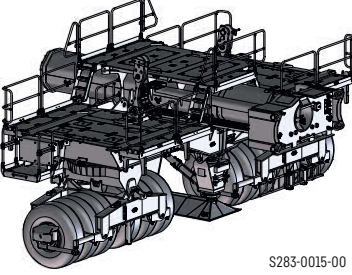

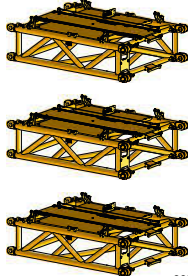


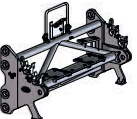


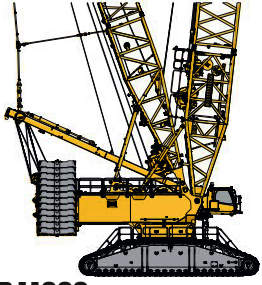
Encombremment



M-Wagon® for 3 crane models

M-Wagon® pour 3 types de grues



M-Wagon®	13 ft intermediate section · pièce intermédiaire		adapter · adaptateur	crane type · type de grue
One fits all Équipement unique	+	 S283-0016-00	+	826,700 lb @ 69 ft
 S283-0015-00	+	 S283-0016-00	+	881,890 lb @ 75.5 ft
	+	 S283-0016-00	+	992,100 lb @ 98.5 ft
				 S283-0017-00
				 LR 1700-1.0 S283-0020-00
				 S283-0018-00
				 LR 1800-1.0 S283-0021-00
				 S283-0019-00
				 LR 11000 S283-0022-00

Crane data

Dates de la grue

Winches · Treuils

	V _{ft/min}	F		
1	0 - 394 ft/min	40,465 lb	1.1"	3773 ft
2	0 - 394 ft/min	40,465 lb	1.1"	3773 ft
3	0 - 377 ft/min	-	-	-
4	0 - 2 x 197 ft/min	-	-	-
5	0 - 345 ft/min	-	-	-
6	0 - 387 ft/min	28,100 lb	0.9"	1968 ft

Working speeds · Vitesses

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

Hook blocks · Moufles à crochet

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

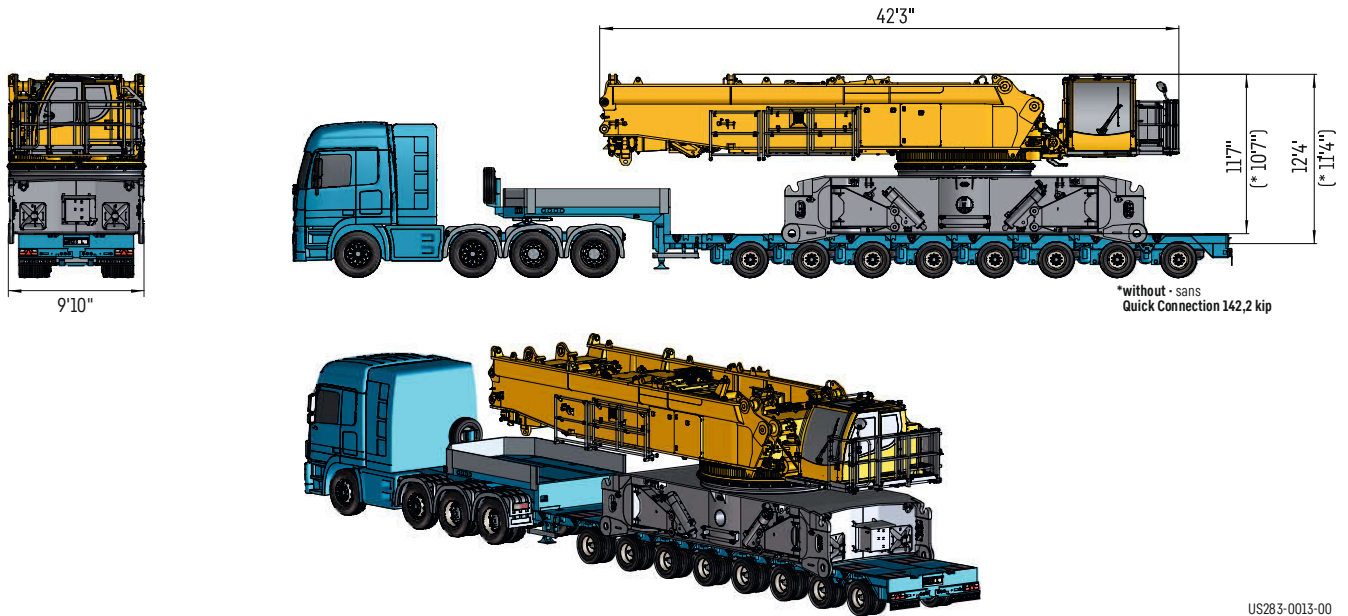
Transportation plan

Plan de transport

Part · Partie							
Winches 1 and 2 Treuils 1 et 2		18,5 kip + 18,5 kip					
SA-Frame incl. winch IV · Chevalet SA incl. treuil 4		38,6 kip + 3,5 kip Transport bracket Support de transport	1				
Superstructure without SA-frame and winches · Partie tournante sans chevalet SA et treuils		90,4 kip (incl. QC) +2,6 kip Transport bracket Support de transport	2				
Middle section Partie centrale		66,1 kip					
Crawler track (4-fold, 6'7" pads) Longeron (4 positions, plaques de 6'7")		2 x 94,8 kip					
Total · total		421,7 kip		129 kip	156,5 kip	195,1 kip	166 kip
				+Transport bracket +Support de transport			

Transportation plan

Plan de transport



US283-0013-00

3 x Transport >11 ft 6 in<

3 x transport >11 ft 6 in<

	44 kip	
Gross weight Poids total	65,5 kip	
	49,2 kip	

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

Overview windsystems

Vue d'ensemble des systèmes de treuils

Easy to identify · Identification facile



S3486

Boom/jib combinations

Configurations de flèche

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



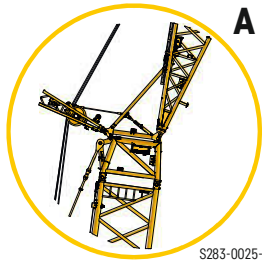
Boom/jib combinations

Configurations de flèche



S/W

S283-0024-00



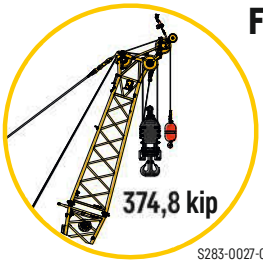
A

S283-0025-00



W

S283-0026-00



F

S283-0027-00



HSDWB/BV

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

HSL3AF

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

HSL3ADFB/BV

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

HSL6ADFB/BV

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

HSL9ADFB/BV

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

S3488.01

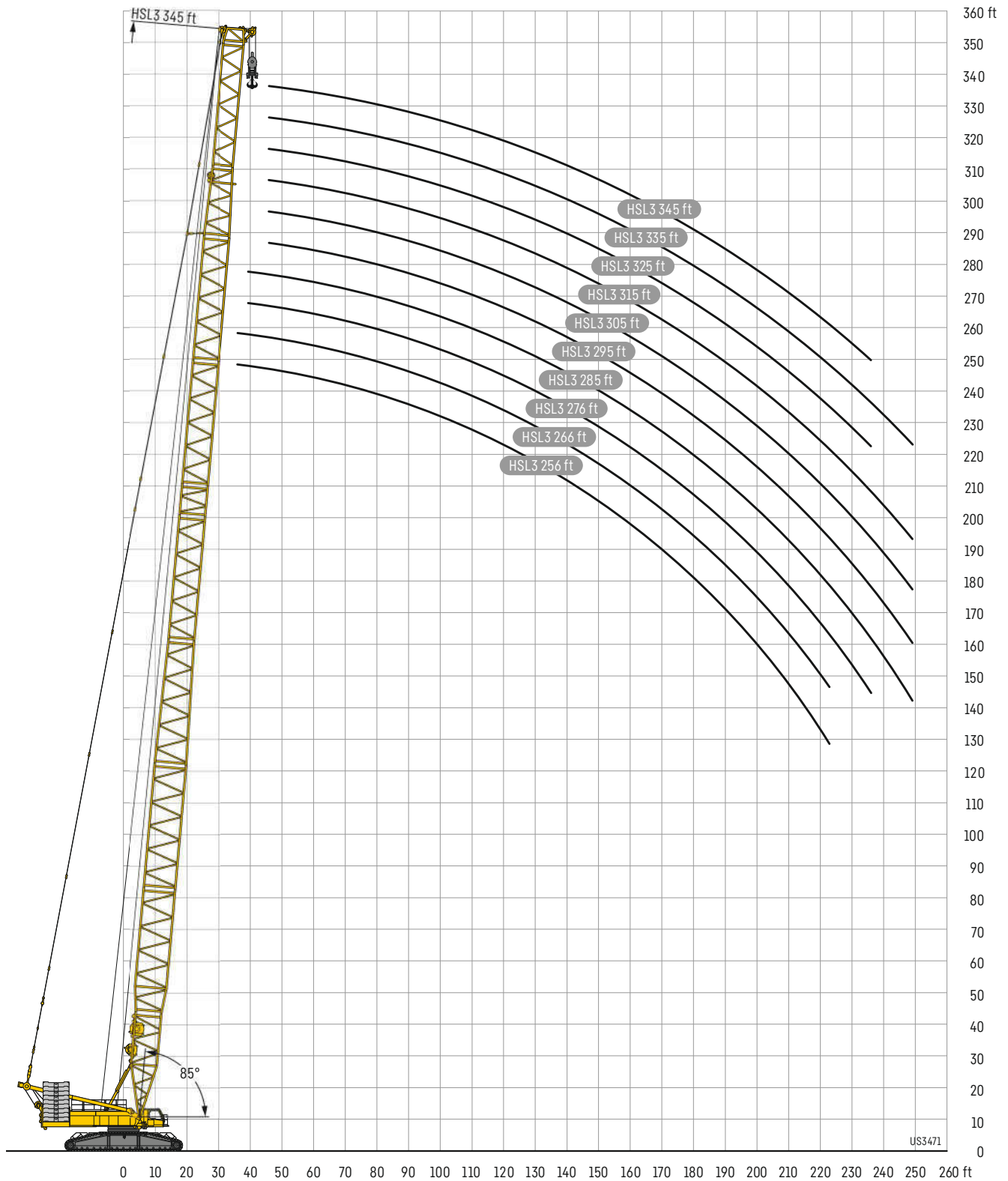
256 - 345 ft 	22,050 - 198,400 lb 	418,900 - 507,100 lb 286,600 - 416,700 lb 154,300 - 284,400 lb 0 lb
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HSL3 256 - 345 ft											
ft	256 ft	266 ft	276 ft	285 ft	295 ft	305 ft	315 ft	325 ft	335 ft	345 ft	ft
36	614	424									36
38	585	570	552								38
40	556	544	529	514	496						40
45	488	478	469	459	449	435	427	418	403	382	45
50	436	429	420	410	401	389	385	379	369	356	50
55	391	384	377	371	364	353	348	342	334	326	55
60	354	348	342	336	329	320	317	312	306	299	60
65	322	317	311	306	302	294	289	284	279	274	65
70	294	289	284	280	276	270	267	261	257	251	70
75	270	266	261	257	254	248	245	240	237	233	75
80	249	245	240	236	234	228	226	220	218	215	80
85	230	226	222	218	216	210	208	203	201	198	85
90	213	210	206	202	200	195	193	188	186	183	90
95	198	195	191	188	185	180	178	174	172	170	95
100	185	181	177	174	172	167	166	161	160	157	100
105	172	169	165	162	160	156	154	149	148	146	105
110	161	157	154	152	149	145	143	139	138	136	110
115	150	147	144	141	140	135	134	129	128	126	115
120	141	138	135	132	130	126	125	120	119	117	120
125	132	129	126	124	122	118	116	112	111	109	125
130	123	121	118	116	114	110	109	105	104	102	130
135	115	114	111	108	107	103	101	97.5	96.7	95	135
140	108	106	104	102	99.9	96.2	94.7	90.8	90.3	88.2	140
145	100	99.1	97.4	95	93.8	89.8	88.5	84.6	84	82.3	145
150	94	92.4	91	89.1	87.8	84	82.6	78.8	78.3	76.3	150
155	87.9	86.4	84.8	83.4	82.3	78.4	77.1	73.3	72.9	71.1	155
160	82.2	80.7	79.2	77.7	77	73.3	71.9	68.2	67.8	66	160
165	77	75.4	73.8	72.5	72	68.5	67.1	63.4	63	61.3	165
170	72.1	70.5	68.9	67.4	67.2	63.9	62.6	58.9	58.5	56.7	170
175	67.5	65.8	64.3	62.8	62.4	59.6	58.2	54.6	54.3	52.5	175
180	63.2	61.4	59.9	58.4	58.2	55.5	54.2	50.5	50.2	48.5	180
185	59.2	57.4	55.9	54.2	54	51.5	50.3	46.7	46.4	44.7	185
190	55.4	53.6	52.1	50.4	50.1	47.5	46.7	43.1	42.8	41	190
195	51.9	50	48.4	46.8	46.5	43.9	43.1	39.7	39.4	37.6	195
200	48.5	46.6	45	43.3	43	40.5	39.7	36.3	36.2	34.3	200
205	45.3	43.4	41.8	40.1	39.8	37.1	36.4	33.3	33	31.2	205
210	42.3	40.4	38.8	37	36.7	34.1	33.3	30.3	30.1	28.3	210
215	39.5	37.5	35.9	34.1	33.8	31.2	30.4	27.5	27.3	25.5	215
220	36.9	34.8	33.2	31.3	31	28.4	27.5	24.8	24.7	22.8	220
225	34.4	32.3	30.6	28.7	28.4	25.8	24.9	22.2	22.1	20.2	225
230		29.8	28.2	26.3	25.9	23.3	22.4	19.8	19.7	17.7	230
235			25.9	23.9	23.5	20.9	19.9	17.3	17.4	15.4	235
240			23.7	21.7	21.3	18.6	17.7	15	15.2	13.1	240
245				19.5	19.2	16.5	15.5	12.8	13.1	11	245
250				17.5	17.2	14.4	13.3				250
255					15.2	12.5	11.4				255

Lifting heights

Hauteurs de levage

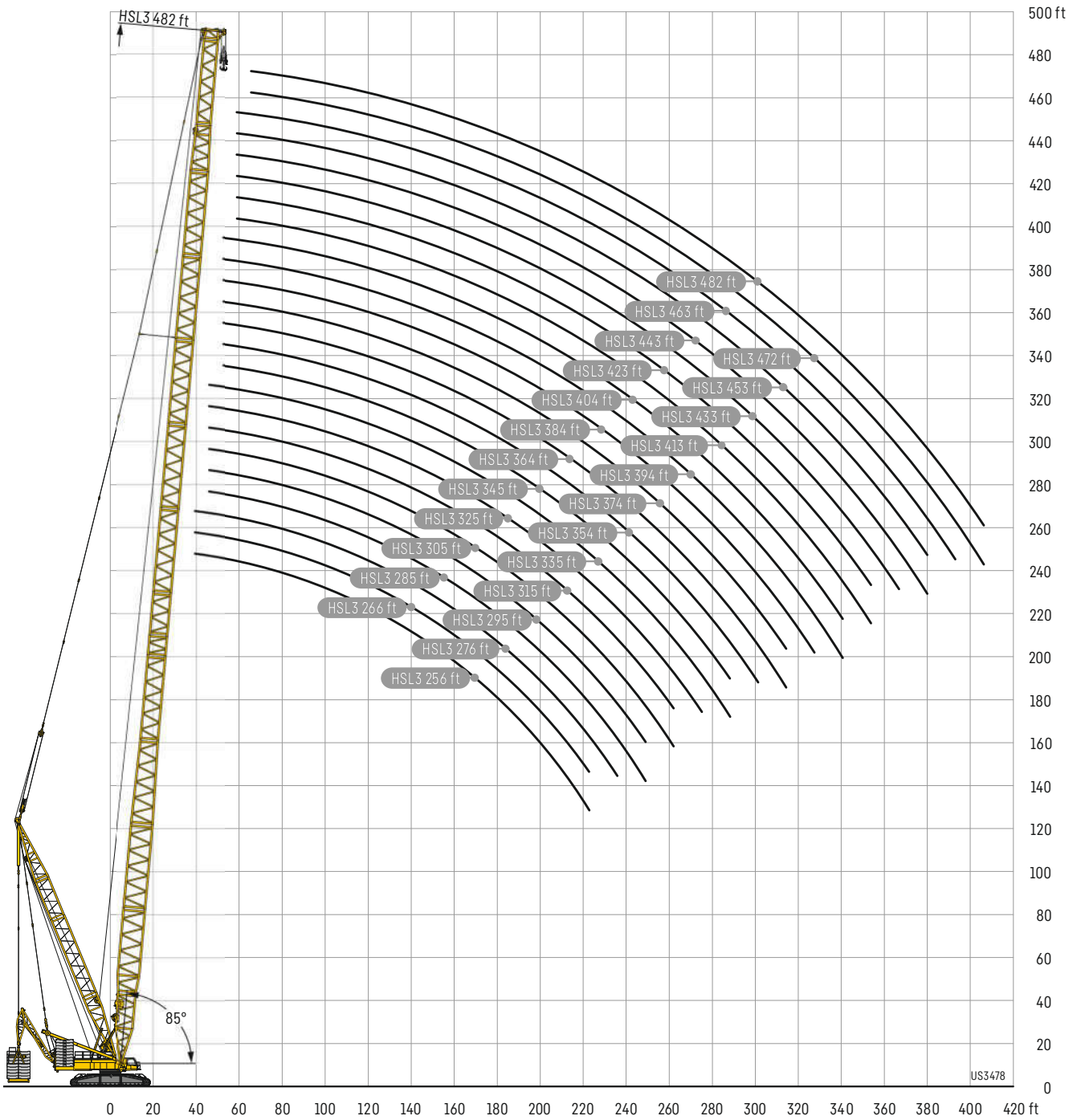
HSL3



Lifting heights

Hauteurs de levage

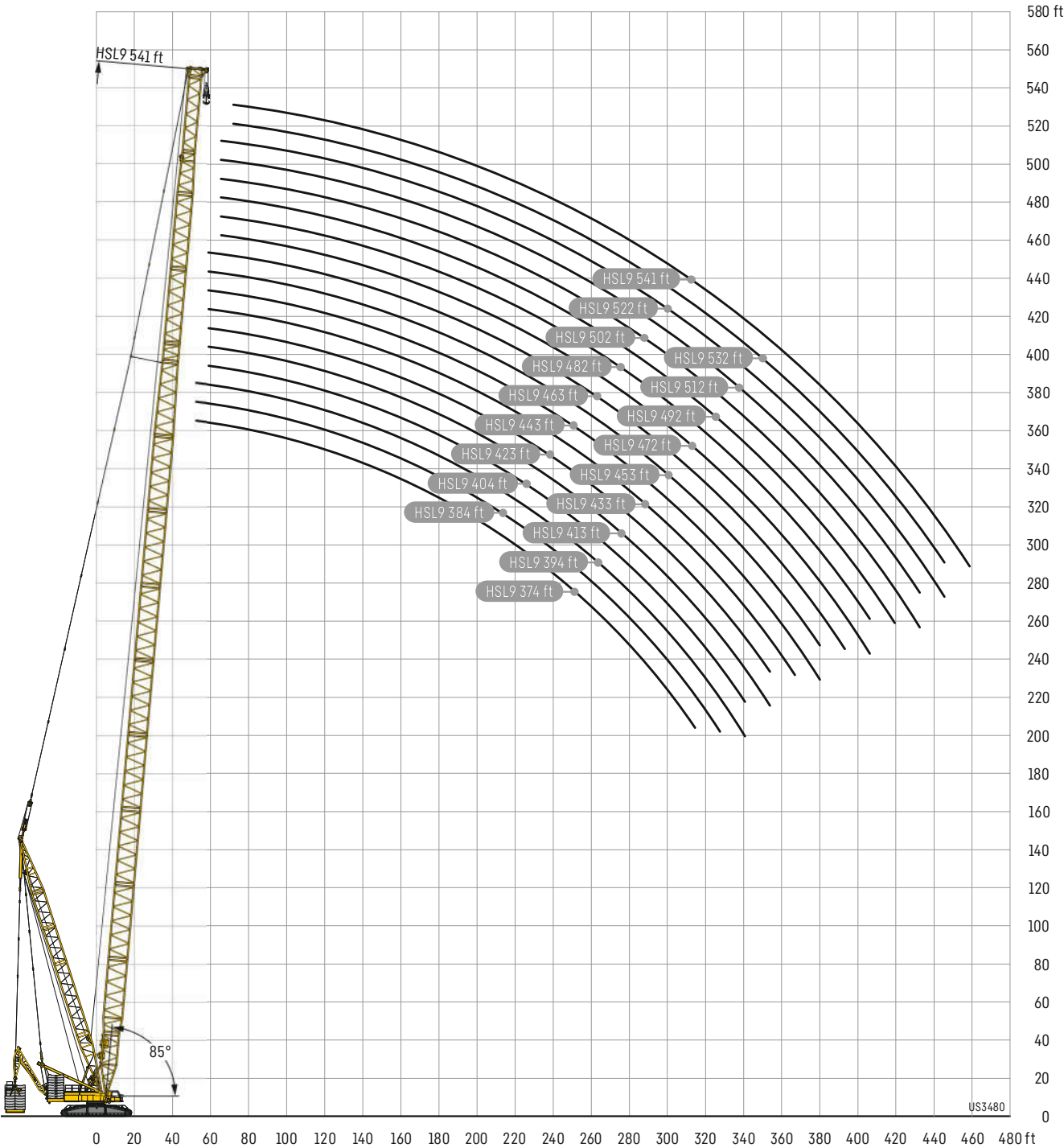
HSL3DB/BV



Lifting heights

Hauteurs de levage

HSL9DB/BV

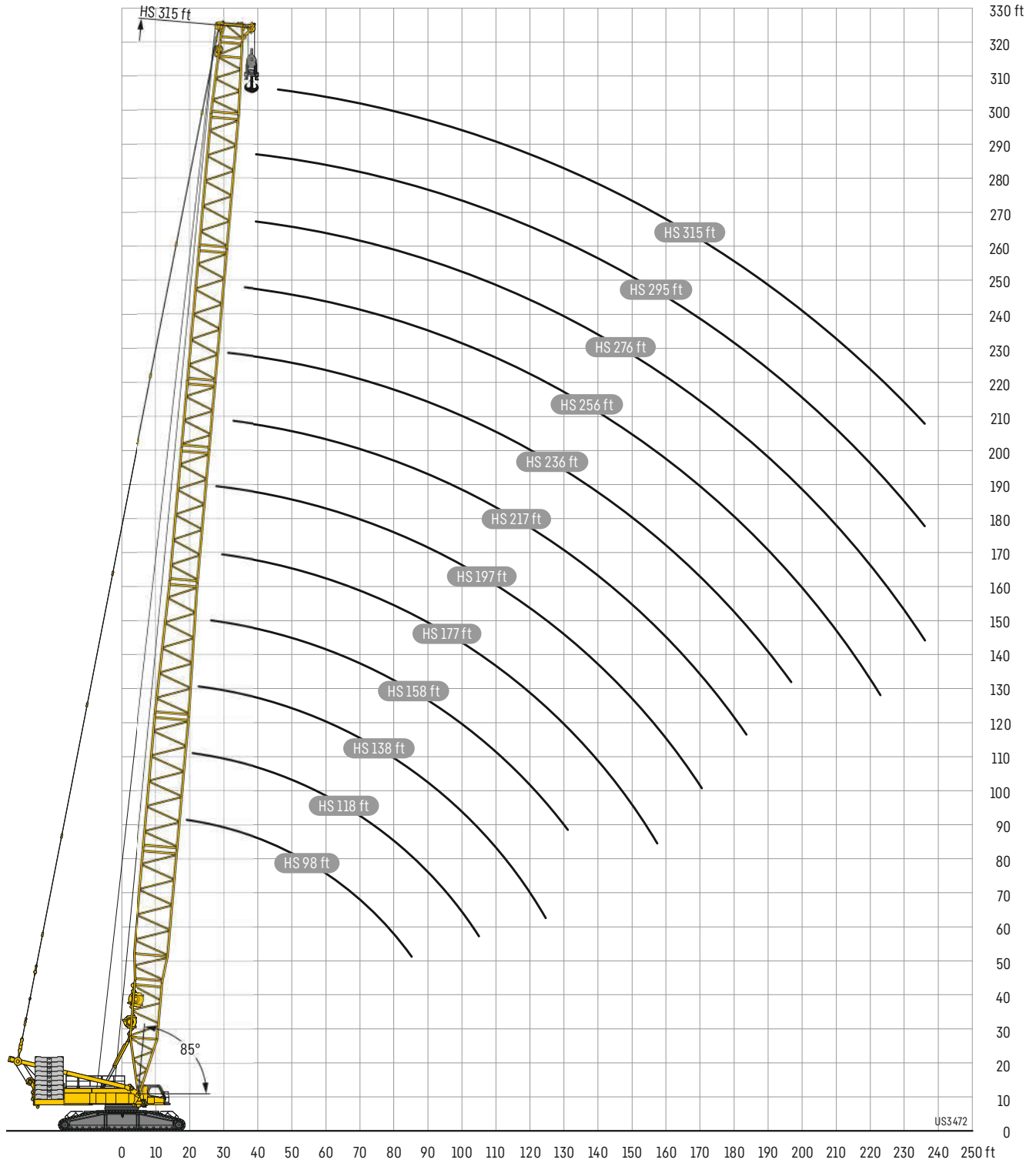


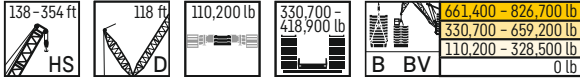
 98 - 315 ft HS	22,050 - 198,400 lb	 418,900 - 507,100 lb 286,600 - 416,700 lb 154,300 - 284,400 lb 0 lb
	 HS	

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

Lifting heights

Hauteurs de levage



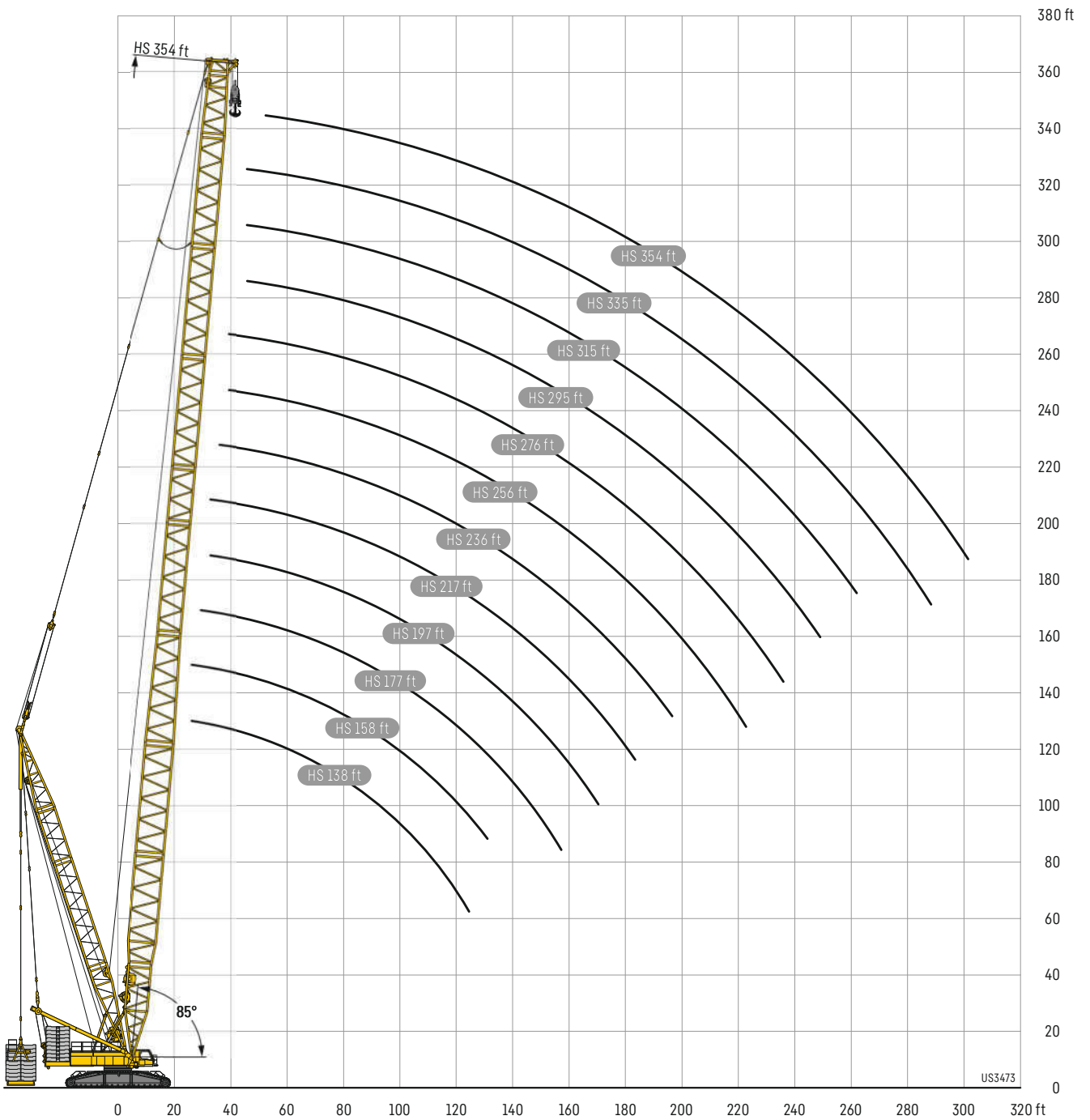


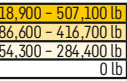
HS 138 - 354 ft													
ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	
26	Ot 1133 B 1322 BV 1322												
28	Ot 1041 B 1322 BV 1322	987 1322											
30	Ot 963 B 1322 BV 1322	925 1322	871 1322										
32	Ot 908 B 1322 BV 1322	857 1322	806 1322	767 1287									
34	Ot 843 B 1322 BV 1322	797 1322	752 1322	716 1289	684 1222								
36	Ot 785 B 1322 BV 1322	744 1322	703 1322	671 1291	642 1224	615 1095							
38	Ot 734 B 1322 BV 1321	696 1322	659 1322	629 1307	604 1241	580 1094	558 981						
40	Ot 689 B 1322 BV 1314	655 1322	621 1322	594 1310	570 1244	547 1092	528 979	508 876					
50	Ot 522 B 1251 BV 1238	499 1232	474 1219	456 1202	439 1153	424 1082	410 972	397 870	384 779	370 699	359 628	347 563	
60	Ot 416 B 1075 BV 1152	398 1063	378 1050	364 1108	351 1073	339 1030	330 960	320 881	310 797	299 713	290 638	280 559	
70	Ot 341 B 919 BV 993	327 912	310 902	298 891	288 883	279 872	272 852	263 818	256 764	246 688	239 619	231 556	
80	Ot 279 B 800 BV 865	274 794	260 785	250 780	241 772	233 765	227 757	220 745	214 725	206 677	199 615	192 550	
90	Ot 233 B 709 BV 768	229 701	221 693	211 686	204 683	197 678	192 671	186 665	180 655	173 636	168 601	161 539	
100	Ot 198 B 633 BV 687	194 628	187 617	181 613	174 608	168 604	164 602	158 596	153 589	147 581	142 568	136 524	
110	Ot 171 B 570 BV 615	166 566	159 557	155 551	150 548	144 544	140 541	136 538	131 534	125 526	120 519	115 496	
120	Ot 149 B 495 BV 536	144 514	137 506	133 501	130 496	124 493	121 491	116 487	112 484	107 479	102 474	97.1 464	
130	Ot B BV	126 470 511	119 462 503	114 457 498	112 453 494	108 449 490	104 447 488	100 444 484	96.1 441 481	90.9 437 477	87.1 434 464	81.9 427 441	
140	Ot B BV	111 420 457	103 425 463	99.2 420 459	96.4 417 455	93.6 412 450	90.4 410 448	86 407 444	82.4 405 442	77.3 400 437	73.6 397 432	68.8 393 415	
150	Ot B BV		90.8 393 429	86.3 387 424	83.2 384 420	80.5 381 416	78.3 378 414	74 374 409	70.5 372 408	65.4 369 404	61.8 366 400	57.3 361 391	
160	Ot B BV			75.4 359 393	72.1 355 388	69.1 352 385	67.6 350 384	63.4 346 380	60 344 377	55 340 373	51.5 338 371	47.1 334 365	
170	Ot B BV			66.1 334 366	62.5 330 362	59.4 326 358	58.2 325 356	54.1 322 353	50.8 319 351	45.9 315 346	42.4 312 343	38 309 340	
180	Ot B BV			54.3 308 339	50.8 304 334	49.4 302 332	49.4 299 328	45.8 297 327	42.7 297 327	37.7 293 323	34.3 290 319	29.9 286 316	
190	Ot B BV			47.3 289 318	43.4 284 313	41.9 282 311	41.9 279 307	38.6 277 305	35.3 277 305	30.5 273 302	27 270 298	22.6 266 294	
200	Ot B BV					37 267 294	35.1 264 291	32.1 260 287	28.8 259 286	23.9 255 282	20.5 253 280	16.1 249 275	
220	Ot B BV						24.1 233 258	20.8 229 254	17.9 228 252	12.7 224 248			
240	Ot B BV							11.7 203 227		201 224	197 220	195 217	191 214
260	Ot B BV									175 197	172 194	168 190	
280	Ot B BV										152 174	149 170	
300	Ot B BV											132 152	

Lifting heights

Hauteurs de levage

HSDB/BV





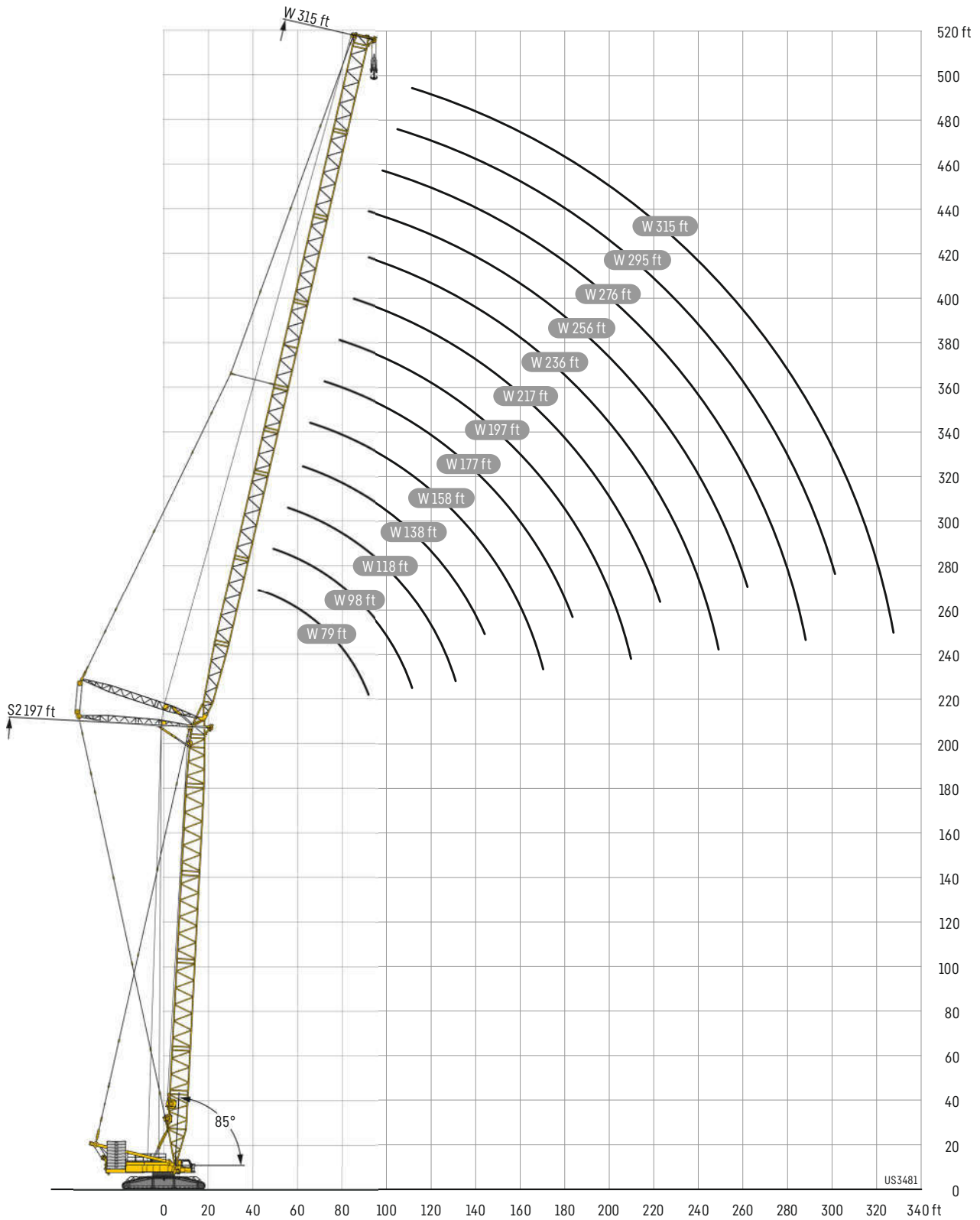
ft	S2 236 ft						ft
	W 158 ft		W 177 ft		W 197 ft		
	87/85°	Wmax	87/85°	Wmax	87/85°	Wmax	
70	225,0	225,0					70
80	212,0	212,0 ⁽²⁾	194,0	194,0	177,0	177,0	80
90	203,0*	203,0*	186,0*	186,0*	168,0	168,0	90
100	184,0	184,0	176,0*	176,0 ⁽²⁾	162,0*	162,0*	100
110	166,0	167,0 ⁽⁴⁾	159,0	159,0 ⁽³⁾	152,0*	152,0*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

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

Lifting heights

Hauteurs de levage

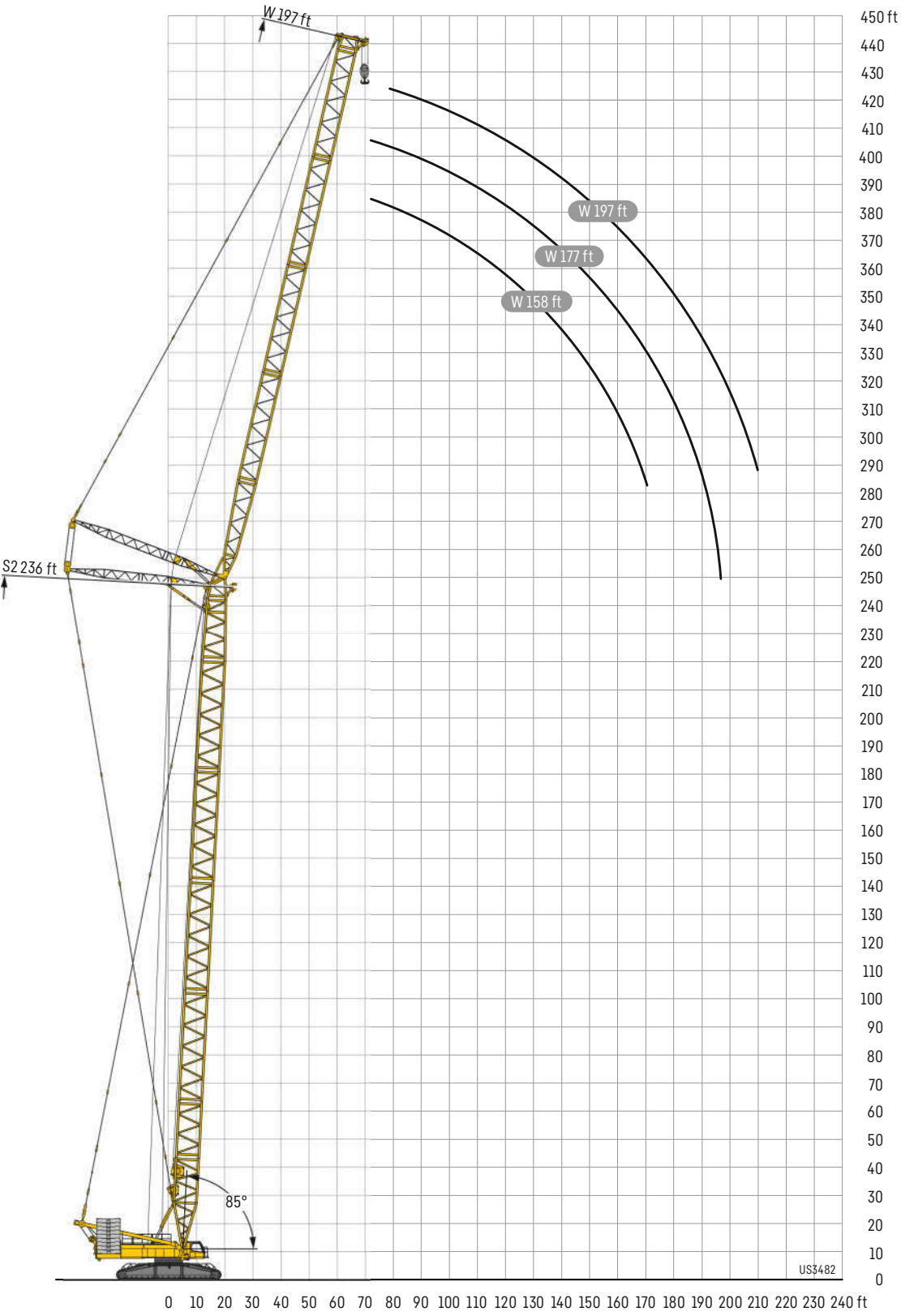
S2W



Lifting heights

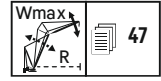
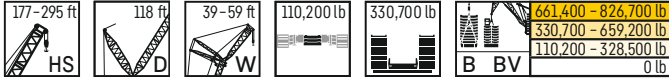
Hauteurs de levage

S2W



HSDWB/BV

HS 177 - 295



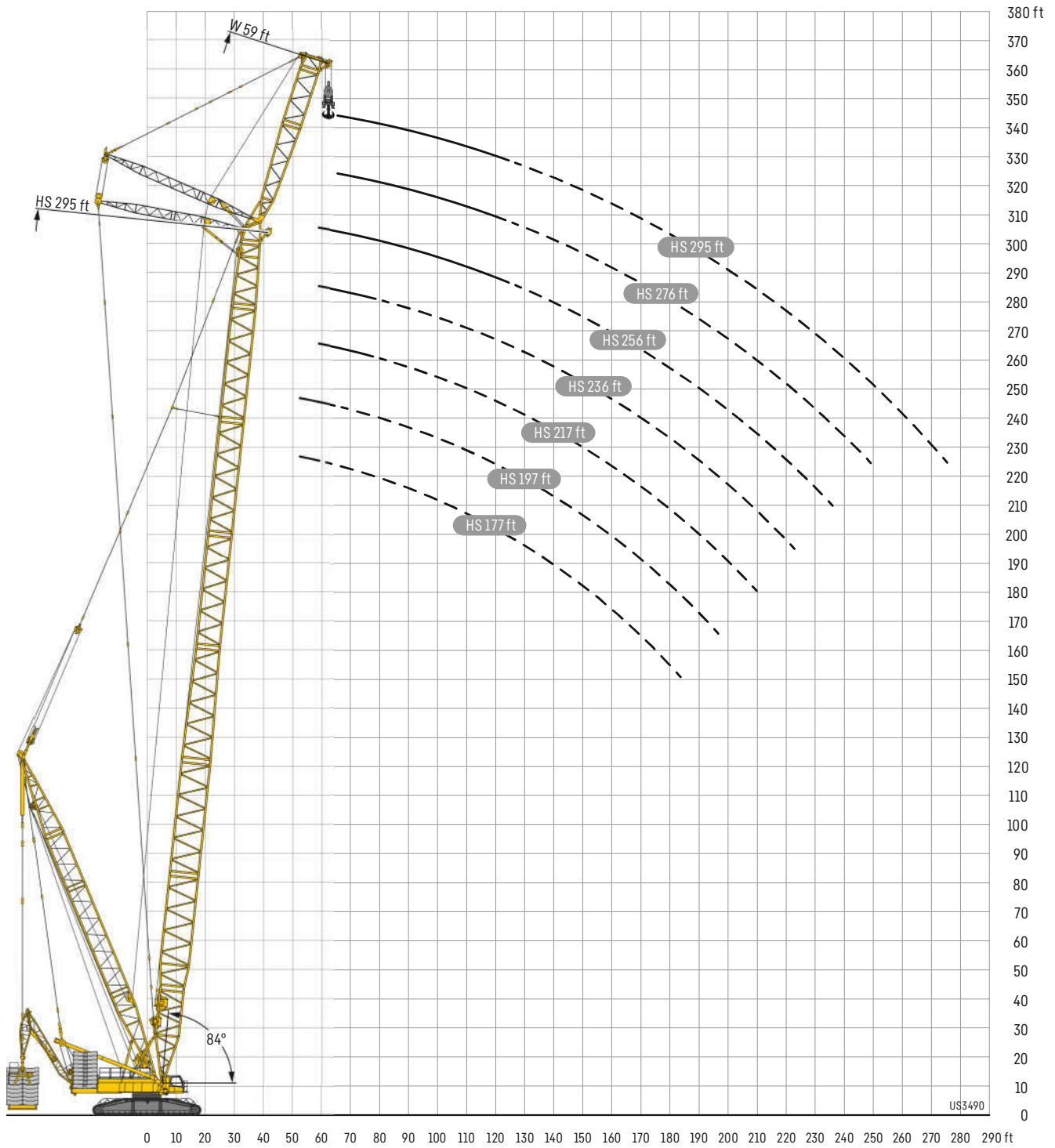
		HS 177 - 295 ft																										
		HS 177 ft				HS 197 ft				HS 217 ft				HS 236 ft				HS 256 ft				HS 276 ft				HS 295 ft		
		W39ft		W59ft		W39ft		W59ft		W39ft		W59ft		W39ft		W59ft		W39ft		W59ft		W39ft		W59ft		W59ft		
ft		84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	84	Wmax	
45	B	1077.0	1069.0 ¹⁾																									
	BV	1077.0	1077.0 ¹⁾																									
50	B	1014.0	1046.0 ²⁾	821.0	821.0 ²⁾	949.0	972.0 ²⁾			865.0	875.0 ²⁾			782.0														
	BV	1032.0	1076.0 ²⁾	826.0	826.0 ²⁾	969.0	1001.0 ²⁾			881.0	895.0 ²⁾			797.0														
60	B		990.0 ²⁾	846.0	849.0 ³⁾		938.0 ²⁾	795.0	799.0 ²⁾		855.0 ²⁾	732.0	753.0 ²⁾		777.0 ²⁾	664.0	682.0 ²⁾	659.0	695.0 ²⁾	605.0	612.0 ²⁾	599.0	620.0 ²⁾	549.0				
	BV		1059.0 ²⁾	860.0	865.0 ³⁾		994.0 ²⁾	800.0	811.0 ²⁾		894.0 ²⁾	743.0	762.0 ²⁾		796.0 ²⁾	677.0	695.0 ²⁾	671.0	711.0 ²⁾	616.0	623.0 ²⁾	609.0	633.0 ²⁾	558.0				
70	B		867.0 ²⁾		844.0 ²⁾		848.0 ²⁾		808.0 ²⁾		808.0 ²⁾		757.0 ²⁾		766.0 ²⁾	613.0	679.0 ²⁾		690.0 ²⁾	564.0	608.0 ²⁾		616.0 ²⁾	514.0	542.0 ²⁾	470.0	489.0 ²⁾	
	BV		939.0 ²⁾		879.0 ²⁾		920.0 ²⁾		813.0 ²⁾		864.0 ²⁾		769.0 ²⁾		789.0 ²⁾	627.0	692.0 ²⁾		709.0 ²⁾	574.0	621.0 ²⁾		632.0 ²⁾	523.0	556.0 ²⁾	476.0	498.0 ²⁾	
80	B		756.0 ⁴⁾		755.0 ³⁾		749.0 ⁴⁾		739.0 ³⁾		733.0 ⁴⁾		713.0 ²⁾		710.0 ⁴⁾		660.0 ²⁾		655.0 ³⁾		604.0 ²⁾		601.0 ²⁾		538.0 ²⁾		485.0 ²⁾	
	BV		830.0 ²⁾		827.0 ²⁾		821.0 ⁴⁾		785.0 ²⁾		789.0 ²⁾		738.0 ²⁾		741.0 ²⁾		680.0 ²⁾		687.0 ²⁾		620.0 ²⁾		624.0 ²⁾		554.0 ²⁾		498.0 ²⁾	
90	B		675.0 ⁴⁾		671.0 ⁴⁾		663.0 ⁴⁾		662.0 ⁴⁾		650.0 ⁴⁾		649.0 ⁴⁾		640.0 ⁴⁾		612.0 ⁴⁾		608.0 ⁴⁾		572.0 ⁴⁾		571.0 ⁴⁾		524.0 ⁴⁾		479.0 ⁴⁾	
	BV		747.0 ²⁾		735.0 ²⁾		733.0 ²⁾		718.0 ⁴⁾		715.0 ²⁾		690.0 ²⁾		693.0 ²⁾		650.0 ²⁾		657.0 ²⁾		603.0 ²⁾		610.0 ²⁾		547.0 ²⁾		498.0 ²⁾	
100	B		602.0 ⁴⁾		602.0 ²⁾		596.0 ²⁾		592.0 ²⁾		588.0 ²⁾		584.0 ⁴⁾		576.0 ²⁾		563.0 ⁴⁾		562.0 ²⁾		540.0 ²⁾		541.0 ²⁾		506.0 ²⁾		470.0 ²⁾	
	BV		667.0 ⁴⁾		667.0 ²⁾		661.0 ²⁾		655.0 ²⁾		652.0 ²⁾		640.0 ²⁾		639.0 ²⁾		620.0 ²⁾		623.0 ²⁾		586.0 ²⁾		595.0 ²⁾		536.0 ²⁾		497.0 ²⁾	
110	B		534.0 ⁴⁾		543.0 ³⁾		535.0 ⁴⁾		537.0 ²⁾		530.0 ³⁾		528.0 ²⁾		524.0 ²⁾		518.0 ²⁾		516.0 ²⁾		505.0 ²⁾		503.0 ²⁾		487.0 ²⁾		460.0 ²⁾	
	BV		594.0 ⁴⁾		602.0 ³⁾		594.0 ⁴⁾		595.0 ²⁾		589.0 ²⁾		587.0 ²⁾		582.0 ²⁾		574.0 ²⁾		573.0 ²⁾		560.0 ²⁾		558.0 ²⁾		525.0 ²⁾		496.0 ²⁾	
120	B		473.0 ²⁾		490.0 ⁴⁾		475.0 ⁴⁾		487.0 ⁴⁾		477.0 ⁴⁾		481.0 ³⁾		475.0 ⁴⁾		474.0 ²⁾		470.0 ³⁾		466.0 ²⁾		461.0 ²⁾		454.0 ²⁾		443.0 ²⁾	
	BV		528.0 ⁴⁾		544.0 ⁴⁾		530.0 ⁴⁾		541.0 ⁴⁾		532.0 ⁴⁾		535.0 ³⁾		529.0 ⁴⁾		527.0 ²⁾		523.0 ²⁾		518.0 ²⁾		513.0 ²⁾		495.0 ²⁾		484.0 ²⁾	
130	B		432.0 ⁴⁾		438.0 ⁴⁾		425.0 ²⁾		440.0 ⁴⁾		425.0 ⁴⁾		438.0 ⁴⁾		428.0 ⁴⁾		433.0 ⁴⁾		427.0 ⁴⁾		428.0 ²⁾		422.0 ²⁾		419.0 ²⁾		411.0 ²⁾	
	BV		483.0 ⁴⁾		488.0 ⁴⁾		476.0 ²⁾		490.0 ⁴⁾		475.0 ⁴⁾		488.0 ⁴⁾		478.0 ⁴⁾		483.0 ⁴⁾		477.0 ⁴⁾		476.0 ²⁾		469.0 ²⁾		460.0 ²⁾		454.0 ²⁾	
140	B		392.0 ⁴⁾		398.0 ⁴⁾		389.0 ⁴⁾		393.0 ⁴⁾		383.0 ⁴⁾		396.0 ⁴⁾		381.0 ⁴⁾		395.0 ⁴⁾		385.0 ⁴⁾		392.0 ⁴⁾		384.0 ⁴⁾		387.0 ⁴⁾		380.0 ⁴⁾	
	BV		439.0 ⁴⁾		445.0 ⁴⁾		437.0 ⁴⁾		440.0 ⁴⁾		430.0 ²⁾		443.0 ⁴⁾		427.0 ⁴⁾		442.0 ⁴⁾		431.0 ⁴⁾		439.0 ⁴⁾		428.0 ⁴⁾		426.0 ²⁾		421.0 ²⁾	
150	B		354.0 ⁴⁾		366.0 ⁴⁾		355.0 ⁴⁾		361.0 ⁴⁾		353.0 ⁴⁾		354.0 ⁴⁾		348.0 ⁴⁾		357.0 ⁴⁾		342.0 ⁴⁾		358.0 ⁴⁾		346.0 ⁴⁾		355.0 ⁴⁾		351.0 ⁴⁾	
	BV		399.0 ³⁾		410.0 ⁴⁾		399.0 ⁴⁾		405.0 ⁴⁾		397.0 ⁴⁾		397.0 ⁴⁾		391.0 ³⁾		400.0 ²⁾		386.0 ²⁾		401.0 ²⁾		388.0 ²⁾		392.0 ²⁾		389.0 ²⁾	
160	B		327.0 ⁴⁾		334.0 ⁴⁾		320.0 ³⁾		333.0 ⁴⁾		322.0 ⁴⁾		328.0 ⁴⁾		320.0 ⁴⁾		321.0 ⁴⁾		316.0 ³⁾		323.0 ⁴⁾		308.0 ²⁾		323.0 ⁴⁾		323.0 ⁴⁾	
	BV		369.0 ⁴⁾		376.0 ⁴⁾		362.0 ²⁾		374.0 ⁴⁾		364.0 ⁴⁾		369.0 ⁴⁾		362.0 ⁴⁾		362.0 ⁴⁾		357.0 ⁴⁾		364.0 ⁴⁾		349.0 ²⁾		360.0 ⁴⁾		359.0 ⁴⁾	
170	B		299.0 ⁴⁾		306.0 ⁴⁾		297.0 ⁴⁾		304.0 ⁴⁾		291.0 ⁴⁾		302.0 ⁴⁾		293.0 ⁴⁾		298.0 ⁴⁾		292.0 ⁴⁾		293.0 ⁴⁾		286.0 ⁴⁾		292.0 ⁴⁾		294.0 ⁴⁾	
	BV		339.0 ⁴⁾		345.0 ⁴⁾		336.0 ⁴⁾		344.0 ⁴⁾		330.0 ⁴⁾		342.0 ⁴⁾		332.0 ⁴⁾		337.0 ⁴⁾		331.0 ⁴⁾		331.0 ⁴⁾		325.0 ⁴⁾		329.0 ⁴⁾		330.0 ⁴⁾	
180	B				283.0 ⁴⁾		273.0 ⁴⁾		279.0 ⁴⁾		270.0 ⁴⁾		277.0 ⁴⁾		266.0 ⁴⁾		275.0 ⁴⁾		267.0 ⁴⁾		272.0 ⁴⁾		265.0 ⁴⁾		266.0 ⁴⁾		265.0 ⁴⁾	
	BV				321.0 ⁴⁾		310.0 ⁴⁾		316.0 ⁴⁾		307.0 ⁴⁾		314.0 ⁴⁾		303.0 ⁴⁾		312.0 ⁴⁾		304.0 ⁴⁾		309.0 ⁴⁾		301.0 ⁴⁾		303.0 ⁴⁾		301.0 ⁴⁾	
190	B				261.0 ⁴⁾				259.0 ⁴⁾		249.0 ⁴⁾		253.0 ⁴⁾		246.0 ⁴⁾		252.0 ⁴⁾		243.0 ⁴⁾		252.0 ⁴⁾		243.0 ⁴⁾		248.0 ⁴⁾		244.0 ⁴⁾	
	BV				296.0 ⁴⁾				294.0 ⁴⁾		284.0 ⁴⁾		288.0 ⁴⁾		281.0 ⁴⁾		288.0 ⁴⁾		278.0 ⁴⁾		287.0 ⁴⁾		278.0 ⁴⁾		283.0 ⁴⁾		279.0 ⁴⁾	
200	B								239.0 ⁴⁾		228.0 ⁴⁾		236.0 ⁴⁾		227.0 ⁴⁾		230.0 ⁴⁾		224.0 ⁴⁾		231.0 ⁴⁾		221.0 ⁴⁾		229.0 ⁴⁾		227.0 ⁴⁾	
	BV								273.0 ⁴⁾		262.0 ⁴⁾		269.0 ⁴⁾		261.0 ⁴⁾		264.0 ⁴⁾		258.0 ⁴⁾		265.0 ⁴⁾		254.0 ⁴⁾		262.0 ⁴⁾		260.0 ⁴⁾	
220	B												201.0 ⁴⁾				199.0 ⁴⁾		192.0 ⁴⁾		196.0 ⁴⁾		188.0 ⁴⁾		192.0 ⁴⁾		193.0 ⁴⁾	
	BV												231.0 ⁴⁾				230.0 ⁴⁾		222.0 ⁴⁾		227.0 ⁴⁾		219.0 ⁴⁾		222.0 ⁴⁾		224.0 ⁴⁾	
240	B																				168.0 ⁴⁾		159.0 ⁴⁾		165.0 ⁴⁾		163.0 ⁴⁾	
	BV																				196.0 ⁴⁾		188.0 ⁴⁾		194.0 ⁴⁾		191.0 ⁴⁾	
260	B																							140.0 ⁴⁾		140.0 ⁴⁾		
	BV																							166.0 ⁴⁾		166.0 ⁴⁾		

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

Lifting heights

Hauteurs de levage

HSDWB/BV

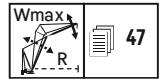


HSDWB/BV

HS 177



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



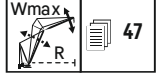
		HS 177 ft																											
		W79ft		W98ft		W118ft		W138ft		W158ft		W177ft		W197ft		W217ft		W236ft		W256ft		W276ft		W295ft		W315ft			
ft		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax		
45	B	783.0*	800.0 ¹⁾																										
45	BV																												
50	B	747.0*	805.0 ¹⁾	677.0*	682.0 ¹⁾																								
50	BV																												
60	B	752.0	798.0 ³⁾	684.0	691.0 ³⁾	572.0*	597.0 ³⁾	507.0*	509.0 ³⁾																				
60	BV	756.0	810.0 ³⁾	688.0	696.0 ³⁾																								
70	B	689.0	788.0 ³⁾	637.0	692.0 ³⁾	583.0	597.0 ³⁾	512.0	512.0	433.0*	442.0 ³⁾	378.0*	379.0 ³⁾	325.0*	325.0*														
70	BV	694.0	812.0 ³⁾	640.0	699.0 ³⁾	585.0	603.0 ³⁾	517.0	517.0																				
80	B	624.0	741.0 ²⁾	591.0	693.0 ³⁾	547.0	596.0 ³⁾	499.0	499.0	440.0	440.0	380.0	380.0	313.0*	318.0 ³⁾	276.0*	277.0 ³⁾	234.0*	234.0*										
80	BV	629.0	779.0 ²⁾	593.0	703.0 ³⁾	550.0	603.0 ³⁾	500.0	500.0	444.0	444.0	382.0	382.0																
90	B	527.0	665.0 ³⁾	543.0	654.0 ²⁾	512.0	589.0 ³⁾	472.0	499.0 ³⁾	428.0	431.0 ³⁾	368.0	368.0	311.0	311.0	276.0	276.0	228.0*	230.0 ³⁾	197.0*	197.0 ³⁾	169.0*	169.0*						
90	BV	528.0	719.0 ³⁾	547.0	670.0 ²⁾	516.0	599.0 ³⁾	475.0	504.0 ³⁾	432.0	436.0 ³⁾	371.0	371.0	313.0	313.0	278.0	278.0												
100	B	411.0	599.0 ³⁾	470.0	592.0 ³⁾	473.0	566.0 ²⁾	442.0	499.0 ³⁾	408.0	427.0 ³⁾	350.0	356.0 ²⁾	296.0	296.0	271.0	271.0	227.0	227.0	195.0	195.0 ³⁾	165.0*	166.0 ³⁾	142.0*	142.0 ³⁾	121.0*	121.0*		
100	BV	411.0	656.0 ³⁾	471.0	633.0 ³⁾	477.0	583.0 ²⁾	447.0	508.0 ³⁾	412.0	432.0 ³⁾	354.0	361.0 ²⁾	299.0	299.0	274.0	274.0	229.0	229.0	196.0	196.0								
110	B		541.0 ³⁾	391.0	538.0 ³⁾	416.0	531.0 ³⁾	416.0	489.0 ³⁾	386.0	423.0 ³⁾	333.0	350.0 ²⁾	283.0	289.0 ³⁾	266.0	266.0 ³⁾	224.0	224.0	192.0	192.0	164.0	164.0	139.0	140.0 ³⁾	118.0*	119.0 ³⁾		
110	BV		600.0 ³⁾	391.0	590.0 ³⁾	415.0	556.0 ³⁾	417.0	505.0 ³⁾	391.0	429.0 ³⁾	337.0	355.0 ²⁾	286.0	292.0 ³⁾	269.0	269.0 ³⁾	225.0	225.0	193.0	193.0	165.0	165.0	140.0	140.0				
120	B		492.0 ³⁾	304.0	489.0 ³⁾	362.0	496.0 ³⁾	369.0	463.0 ³⁾	362.0	416.0 ³⁾	315.0	345.0 ²⁾	270.0	284.0 ³⁾	261.0	264.0 ³⁾	220.0	221.0 ³⁾	189.0	189.0	162.0	162.0	139.0	139.0	118.0	118.0 ³⁾		
120	BV		546.0 ³⁾	304.0	543.0 ³⁾	362.0	530.0 ³⁾	369.0	490.0 ³⁾	364.0	423.0 ³⁾	319.0	349.0 ²⁾	272.0	287.0 ³⁾	263.0	267.0 ³⁾	222.0	223.0 ³⁾	190.0	190.0	163.0	163.0	139.0	139.0	118.0	118.0		
130	B		450.0 ³⁾		448.0 ³⁾	307.0	465.0 ³⁾	324.0	436.0 ³⁾	325.0	406.0 ³⁾	298.0	338.0 ³⁾	257.0	279.0 ³⁾	255.0	263.0 ³⁾	217.0	220.0 ³⁾	186.0	187.0 ³⁾	160.0	160.0	136.0	136.0	116.0	116.0		
130	BV		500.0 ³⁾		498.0 ³⁾	308.0	495.0 ³⁾	324.0	476.0 ³⁾	325.0	413.0 ³⁾	302.0	342.0 ³⁾	259.0	282.0 ³⁾	258.0	266.0 ³⁾	219.0	222.0 ³⁾	187.0	188.0 ³⁾	161.0	161.0	137.0	137.0	116.0	116.0		
140	B		414.0 ³⁾		413.0 ³⁾	243.0	435.0 ³⁾	289.0	408.0 ³⁾	288.0	397.0 ³⁾	282.0	330.0 ³⁾	243.0	273.0 ³⁾	250.0	261.0 ³⁾	214.0	219.0 ³⁾	183.0	185.0 ³⁾	157.0	158.0 ³⁾	134.0	134.0 ³⁾	114.0	114.0		
140	BV		457.0 ³⁾		459.0 ³⁾	243.0	458.0 ³⁾	289.0	449.0 ³⁾	288.0	403.0 ³⁾	285.0	334.0 ³⁾	245.0	276.0 ³⁾	253.0	264.0 ³⁾	216.0	221.0 ³⁾	184.0	187.0 ³⁾	158.0	159.0 ³⁾	135.0	135.0 ³⁾	114.0	114.0		
150	B		379.0 ³⁾		382.0 ³⁾		404.0 ³⁾	248.0	379.0 ³⁾	260.0	375.0 ³⁾	261.0	322.0 ³⁾	228.0	266.0 ³⁾	245.0	258.0 ³⁾	211.0	218.0 ³⁾	180.0	184.0 ³⁾	155.0	157.0 ³⁾	132.0	133.0 ³⁾	112.0	112.0 ³⁾		
150	BV		417.0 ³⁾		422.0 ³⁾		426.0 ³⁾	248.0	419.0 ³⁾	260.0	386.0 ³⁾	262.0	327.0 ³⁾	230.0	269.0 ³⁾	247.0	261.0 ³⁾	212.0	220.0 ³⁾	181.0	185.0 ³⁾	156.0	158.0 ³⁾	133.0	134.0 ³⁾	112.0	113.0 ³⁾		
160	B		345.0 ³⁾		353.0 ³⁾		373.0 ³⁾	198.0	353.0 ³⁾	228.0	350.0 ³⁾	239.0	310.0 ³⁾	215.0	259.0 ³⁾	237.0	255.0 ³⁾	207.0	215.0 ³⁾	177.0	182.0 ³⁾	152.0	155.0 ³⁾	130.0	131.0 ³⁾	110.0	111.0 ³⁾		
160	BV		383.0 ³⁾		388.0 ³⁾		397.0 ³⁾	199.0	389.0 ³⁾	228.0	367.0 ³⁾	239.0	318.0 ³⁾	216.0	262.0 ³⁾	239.0	259.0 ³⁾	209.0	217.0 ³⁾	178.0	184.0 ³⁾	153.0	156.0 ³⁾	131.0	132.0 ³⁾	110.0	111.0 ³⁾		
170	B		317.0 ³⁾		323.0 ³⁾		342.0 ³⁾		327.0 ³⁾	197.0	325.0 ³⁾	214.0	296.0 ³⁾	203.0	252.0 ³⁾	218.0	251.0 ³⁾	203.0	214.0 ³⁾	174.0	180.0 ³⁾	150.0	153.0 ³⁾	128.0	130.0 ³⁾	108.0	109.0 ³⁾		
170	BV		357.0 ³⁾		356.0 ³⁾		369.0 ³⁾		359.0 ³⁾	197.0	347.0 ³⁾	214.0	309.0 ³⁾	204.0	255.0 ³⁾	218.0	255.0 ³⁾	205.0	216.0 ³⁾	176.0	182.0 ³⁾	151.0	155.0 ³⁾	129.0	131.0 ³⁾	109.0	110.0 ³⁾		
180	B		293.0 ³⁾		297.0 ³⁾		311.0 ³⁾		303.0 ³⁾	156.0	302.0 ³⁾	190.0	282.0 ³⁾	193.0	245.0 ³⁾	198.0	246.0 ³⁾	197.0	212.0 ³⁾	172.0	179.0 ³⁾	148.0	152.0 ³⁾	126.0	128.0 ³⁾	106.0	108.0 ³⁾		
180	BV		330.0 ³⁾		334.0 ³⁾		340.0 ³⁾		331.0 ³⁾	156.0	327.0 ³⁾	190.0	300.0 ³⁾	194.0	247.0 ³⁾	198.0	249.0 ³⁾	198.0	214.0 ³⁾	173.0	181.0 ³⁾	149.0	153.0 ³⁾	127.0	129.0 ³⁾	107.0	108.0 ³⁾		
190	B		267.0 ³⁾		276.0 ³⁾		280.0 ³⁾		280.0 ³⁾		281.0 ³⁾	165.0	268.0 ³⁾	178.0	237.0 ³⁾	182.0	241.0 ³⁾	184.0	210.0 ³⁾	169.0	177.0 ³⁾	146.0	151.0 ³⁾	124.0	127.0 ³⁾	104.0	106.0 ³⁾		
190	BV		303.0 ³⁾		312.0 ³⁾		313.0 ³⁾		310.0 ³⁾		308.0 ³⁾	165.0	291.0 ³⁾	178.0	240.0 ³⁾	182.0	243.0 ³⁾	184.0	212.0 ³⁾	171.0	179.0 ³⁾	147.0	152.0 ³⁾	125.0	128.0 ³⁾	105.0	107.0 ³⁾		
200	B		249.0 ³⁾		256.0 ³⁾		263.0 ³⁾		261.0 ³⁾		261.0 ³⁾	131.0	255.0 ³⁾	159.0	230.0 ³⁾	167.0	232.0 ³⁾	169.0	208.0 ³⁾	165.0	176.0 ³⁾	144.0	149.0 ³⁾	122.0	126.0 ³⁾	103.0	105.0 ³⁾		
200	BV		283.0 ³⁾		290.0 ³⁾		295.0 ³⁾		293.0 ³⁾		290.0 ³⁾	131.0	282.0 ³⁾	159.0	232.0 ³⁾	167.0	236.0 ³⁾	169.0	211.0 ³⁾	166.0	177.0 ³⁾	145.0	150.0 ³⁾	123.0	127.0 ³⁾	103.0	105.0 ³⁾		
220	B				219.0 ³⁾		228.0 ³⁾		232.0 ³⁾		231.0 ³⁾		228.0 ³⁾	109.0	215.0 ³⁾	134.0	216.0 ³⁾	143.0	197.0 ³⁾	142.0	171.0 ³⁾	137.0	146.0 ³⁾	118.0	123.0 ³⁾	98.7	102.0 ³⁾		
220	BV				250.0 ³⁾		258.0 ³⁾		259.0 ³⁾		258.0 ³⁾		256.0 ³⁾	109.0	217.0 ³⁾	134.0	223.0 ³⁾	143.0	198.0 ³⁾	142.0	173.0 ³⁾	137.0	148.0 ³⁾	119.0	124.0 ³⁾	99.3	103.0 ³⁾		
240	B						196.0 ³⁾		202.0 ³⁾		207.0 ³⁾		205.0 ³⁾		195.0 ³⁾		199.0 ³⁾	116.0	190.0 ³⁾	121.0	163.0 ³⁾	119.0	143.0 ³⁾	114.0	120.0 ³⁾	95.1	99.3 ³⁾		
240	BV						224.0 ³⁾		227.0 ³⁾		227.0 ³⁾		226.0 ³⁾		204.0 ³⁾		209.0 ³⁾	116.0	191.0 ³⁾	121.0	164.0 ³⁾	119.0	144.0 ³⁾	115.0	121.0 ³⁾	95.7	99.9 ³⁾		
260	B						175.0 ³⁾		182.0 ³⁾		181.0 ³⁾		182.0 ³⁾		175.0 ³⁾		175.0 ³⁾	97.5	156.0 ³⁾	102.0	136.0 ³⁾	102.0	117.0 ³⁾	92.0	96.8 ³⁾				
260	BV						201.0 ³⁾		204.0 ³⁾		204.0 ³⁾		201.0 ³⁾		191.0 ³⁾														

HSDWB/BV

HS 197



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



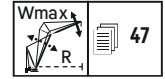
ft		HS 197 ft																										
		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft		
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	
45	B	725.0*	734.0 ⁰¹																									
	BV																											
50	B	684.0*	736.0 ⁰¹	625.0*	631.0 ⁰¹																							
	BV																											
60	B	696.0	736.0 ⁰¹	633.0	637.0 ⁰¹	528.0*	549.0 ⁰¹	471.0*	472.0 ⁰¹																			
	BV	697.0	739.0 ⁰¹	634.0	638.0 ⁰¹																							
70	B	630.0	733.0 ⁰¹	590.0	635.0 ⁰¹	538.0	551.0 ⁰¹	477.0	477.0 ⁰¹	404.0*	412.0 ⁰¹	354.0*	355.0 ⁰¹															
	BV	641.0	739.0 ⁰¹	590.0	638.0 ⁰¹	539.0	556.0 ⁰¹	481.0	481.0																			
80	B	567.0	711.0 ⁰¹	546.0	632.0 ⁰¹	507.0	549.0 ⁰¹	461.0	461.0	412.0	412.0	358.0	358.0	297.0*	301.0 ⁰¹	262.0*	262.0 ⁰¹											
	BV	580.0	725.0 ⁰¹	549.0	638.0 ⁰¹	507.0	556.0 ⁰¹	461.0	461.0	415.0	415.0	360.0	360.0															
90	B	507.0	651.0 ⁰¹	494.0	607.0 ⁰¹	474.0	547.0 ⁰¹	436.0	456.0 ⁰¹	398.0	400.0 ⁰¹	349.0	349.0	296.0	296.0	256.0*	260.0 ⁰¹	218.0*	219.0 ⁰¹	187.0*	188.0 ⁰¹	161.0*	161.0*					
	BV	524.0	682.0 ⁰¹	507.0	625.0 ⁰¹	476.0	557.0 ⁰¹	438.0	458.0 ⁰¹	400.0	402.0 ⁰¹	352.0	352.0	298.0	298.0													
100	B	444.0	589.0 ⁰¹	441.0	569.0 ⁰¹	431.0	525.0 ⁰¹	409.0	455.0 ⁰¹	377.0	399.0 ⁰¹	333.0	337.0 ⁰¹	284.0	284.0	257.0	257.0	217.0	217.0	183.0*	186.0 ⁰¹	157.0*	159.0 ⁰¹	136.0*	136.0 ⁰¹	116.0*	116.0*	
	BV	445.0	639.0 ⁰¹	456.0	602.0 ⁰¹	443.0	536.0 ⁰¹	412.0	460.0 ⁰¹	380.0	403.0 ⁰¹	338.0	342.0 ⁰¹	286.0	286.0	259.0	259.0	219.0	219.0									
110	B		536.0 ⁰¹	398.0	528.0 ⁰¹	394.0	498.0 ⁰¹	382.0	455.0 ⁰¹	359.0	399.0 ⁰¹	318.0	333.0 ⁰¹	272.0	276.0 ⁰¹	252.0	252.0	214.0	214.0	183.0	183.0	157.0	157.0 ⁰¹	133.0*	134.0 ⁰¹	113.0*	114.0 ⁰¹	
	BV		589.0 ⁰¹	406.0	576.0 ⁰¹	407.0	519.0 ⁰¹	388.0	462.0 ⁰¹	361.0	404.0 ⁰¹	323.0	338.0 ⁰¹	275.0	279.0 ⁰¹	255.0	255.0	215.0	215.0	185.0	185.0	158.0	158.0					
120	B		485.0 ⁰¹	324.0	486.0 ⁰¹	362.0	471.0 ⁰¹	353.0	437.0 ⁰¹	340.0	397.0 ⁰¹	303.0	329.0 ⁰¹	260.0	273.0 ⁰¹	247.0	250.0 ⁰¹	211.0	211.0 ⁰¹	181.0	181.0	155.0	155.0	133.0	133.0	113.0	113.0 ⁰¹	
	BV		539.0 ⁰¹	324.0	534.0 ⁰¹	371.0	505.0 ⁰¹	364.0	458.0 ⁰¹	343.0	404.0 ⁰¹	307.0	334.0 ⁰¹	263.0	276.0 ⁰¹	250.0	253.0 ⁰¹	212.0	213.0 ⁰¹	182.0	182.0	156.0	156.0	134.0	134.0	113.0	113.0	
130	B		444.0 ⁰¹		443.0 ⁰¹	317.0	444.0 ⁰¹	326.0	419.0 ⁰¹	318.0	388.0 ⁰¹	289.0	325.0 ⁰¹	249.0	269.0 ⁰¹	242.0	249.0 ⁰¹	208.0	210.0 ⁰¹	178.0	179.0 ⁰¹	153.0	153.0	131.0	131.0	111.0	111.0	
	BV		494.0 ⁰¹		491.0 ⁰¹	318.0	484.0 ⁰¹	331.0	455.0 ⁰¹	325.0	398.0 ⁰¹	292.0	330.0 ⁰¹	251.0	272.0 ⁰¹	245.0	252.0 ⁰¹	210.0	212.0 ⁰¹	180.0	180.0 ⁰¹	154.0	154.0	132.0	132.0	112.0	112.0	
140	B		409.0 ⁰¹		407.0 ⁰¹	259.0	417.0 ⁰¹	296.0	399.0 ⁰¹	292.0	380.0 ⁰¹	274.0	318.0 ⁰¹	236.0	264.0 ⁰¹	237.0	248.0 ⁰¹	205.0	209.0 ⁰¹	176.0	178.0 ⁰¹	151.0	152.0 ⁰¹	129.0	129.0 ⁰¹	109.0	109.0	
	BV		455.0 ⁰¹		453.0 ⁰¹	259.0	451.0 ⁰¹	296.0	443.0 ⁰¹	294.0	391.0 ⁰¹	277.0	323.0 ⁰¹	239.0	267.0 ⁰¹	240.0	251.0 ⁰¹	207.0	211.0 ⁰¹	177.0	179.0 ⁰¹	152.0	153.0 ⁰¹	130.0	130.0	110.0	110.0	
150	B		377.0 ⁰¹		377.0 ⁰¹		390.0 ⁰¹	256.0	372.0 ⁰¹	266.0	367.0 ⁰¹	259.0	312.0 ⁰¹	223.0	259.0 ⁰¹	232.0	246.0 ⁰¹	202.0	209.0 ⁰¹	173.0	177.0 ⁰¹	149.0	150.0 ⁰¹	127.0	128.0 ⁰¹	108.0	108.0 ⁰¹	
	BV		419.0 ⁰¹		420.0 ⁰¹		419.0 ⁰¹	256.0	415.0 ⁰¹	266.0	381.0 ⁰¹	262.0	317.0 ⁰¹	225.0	262.0 ⁰¹	235.0	250.0 ⁰¹	204.0	211.0 ⁰¹	174.0	178.0 ⁰¹	150.0	151.0 ⁰¹	128.0	129.0 ⁰¹	108.0	108.0 ⁰¹	
160	B		345.0 ⁰¹		351.0 ⁰¹		363.0 ⁰¹	212.0	347.0 ⁰¹	234.0	344.0 ⁰¹	242.0	304.0 ⁰¹	212.0	253.0 ⁰¹	226.0	243.0 ⁰¹	199.0	207.0 ⁰¹	170.0	176.0 ⁰¹	146.0	149.0 ⁰¹	125.0	127.0 ⁰¹	106.0	106.0 ⁰¹	
	BV		383.0 ⁰¹		389.0 ⁰¹		388.0 ⁰¹	212.0	386.0 ⁰¹	234.0	362.0 ⁰¹	243.0	310.0 ⁰¹	214.0	256.0 ⁰¹	227.0	247.0 ⁰¹	201.0	209.0 ⁰¹	172.0	177.0 ⁰¹	148.0	150.0 ⁰¹	126.0	127.0 ⁰¹	106.0	107.0 ⁰¹	
170	B		313.0 ⁰¹		324.0 ⁰¹		336.0 ⁰¹		324.0 ⁰¹	203.0	322.0 ⁰¹	219.0	293.0 ⁰¹	200.0	247.0 ⁰¹	217.0	242.0 ⁰¹	196.0	206.0 ⁰¹	168.0	174.0 ⁰¹	144.0	148.0 ⁰¹	123.0	125.0 ⁰¹	104.0	105.0 ⁰¹	
	BV		351.0 ⁰¹		359.0 ⁰¹		360.0 ⁰¹		358.0 ⁰¹	203.0	342.0 ⁰¹	219.0	301.0 ⁰¹	202.0	250.0 ⁰¹	218.0	246.0 ⁰¹	198.0	208.0 ⁰¹	169.0	176.0 ⁰¹	146.0	149.0 ⁰¹	124.0	126.0 ⁰¹	105.0	106.0 ⁰¹	
180	B		290.0 ⁰¹		297.0 ⁰¹		310.0 ⁰¹		303.0 ⁰¹	167.0	301.0 ⁰¹	195.0	279.0 ⁰¹	191.0	241.0 ⁰¹	201.0	239.0 ⁰¹	193.0	205.0 ⁰¹	165.0	173.0 ⁰¹	142.0	146.0 ⁰¹	121.0	124.0 ⁰¹	102.0	104.0 ⁰¹	
	BV		327.0 ⁰¹		330.0 ⁰¹		335.0 ⁰¹		332.0 ⁰¹	167.0	323.0 ⁰¹	194.0	291.0 ⁰¹	192.0	244.0 ⁰¹	202.0	243.0 ⁰¹	195.0	207.0 ⁰¹	167.0	174.0 ⁰¹	144.0	147.0 ⁰¹	122.0	125.0 ⁰¹	103.0	105.0 ⁰¹	
190	B		267.0 ⁰¹		274.0 ⁰¹		283.0 ⁰¹		282.0 ⁰¹		281.0 ⁰¹	170.0	266.0 ⁰¹	179.0	234.0 ⁰¹	185.0	237.0 ⁰¹	185.0	203.0 ⁰¹	163.0	171.0 ⁰¹	140.0	146.0 ⁰¹	120.0	122.0 ⁰¹	101.0	103.0 ⁰¹	
	BV		303.0 ⁰¹		308.0 ⁰¹		310.0 ⁰¹		307.0 ⁰¹		304.0 ⁰¹	170.0	282.0 ⁰¹	180.0	237.0 ⁰¹	185.0	241.0 ⁰¹	187.0	205.0 ⁰¹	164.0	173.0 ⁰¹	142.0	147.0 ⁰¹	121.0	123.0 ⁰¹	101.0	104.0 ⁰¹	
200	B		245.0 ⁰¹		254.0 ⁰¹		259.0 ⁰¹		261.0 ⁰¹		262.0 ⁰¹	139.0	252.0 ⁰¹	164.0	228.0 ⁰¹	169.0	231.0 ⁰¹	172.0	202.0 ⁰¹	160.0	170.0 ⁰¹	138.0	144.0 ⁰¹	118.0	122.0 ⁰¹	99.1	101.0 ⁰¹	
	BV		278.0 ⁰¹		287.0 ⁰¹		289.0 ⁰¹		287.0 ⁰¹		286.0 ⁰¹	140.0	272.0 ⁰¹	164.0	231.0 ⁰¹	170.0	236.0 ⁰¹	171.0	204.0 ⁰¹	162.0	172.0 ⁰¹	140.0	145.0 ⁰¹	119.0	123.0 ⁰¹	99.8	102.0 ⁰¹	
220	B		211.0 ⁰¹		216.0 ⁰¹		225.0 ⁰¹		227.0 ⁰¹		227.0 ⁰¹		225.0 ⁰¹	119.0	215.0 ⁰¹	138.0	212.0 ⁰¹	146.0	196.0 ⁰¹	144.0	167.0 ⁰¹	134.0	142.0 ⁰¹	114.0	119.0 ⁰¹	95.4	99.2 ⁰¹	
	BV		241.0 ⁰¹		247.0 ⁰¹		256.0 ⁰¹		256.0 ⁰¹		254.0 ⁰¹		251.0 ⁰¹	119.0	218.0 ⁰¹	138.0	221.0 ⁰¹	146.0	196.0 ⁰¹	144.0	169.0 ⁰¹	136.0	143.0 ⁰¹	115.0	120.0 ⁰¹	96.1	99.9 ⁰¹	
240	B				187.0 ⁰¹		192.0 ⁰¹		200.0 ⁰¹		203.0 ⁰¹		200.0 ⁰¹		198.0 ⁰¹	99.1	193.0 ⁰¹	119.0	183.0 ⁰¹	123.0	162.0 ⁰¹	120.0	139.0 ⁰¹	110.0	117.0 ⁰¹	91.9	96.5 ⁰¹	
	BV				215.0 ⁰¹		220.0 ⁰¹		228.0 ⁰¹		228.0 ⁰¹		225.0 ⁰¹		204.0 ⁰¹	99.0	212.0 ⁰¹	119.0	188.0 ⁰¹	123.0	164.0 ⁰¹	120.0	141.0 ⁰¹	111.0	118.0 ⁰¹	92.7	97.3 ⁰¹	
260	B						167.0 ⁰¹		171.0 ⁰¹		179.0 ⁰¹		181.0 ⁰¹		179.0 ⁰¹		175.0 ⁰¹	84.9	172.0 ⁰¹	99.9</								

HSDWB/BV

HS 217



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



		HS 217 ft																											
ft	B BV	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft			
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
45	B	667.0*	668.0 ^{II}																										
45	BV	639.0*	669.0 ^{II}	581.0*	581.0 ^{II}																								
50	B	647.0	670.0 ^{II}	588.0	588.0	491.0*	509.0 ^{II}	440.0*	440.0*																				
50	BV	647.0	674.0 ^{II}	588.0	588.0																								
60	B	596.0	667.0 ^{II}	550.0	581.0 ^{II}	501.0	510.0 ^{II}	448.0	448.0	378.0*	385.0 ^{II}	333.0*	333.0*																
60	BV	597.0	671.0 ^{II}	549.0	583.0 ^{II}	501.0	511.0 ^{II}	452.0	452.0																				
70	B	538.0	664.0 ^{II}	513.0	577.0 ^{II}	472.0	506.0 ^{II}	430.0	430.0 ^{II}	386.0	386.0	325.0*	335.0 ^{II}	282.0*	286.0 ^{II}	249.0*	249.0*												
70	BV	550.0	667.0 ^{II}	511.0	581.0 ^{II}	472.0	509.0 ^{II}	430.0	433.0 ^{II}	388.0	388.0																		
80	B	488.0	617.0 ^{II}	470.0	566.0 ^{II}	443.0	502.0 ^{II}	407.0	421.0 ^{II}	371.0	371.0	330.0	330.0	282.0	282.0	243.0*	247.0 ^{II}	208.0*	209.0 ^{II}	179.0*	179.0*								
80	BV	502.0	640.0 ^{II}	470.0	576.0 ^{II}	443.0	507.0 ^{II}	408.0	422.0 ^{II}	372.0	372.0	334.0	334.0	285.0	285.0														
90	B	437.0	572.0 ^{II}	425.0	536.0 ^{II}	410.0	488.0 ^{II}	382.0	420.0 ^{II}	351.0	369.0 ^{II}	318.0	320.0 ^{II}	272.0	272.0	244.0	244.0	208.0*	208.0 ^{II}	175.0*	178.0 ^{II}	151.0*	152.0 ^{II}	130.0*	130.0*				
90	BV	452.0	612.0 ^{II}	439.0	564.0 ^{II}	413.0	496.0 ^{II}	384.0	423.0 ^{II}	353.0	371.0 ^{II}	320.0	322.0 ^{II}	274.0	274.0	246.0	246.0	209.0	209.0										
100	B		527.0 ^{II}	389.0	505.0 ^{II}	378.0	466.0 ^{II}	361.0	419.0 ^{II}	334.0	368.0 ^{II}	304.0	317.0 ^{II}	261.0	264.0 ^{II}	240.0	240.0	205.0	205.0	176.0	176.0	151.0	151.0 ^{II}	127.0*	129.0 ^{II}	109.0*	109.0 ^{II}		
100	BV		576.0 ^{II}	401.0	551.0 ^{II}	387.0	480.0 ^{II}	362.0	423.0 ^{II}	335.0	371.0 ^{II}	307.0	320.0 ^{II}	264.0	267.0 ^{II}	242.0	242.0	206.0	206.0	177.0	177.0	151.0	151.0						
110	B		483.0 ^{II}	342.0	472.0 ^{II}	349.0	446.0 ^{II}	339.0	411.0 ^{II}	318.0	368.0 ^{II}	292.0	314.0 ^{II}	251.0	261.0 ^{II}	235.0	238.0 ^{II}	202.0	202.0 ^{II}	174.0	174.0	149.0	149.0	128.0	128.0	108.0	108.0 ^{II}		
110	BV		531.0 ^{II}	343.0	523.0 ^{II}	360.0	475.0 ^{II}	342.0	422.0 ^{II}	319.0	372.0 ^{II}	294.0	318.0 ^{II}	254.0	264.0 ^{II}	238.0	240.0 ^{II}	204.0	204.0	175.0	175.0	150.0	150.0	128.0	128.0	109.0	109.0		
120	B		441.0 ^{II}		436.0 ^{II}	322.0	426.0 ^{II}	315.0	399.0 ^{II}	302.0	364.0 ^{II}	279.0	311.0 ^{II}	240.0	258.0 ^{II}	230.0	237.0 ^{II}	199.0	201.0 ^{II}	171.0	172.0 ^{II}	147.0	147.0	126.0	126.0	107.0	107.0		
120	BV		487.0 ^{II}		485.0 ^{II}	326.0	469.0 ^{II}	323.0	420.0 ^{II}	303.0	371.0 ^{II}	282.0	316.0 ^{II}	243.0	262.0 ^{II}	233.0	240.0 ^{II}	201.0	203.0 ^{II}	173.0	173.0 ^{II}	148.0	148.0	127.0	127.0	107.0	107.0		
130	B		404.0 ^{II}		403.0 ^{II}	272.0	399.0 ^{II}	293.0	388.0 ^{II}	284.0	359.0 ^{II}	266.0	306.0 ^{II}	229.0	255.0 ^{II}	225.0	236.0 ^{II}	196.0	200.0 ^{II}	169.0	171.0 ^{II}	145.0	145.0 ^{II}	124.0	124.0	105.0	105.0		
130	BV		450.0 ^{II}		448.0 ^{II}	272.0	443.0 ^{II}	302.0	418.0 ^{II}	288.0	369.0 ^{II}	269.0	311.0 ^{II}	231.0	259.0 ^{II}	226.0	239.0 ^{II}	198.0	203.0 ^{II}	170.0	172.0 ^{II}	146.0	147.0 ^{II}	125.0	125.0	106.0	106.0		
140	B		373.0 ^{III}		372.0 ^{III}		373.0 ^{III}	264.0	366.0 ^{III}	265.0	354.0 ^{III}	253.0	301.0 ^{III}	218.0	251.0 ^{III}	219.0	235.0 ^{III}	193.0	200.0 ^{III}	166.0	170.0 ^{III}	143.0	145.0 ^{III}	122.0	123.0 ^{III}	104.0	104.0 ^{III}		
140	BV		417.0 ^{III}		415.0 ^{III}		413.0 ^{III}	265.0	401.0 ^{III}	270.0	367.0 ^{III}	256.0	306.0 ^{III}	220.0	254.0 ^{III}	219.0	239.0 ^{III}	195.0	202.0 ^{III}	168.0	172.0 ^{III}	144.0	146.0 ^{III}	123.0	124.0 ^{III}	104.0	104.0 ^{III}		
150	B		344.0 ^{III}		347.0 ^{III}		349.0 ^{III}	222.0	342.0 ^{III}	239.0	337.0 ^{III}	240.0	296.0 ^{III}	207.0	246.0 ^{III}	211.0	232.0 ^{III}	190.0	199.0 ^{III}	164.0	169.0 ^{III}	141.0	144.0 ^{III}	120.0	122.0 ^{III}	102.0	103.0 ^{III}		
150	BV		385.0 ^{III}		387.0 ^{III}		385.0 ^{III}	222.0	380.0 ^{III}	240.0	355.0 ^{III}	243.0	301.0 ^{III}	209.0	249.0 ^{III}	212.0	236.0 ^{III}	192.0	202.0 ^{III}	165.0	171.0 ^{III}	142.0	145.0 ^{III}	121.0	123.0 ^{III}	103.0	103.0 ^{III}		
160	B		314.0 ^{III}		323.0 ^{III}		326.0 ^{III}		320.0 ^{III}	209.0	316.0 ^{III}	222.0	285.0 ^{III}	197.0	241.0 ^{III}	204.0	231.0 ^{III}	187.0	197.0 ^{III}	161.0	168.0 ^{III}	139.0	143.0 ^{III}	119.0	121.0 ^{III}	100.0	101.0 ^{III}		
160	BV		353.0 ^{III}		359.0 ^{III}		360.0 ^{III}		356.0 ^{III}	208.0	342.0 ^{III}	223.0	293.0 ^{III}	199.0	245.0 ^{III}	204.0	235.0 ^{III}	188.0	200.0 ^{III}	163.0	170.0 ^{III}	140.0	144.0 ^{III}	120.0	122.0 ^{III}	101.0	102.0 ^{III}		
170	B		286.0 ^{III}		298.0 ^{III}		303.0 ^{III}		300.0 ^{III}	175.0	297.0 ^{III}	199.0	277.0 ^{III}	189.0	235.0 ^{III}	197.0	229.0 ^{III}	183.0	197.0 ^{III}	159.0	166.0 ^{III}	137.0	141.0 ^{III}	117.0	120.0 ^{III}	98.0	100.0 ^{III}		
170	BV		322.0 ^{III}		332.0 ^{III}		335.0 ^{III}		333.0 ^{III}	175.0	323.0 ^{III}	199.0	283.0 ^{III}	190.0	239.0 ^{III}	197.0	233.0 ^{III}	183.0	200.0 ^{III}	161.0	168.0 ^{III}	138.0	143.0 ^{III}	118.0	121.0 ^{III}	99.5	101.0 ^{III}		
180	B		265.0 ^{III}		274.0 ^{III}		281.0 ^{III}		281.0 ^{III}		278.0 ^{III}	175.0	266.0 ^{III}	178.0	228.0 ^{III}	187.0	228.0 ^{III}	177.0	196.0 ^{III}	157.0	166.0 ^{III}	135.0	140.0 ^{III}	115.0	118.0 ^{III}	97.2	99.3 ^{III}		
180	BV		300.0 ^{III}		306.0 ^{III}		310.0 ^{III}		311.0 ^{III}		304.0 ^{III}	174.0	273.0 ^{III}	180.0	234.0 ^{III}	187.0	231.0 ^{III}	177.0	198.0 ^{III}	158.0	168.0 ^{III}	136.0	142.0 ^{III}	116.0	119.0 ^{III}	98.0	100.0 ^{III}		
190	B		245.0 ^{III}		251.0 ^{III}		261.0 ^{III}		262.0 ^{III}		260.0 ^{III}	147.0	252.0 ^{III}	166.0	221.0 ^{III}	172.0	225.0 ^{III}	171.0	195.0 ^{III}	154.0	164.0 ^{III}	133.0	140.0 ^{III}	114.0	117.0 ^{III}	95.7	97.9 ^{III}		
190	BV		278.0 ^{III}		284.0 ^{III}		288.0 ^{III}		289.0 ^{III}		285.0 ^{III}	147.0	263.0 ^{III}	167.0	228.0 ^{III}	172.0	229.0 ^{III}	171.0	197.0 ^{III}	156.0	166.0 ^{III}	134.0	141.0 ^{III}	115.0	119.0 ^{III}	96.5	98.7 ^{III}		
200	B		208.0 ^{III}		216.0 ^{III}		223.0 ^{III}		227.0 ^{III}		227.0 ^{III}		224.0 ^{III}	125.0	207.0 ^{III}	141.0	211.0 ^{III}	148.0	191.0 ^{III}	144.0	162.0 ^{III}	129.0	137.0 ^{III}	110.0	115.0 ^{III}	92.2	96.2 ^{III}		
200	BV		239.0 ^{III}		247.0 ^{III}		253.0 ^{III}		252.0 ^{III}		250.0 ^{III}		244.0 ^{III}	125.0	217.0 ^{III}	141.0	217.0 ^{III}	148.0	194.0 ^{III}	144.0	164.0 ^{III}	130.0	139.0 ^{III}	111.0	116.0 ^{III}	93.0	97.1 ^{III}		
240	B		178.0 ^{III}		185.0 ^{III}		193.0 ^{III}		198.0 ^{III}		198.0 ^{III}		191.0 ^{III}	104.0	191.0 ^{III}	121.0	181.0 ^{III}	125.0	160.0 ^{III}	121.0	135.0 ^{III}	106.0	113.0 ^{III}	106.0	113.0 ^{III}	83.3	89.7 ^{III}		
240	BV		207.0 ^{III}		213.0 ^{III}		221.0 ^{III}		226.0 ^{III}		224.0 ^{III}		221.0 ^{III}	104.0	206.0 ^{III}	121.0	186.0 ^{III}	125.0	162.0 ^{III}	121.0	137.0 ^{III}	108.0	114.0 ^{III}	108.0	114.0 ^{III}	89.6	94.5 ^{III}		
260	B				159.0 ^{III}		165.0 ^{III}		172.0 ^{III}		176.0 ^{III}		176.0 ^{III}		174.0 ^{III}		172.0 ^{III}	89.6	167.0 ^{III}	102.0	152.0 ^{III}	105.0	132.0 ^{III}	102.0	111.0 ^{III}	85.9	91.7 ^{III}		
260	BV				185.0 ^{III}		191.0 ^{III}		198.0 ^{III}		201.0 ^{III}		200.0 ^{III}		188.0 ^{III}		193.0 ^{III}	89.4	179.0 ^{III}	102.0									

HSDWB/BV

HS 236



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



47

ft		HS 236 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	B	603.0*	603.0*																								
	BV																										
50	B	581.0*	600.0 ^{II}	529.0*	529.0*																						
	BV																										
60	B	589.0*	600.0 ^{II}	491.0*	529.0 ^{II}	451.0*	464.0 ^{II}	406.0*	406.0*																		
	BV	596.0	609.0 ^{II}																								
70	B	545.0	598.0 ^{II}	507.0	526.0 ^{II}	461.0	465.0 ^{II}	386.0*	407.0 ^{II}	350.0*	356.0 ^{II}	310.0*	310.0*														
	BV	552.0	606.0 ^{II}	506.0	528.0 ^{II}	461.0	465.0 ^{II}																				
80	B	495.0	596.0 ^{II}	471.0	521.0 ^{II}	436.0	460.0 ^{II}	397.0	398.0 ^{II}	358.0	358.0	302.0*	310.0 ^{II}	265.0*	268.0 ^{II}	234.0*	234.0*										
	BV	505.0	602.0 ^{II}	472.0	525.0 ^{II}	435.0	461.0 ^{II}	396.0	399.0 ^{II}	359.0	359.0 ^{II}																
90	B	449.0	574.0 ^{II}	430.0	516.0 ^{II}	408.0	454.0 ^{II}	375.0	385.0 ^{II}	343.0	343.0	308.0	308.0	266.0	266.0	228.0*	232.0 ^{II}	196.0*	197.0 ^{II}	170.0*	170.0*						
	BV	462.0	591.0 ^{II}	440.0	521.0 ^{II}	409.0	458.0 ^{II}	376.0	385.0 ^{II}	344.0	347.0 ^{II}	308.0	308.0	268.0	268.0												
100	B	406.0	540.0 ^{II}	390.0	498.0 ^{II}	375.0	447.0 ^{II}	353.0	383.0 ^{II}	325.0	338.0 ^{II}	296.0	296.0 ^{II}	257.0	257.0 ^{II}	230.0	230.0	196.0	196.0 ^{II}	166.0*	168.0 ^{II}	143.0*	143.0 ^{II}	123.0*	123.0*		
	BV	420.0	575.0 ^{II}	403.0	514.0 ^{II}	382.0	452.0 ^{II}	353.0	384.0 ^{II}	326.0	339.0 ^{II}	295.0	295.0 ^{II}	259.0	259.0	232.0	232.0	198.0	198.0								
110	B	506.0 ^{II}	359.0	479.0 ^{II}	347.0	430.0 ^{II}	332.0	381.0 ^{II}	310.0	337.0 ^{II}	284.0	295.0 ^{II}	248.0	249.0 ^{II}	225.0	225.0	194.0	194.0	167.0	167.0	143.0	143.0 ^{II}	121.0*	122.0 ^{II}	103.0*	103.0 ^{II}	
	BV	560.0 ^{II}	371.0	507.0 ^{II}	357.0	435.0 ^{II}	334.0	383.0 ^{II}	310.0	339.0 ^{II}	283.0	295.0 ^{II}	250.0	252.0 ^{II}	228.0	228.0	195.0	195.0	168.0	168.0	142.0	142.0	122.0	122.0			
120	B	471.0 ^{II}	334.0	458.0 ^{II}	323.0	418.0 ^{II}	310.0	378.0 ^{II}	295.0	336.0 ^{II}	273.0	294.0 ^{II}	238.0	247.0 ^{II}	221.0	223.0 ^{II}	191.0	191.0	165.0	165.0	141.0	141.0	121.0	121.0 ^{II}	101.0*	102.0 ^{II}	
	BV	520.0 ^{II}	344.0	497.0 ^{II}	333.0	432.0 ^{II}	316.0	382.0 ^{II}	295.0	338.0 ^{II}	271.0	296.0 ^{II}	241.0	250.0 ^{II}	223.0	226.0 ^{II}	193.0	193.0	166.0	166.0	142.0	142.0	122.0	122.0			
130	B	438.0 ^{II}	300.0	426.0 ^{II}	300.0	405.0 ^{II}	290.0	373.0 ^{II}	279.0	335.0 ^{II}	257.0	286.0 ^{II}	237.0	286.0 ^{II}	210.0	240.0 ^{II}	204.0	221.0 ^{II}	182.0	189.0 ^{II}	162.0	162.0 ^{II}	139.0	139.0	120.0	102.0	
	BV	480.0 ^{II}	309.0	471.0 ^{II}	309.0	429.0 ^{II}	299.0	379.0 ^{II}	281.0	337.0 ^{II}	260.0	296.0 ^{II}	232.0	248.0 ^{II}	217.0	225.0 ^{II}	190.0	192.0 ^{II}	164.0	164.0 ^{II}	140.0	140.0	120.0	120.0	102.0	102.0	
140	B	401.0 ^{II}	394.0 ^{II}	281.0	389.0 ^{II}	271.0	367.0 ^{II}	263.0	332.0 ^{II}	250.0	320.0 ^{II}	219.0	243.0 ^{II}	210.0	222.0 ^{II}	185.0	190.0 ^{II}	160.0	162.0 ^{II}	138.0	138.0 ^{II}	118.0	118.0	100.0	100.0		
	BV	443.0 ^{II}	439.0 ^{II}	283.0	419.0 ^{II}	279.0	377.0 ^{II}	267.0	335.0 ^{II}	248.0	324.0 ^{II}	222.0	247.0 ^{II}	210.0	225.0 ^{II}	187.0	192.0 ^{II}	162.0	163.0 ^{II}	139.0	139.0 ^{II}	119.0	119.0	101.0	101.0		
150	B	368.0 ^{II}	367.0 ^{II}	363.0 ^{II}	254.0	357.0 ^{II}	246.0	329.0 ^{II}	237.0	320.0 ^{II}	226.0	286.0 ^{II}	210.0	240.0 ^{II}	204.0	221.0 ^{II}	182.0	189.0 ^{II}	158.0	161.0 ^{II}	136.0	137.0 ^{II}	116.0	117.0 ^{II}	98.6	98.6	
	BV	410.0 ^{II}	408.0 ^{II}	402.0 ^{II}	262.0	370.0 ^{II}	253.0	333.0 ^{II}	237.0	321.0 ^{II}	224.0	282.0 ^{II}	200.0	236.0 ^{II}	197.0	220.0 ^{II}	179.0	189.0 ^{II}	155.0	161.0 ^{II}	134.0	136.0 ^{II}	115.0	116.0 ^{II}	97.1	97.6 ^{II}	
160	B	341.0 ^{II}	340.0 ^{II}	338.0 ^{II}	231.0	334.0 ^{II}	231.0	323.0 ^{II}	224.0	310.0 ^{II}	210.0	276.0 ^{II}	191.0	232.0 ^{II}	190.0	218.0 ^{II}	174.0	187.0 ^{II}	153.0	160.0 ^{II}	132.0	136.0 ^{II}	113.0	115.0 ^{II}	95.6	96.7 ^{II}	
	BV	381.0 ^{II}	380.0 ^{II}	377.0 ^{II}	231.0	359.0 ^{II}	237.0	328.0 ^{II}	226.0	328.0 ^{II}	226.0	287.0 ^{II}	203.0	239.0 ^{II}	197.0	223.0 ^{II}	179.0	191.0 ^{II}	157.0	162.0 ^{II}	135.0	138.0 ^{II}	116.0	117.0 ^{II}	97.8	98.3 ^{II}	
170	B	314.0 ^{II}	318.0 ^{II}	316.0 ^{II}	216.0	310.0 ^{II}	210.0	310.0 ^{II}	210.0	310.0 ^{II}	210.0	276.0 ^{II}	191.0	232.0 ^{II}	190.0	218.0 ^{II}	174.0	187.0 ^{II}	153.0	160.0 ^{II}	132.0	136.0 ^{II}	113.0	115.0 ^{II}	95.6	96.7 ^{II}	
	BV	352.0 ^{II}	355.0 ^{II}	353.0 ^{II}	216.0	345.0 ^{II}	216.0	321.0 ^{II}	215.0	321.0 ^{II}	215.0	283.0 ^{II}	193.0	235.0 ^{II}	190.0	221.0 ^{II}	174.0	190.0 ^{II}	155.0	162.0 ^{II}	133.0	137.0 ^{II}	114.0	116.0 ^{II}	96.3	97.5 ^{II}	
180	B	286.0 ^{II}	295.0 ^{II}	297.0 ^{II}	183.0	294.0 ^{II}	183.0	291.0 ^{II}	198.0	270.0 ^{II}	184.0	227.0 ^{II}	183.0	216.0 ^{II}	169.0	187.0 ^{II}	151.0	158.0 ^{II}	130.0	135.0 ^{II}	111.0	114.0 ^{II}	94.1	95.8 ^{II}			
	BV	323.0 ^{II}	330.0 ^{II}	329.0 ^{II}	183.0	312.0 ^{II}	199.0	276.0 ^{II}	186.0	251.0 ^{II}	183.0	220.0 ^{II}	169.0	200.0 ^{II}	169.0	190.0 ^{II}	152.0	160.0 ^{II}	131.0	136.0 ^{II}	112.0	115.0 ^{II}	94.8	96.6 ^{II}			
190	B	261.0 ^{II}	273.0 ^{II}	278.0 ^{II}	177.0 ^{II}	275.0 ^{II}	181.0	260.0 ^{II}	175.0	220.0 ^{II}	175.0	220.0 ^{II}	174.0	215.0 ^{II}	164.0	186.0 ^{II}	148.0	158.0 ^{II}	128.0	134.0 ^{II}	110.0	113.0 ^{II}	92.6	94.6 ^{II}			
	BV	296.0 ^{II}	306.0 ^{II}	308.0 ^{II}	177.0 ^{II}	296.0 ^{II}	179.0	266.0 ^{II}	177.0	226.0 ^{II}	176.0	219.0 ^{II}	163.0	219.0 ^{II}	163.0	189.0 ^{II}	148.0	160.0 ^{II}	129.0	135.0 ^{II}	111.0	114.0 ^{II}	93.4	95.8 ^{II}			
200	B	243.0 ^{II}	250.0 ^{II}	259.0 ^{II}	160.0 ^{II}	259.0 ^{II}	154.0	249.0 ^{II}	166.0	213.0 ^{II}	164.0	214.0 ^{II}	158.0	215.0 ^{II}	158.0	185.0 ^{II}	144.0	157.0 ^{II}	126.0	133.0 ^{II}	108.0	112.0 ^{II}	91.1	93.8 ^{II}			
	BV	276.0 ^{II}	282.0 ^{II}	287.0 ^{II}	160.0 ^{II}	287.0 ^{II}	153.0	256.0 ^{II}	167.0	221.0 ^{II}	169.0	218.0 ^{II}	158.0	218.0 ^{II}	158.0	188.0 ^{II}	144.0	159.0 ^{II}	127.0	135.0 ^{II}	109.0	113.0 ^{II}	92.0	94.7 ^{II}			
220	B	206.0 ^{II}	213.0 ^{II}	222.0 ^{II}	147.0 ^{II}	228.0 ^{II}	130.0	225.0 ^{II}	130.0	198.0 ^{II}	145.0	209.0 ^{II}	140.0	184.0 ^{II}	140.0	184.0 ^{II}	133.0	155.0 ^{II}	121.0	131.0 ^{II}	105.0	110.0 ^{II}	88.0	92.2 ^{II}			
	BV	236.0 ^{II}	244.0 ^{II}	248.0 ^{II}	147.0 ^{II}	249.0 ^{II}	130.0	236.0 ^{II}	130.0	212.0 ^{II}	146.0	212.0 ^{II}	144.0	186.0 ^{II}	144.0	186.0 ^{II}	134.0	157.0 ^{II}	120.0	133.0 ^{II}	106.0	112.0 ^{II}	88.9	93.1 ^{II}			
240	B	177.0 ^{II}	182.0 ^{II}	190.0 ^{II}	119.0 ^{II}	198.0 ^{II}	115.0 ^{II}	199.0 ^{II}	115.0 ^{II}	184.0 ^{II}	111.0	190.0 ^{II}	123.0	177.0 ^{II}	123.0	177.0 ^{II}	118.0	153.0 ^{II}	111.0	129.0 ^{II}	101.0	109.0 ^{II}	84.8	89.8 ^{II}			
	BV	205.0 ^{II}	210.0 ^{II}	218.0 ^{II}	119.0 ^{II}	220.0 ^{II}	115.0 ^{II}	215.0 ^{II}	115.0 ^{II}	202.0 ^{II}	111.0	199.0 ^{II}	124.0	182.0 ^{II}	124.0	182.0 ^{II}	121.0	156.0 ^{II}	113.0	131.0 ^{II}	101.0	110.0 ^{II}	85.7	90.7 ^{II}			
260	B		156.0 ^{II}	163.0 ^{II}	169.0 ^{II}	174.0 ^{II}	115.0 ^{II}	174.0 ^{II}	115.0 ^{II}	174.0 ^{II}	115.0 ^{II}	167.0 ^{II}	117.0 ^{II}	93.8	164.0 ^{II}	103.0	150.0 ^{II}	98.1	128.0 ^{II}	93.0	107.0 ^{II}	81.8	88.2 ^{II}				
	BV		182.0 ^{II}	189.0 ^{II}	195.0 ^{II}	199.0 ^{II}	115.0 ^{II}	195.0																			

256 ft HS
 118 ft D
 79 - 315 ft W
 110,200 lb
 330,700 lb
 B BV
 661,400 - 826,700 lb
 330,700 - 659,200 lb
 110,200 - 328,500 lb
 0 lb

Wmax
 R
 47

		HS 256 ft																										
		W79 ft		W98 ft		W118 ft		W138 ft		W158 ft		W177 ft		W197 ft		W217 ft		W236 ft		W256 ft		W276 ft		W295 ft		W315 ft		
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	
50	B	529.0*	540.0 ^{II}																									
	BV																											
60	B	536.0	541.0 ^{II}	452.0*	477.0 ^{II}	415.0*	422.0 ^{II}	376.0*	376.0*																			
	BV	544.0	548.0 ^{II}																									
70	B	502.0	537.0 ^{II}	463.0	475.0 ^{II}	424.0	424.0 ^{II}	357.0*	373.0 ^{II}	323.0*	327.0 ^{II}	288.0*	288.0*															
	BV	509.0	545.0 ^{II}	466.0	480.0 ^{II}	425.0	425.0 ^{II}																					
80	B	463.0	533.0 ^{II}	436.0	470.0 ^{II}	402.0	419.0 ^{II}	366.0	367.0 ^{II}	330.0	330.0	279.0*	286.0 ^{II}	247.0*	249.0 ^{II}	218.0*	218.0*											
	BV	472.0	542.0 ^{II}	437.0	475.0 ^{II}	401.0	420.0 ^{II}	366.0	368.0 ^{II}	330.0	330																	
90	B	421.0	525.0 ^{II}	401.0	466.0 ^{II}	378.0	413.0 ^{II}	347.0	353.0 ^{II}	316.0	316.0	284.0	284.0	249.0	249.0	213.0*	216.0 ^{II}	184.0*	185.0 ^{II}	160.0*	160.0*							
	BV	433.0	537.0 ^{II}	408.0	470.0 ^{II}	378.0	415.0 ^{II}	347.0	355.0 ^{II}	316.0	318.0 ^{II}	285.0	285	251.0	251.0													
100	B	382.0	505.0 ^{II}	366.0	458.0 ^{II}	351.0	408.0 ^{II}	327.0	350.0 ^{II}	300.0	308.0 ^{II}	273.0	273.0	241.0	241.0	215.0	215.0	180.0*	184.0 ^{II}	156.0*	158.0 ^{II}	134.0*	135.0 ^{II}	116.0*	116.0*			
	BV	395.0	528.0 ^{II}	377.0	464.0 ^{II}	353.0	411.0 ^{II}	327.0	350.0 ^{II}	300.0	309.0 ^{II}	273.0	273	243.0	243.0	217.0	217.0											
110	B	485.0 ^{II}	337.0	448.0 ^{II}	325.0	394.0 ^{II}	310.0	347.0 ^{II}	286.0	307.0 ^{II}	262.0	270.0 ^{II}	233.0	233.0 ^{II}	211.0	211.0	182.0	182.0	157.0	157.0 ^{II}	132.0*	134.0 ^{II}	114.0*	115.0 ^{II}	96.9*	97.1 ^{II}		
	BV	520.0 ^{II}	348.0	457.0 ^{II}	332.0	398.0 ^{II}	309.0	349.0 ^{II}	286.0	308.0 ^{II}	262.0	271.0 ^{II}	236.0	236.0 ^{II}	212.0	212.0	184.0	184.0	158.0	158.0								
120	B	458.0 ^{II}	316.0	438.0 ^{II}	303.0	387.0 ^{II}	290.0	345.0 ^{II}	273.0	306.0 ^{II}	252.0	270.0 ^{II}	225.0	232.0 ^{II}	206.0	208.0 ^{II}	180.0	180.0	155.0	155.0	133.0	133.0	114.0	114.0 ^{II}	95.2*	96.5 ^{II}		
	BV	499.0 ^{II}	326.0	450.0 ^{II}	312.0	391.0 ^{II}	293.0	347.0 ^{II}	272.0	307.0 ^{II}	251.0	271.0 ^{II}	228.0	235.0 ^{II}	207.0	209.0 ^{II}	181.0	181.0	156.0	156.0	134.0	134.0	115.0	115.0				
130	B	424.0 ^{II}		416.0 ^{II}	283.0	382.0 ^{II}	272.0	342.0 ^{II}	259.0	305.0 ^{II}	241.0	269.0 ^{II}	217.0	230.0 ^{II}	201.0	207.0 ^{II}	177.0	178.0 ^{II}	153.0	153.0 ^{II}	132.0	132.0	113.0	113.0	95.8	95.8		
	BV	467.0 ^{II}		437.0 ^{II}	292.0	388.0 ^{II}	278.0	344.0 ^{II}	259.0	306.0 ^{II}	241.0	270.0 ^{II}	220.0	234.0 ^{II}	201.0	208.0 ^{II}	179.0	180.0 ^{II}	154.0	154.0	133.0	133.0	114.0	114.0	96.3	96.3		
140	B	391.0 ^{II}	316.0	387.0 ^{II}	267.0	377.0 ^{II}	256.0	338.0 ^{II}	245.0	302.0 ^{II}	231.0	269.0 ^{II}	208.0	229.0 ^{II}	195.0	207.0 ^{II}	174.0	178.0 ^{II}	151.0	152.0 ^{II}	130.0	130.0 ^{II}	111.0	111.0 ^{II}	94.6	94.6		
	BV	434.0 ^{II}		419.0 ^{II}	275.0	384.0 ^{II}	263.0	341.0 ^{II}	246.0	304.0 ^{II}	230.0	270.0 ^{II}	211.0	233.0 ^{II}	194.0	208.0 ^{II}	175.0	180.0 ^{II}	152.0	154.0 ^{II}	131.0	131.0 ^{II}	112.0	112.0	95.1	95.1		
150	B	363.0 ^{II}		359.0 ^{II}		356.0 ^{II}	241.0	335.0 ^{II}	231.0	299.0 ^{II}	221.0	266.0 ^{II}	200.0	227.0 ^{II}	188.0	207.0 ^{II}	170.0	178.0 ^{II}	149.0	152.0 ^{II}	128.0	129.0 ^{II}	110.0	110.0 ^{II}	93.3	93.3		
	BV	402.0 ^{II}		393.0 ^{II}		373.0 ^{II}	248.0	339.0 ^{II}	236.0	302.0 ^{II}	220.0	268.0 ^{II}	203.0	231.0 ^{II}	188.0	208.0 ^{II}	170.0	180.0 ^{II}	150.0	154.0 ^{II}	129.0	131.0 ^{II}	111.0	111.0 ^{II}	93.9	93.9		
160	B	337.0 ^{II}		335.0 ^{II}		333.0 ^{II}	227.0	323.0 ^{II}	218.0	296.0 ^{II}	209.0	264.0 ^{II}	192.0	224.0 ^{II}	182.0	206.0 ^{II}	166.0	178.0 ^{II}	146.0	152.0 ^{II}	126.0	129.0 ^{II}	108.0	110.0 ^{II}	91.9	92.3 ^{II}		
	BV	372.0 ^{II}		368.0 ^{II}		357.0 ^{II}	234.0	329.0 ^{II}	224.0	299.0 ^{II}	211.0	266.0 ^{II}	194.0	228.0 ^{II}	181.0	207.0 ^{II}	165.0	180.0 ^{II}	148.0	153.0 ^{II}	127.0	130.0 ^{II}	109.0	111.0 ^{II}	92.6	93.1 ^{II}		
170	B	312.0 ^{II}		314.0 ^{II}		311.0 ^{II}		307.0 ^{II}	205.0	289.0 ^{II}	198.0	261.0 ^{II}	184.0	221.0 ^{II}	176.0	204.0 ^{II}	161.0	177.0 ^{II}	144.0	151.0 ^{II}	124.0	128.0 ^{II}	107.0	109.0 ^{II}	90.5	91.5 ^{II}		
	BV	346.0 ^{II}		343.0 ^{II}		337.0 ^{II}		319.0 ^{II}	212.0	291.0 ^{II}	203.0	264.0 ^{II}	186.0	225.0 ^{II}	175.0	206.0 ^{II}	160.0	179.0 ^{II}	144.0	153.0 ^{II}	126.0	130.0 ^{II}	108.0	110.0 ^{II}	91.2	92.3 ^{II}		
180	B	287.0 ^{II}		293.0 ^{II}		293.0 ^{II}		289.0 ^{II}	190.0	279.0 ^{II}	187.0	256.0 ^{II}	177.0	218.0 ^{II}	170.0	202.0 ^{II}	156.0	176.0 ^{II}	140.0	150.0 ^{II}	123.0	128.0 ^{II}	105.0	108.0 ^{II}	89.1	90.8 ^{II}		
	BV	321.0 ^{II}		321.0 ^{II}		318.0 ^{II}		308.0 ^{II}	190.0	283.0 ^{II}	193.0	258.0 ^{II}	180.0	222.0 ^{II}	168.0	204.0 ^{II}	155.0	178.0 ^{II}	140.0	152.0 ^{II}	123.0	129.0 ^{II}	106.0	109.0 ^{II}	89.8	91.6 ^{II}		
190	B	262.0 ^{II}		272.0 ^{II}		276.0 ^{II}		273.0 ^{II}		269.0 ^{II}	177.0	249.0 ^{II}	169.0	212.0 ^{II}	163.0	200.0 ^{II}	151.0	175.0 ^{II}	137.0	150.0 ^{II}	120.0	126.0 ^{II}	104.0	108.0 ^{II}	87.6	90.1 ^{II}		
	BV	295.0 ^{II}		300.0 ^{II}		299.0 ^{II}		293.0 ^{II}		275.0 ^{II}	181.0	253.0 ^{II}	173.0	218.0 ^{II}	163.0	202.0 ^{II}	150.0	177.0 ^{II}	136.0	152.0 ^{II}	121.0	128.0 ^{II}	105.0	109.0 ^{II}	88.5	90.9 ^{II}		
200	B	240.0 ^{II}		251.0 ^{II}		258.0 ^{II}		258.0 ^{II}		254.0 ^{II}	160.0	243.0 ^{II}	160.0	207.0 ^{II}	154.0	198.0 ^{II}	146.0	174.0 ^{II}	133.0	149.0 ^{II}	118.0	126.0 ^{II}	102.0	106.0 ^{II}	86.2	89.3 ^{II}		
	BV	273.0 ^{II}		280.0 ^{II}		281.0 ^{II}		277.0 ^{II}		265.0 ^{II}	160.0	247.0 ^{II}	163.0	214.0 ^{II}	159.0	199.0 ^{II}	145.0	175.0 ^{II}	132.0	151.0 ^{II}	117.0	128.0 ^{II}	103.0	108.0 ^{II}	87.1	90.2 ^{II}		
220	B	206.0 ^{II}		211.0 ^{II}		222.0 ^{II}		227.0 ^{II}		227.0 ^{II}		223.0 ^{II}	134.0	193.0 ^{II}	137.0	192.0 ^{II}	131.0	171.0 ^{II}	123.0	147.0 ^{II}	111.0	124.0 ^{II}	98.4	105.0 ^{II}	83.3	87.5 ^{II}		
	BV	236.0 ^{II}		241.0 ^{II}		247.0 ^{II}		247.0 ^{II}		241.0 ^{II}		229.0 ^{II}	134.0	205.0 ^{II}	142.0	194.0 ^{II}	135.0	173.0 ^{II}	123.0	149.0 ^{II}	110.0	126.0 ^{II}	98.5	106.0 ^{II}	84.2	88.5 ^{II}		
240	B	174.0 ^{II}		182.0 ^{II}		188.0 ^{II}		196.0 ^{II}		199.0 ^{II}		198.0 ^{II}		177.0 ^{II}	115.0	183.0 ^{II}	116.0	166.0 ^{II}	110.0	145.0 ^{II}	103.0	123.0 ^{II}	93.2	103.0 ^{II}	80.3	85.6 ^{II}		
	BV	202.0 ^{II}		210.0 ^{II}		216.0 ^{II}		219.0 ^{II}		217.0 ^{II}		210.0 ^{II}		197.0 ^{II}	115.0	185.0 ^{II}	120.0	168.0 ^{II}	113.0	146.0 ^{II}	103.0	124.0 ^{II}	92.6	105.0 ^{II}	81.0	86.6 ^{II}		
260	B	150.0 ^{II}		154.0 ^{II}		163.0 ^{II}		168.0 ^{II}		172.0 ^{II}		174.0 ^{II}		162.0 ^{II}		169.0 ^{II}	97.4	157.0 ^{II}	97.5	141.0 ^{II}	91.2	121.0 ^{II}	86.0	102.0 ^{II}	77.1	84.2 ^{II}		
	BV	176.0 ^{II}		180.0 ^{II}		189.0 ^{II}		194.0 ^{II}		194.0 ^{II}		192.0 ^{II}		185.0 ^{II}		178.0 ^{II}	97.2	163.0 ^{II}	101.0	144.0 ^{II}	94.3	123.0 ^{II}	86.7	103.0 ^{II}	76.5	85.3 ^{II}		
280	B			133.0 ^{II}		138.0 ^{II}		145.0 ^{II}		150.0 ^{II}		153.0 ^{II}		148.0 ^{II}		152.0 ^{II}		146.0 ^{II}	81.4	137.0 ^{II}	80.8	120.0 ^{II}	75.9	101.0 ^{II}	70.1	82.7 ^{II}		
	BV			157.0 ^{II}		162.0 ^{II}		169.0 ^{II}		174.0 ^{II}		174.0 ^{II}		170.0 ^{II}		168.0 ^{II}		158.0 ^{II}	81.5	140.0 ^{II}	83.8	121.0 ^{II}	78.7	102.0 ^{II}	71.5	83.8 ^{II}		
300	B					119.0 ^{II}		123.0 ^{II}		130.0 ^{II}		135.0 ^{II}		135.0 ^{II}		135.0												

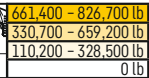
HSDWB/BV

HS 276

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

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ft		HS 276 ft																											
		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft			
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	479.0*	486.0 ^{II}																										
	BV																												
60	B	486.0	486.0 ^{II}	411.0*	430.0 ^{II}	378.0*	382.0 ^{II}																						
	BV	493.0	493.0																										
70	B	457.0	481.0 ^{II}	421.0	428.0 ^{II}	386.0	386.0	327.0*	338.0 ^{II}	297.0*	299.0 ^{II}																		
	BV	464.0	489.0 ^{II}	427.0	434.0 ^{II}	388.0	388.0																						
80	B	426.0	477.0 ^{II}	397.0	423.0 ^{II}	368.0	379.0 ^{II}	335.0	337.0 ^{II}	285.0*	299.0 ^{II}	256.0*	262.0 ^{II}	230.0*	231.0 ^{II}	202.0*	202.0*												
	BV	434.0	486.0 ^{II}	402.0	428.0 ^{II}	368.0	380.0 ^{II}	336.0	339.0 ^{II}																				
90	B	389.0	473.0 ^{II}	369.0	419.0 ^{II}	346.0	374.0 ^{II}	318.0	332.0 ^{II}	291.0	292.0 ^{II}	261.0	261.0	221.0*	229.0 ^{II}	197.0*	200.0 ^{II}	172.0*	172.0 ^{II}	149.0*	149.0*								
	BV	399.0	483.0 ^{II}	376.0	423.0 ^{II}	347.0	375.0 ^{II}	318.0	334.0 ^{II}	291.0	293.0 ^{II}	261.0	261.0																
100	B	354.0	463.0 ^{II}	338.0	415.0 ^{II}	323.0	370.0 ^{II}	300.0	326.0 ^{II}	277.0	282.0 ^{II}	250.0	250.0 ^{II}	225.0	225.0	199.0	199.0 ^{II}	168.0*	172.0 ^{II}	146.0*	147.0 ^{II}	125.0*	126.0 ^{II}	108.0*	108.0*				
	BV	364.0	475.0 ^{II}	347.0	417.0 ^{II}	325.0	370.0 ^{II}	300.0	330.0 ^{II}	277.0	282.0 ^{II}	250.0	250.0	226.0	226.0	200.0	200.0												
110	B	333.0	453.0 ^{II}	312.0	408.0 ^{II}	300.0	360.0 ^{II}	284.0	321.0 ^{II}	264.0	280.0 ^{II}	241.0	246.0 ^{II}	218.0	218.0	195.0	195.0	170.0	170.0	147.0	147.0 ^{II}	123.0*	125.0 ^{II}	106.0*	107.0 ^{II}	90.0*	90.0 ^{II}		
	BV	344.0	466.0 ^{II}	321.0	411.0 ^{II}	306.0	361.0 ^{II}	284.0	326.0 ^{II}	264.0	280.0 ^{II}	240.0	246.0 ^{II}	219.0	219.0	195.0	195.0	172.0	172.0	148.0	148.0								
120	B	444.0 ^{II}	292.0	401.0 ^{II}	281.0	352.0 ^{II}	266.0	312.0 ^{II}	252.0	279.0 ^{II}	231.0	245.0 ^{II}	211.0	216.0 ^{II}	190.0	191.0 ^{II}	168.0	168.0	145.0	145.0	125.0	125.0	107.0	107.0 ^{II}	88.9*	89.8 ^{II}			
	BV	458.0 ^{II}	301.0	405.0 ^{II}	287.0	352.0 ^{II}	269.0	313.0 ^{II}	251.0	279.0 ^{II}	230.0	246.0 ^{II}	211.0	218.0 ^{II}	190.0	191.0 ^{II}	169.0	169.0	146.0	146.0	125.0	125.0	108.0	108.0					
130	B	414.0 ^{II}	279.0	393.0 ^{II}	262.0	348.0 ^{II}	250.0	309.0 ^{II}	239.0	277.0 ^{II}	222.0	244.0 ^{II}	204.0	215.0 ^{II}	184.0	190.0 ^{II}	165.0	166.0 ^{II}	143.0	143.0	123.0	123.0	106.0	106.0	89.5	89.5			
	BV	434.0 ^{II}	288.0	398.0 ^{II}	268.0	348.0 ^{II}	256.0	310.0 ^{II}	239.0	278.0 ^{II}	221.0	245.0 ^{II}	204.0	217.0 ^{II}	184.0	190.0 ^{II}	165.0	167.0 ^{II}	144.0	144.0	124.0	124.0	106.0	106.0	90.1	90.1			
140	B	384.0 ^{II}	292.0	376.0 ^{II}	248.0	343.0 ^{II}	235.0	305.0 ^{II}	226.0	275.0 ^{II}	212.0	244.0 ^{II}	196.0	214.0 ^{II}	179.0	190.0 ^{II}	161.0	166.0 ^{II}	141.0	142.0 ^{II}	121.0	121.0 ^{II}	104.0	104.0	88.5	88.5			
	BV	411.0 ^{II}	302.0	382.0 ^{II}	254.0	344.0 ^{II}	242.0	307.0 ^{II}	228.0	276.0 ^{II}	211.0	244.0 ^{II}	196.0	217.0 ^{II}	178.0	190.0 ^{II}	161.0	167.0 ^{II}	142.0	144.0 ^{II}	122.0	122.0	105.0	105.0	89.0	89.0			
150	B	356.0 ^{II}	352.0 ^{II}	352.0 ^{II}	234.0	334.0 ^{II}	222.0	302.0 ^{II}	213.0	272.0 ^{II}	202.0	241.0 ^{II}	189.0	213.0 ^{II}	173.0	189.0 ^{II}	157.0	166.0 ^{II}	139.0	142.0 ^{II}	120.0	121.0 ^{II}	103.0	103.0 ^{II}	87.3	87.3			
	BV	386.0 ^{II}	367.0 ^{II}	367.0 ^{II}	232.0	337.0 ^{II}	228.0	304.0 ^{II}	217.0	273.0 ^{II}	202.0	242.0 ^{II}	189.0	216.0 ^{II}	172.0	189.0 ^{II}	156.0	166.0 ^{II}	139.0	144.0 ^{II}	121.0	122.0 ^{II}	104.0	104.0 ^{II}	87.9	87.9			
160	B	332.0 ^{II}	328.0 ^{II}	328.0 ^{II}	211.0	329.0 ^{II}	202.0	269.0 ^{II}	192.0	269.0 ^{II}	192.0	239.0 ^{II}	182.0	211.0 ^{II}	167.0	188.0 ^{II}	152.0	165.0 ^{II}	136.0	142.0 ^{II}	118.0	121.0 ^{II}	102.0	103.0 ^{II}	86.1	86.4 ^{II}			
	BV	360.0 ^{II}	349.0 ^{II}	349.0 ^{II}	217.0	325.0 ^{II}	217.0	298.0 ^{II}	207.0	271.0 ^{II}	193.0	240.0 ^{II}	181.0	214.0 ^{II}	166.0	189.0 ^{II}	152.0	166.0 ^{II}	136.0	143.0 ^{II}	119.0	122.0 ^{II}	102.0	104.0 ^{II}	86.7	87.1 ^{II}			
170	B	308.0 ^{II}	308.0 ^{II}	308.0 ^{II}	305.0 ^{II}	305.0 ^{II}	287.0 ^{II}	287.0 ^{II}	192.0	264.0 ^{II}	181.0	237.0 ^{II}	174.0	208.0 ^{II}	161.0	186.0 ^{II}	148.0	165.0 ^{II}	132.0	141.0 ^{II}	116.0	120.0 ^{II}	100.0	102.0 ^{II}	84.8	85.8 ^{II}			
	BV	335.0 ^{II}	329.0 ^{II}	329.0 ^{II}	313.0 ^{II}	313.0 ^{II}	290.0 ^{II}	290.0 ^{II}	197.0	267.0 ^{II}	186.0	238.0 ^{II}	174.0	212.0 ^{II}	160.0	187.0 ^{II}	147.0	165.0 ^{II}	132.0	143.0 ^{II}	116.0	121.0 ^{II}	101.0	103.0 ^{II}	85.5	86.6 ^{II}			
180	B	285.0 ^{II}	288.0 ^{II}	288.0 ^{II}	287.0 ^{II}	287.0 ^{II}	277.0 ^{II}	277.0 ^{II}	182.0	258.0 ^{II}	173.0	233.0 ^{II}	166.0	205.0 ^{II}	155.0	185.0 ^{II}	143.0	163.0 ^{II}	129.0	141.0 ^{II}	113.0	120.0 ^{II}	98.5	102.0 ^{II}	83.5	85.2 ^{II}			
	BV	312.0 ^{II}	309.0 ^{II}	309.0 ^{II}	299.0 ^{II}	299.0 ^{II}	280.0 ^{II}	280.0 ^{II}	188.0	260.0 ^{II}	178.0	235.0 ^{II}	168.0	209.0 ^{II}	154.0	186.0 ^{II}	142.0	164.0 ^{II}	128.0	142.0 ^{II}	113.0	121.0 ^{II}	99.5	103.0 ^{II}	84.3	86.0 ^{II}			
190	B	261.0 ^{II}	269.0 ^{II}	269.0 ^{II}	271.0 ^{II}	271.0 ^{II}	265.0 ^{II}	265.0 ^{II}	164.0	229.0 ^{II}	158.0	202.0 ^{II}	149.0	183.0 ^{II}	138.0	161.0 ^{II}	125.0	139.0 ^{II}	111.0	119.0 ^{II}	97.0	101.0 ^{II}	82.1	84.2 ^{II}					
	BV	291.0 ^{II}	290.0 ^{II}	290.0 ^{II}	283.0 ^{II}	283.0 ^{II}	269.0 ^{II}	269.0 ^{II}	169.0	230.0 ^{II}	162.0	207.0 ^{II}	149.0	184.0 ^{II}	137.0	162.0 ^{II}	124.0	141.0 ^{II}	110.0	120.0 ^{II}	97.5	102.0 ^{II}	82.9	85.5 ^{II}					
200	B	238.0 ^{II}	249.0 ^{II}	249.0 ^{II}	255.0 ^{II}	255.0 ^{II}	251.0 ^{II}	251.0 ^{II}	156.0	223.0 ^{II}	150.0	198.0 ^{II}	142.0	180.0 ^{II}	133.0	159.0 ^{II}	121.0	139.0 ^{II}	108.0	118.0 ^{II}	95.3	100.0 ^{II}	80.7	84.1 ^{II}					
	BV	269.0 ^{II}	272.0 ^{II}	272.0 ^{II}	269.0 ^{II}	269.0 ^{II}	258.0 ^{II}	258.0 ^{II}	160.0	243.0 ^{II}	160.0	224.0 ^{II}	154.0	203.0 ^{II}	145.0	182.0 ^{II}	132.0	160.0 ^{II}	120.0	139.0 ^{II}	107.0	119.0 ^{II}	95.2	101.0 ^{II}	81.6	85.0 ^{II}			
220	B	204.0 ^{II}	210.0 ^{II}	210.0 ^{II}	221.0 ^{II}	221.0 ^{II}	224.0 ^{II}	224.0 ^{II}	134.0	208.0 ^{II}	134.0	187.0 ^{II}	126.0	174.0 ^{II}	120.0	156.0 ^{II}	113.0	136.0 ^{II}	101.0	116.0 ^{II}	90.3	99.0 ^{II}	77.8	82.2 ^{II}					
	BV	234.0 ^{II}	238.0 ^{II}	238.0 ^{II}	240.0 ^{II}	240.0 ^{II}	236.0 ^{II}	236.0 ^{II}	137.0	228.0 ^{II}	137.0	195.0 ^{II}	130.0	177.0 ^{II}	123.0	157.0 ^{II}	112.0	137.0 ^{II}	100.0	117.0 ^{II}	90.0	100.0 ^{II}	78.1	83.2 ^{II}					
240	B	172.0 ^{II}	180.0 ^{II}	180.0 ^{II}	187.0 ^{II}	187.0 ^{II}	195.0 ^{II}	195.0 ^{II}	113.0	198.0 ^{II}	113.0	195.0 ^{II}	113.0	173.0 ^{II}	113.0	167.0 ^{II}	107.0	151.0 ^{II}	100.0	133.0 ^{II}	93.2	114.0 ^{II}	84.7	97.1 ^{II}	74.1	80.8 ^{II}			
	BV	200.0 ^{II}	208.0 ^{II}	208.0 ^{II}	212.0 ^{II}	212.0 ^{II}	213.0 ^{II}	210.0 ^{II}	115.0	199.0 ^{II}	115.0	199.0 ^{II}	115.0	188.0 ^{II}	115.0	171.0 ^{II}	110.0	153.0 ^{II}	103.0	134.0 ^{II}	93.2	115.0 ^{II}	83.9	98.4 ^{II}	73.6	81.9 ^{II}			
260	B	147.0 ^{II}	153.0 ^{II}	153.0 ^{II}	161.0 ^{II}	161.0 ^{II}	166.0 ^{II}	166.0 ^{II}	97.0	173.0 ^{II}	97.0	173.0 ^{II}	97.0	157.0 ^{II}															



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		HS 295 ft																											
ft	B BV	W79ft		W98ft		W118ft		W138ft		W158ft		W177ft		W197ft		W217ft		W236ft		W256ft		W276ft		W295ft		W315ft			
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	431.0*	434.0 ¹⁾																										
50	BV	404.0*	435.0 ²⁾																										
60	B	417.0	433.0 ²⁾	381.0	384.0 ²⁾	323.0*	343.0 ²⁾	296.0*	303.0 ²⁾	267.0*	268.0 ²⁾																		
60	BV	421.0	439.0 ²⁾	385.0	388.0 ²⁾																								
70	B	391.0	430.0 ²⁾	361.0	381.0 ²⁾	333.0	342.0 ²⁾	304.0	304.0 ²⁾	257.0*	269.0 ²⁾	230.0*	235.0 ²⁾	207.0*	208.0 ²⁾														
70	BV	396.0	439.0 ²⁾	365.0	387.0 ²⁾	337.0	346.0 ²⁾	307.0	308.0 ²⁾																				
80	B	359.0	427.0 ²⁾	338.0	378.0 ²⁾	315.0	340.0 ²⁾	290.0	303.0 ²⁾	264.0	268.0 ²⁾	236.0	236.0 ²⁾	201.0*	208.0 ²⁾	178.0*	180.0 ²⁾	156.0*	156.0 ²⁾	134.0*	134.0*								
80	BV	366.0	438.0 ²⁾	343.0	386.0 ²⁾	319.0	345.0 ²⁾	293.0	307.0 ²⁾	266.0	271.0 ²⁾	238.0	238.0																
90	B	327.0	423.0 ²⁾	311.0	375.0 ²⁾	296.0	337.0 ²⁾	276.0	301.0 ²⁾	253.0	267.0 ²⁾	229.0	229.0 ²⁾	206.0	206.0	180.0	180.0 ²⁾	153.0*	156.0 ²⁾	133.0*	134.0 ²⁾	113.0*	113.0 ²⁾	96.9*	96.9*				
90	BV	334.0	438.0 ²⁾	316.0	385.0 ²⁾	300.0	344.0 ²⁾	279.0	307.0 ²⁾	255.0	271.0 ²⁾	230.0	230.0 ²⁾	207.0	207.0	181.0	181.0												
100	B	306.0	420.0 ²⁾	288.0	373.0 ²⁾	276.0	333.0 ²⁾	262.0	300.0 ²⁾	243.0	266.0 ²⁾	221.0	225.0 ²⁾	200.0	200.0	178.0	178.0	155.0	155.0	134.0	134.0	112.0*	113.0 ²⁾	96.0*	96.4 ²⁾	80.9*	80.9*		
100	BV	314.0	439.0 ²⁾	293.0	386.0 ²⁾	280.0	342.0 ²⁾	265.0	306.0 ²⁾	245.0	270.0 ²⁾	222.0	226.0 ²⁾	201.0	201.0	178.0	178.0	157.0	157.0	135.0	135.0								
110	B		416.0 ²⁾	269.0	370.0 ²⁾	258.0	325.0 ²⁾	246.0	295.0 ²⁾	232.0	266.0 ²⁾	214.0	226.0 ²⁾	195.0	198.0 ²⁾	175.0	175.0 ²⁾	154.0	154.0	133.0	133.0	113.0	113.0	94.9*	96.4 ²⁾	80.2*	80.9 ²⁾		
110	BV		439.0 ²⁾	275.0	386.0 ²⁾	263.0	334.0 ²⁾	250.0	301.0 ²⁾	234.0	270.0 ²⁾	214.0	228.0 ²⁾	195.0	200.0 ²⁾	174.0	174.0 ²⁾	155.0	155.0	134.0	134.0	114.0	114.0						
120	B		401.0 ²⁾	255.0	367.0 ²⁾	241.0	323.0 ²⁾	231.0	289.0 ²⁾	220.0	258.0 ²⁾	205.0	227.0 ²⁾	189.0	198.0 ²⁾	171.0	175.0 ²⁾	152.0	152.0 ²⁾	131.0	131.0	113.0	113.0	96.4	96.4	80.9	80.9 ²⁾		
120	BV		431.0 ²⁾	262.0	387.0 ²⁾	246.0	335.0 ²⁾	235.0	297.0 ²⁾	222.0	263.0 ²⁾	206.0	230.0 ²⁾	189.0	199.0 ²⁾	170.0	175.0 ²⁾	152.0	153.0 ²⁾	132.0	132.0	113.0	113.0	97.0	97.0	81.4	81.4		
130	B		375.0 ²⁾		357.0 ²⁾	228.0	321.0 ²⁾	218.0	288.0 ²⁾	207.0	258.0 ²⁾	196.0	228.0 ²⁾	183.0	197.0 ²⁾	167.0	175.0 ²⁾	149.0	152.0 ²⁾	129.0	130.0 ²⁾	111.0	111.0 ²⁾	95.5	95.5	80.6	80.6		
130	BV		408.0 ²⁾		379.0 ²⁾	233.0	336.0 ²⁾	222.0	298.0 ²⁾	210.0	264.0 ²⁾	197.0	231.0 ²⁾	183.0	199.0 ²⁾	165.0	176.0 ²⁾	148.0	153.0 ²⁾	130.0	131.0 ²⁾	112.0	112.0	96.1	96.1	81.1	81.1		
140	B		350.0 ²⁾		342.0 ²⁾	218.0	319.0 ²⁾	205.0	286.0 ²⁾	196.0	256.0 ²⁾	185.0	228.0 ²⁾	176.0	196.0 ²⁾	162.0	175.0 ²⁾	146.0	152.0 ²⁾	128.0	130.0 ²⁾	110.0	111.0 ²⁾	94.3	94.3 ²⁾	79.6	79.6		
140	BV		382.0 ²⁾		366.0 ²⁾	224.0	337.0 ²⁾	209.0	298.0 ²⁾	199.0	264.0 ²⁾	188.0	232.0 ²⁾	176.0	199.0 ²⁾	160.0	176.0 ²⁾	144.0	153.0 ²⁾	128.0	131.0 ²⁾	111.0	112.0 ²⁾	94.9	95.0 ²⁾	80.2	80.2		
150	B		326.0 ²⁾		321.0 ²⁾		310.0 ²⁾	195.0	284.0 ²⁾	185.0	254.0 ²⁾	176.0	226.0 ²⁾	168.0	195.0 ²⁾	156.0	175.0 ²⁾	142.0	152.0 ²⁾	125.0	130.0 ²⁾	108.0	110.0 ²⁾	93.0	93.9 ²⁾	78.5	78.7 ²⁾		
150	BV		357.0 ²⁾		345.0 ²⁾		329.0 ²⁾	200.0	299.0 ²⁾	188.0	264.0 ²⁾	178.0	231.0 ²⁾	169.0	198.0 ²⁾	155.0	177.0 ²⁾	140.0	154.0 ²⁾	125.0	131.0 ²⁾	109.0	111.0 ²⁾	93.6	94.7 ²⁾	79.1	79.3 ²⁾		
160	B		306.0 ²⁾		301.0 ²⁾		297.0 ²⁾	187.0	276.0 ²⁾	176.0	252.0 ²⁾	166.0	224.0 ²⁾	160.0	192.0 ²⁾	149.0	174.0 ²⁾	138.0	152.0 ²⁾	123.0	130.0 ²⁾	106.0	110.0 ²⁾	91.7	93.4 ²⁾	77.4	78.3 ²⁾		
160	BV		332.0 ²⁾		325.0 ²⁾		316.0 ²⁾	192.0	292.0 ²⁾	180.0	263.0 ²⁾	169.0	229.0 ²⁾	162.0	196.0 ²⁾	150.0	176.0 ²⁾	136.0	154.0 ²⁾	122.0	131.0 ²⁾	107.0	111.0 ²⁾	92.4	94.3 ²⁾	78.0	78.9 ²⁾		
170	B		283.0 ²⁾		283.0 ²⁾		280.0 ²⁾		268.0 ²⁾	168.0	246.0 ²⁾	158.0	223.0 ²⁾	152.0	190.0 ²⁾	142.0	172.0 ²⁾	133.0	150.0 ²⁾	119.0	129.0 ²⁾	104.0	110.0 ²⁾	90.3	93.0 ²⁾	76.4	77.8 ²⁾		
170	BV		310.0 ²⁾		305.0 ²⁾		299.0 ²⁾		284.0 ²⁾	172.0	259.0 ²⁾	161.0	228.0 ²⁾	154.0	194.0 ²⁾	144.0	175.0 ²⁾	132.0	153.0 ²⁾	119.0	131.0 ²⁾	104.0	111.0 ²⁾	91.0	94.0 ²⁾	76.9	78.5 ²⁾		
180	B		261.0 ²⁾		265.0 ²⁾		265.0 ²⁾		260.0 ²⁾	160.0	239.0 ²⁾	151.0	218.0 ²⁾	144.0	188.0 ²⁾	136.0	170.0 ²⁾	128.0	149.0 ²⁾	116.0	128.0 ²⁾	102.0	109.0 ²⁾	88.9	92.5 ²⁾	75.2	77.3 ²⁾		
180	BV		289.0 ²⁾		286.0 ²⁾		283.0 ²⁾		275.0 ²⁾	161.0	253.0 ²⁾	154.0	225.0 ²⁾	147.0	192.0 ²⁾	138.0	174.0 ²⁾	128.0	152.0 ²⁾	115.0	130.0 ²⁾	102.0	111.0 ²⁾	89.4	93.7 ²⁾	75.8	78.1 ²⁾		
190	B		240.0 ²⁾		246.0 ²⁾		250.0 ²⁾		247.0 ²⁾		232.0 ²⁾	143.0	213.0 ²⁾	137.0	185.0 ²⁾	129.0	169.0 ²⁾	122.0	148.0 ²⁾	112.0	128.0 ²⁾	98.9	108.0 ²⁾	87.1	91.9 ²⁾	74.0	76.8 ²⁾		
190	BV		268.0 ²⁾		268.0 ²⁾		267.0 ²⁾		261.0 ²⁾		247.0 ²⁾	147.0	222.0 ²⁾	140.0	189.0 ²⁾	131.0	172.0 ²⁾	123.0	151.0 ²⁾	112.0	130.0 ²⁾	99.0	109.0 ²⁾	87.5	93.2 ²⁾	74.6	77.7 ²⁾		
200	B		202.0 ²⁾		210.0 ²⁾		219.0 ²⁾		222.0 ²⁾		218.0 ²⁾		203.0 ²⁾	122.0	178.0 ²⁾	116.0	167.0 ²⁾	110.0	146.0 ²⁾	103.0	126.0 ²⁾	92.5	107.0 ²⁾	82.1	91.1 ²⁾	70.9	75.3 ²⁾		
200	BV		232.0 ²⁾		235.0 ²⁾		237.0 ²⁾		235.0 ²⁾		229.0 ²⁾		213.0 ²⁾	126.0	182.0 ²⁾	118.0	171.0 ²⁾	112.0	149.0 ²⁾	104.0	128.0 ²⁾	93.1	109.0 ²⁾	82.6	92.3 ²⁾	71.4	76.3 ²⁾		
220	B		173.0 ²⁾		177.0 ²⁾		187.0 ²⁾		194.0 ²⁾		198.0 ²⁾		189.0 ²⁾		167.0 ²⁾	103.0	159.0 ²⁾	97.4	142.0 ²⁾	91.0	124.0 ²⁾	84.2	105.0 ²⁾	76.6	89.1 ²⁾	66.6	74.3 ²⁾		
220	BV		201.0 ²⁾		205.0 ²⁾		210.0 ²⁾		211.0 ²⁾		207.0 ²⁾		200.0 ²⁾		176.0 ²⁾	106.0	165.0 ²⁾	99.2	146.0 ²⁾	92.6	126.0 ²⁾	85.8	107.0 ²⁾	77.4	90.5 ²⁾	67.1	75.4 ²⁾		
240	B		145.0 ²⁾		152.0 ²⁾		159.0 ²⁾		167.0 ²⁾		173.0 ²⁾		172.0 ²⁾		156.0 ²⁾		154.0 ²⁾	86.4	138.0 ²⁾	80.4	121.0 ²⁾	74.4	102.0 ²⁾	69.1	87.3 ²⁾	62.0	73.1 ²⁾		
240	BV		171.0 ²⁾		178.0 ²⁾		184.0 ²⁾		188.0 ²⁾		187.0 ²⁾		183.0 ²⁾		169.0 ²⁾		159.0 ²⁾	89.0	142.0 ²⁾	82.3	124.0 ²⁾	75.7	104.0 ²⁾	70.6	88.7 ²⁾	62.8	74.1 ²⁾		
260	B		125.0 ²⁾		127.0 ²⁾		136.0 ²⁾		141.0 ²⁾		149.0 ²⁾		151.0 ²⁾		143.0 ²⁾		146.0 ²⁾		132.0 ²⁾	71.2	117.0 ²⁾	65.2	99.8 ²⁾	60.8	85.9 ²⁾	55.1	71.8 ²⁾		
260	BV		149.0 ²⁾		151.0 ²⁾		160.0 ²⁾		165.0 ²⁾		168.0 ²⁾		166.0 ²⁾		160.0 ²⁾		151.0 ²⁾		138.0 ²⁾	73.6	121.0 ²⁾	67.0							

HSDWB/BV

HS 315



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



47

		HS 315 ft																											
ft	B BV	W79ft		W98ft		W118ft		W138ft		W158ft		W177ft		W197ft		W217ft		W236ft		W256ft		W276ft		W295ft		W315ft			
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	389.0*	389.0 ^{DI}																										
50	BV	366.0*	388.0 ^{DI}																										
60	B	376.0	386.0 ^{DI}	344.0	345.0 ^{DI}	293.0*	307.0 ^{DI}	266.0*	271.0 ^{DI}	241.0*	241.0*																		
60	BV	379.0	391.0 ^{DI}	347.0	348.0 ^{DI}																								
70	B	353.0	382.0 ^{DI}	326.0	341.0 ^{DI}	301.0	306.0 ^{DI}	272.0	272.0	231.0*	239.0 ^{DI}	209.0*	212.0 ^{DI}	187.0*	187.0*														
70	BV	358.0	388.0 ^{DI}	330.0	345.0 ^{DI}	303.0	308.0 ^{DI}	275.0	275.0																				
80	B	327.0	378.0 ^{DI}	306.0	338.0 ^{DI}	285.0	304.0 ^{DI}	260.0	269.0 ^{DI}	236.0	238.0 ^{DI}	213.0	213.0	180.0*	186.0 ^{DI}	160.0*	162.0 ^{DI}	141.0*	141.0*										
80	BV	332.0	386.0 ^{DI}	310.0	343.0 ^{DI}	286.0	306.0 ^{DI}	261.0	272.0 ^{DI}	237.0	238.0 ^{DI}	213.0	213.0																
90	B	300.0	375.0 ^{DI}	285.0	335.0 ^{DI}	269.0	301.0 ^{DI}	248.0	268.0 ^{DI}	227.0	238.0 ^{DI}	207.0	207.0 ^{DI}	185.0	185.0	155.0*	162.0 ^{DI}	138.0*	141.0 ^{DI}	120.0*	121.0 ^{DI}	103.0*	103.0*						
90	BV	305.0	385.0 ^{DI}	288.0	340.0 ^{DI}	269.0	304.0 ^{DI}	247.0	270.0 ^{DI}	226.0	230.0 ^{DI}	206.0	207.0 ^{DI}	185.0	185.0														
100	B	280.0	373.0 ^{DI}	265.0	333.0 ^{DI}	253.0	299.0 ^{DI}	236.0	266.0 ^{DI}	218.0	237.0 ^{DI}	200.0	202.0 ^{DI}	181.0	181.0	160.0	160.0	141.0	141.0	118.0*	121.0 ^{DI}	102.0*	103.0 ^{DI}	87.0*	87.4 ^{DI}	73.1*	73.1*		
100	BV	286.0	384.0 ^{DI}	268.0	338.0 ^{DI}	255.0	302.0 ^{DI}	235.0	269.0 ^{DI}	216.0	231.0 ^{DI}	198.0	201.0 ^{DI}	181.0	181.0	159.0	159.0	141.0	141.0										
110	B		371.0 ^{DI}	247.0	331.0 ^{DI}	237.0	290.0 ^{DI}	224.0	265.0 ^{DI}	209.0	237.0 ^{DI}	194.0	203.0 ^{DI}	176.0	179.0 ^{DI}	157.0	157.0	140.0	140.0	121.0	121.0	103.0	103.0 ^{DI}	86.3*	87.5 ^{DI}	72.5*	73.0 ^{DI}		
110	BV		384.0 ^{DI}	251.0	338.0 ^{DI}	240.0	294.0 ^{DI}	223.0	266.0 ^{DI}	207.0	232.0 ^{DI}	191.0	202.0 ^{DI}	174.0	178.0 ^{DI}	156.0	156.0	139.0	139.0	121.0	121.0	103.0	103.0						
120	B	370.0 ^{DI}	370.0 ^{DI}	234.0	330.0 ^{DI}	222.0	290.0 ^{DI}	211.0	257.0 ^{DI}	199.0	229.0 ^{DI}	187.0	204.0 ^{DI}	171.0	179.0 ^{DI}	153.0	157.0 ^{DI}	137.0	137.0 ^{DI}	120.0	120.0	103.0	103.0	87.4	87.4	73.1	73.1 ^{DI}		
120	BV	383.0 ^{DI}	383.0 ^{DI}	239.0	338.0 ^{DI}	225.0	294.0 ^{DI}	212.0	259.0 ^{DI}	197.0	230.0 ^{DI}	183.0	203.0 ^{DI}	170.0	178.0 ^{DI}	151.0	155.0 ^{DI}	136.0	136.0 ^{DI}	119.0	119.0	103.0	103.0	87.9	87.9	73.6	73.6		
130	B	355.0 ^{DI}	371.0 ^{DI}		328.0 ^{DI}	210.0	290.0 ^{DI}	199.0	257.0 ^{DI}	188.0	229.0 ^{DI}	178.0	204.0 ^{DI}	165.0	179.0 ^{DI}	149.0	157.0 ^{DI}	134.0	138.0 ^{DI}	118.0	119.0 ^{DI}	102.0	102.0	87.1	87.1	72.9	72.9		
130	BV	357.0 ^{DI}	371.0 ^{DI}		337.0 ^{DI}	213.0	294.0 ^{DI}	201.0	259.0 ^{DI}	188.0	230.0 ^{DI}	175.0	204.0 ^{DI}	161.0	179.0 ^{DI}	146.0	156.0 ^{DI}	132.0	136.0 ^{DI}	117.0	118.0 ^{DI}	101.0	101.0	87.3	87.3	73.3	73.3		
140	B	339.0 ^{DI}	357.0 ^{DI}		317.0 ^{DI}	200.0	289.0 ^{DI}	187.0	257.0 ^{DI}	178.0	229.0 ^{DI}	169.0	205.0 ^{DI}	159.0	180.0 ^{DI}	145.0	158.0 ^{DI}	131.0	138.0 ^{DI}	116.0	119.0 ^{DI}	101.0	101.0	86.4	86.4	72.5	72.5		
140	BV	357.0 ^{DI}	357.0 ^{DI}		327.0 ^{DI}	205.0	295.0 ^{DI}	189.0	260.0 ^{DI}	180.0	230.0 ^{DI}	168.0	204.0 ^{DI}	155.0	180.0 ^{DI}	141.0	157.0 ^{DI}	128.0	137.0 ^{DI}	114.0	118.0 ^{DI}	99.1	101.0 ^{DI}	86.2	86.2	72.9	72.9		
150	B	317.0 ^{DI}	317.0 ^{DI}		309.0 ^{DI}		285.0 ^{DI}	178.0	257.0 ^{DI}	168.0	229.0 ^{DI}	161.0	204.0 ^{DI}	151.0	179.0 ^{DI}	140.0	159.0 ^{DI}	128.0	138.0 ^{DI}	113.0	119.0 ^{DI}	98.9	101.0 ^{DI}	85.2	86.0 ^{DI}	71.9	72.0 ^{DI}		
150	BV	337.0 ^{DI}	337.0 ^{DI}		320.0 ^{DI}		292.0 ^{DI}	181.0	260.0 ^{DI}	170.0	230.0 ^{DI}	161.0	204.0 ^{DI}	149.0	180.0 ^{DI}	136.0	157.0 ^{DI}	124.0	137.0 ^{DI}	110.0	118.0 ^{DI}	96.7	101.0 ^{DI}	85.6	86.0 ^{DI}	72.1	72.3 ^{DI}		
160	B	298.0 ^{DI}	317.0 ^{DI}		293.0 ^{DI}		276.0 ^{DI}	171.0	254.0 ^{DI}	160.0	229.0 ^{DI}	152.0	204.0 ^{DI}	144.0	178.0 ^{DI}	134.0	158.0 ^{DI}	124.0	139.0 ^{DI}	110.0	119.0 ^{DI}	96.8	101.0 ^{DI}	83.9	85.6 ^{DI}	70.8	71.5 ^{DI}		
160	BV	317.0 ^{DI}	317.0 ^{DI}		306.0 ^{DI}		284.0 ^{DI}	175.0	258.0 ^{DI}	162.0	231.0 ^{DI}	153.0	204.0 ^{DI}	143.0	179.0 ^{DI}	131.0	157.0 ^{DI}	119.0	138.0 ^{DI}	107.0	118.0 ^{DI}	94.1	101.0 ^{DI}	82.7	85.9 ^{DI}	70.8	72.0 ^{DI}		
170	B	277.0 ^{DI}	297.0 ^{DI}		277.0 ^{DI}		271.0 ^{DI}		248.0 ^{DI}	153.0	227.0 ^{DI}	145.0	203.0 ^{DI}	137.0	176.0 ^{DI}	128.0	157.0 ^{DI}	119.0	138.0 ^{DI}	107.0	119.0 ^{DI}	94.2	100.0 ^{DI}	82.4	85.2 ^{DI}	69.7	71.1 ^{DI}		
170	BV	297.0 ^{DI}	297.0 ^{DI}		290.0 ^{DI}		278.0 ^{DI}		253.0 ^{DI}	155.0	229.0 ^{DI}	146.0	204.0 ^{DI}	137.0	178.0 ^{DI}	126.0	157.0 ^{DI}	115.0	137.0 ^{DI}	104.0	119.0 ^{DI}	91.4	101.0 ^{DI}	80.6	85.2 ^{DI}	69.3	71.7 ^{DI}		
180	B	257.0 ^{DI}	278.0 ^{DI}		260.0 ^{DI}		258.0 ^{DI}		241.0 ^{DI}	148.0	223.0 ^{DI}	138.0	202.0 ^{DI}	130.0	174.0 ^{DI}	122.0	156.0 ^{DI}	114.0	137.0 ^{DI}	104.0	118.0 ^{DI}	91.2	100.0 ^{DI}	80.4	84.8 ^{DI}	68.5	70.7 ^{DI}		
180	BV	278.0 ^{DI}	278.0 ^{DI}		274.0 ^{DI}		267.0 ^{DI}		247.0 ^{DI}	151.0	226.0 ^{DI}	140.0	204.0 ^{DI}	131.0	177.0 ^{DI}	121.0	156.0 ^{DI}	111.0	136.0 ^{DI}	100.0	118.0 ^{DI}	88.7	101.0 ^{DI}	78.4	85.7 ^{DI}	67.5	71.5 ^{DI}		
190	B	237.0 ^{DI}	260.0 ^{DI}		243.0 ^{DI}		244.0 ^{DI}		234.0 ^{DI}		218.0 ^{DI}	132.0	198.0 ^{DI}	124.0	172.0 ^{DI}	116.0	154.0 ^{DI}	109.0	135.0 ^{DI}	99.8	117.0 ^{DI}	88.2	99.1 ^{DI}	78.0	84.4 ^{DI}	66.9	70.3 ^{DI}		
190	BV	260.0 ^{DI}	260.0 ^{DI}		259.0 ^{DI}		254.0 ^{DI}		239.0 ^{DI}		221.0 ^{DI}	135.0	201.0 ^{DI}	126.0	176.0 ^{DI}	116.0	155.0 ^{DI}	107.0	135.0 ^{DI}	96.8	117.0 ^{DI}	85.9	99.8 ^{DI}	76.1	85.6 ^{DI}	65.6	71.2 ^{DI}		
200	B	197.0 ^{DI}	226.0 ^{DI}		209.0 ^{DI}		216.0 ^{DI}		216.0 ^{DI}		203.0 ^{DI}		186.0 ^{DI}	112.0	165.0 ^{DI}	104.0	150.0 ^{DI}	98.4	132.0 ^{DI}	91.1	114.0 ^{DI}	81.9	97.0 ^{DI}	72.7	82.7 ^{DI}	62.8	68.7 ^{DI}		
200	BV	226.0 ^{DI}	226.0 ^{DI}		229.0 ^{DI}		229.0 ^{DI}		221.0 ^{DI}		209.0 ^{DI}		192.0 ^{DI}	114.0	170.0 ^{DI}	106.0	153.0 ^{DI}	99.2	133.0 ^{DI}	89.6	115.0 ^{DI}	79.8	98.1 ^{DI}	71.1	83.6 ^{DI}	61.6	69.8 ^{DI}		
220	B	170.0 ^{DI}	197.0 ^{DI}		174.0 ^{DI}		186.0 ^{DI}		191.0 ^{DI}		191.0 ^{DI}		176.0 ^{DI}		158.0 ^{DI}	93.5	145.0 ^{DI}	87.7	128.0 ^{DI}	81.5	111.0 ^{DI}	74.8	94.8 ^{DI}	67.5	81.0 ^{DI}	58.4	67.9 ^{DI}		
220	BV	197.0 ^{DI}	197.0 ^{DI}		202.0 ^{DI}		204.0 ^{DI}		201.0 ^{DI}		194.0 ^{DI}		182.0 ^{DI}		164.0 ^{DI}	95.2	149.0 ^{DI}	88.7	132.0 ^{DI}	82.0	114.0 ^{DI}	73.8	96.4 ^{DI}	65.9	82.3 ^{DI}	57.3	68.9 ^{DI}		
240	B	143.0 ^{DI}	169.0 ^{DI}		150.0 ^{DI}		156.0 ^{DI}		165.0 ^{DI}		170.0 ^{DI}		168.0 ^{DI}		149.0 ^{DI}		136.0 ^{DI}	78.3	123.0 ^{DI}	71.9	108.0 ^{DI}	65.8	92.7 ^{DI}	61.1	79.1 ^{DI}	54.0	66.2 ^{DI}		
240	BV	169.0 ^{DI}	169.0 ^{DI}		176.0 ^{DI}		181.0 ^{DI}		181.0 ^{DI}		177.0 ^{DI}		171.0 ^{DI}		158.0 ^{DI}		144.0 ^{DI}	79.7	128.0 ^{DI}	72.8	111.0 ^{DI}	66.3	94.6 ^{DI}	60.6	80.6 ^{DI}	52.9	67.3 ^{DI}		
260	B	121.0 ^{DI}	145.0 ^{DI}		127.0 ^{DI}		135.0 ^{DI}		137.0 ^{DI}		147.0 ^{DI}		149.0 ^{DI}		141.0 ^{DI}		130.0 ^{DI}		119.0 ^{DI}	63.9	105.0 ^{DI}	57.8	90.1 ^{DI}	53.1	76.9 ^{DI}	48.0	64.3 ^{DI}		
260	BV	145.0 ^{DI}	145.0 ^{DI}		151.0 ^{DI}		159.0 ^{DI}		161.0 ^{DI}		161.0 ^{DI}		158.0 ^{DI}		151.0 ^{DI}		139.0 ^{DI}		125.0 ^{DI}	65.2	108.0 ^{DI}								



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



47

		HS 335 ft																										
ft	B BV	W79ft		W98ft		W118ft		W138ft		W158ft		W177ft		W197ft		W217ft		W236ft		W256ft		W276ft		W295ft		W315ft		
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85
50	B	351.0*	351.0*																									
50	BV	351.0*	351.0*																									
60	B	332.0*	349.0 ⁽³⁾	304.0*	309.0 ⁽³⁾	276.0*	276.0*																					
60	BV	332.0*	349.0 ⁽³⁾	304.0*	309.0 ⁽³⁾	276.0*	276.0*																					
70	B	342.0	348.0 ⁽³⁾	311.0	311.0	265.0*	275.0 ⁽³⁾	239.0*	243.0 ⁽³⁾	217.0*	217.0*																	
70	BV	345.0	352.0 ⁽³⁾	312.0	312.0																							
80	B	322.0	343.0 ⁽³⁾	297.0	307.0 ⁽³⁾	271.0	274.0 ⁽³⁾	228.0*	242.0 ⁽³⁾	209.0*	216.0 ⁽³⁾	188.0*	190.0 ⁽³⁾	168.0*	168.0*													
80	BV	327.0	349.0 ⁽³⁾	301.0	310.0 ⁽³⁾	275.0	278.0 ⁽³⁾																					
90	B	301.0	339.0 ⁽³⁾	280.0	304.0 ⁽³⁾	258.0	272.0 ⁽³⁾	235.0	241.0 ⁽³⁾	214.0	215.0 ⁽³⁾	180.0*	190.0 ⁽³⁾	163.0*	167.0 ⁽³⁾	144.0*	146.0 ⁽³⁾	128.0*	128.0*									
90	BV	306.0	347.0 ⁽³⁾	284.0	308.0 ⁽³⁾	261.0	276.0 ⁽³⁾	237.0	243.0 ⁽³⁾	216.0	216.0 ⁽³⁾																	
100	B	278.0	336.0 ⁽³⁾	263.0	301.0 ⁽³⁾	245.0	270.0 ⁽³⁾	225.0	239.0 ⁽³⁾	207.0	214.0 ⁽³⁾	186.0	189.0 ⁽³⁾	166.0	166.0	139.0*	145.0 ⁽³⁾	124.0*	127.0 ⁽³⁾	108.0*	109.0 ⁽³⁾	93.1*	93.1*					
100	BV	283.0	344.0 ⁽³⁾	266.0	306.0 ⁽³⁾	248.0	274.0 ⁽³⁾	227.0	242.0 ⁽³⁾	209.0	216.0 ⁽³⁾	187.0	189.0 ⁽³⁾	166.0	166.0 ⁽³⁾													
110	B	259.0	335.0 ⁽³⁾	245.0	299.0 ⁽³⁾	232.0	268.0 ⁽³⁾	215.0	239.0 ⁽³⁾	199.0	214.0 ⁽³⁾	181.0	188.0 ⁽³⁾	163.0	163.0	144.0	144.0	128.0	128.0	106.0*	110.0 ⁽³⁾	91.7*	92.9 ⁽³⁾					
110	BV	264.0	344.0 ⁽³⁾	249.0	304.0 ⁽³⁾	235.0	271.0 ⁽³⁾	217.0	241.0 ⁽³⁾	201.0	215.0 ⁽³⁾	182.0	189.0 ⁽³⁾	163.0	163.0	144.0	144.0	127.0	127.0									
120	B		333.0 ⁽³⁾	229.0	298.0 ⁽³⁾	218.0	263.0 ⁽³⁾	205.0	238.0 ⁽³⁾	192.0	214.0 ⁽³⁾	175.0	188.0 ⁽³⁾	159.0	161.0 ⁽³⁾	141.0	141.0	126.0	126.0	109.0	109.0	93.1	93.1					
120	BV		343.0 ⁽³⁾	233.0	303.0 ⁽³⁾	221.0	267.0 ⁽³⁾	207.0	240.0 ⁽³⁾	193.0	214.0 ⁽³⁾	176.0	189.0 ⁽³⁾	159.0	161.0 ⁽³⁾	141.0	141.0	125.0	125.0	109.0	109.0	93.4	93.4					
130	B		332.0 ⁽³⁾	217.0	297.0 ⁽³⁾	204.0	260.0 ⁽³⁾	193.0	232.0 ⁽³⁾	184.0	213.0 ⁽³⁾	169.0	187.0 ⁽³⁾	154.0	161.0 ⁽³⁾	138.0	140.0 ⁽³⁾	123.0	123.0 ⁽³⁾	108.0	108.0	92.7	92.7					
130	BV		343.0 ⁽³⁾	217.0	303.0 ⁽³⁾	208.0	263.0 ⁽³⁾	196.0	234.0 ⁽³⁾	185.0	213.0 ⁽³⁾	170.0	189.0 ⁽³⁾	155.0	161.0 ⁽³⁾	138.0	140.0 ⁽³⁾	123.0	123.0	107.0	107.0	92.1	92.1	79.1	79.1	66.1	66.1	
140	B		325.0 ⁽³⁾		295.0 ⁽³⁾	193.0	260.0 ⁽³⁾	182.0	231.0 ⁽³⁾	174.0	207.0 ⁽³⁾	162.0	185.0 ⁽³⁾	149.0	161.0 ⁽³⁾	135.0	141.0 ⁽³⁾	120.0	123.0 ⁽³⁾	106.0	106.0 ⁽³⁾	91.6	91.6					
140	BV		337.0 ⁽³⁾		302.0 ⁽³⁾	196.0	263.0 ⁽³⁾	185.0	232.0 ⁽³⁾	176.0	208.0 ⁽³⁾	163.0	183.0 ⁽³⁾	150.0	162.0 ⁽³⁾	135.0	141.0 ⁽³⁾	120.0	123.0 ⁽³⁾	105.0	106.0 ⁽³⁾	90.8	90.8	78.3	78.3	65.8	65.8	
150	B		313.0 ⁽³⁾		290.0 ⁽³⁾	184.0	259.0 ⁽³⁾	172.0	230.0 ⁽³⁾	165.0	207.0 ⁽³⁾	155.0	184.0 ⁽³⁾	144.0	162.0 ⁽³⁾	131.0	141.0 ⁽³⁾	118.0	124.0 ⁽³⁾	104.0	107.0 ⁽³⁾	90.1	90.8 ⁽³⁾					
150	BV		327.0 ⁽³⁾		298.0 ⁽³⁾	188.0	263.0 ⁽³⁾	174.0	232.0 ⁽³⁾	167.0	208.0 ⁽³⁾	156.0	184.0 ⁽³⁾	144.0	162.0 ⁽³⁾	131.0	141.0 ⁽³⁾	118.0	123.0 ⁽³⁾	104.0	106.0 ⁽³⁾	89.3	90.1 ⁽³⁾	77.1	77.1	65.0	65.0	
160	B		303.0 ⁽³⁾		282.0 ⁽³⁾		259.0 ⁽³⁾	163.0	230.0 ⁽³⁾	155.0	207.0 ⁽³⁾	147.0	183.0 ⁽³⁾	138.0	163.0 ⁽³⁾	126.0	142.0 ⁽³⁾	115.0	124.0 ⁽³⁾	101.0	107.0 ⁽³⁾	88.3	90.8 ⁽³⁾					
160	BV		318.0 ⁽³⁾		291.0 ⁽³⁾		264.0 ⁽³⁾	166.0	232.0 ⁽³⁾	158.0	208.0 ⁽³⁾	148.0	184.0 ⁽³⁾	139.0	162.0 ⁽³⁾	126.0	142.0 ⁽³⁾	115.0	124.0 ⁽³⁾	102.0	106.0 ⁽³⁾	87.8	90.3 ⁽³⁾	75.9	76.8 ⁽³⁾	64.1	64.1	
170	B		291.0 ⁽³⁾		273.0 ⁽³⁾		253.0 ⁽³⁾	156.0	229.0 ⁽³⁾	148.0	206.0 ⁽³⁾	139.0	183.0 ⁽³⁾	131.0	162.0 ⁽³⁾	121.0	142.0 ⁽³⁾	111.0	124.0 ⁽³⁾	98.9	107.0 ⁽³⁾	86.3	90.7 ⁽³⁾					
170	BV		303.0 ⁽³⁾		283.0 ⁽³⁾		259.0 ⁽³⁾	160.0	233.0 ⁽³⁾	150.0	208.0 ⁽³⁾	141.0	183.0 ⁽³⁾	132.0	162.0 ⁽³⁾	122.0	142.0 ⁽³⁾	111.0	124.0 ⁽³⁾	99.1	107.0 ⁽³⁾	86.1	90.5 ⁽³⁾	74.6	76.9 ⁽³⁾	63.0	64.0 ⁽³⁾	
180	B		273.0 ⁽³⁾		262.0 ⁽³⁾		245.0 ⁽³⁾		225.0 ⁽³⁾	141.0	205.0 ⁽³⁾	132.0	182.0 ⁽³⁾	125.0	160.0 ⁽³⁾	116.0	141.0 ⁽³⁾	107.0	124.0 ⁽³⁾	96.1	107.0 ⁽³⁾	84.1	90.7 ⁽³⁾					
180	BV		287.0 ⁽³⁾		274.0 ⁽³⁾		252.0 ⁽³⁾		228.0 ⁽³⁾	144.0	208.0 ⁽³⁾	134.0	183.0 ⁽³⁾	126.0	162.0 ⁽³⁾	117.0	141.0 ⁽³⁾	108.0	124.0 ⁽³⁾	96.2	107.0 ⁽³⁾	84.2	90.7 ⁽³⁾	73.3	77.0 ⁽³⁾	62.0	64.0 ⁽³⁾	
190	B		254.0 ⁽³⁾		255.0 ⁽³⁾		237.0 ⁽³⁾		219.0 ⁽³⁾	136.0	202.0 ⁽³⁾	126.0	181.0 ⁽³⁾	118.0	159.0 ⁽³⁾	111.0	140.0 ⁽³⁾	103.0	123.0 ⁽³⁾	93.0	107.0 ⁽³⁾	81.6	90.4 ⁽³⁾					
190	BV		270.0 ⁽³⁾		262.0 ⁽³⁾		244.0 ⁽³⁾		224.0 ⁽³⁾	139.0	204.0 ⁽³⁾	128.0	183.0 ⁽³⁾	120.0	161.0 ⁽³⁾	112.0	141.0 ⁽³⁾	104.0	124.0 ⁽³⁾	93.2	107.0 ⁽³⁾	82.0	90.9 ⁽³⁾	71.7	77.1 ⁽³⁾	60.9	63.9 ⁽³⁾	
200	B		235.0 ⁽³⁾		239.0 ⁽³⁾		229.0 ⁽³⁾		214.0 ⁽³⁾		197.0 ⁽³⁾	121.0	177.0 ⁽³⁾	113.0	158.0 ⁽³⁾	105.0	139.0 ⁽³⁾	98.4	122.0 ⁽³⁾	89.6	106.0 ⁽³⁾	78.9	90.1 ⁽³⁾					
200	BV		254.0 ⁽³⁾		249.0 ⁽³⁾		238.0 ⁽³⁾		219.0 ⁽³⁾		201.0 ⁽³⁾	123.0	181.0 ⁽³⁾	115.0	161.0 ⁽³⁾	107.0	140.0 ⁽³⁾	99.3	123.0 ⁽³⁾	90.1	106.0 ⁽³⁾	79.3	90.6 ⁽³⁾	69.8	77.2 ⁽³⁾	59.4	63.9 ⁽³⁾	
220	B		198.0 ⁽³⁾		207.0 ⁽³⁾		208.0 ⁽³⁾		199.0 ⁽³⁾		185.0 ⁽³⁾		170.0 ⁽³⁾	103.0	153.0 ⁽³⁾	94.6	135.0 ⁽³⁾	88.7	119.0 ⁽³⁾	81.6	103.0 ⁽³⁾	73.0	87.5 ⁽³⁾					
220	BV		223.0 ⁽³⁾		223.0 ⁽³⁾		218.0 ⁽³⁾		206.0 ⁽³⁾		191.0 ⁽³⁾		174.0 ⁽³⁾	105.0	157.0 ⁽³⁾	96.2	138.0 ⁽³⁾	89.9	121.0 ⁽³⁾	82.4	104.0 ⁽³⁾	73.4	88.4 ⁽³⁾	64.9	75.4 ⁽³⁾	55.7	63.2 ⁽³⁾	
240	B		167.0 ⁽³⁾		175.0 ⁽³⁾		182.0 ⁽³⁾		181.0 ⁽³⁾		173.0 ⁽³⁾		160.0 ⁽³⁾		145.0 ⁽³⁾	85.2	130.0 ⁽³⁾	79.4	116.0 ⁽³⁾	73.2	100.0 ⁽³⁾	66.5	85.0 ⁽³⁾					
240	BV		195.0 ⁽³⁾		198.0 ⁽³⁾		197.0 ⁽³⁾		189.0 ⁽³⁾		181.0 ⁽³⁾		167.0 ⁽³⁾		152.0 ⁽³⁾	86.9	135.0 ⁽³⁾	80.7	119.0 ⁽³⁾	74.1	102.0 ⁽³⁾	67.1	86.5 ⁽³⁾	59.9	73.9 ⁽³⁾	51.4	61.6 ⁽³⁾	
260	B		143.0 ⁽³⁾		148.0 ⁽³⁾		155.0 ⁽³⁾		159.0 ⁽³⁾		160.0 ⁽³⁾		152.0 ⁽³⁾		137.0 ⁽³⁾		124.0 ⁽³⁾	70.7	111.0 ⁽³⁾	64.7	97.3 ⁽³⁾	58.7	83.0 ⁽³⁾					
260	BV		169.0 ⁽³⁾		174.0 ⁽³⁾		177.0 ⁽³⁾		173.0 ⁽³⁾		169.0 ⁽³⁾		160.0 ⁽³⁾		147.0 ⁽³⁾		131.0 ⁽³⁾	72.4	116.0 ⁽³⁾	65.7	100.0 ⁽³⁾	59.6	84.8 ⁽³⁾	54.5	72.2 ⁽³⁾	47.2	60.1 ⁽³⁾	
280	B		118.0 ⁽³⁾		126.0 ⁽³⁾		132.0 ⁽³⁾		137.0 ⁽³⁾		141.0 ⁽³⁾		140.0 ⁽³⁾		131.0 ⁽³⁾		118.0 ⁽³⁾		106.0 ⁽³⁾	56.9	93.4 ⁽³⁾	51.3	80.4 ⁽³⁾					
280	BV		142.0 ⁽³⁾		150.0 ⁽³⁾		156.0 ⁽³⁾		156.0 ⁽³⁾		155.0 ⁽³⁾		150.0 ⁽³⁾		142.0 ⁽³⁾		126.0 ⁽³⁾		113.0 ⁽³⁾	58.6	97.5 ⁽³⁾	52.2	82.6 ⁽³⁾	47.3	70.5 ⁽³⁾	42.0	58.6 ⁽³⁾	
300	B		100.0 ⁽³⁾		104.0 ⁽³⁾		112.0 ⁽³⁾		116.0 ⁽³⁾		123.0 ⁽³⁾		124.0 ⁽³⁾		122.0 ⁽³⁾		112.0 ⁽³⁾		101.0 ⁽³⁾		89.9 ⁽³⁾	44.5	77.7 ⁽³⁾					



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



47

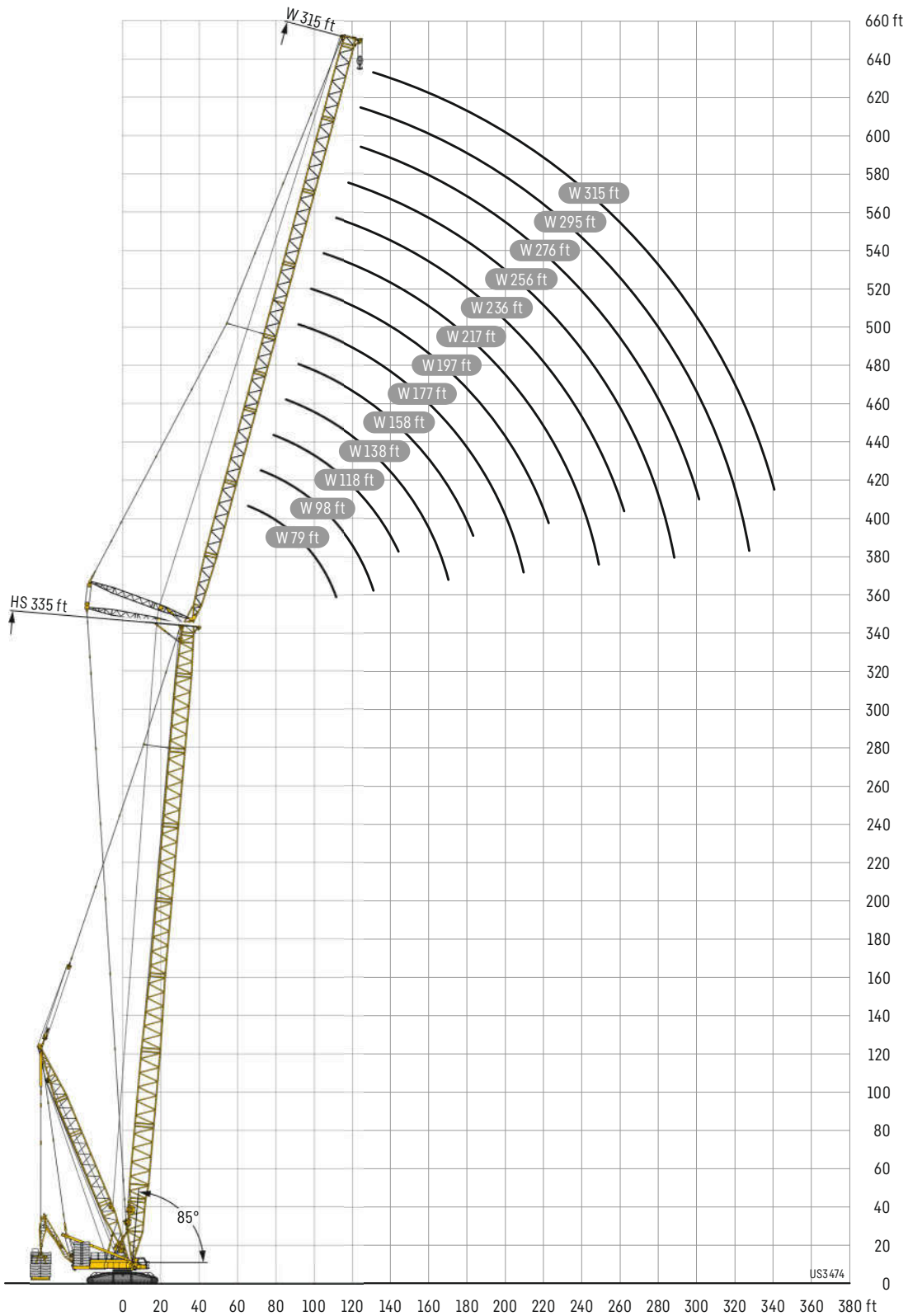
ft		HS 354 ft																	
		W98 ft		W118 ft		W138 ft		W158 ft		W 177 ft		W197 ft		W217 ft		W236 ft		W256 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
55	B	275.0*	275.0*																
	BV																		
60	B	270.0*	273.0 ⁽¹⁾	245.0*	245.0*														
	BV																		
70	B	257.0*	272.0 ⁽¹⁾	235.0*	242.0 ⁽¹⁾	213.0*	215.0 ⁽¹⁾	193.0*	193.0*										
	BV																		
80	B	263.0	270.0 ⁽¹⁾	239.0	241.0 ⁽¹⁾	204.0*	214.0 ⁽¹⁾	185.0*	190.0 ⁽¹⁾										
	BV	264.0	270.0 ⁽¹⁾	238.0	239.0 ⁽¹⁾														
90	B	251.0	268.0 ⁽¹⁾	229.0	239.0 ⁽¹⁾	209.0	213.0 ⁽¹⁾	189.0	189.0 ⁽¹⁾										
	BV	251.0	267.0 ⁽¹⁾	228.0	238.0 ⁽¹⁾	207.0	211.0 ⁽¹⁾	187.0	187.0										
100	B	236.0	265.0 ⁽¹⁾	218.0	237.0 ⁽¹⁾	201.0	212.0 ⁽¹⁾	183.0	188.0 ⁽¹⁾										
	BV	237.0	265.0 ⁽¹⁾	218.0	236.0 ⁽¹⁾	199.0	210.0 ⁽¹⁾	180.0	186.0 ⁽¹⁾	161.0	163.0 ⁽¹⁾	144.0	144.0						
110	B	223.0	263.0 ⁽¹⁾	208.0	235.0 ⁽¹⁾	193.0	210.0 ⁽¹⁾	177.0	186.0 ⁽¹⁾										
	BV	224.0	262.0 ⁽¹⁾	208.0	234.0 ⁽¹⁾	192.0	209.0 ⁽¹⁾	175.0	185.0 ⁽¹⁾	157.0	163.0 ⁽¹⁾	140.0	140.0 ⁽¹⁾	124.0	124.0 ⁽¹⁾	110.0	110.0		
120	B	208.0	261.0 ⁽¹⁾	198.0	233.0 ⁽¹⁾	185.0	208.0 ⁽¹⁾	170.0	185.0 ⁽¹⁾										
	BV	211.0	261.0 ⁽¹⁾	198.0	232.0 ⁽¹⁾	184.0	208.0 ⁽¹⁾	169.0	184.0 ⁽¹⁾	152.0	162.0 ⁽¹⁾	137.0	138.0 ⁽²⁾	121.0	121.0	108.0	108.0	93.6	93.6
130	B	197.0	258.0 ⁽¹⁾	186.0	231.0 ⁽¹⁾	176.0	205.0 ⁽¹⁾	164.0	184.0 ⁽¹⁾										
	BV	200.0	259.0 ⁽¹⁾	187.0	226.0 ⁽²⁾	175.0	205.0 ⁽¹⁾	162.0	183.0 ⁽¹⁾	148.0	161.0 ⁽¹⁾	133.0	138.0 ⁽²⁾	118.0	120.0 ⁽²⁾	105.0	105.0	91.7	91.7
140	B		256.0 ⁽¹⁾	175.0	229.0 ⁽¹⁾	166.0	202.0 ⁽²⁾	157.0	180.0 ⁽²⁾										
	BV		258.0 ⁽¹⁾	177.0	226.0 ⁽²⁾	168.0	201.0 ⁽²⁾	155.0	179.0 ⁽¹⁾	143.0	161.0 ⁽¹⁾	129.0	138.0 ⁽²⁾	115.0	120.0 ⁽²⁾	103.0	105.0 ⁽²⁾	89.8	89.9 ⁽²⁾
150	B		254.0 ⁽¹⁾	166.0	228.0 ⁽¹⁾	157.0	201.0 ⁽²⁾	149.0	180.0 ⁽²⁾										
	BV		257.0 ⁽¹⁾	169.0	225.0 ⁽²⁾	159.0	200.0 ⁽²⁾	149.0	179.0 ⁽²⁾	137.0	157.0 ⁽²⁾	125.0	139.0 ⁽²⁾	112.0	120.0 ⁽²⁾	100.0	105.0 ⁽²⁾	87.8	89.9 ⁽²⁾
160	B		247.0 ⁽²⁾		225.0 ⁽¹⁾	149.0	200.0 ⁽²⁾	140.0	179.0 ⁽²⁾										
	BV		250.0 ⁽²⁾		224.0 ⁽²⁾	151.0	200.0 ⁽²⁾	142.0	178.0 ⁽²⁾	131.0	157.0 ⁽²⁾	121.0	139.0 ⁽²⁾	109.0	120.0 ⁽²⁾	97.6	105.0 ⁽²⁾	85.7	90.0 ⁽²⁾
170	B		242.0 ⁽⁴⁾		220.0 ⁽²⁾	143.0	199.0 ⁽²⁾	133.0	178.0 ⁽²⁾										
	BV		243.0 ⁽⁵⁾		222.0 ⁽²⁾	145.0	199.0 ⁽²⁾	135.0	178.0 ⁽²⁾	126.0	157.0 ⁽²⁾	116.0	139.0 ⁽²⁾	105.0	121.0 ⁽²⁾	94.8	105.0 ⁽²⁾	83.4	90.1 ⁽²⁾
180	B		233.0 ⁽⁶⁾		214.0 ⁽³⁾		196.0 ⁽²⁾	127.0	177.0 ⁽²⁾										
	BV		236.0 ⁽⁵⁾		217.0 ⁽²⁾		198.0 ⁽²⁾	129.0	177.0 ⁽²⁾	119.0	157.0 ⁽²⁾	112.0	138.0 ⁽²⁾	101.0	120.0 ⁽²⁾	92.0	105.0 ⁽²⁾	81.2	90.1 ⁽²⁾
190	B		230.0 ⁽⁸⁾		210.0 ⁽⁵⁾		192.0 ⁽³⁾	123.0	175.0 ⁽²⁾										
	BV		231.0 ⁽⁸⁾		212.0 ⁽²⁾		194.0 ⁽²⁾	125.0	176.0 ⁽²⁾	114.0	156.0 ⁽²⁾	106.0	138.0 ⁽²⁾	97.6	120.0 ⁽²⁾	89.0	105.0 ⁽²⁾	78.9	90.2 ⁽²⁾
200	B		221.0 ⁽¹⁰⁾		202.0 ⁽⁶⁾		187.0 ⁽⁴⁾		172.0 ⁽³⁾										
	BV		223.0 ⁽¹⁰⁾		206.0 ⁽²⁾		190.0 ⁽²⁾		174.0 ⁽²⁾	110.0	156.0 ⁽²⁾	102.0	137.0 ⁽²⁾	93.6	120.0 ⁽²⁾	85.7	104.0 ⁽²⁾	76.5	89.7 ⁽²⁾
220	B		195.0 ⁽¹⁰⁾		191.0 ⁽¹⁰⁾		176.0 ⁽⁷⁾		163.0 ⁽⁵⁾										
	BV		207.0 ⁽¹¹⁾		195.0 ⁽²⁾		183.0 ⁽²⁾		168.0 ⁽²⁾		151.0 ⁽²⁾	93.0	135.0 ⁽²⁾	84.5	119.0 ⁽²⁾	78.3	104.0 ⁽²⁾	70.6	88.8 ⁽²⁾
240	B		169.0 ⁽¹⁰⁾		170.0 ⁽¹⁰⁾		166.0 ⁽¹⁰⁾		155.0 ⁽⁸⁾										
	BV		188.0 ⁽⁴⁾		184.0 ⁽²⁾		175.0 ⁽²⁾		162.0 ⁽²⁾		147.0 ⁽²⁾		132.0 ⁽²⁾	77.0	116.0 ⁽²⁾	70.6	102.0 ⁽²⁾	64.0	87.8 ⁽²⁾
260	B		144.0 ⁽⁸⁾		149.0 ⁽¹⁰⁾		149.0 ⁽¹⁰⁾		145.0 ⁽¹⁰⁾										
	BV		167.0 ⁽⁸⁾		165.0 ⁽⁵⁾		164.0 ⁽²⁾		156.0 ⁽²⁾		143.0 ⁽²⁾		129.0 ⁽²⁾		113.0 ⁽²⁾	63.6	99.6 ⁽³⁾	56.9	86.1 ⁽³⁾
280	B		123.0 ⁽⁸⁾		127.0 ⁽⁶⁾		132.0 ⁽¹⁰⁾		130.0 ⁽¹⁰⁾										
	BV		146.0 ⁽⁸⁾		148.0 ⁽⁸⁾		148.0 ⁽⁵⁾		144.0 ⁽³⁾		139.0 ⁽²⁾		126.0 ⁽²⁾		111.0 ⁽²⁾		97.6 ⁽³⁾	50.6	84.3 ⁽³⁾
300	B		102.0 ⁽⁸⁾		109.0 ⁽⁸⁾		113.0 ⁽⁸⁾		116.0 ⁽¹⁰⁾										
	BV		125.0 ⁽⁸⁾		129.0 ⁽⁸⁾		132.0 ⁽⁸⁾		130.0 ⁽⁶⁾		126.0 ⁽³⁾		120.0 ⁽²⁾		108.0 ⁽²⁾		95.6 ⁽³⁾		82.4 ⁽³⁾
320	B		83.4 ⁽⁴⁾		89.9 ⁽⁸⁾		95.9 ⁽⁸⁾		100.0 ⁽⁸⁾										
	BV		105.0 ⁽⁶⁾		111.0 ⁽⁶⁾		115.0 ⁽⁸⁾		117.0 ⁽⁸⁾		114.0 ⁽⁶⁾		111.0 ⁽⁴⁾		104.0 ⁽³⁾		93.5 ⁽³⁾		80.5 ⁽³⁾
340	B		67.6 ⁽⁴⁾		72.2 ⁽⁴⁾		78.5 ⁽⁸⁾		84.0 ⁽⁸⁾										
	BV		89.4 ⁽⁶⁾		93.5 ⁽⁴⁾		98.9 ⁽⁸⁾		102.0 ⁽⁸⁾		102.0 ⁽⁹⁾		99.9 ⁽⁷⁾		94.4 ⁽⁵⁾		89.4 ⁽³⁾		78.6 ⁽³⁾
360	B				57.5 ⁽⁴⁾		62.0 ⁽⁴⁾		67.7 ⁽⁸⁾										
	BV				78.9 ⁽⁴⁾		82.7 ⁽⁴⁾		87.7 ⁽⁸⁾		89.6 ⁽⁹⁾		89.9 ⁽⁹⁾		86.4 ⁽⁷⁾		82.7 ⁽⁵⁾		76.1 ⁽⁴⁾
380	B						48.3 ⁽⁴⁾		52.2 ⁽⁴⁾										
	BV						68.9 ⁽⁴⁾		72.4 ⁽⁴⁾		76.7 ⁽⁹⁾		78.3 ⁽⁹⁾		76.9 ⁽⁹⁾		75.1 ⁽⁷⁾		69.5 ⁽⁵⁾
400	B								39.6 ⁽⁴⁾										
	BV								59.4 ⁽⁴⁾		62.9 ⁽⁷⁾		66.7 ⁽⁹⁾		66.3 ⁽⁹⁾		66.7 ⁽⁹⁾		63.2 ⁽⁷⁾
420	B																		
	BV										50.1 ⁽⁷⁾		53.6 ⁽⁷⁾		55.6 ⁽⁹⁾		57.0 ⁽⁹⁾		55.9 ⁽⁹⁾
440	B																		
	BV											41.7 ⁽⁷⁾		43.8 ⁽⁷⁾		47.2 ⁽⁹⁾		46.7 ⁽⁹⁾	
460	B																		
	BV												33.1 ⁽⁷⁾		36.1 ⁽⁷⁾		37.6 ⁽⁹⁾		37.6 ⁽⁹⁾
480	B																		
	BV															26.4 ⁽⁷⁾		22.5 ⁽⁴⁾	
500	B																		
	BV																		13.7 ⁽⁴⁾

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

Lifting heights

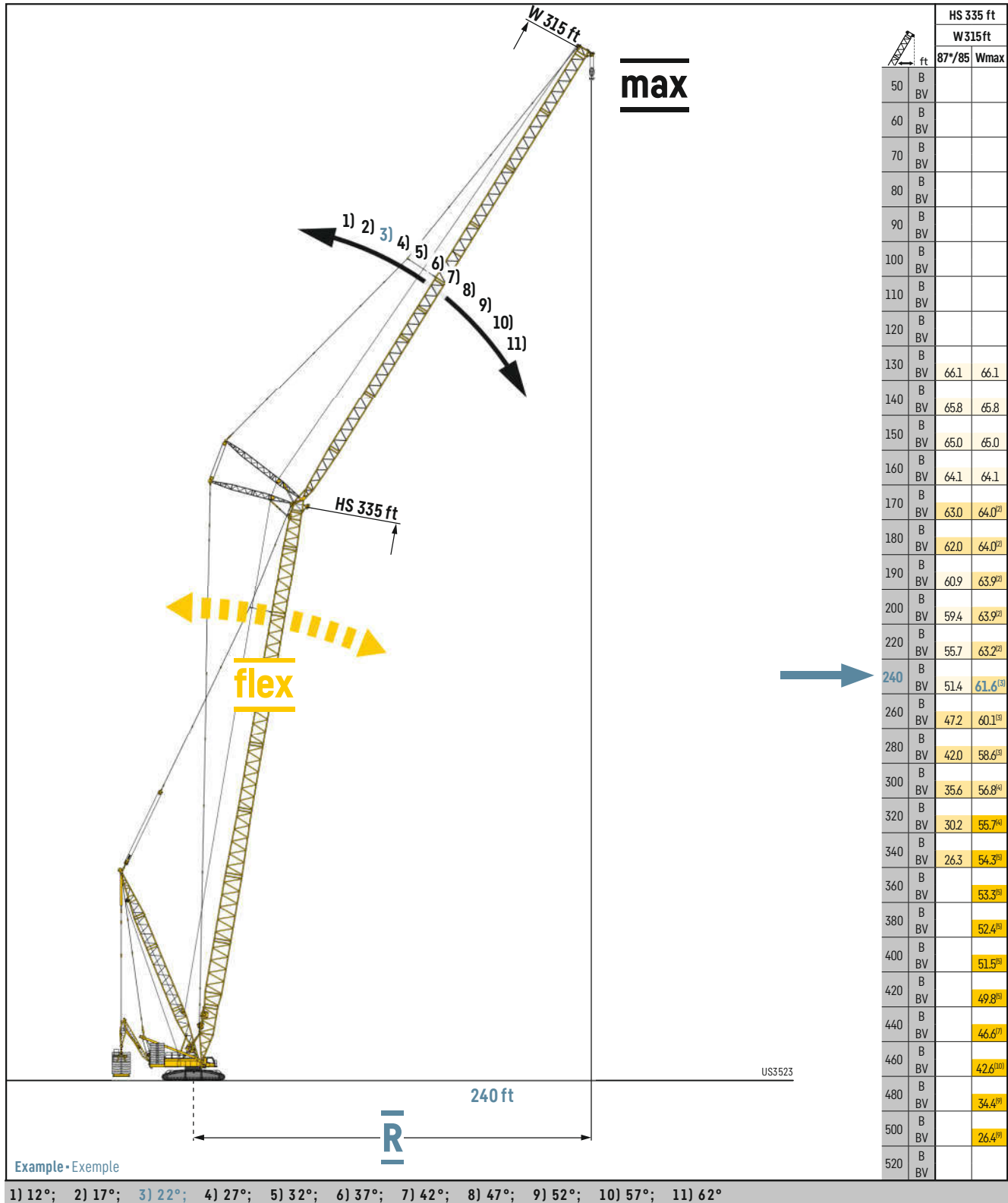
Hauteurs de levage

HSDWB/BV



Example
Exemple

Wmax



HSL3AF

HSL3 256 - 266

256 ft
 HSL3
 39-128 ft
 110,200 lb
 330,700 lb
 418,900 - 507,100 lb
 286,600 - 416,700 lb
 154,300 - 284,400 lb
 0 lb

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

266 ft
 HSL3
 39-128 ft
 110,200 lb
 330,700 lb
 418,900 - 507,100 lb
 286,600 - 416,700 lb
 154,300 - 284,400 lb
 0 lb

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

HSL3AF

HSL3 276 - 285

276 ft
HSL3

39-128 ft

110,200 lb

330,700 lb

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

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

285 ft
HSL3

39-128 ft

110,200 lb

330,700 lb

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

		HSL3 285 ft																												
		F 39 ft			F 49 ft			F 59 ft			F 69 ft			F 79 ft		F 89 ft		F 98 ft		F 108 ft		F 118 ft	F 128 ft							
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	30°	30°	ft	ft	
50	375																											50		
60	336	339	220		330	285			288	243			256															60		
70	282	286	211		282	268	184		268	228			238	209		191			178									70		
80	241	244	203		241	246	176		242	215	159		222	196	140	179	126		166			158			152			80		
90	208	210	195		208	213	170		210	204	153		208	185	134	168	121		156	111		148	104	142				90		
100	181	183	188		181	186	164		183	186	147		183	175	129	159	116		147	106		139	99.6	133	94	89.8	86.4	100		
110	158	160	169		159	163	158		161	164	142		161	164	124	150	112		139	102		131	95.2	125	89.6	85.3	81.9	110		
120	140	141	150		140	144	151		142	145	137		142	147	120	143	107		131	98		124	91.2	118	85.6	81.3	77.8	120		
130	123	125	133		124	127	134		126	128	133		126	130	116	131	104		125	94.2		117	87.5	111	81.9	77.6	74.1	130		
140	109	111	118		110	113	119		112	114	121		112	116	112	117	100		116	90.7		111	84.1	105	78.5	74.1	70.6	140		
150	97.2	98.4	105		97.7	101	107		100	102	108		100	104	108	104	96.7		104	87.6		104	80.9	99.4	75.3	71	67.4	150		
160	86.4	87.6	94		87	90.1	95.5		89.4	91.2	97.2		89.5	93.1	97.9	93.7	93.6		93.2	84.6		93.5	78	92.2	72.4	68.1	64.4	160		
170	76.9	77.9	83.8		77.4	80.4	85.4		79.9	81.5	87.1		79.9	83.4	87.8	84	87.9		83.5	81.9		84	75.3	83.2	69.7	65.3	61.7	170		
180	68.3	69.2	74.3		68.9	71.6	76.1		71.4	72.9	78.1		71.4	74.7	78.7	75.4	79.9		74.9	78.5		75.6	72.7	74.8	67.2	62.9	59.2	180		
190	60	60.9	65.6		60.9	63.4	67.4		63.5	64.8	69.3		63.7	66.9	70.4	67.5	71.6		67.2	71.8		68	69.9	67.2	64.9	60.5	56.9	190		
200	52.5	53.3	57.8		53.4	55.7	59.4		56	57.1	61.3		56.4	59.2	62.3	60.1	63.8		60.1	64.3		61	65.7	60.3	62.7	58.4	54.6	200		
220	39.7	40.3	44.2		40.4	42.5	45.6		42.9	43.9	47.4		43.3	45.8	48.4	46.7	49.8		46.9	50.4		47.9	51.8	47.6	52.1	52.4	50.2	220		
240	29.3	29.8	33.1		29.8	31.7	34.3		32.2	32.9	36		32.5	34.7	36.9	35.7	38.3		35.9	38.9		36.9	40.3	36.7	40.5	41	40.8	240		
260	21.5	21.9	24.5		22.2	23.7	25.7		24.4	25	27.1		24.7	26.4	27.8	27.1	28.9		27.3	29.4		28.1	30.6	28	30.9	31.4	31.2	260		
280	14.3	14.6	16.7		15	16.3	17.9		17.1	17.6	19.6		17.5	19.2	20.6	20.3	21.9		20.5	22.6		21.8	23.8	21.6	24	24.4	24.3	280		
300											11.2		12.7	11.2	12.6	13.6	13.6	15		14	15.7		15.3	17.3	15.3	17.7	18.4	18.3	300	
320																				11.2			11.6		11.6	12.3	12.4	320		

HSL3AF

HSL3 295 - 305

295 ft	39-128 ft	110,200 lb	330,700 lb	418,900 - 507,100 lb
				286,600 - 416,700 lb
				154,300 - 284,400 lb
				0 lb

ft	HSL3 295 ft																								ft			
	F 39 ft			F 49 ft			F 59 ft			F 69 ft			F 79 ft		F 89 ft		F 98 ft		F108 ft		F118 ft	F128 ft						
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	30°	30°						
50	276																							50				
60	331	335				327	285			289				256										60				
70	279	282	211			278	269	184		269	229			239	209		191			178				70				
80	238	241	203			237	243	177		240	216		159	223	197	140	179	127	167			158		80				
90	205	208	196			205	210	170		207	205	153		205	186	134	169	121	157	111	149	104	142	90				
100	179	181	188			179	183	164		181	184	148		180	177	129	160	116	148	107	139	99.8	133	94.1	89.9	86.6	100	
110	156	158	167			157	161	159		159	162	143		158	164	125	152	112	140	102	132	95.5	125	89.8	85.5	82.1	110	
120	138	139	148			138	142	149		141	143	138		140	145	121	143	108	132	98.3	125	91.5	118	85.9	81.6	78.1	120	
130	122	123	131			122	126	133		125	127	132		124	129	117	129	104	125	94.6	118	87.9	112	82.2	77.9	74.4	130	
140	108	109	117			108	112	118		111	113	120		110	115	113	115	101	114	91.2	112	84.5	106	78.9	74.5	71	140	
150	95.8	97.2	104			96.2	99.6	105		98.9	101	107		98.7	103	108	103	97.4	102	88.1	103	81.4	100	75.7	71.4	67.8	150	
160	85.1	86.4	92.8			85.5	88.8	94.2		88.3	89.9	96		88	91.9	96.6	92.4	93.8	91.7	85.1	92.1	78.5	91	72.9	68.5	64.8	160	
170	75.7	76.8	82.9			76	79.2	84.2		78.8	80.2	86		78.5	82.3	86.7	82.7	87.7	82.2	82.4	82.9	75.9	81.9	70.2	65.9	62.2	170	
180	67.2	68.2	73.9			67.5	70.6	75.2		70.3	71.6	77		70.1	73.7	77.7	74.1	78.7	73.8	77.6	74.4	73.3	73.4	67.7	63.4	59.6	180	
190	59.3	60.3	65.2			59.9	62.7	66.8		62.6	63.8	68.7		62.5	65.9	69.6	66.4	70.6	66.2	70.9	66.8	70.4	65.9	65.3	61.1	57.3	190	
200	51.9	52.7	57.3			52.6	55.1	58.8		55.4	56.4	60.7		55.6	58.6	61.9	59.4	63.1	59.2	63.5	59.8	64.5	59.2	62.3	58.8	55.1	200	
220	39	39.7	43.8			39.7	41.9	45.2		42.3	43.2	46.9		42.6	45.2	47.9	46.1	49.3	46.2	49.8	47.2	51.3	46.9	51.4	51.6	50.1	220	
240	28.8	29.2	32.7			29.3	31.1	33.9		31.6	32.3	35.5		31.8	34.2	36.5	35.1	37.7	35.2	38.2	36.3	39.7	35.9	39.9	40.3	40	240	
260	21	21.5	24.3			21.7	23.4	25.5		23.9	24.5	26.8		24.2	26	27.4	26.7	28.5	26.7	28.8	27.6	30.2	27.4	30.4	30.7	30.6	260	
280	13.9	14.2	16.6			14.5	15.9	17.7		16.6	17.2	19.4		17	18.8	20.3	19.8	21.6	20	22.1	21.2	23.4	21.1	23.5	23.9	23.8	280	
300												12.4			12.2	13.4	13.2	14.7		13.5	15.3	14.7	16.9	14.7	17.2	17.8	17.8	300
320																								11.1	11.8	11.8	320	

305 ft	39-118 ft	110,200 lb	330,700 lb	418,900 - 507,100 lb
				286,600 - 416,700 lb
				154,300 - 284,400 lb
				0 lb

ft	HSL3 305 ft																								ft		
	F 39 ft			F 49 ft			F 59 ft			F 69 ft			F 79 ft		F 89 ft		F 98 ft		F108 ft		F118 ft						
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	30°				
60	325	329				324	285			289				256												60	
70	273	277	212			273	270			184	270	229		239	210											70	
80	233	236	204			233	238			177	235	217	159	224	198	140	180			167			159		153	80	
90	201	203	197			201	206			171	203	204	154	202	187	135	170	121	157	111	149			143		90	
100	174	177	187			175	179	165		177	180	148		176	177	130	161	117	149	107	140	99.9		134	94.2	89.9	100
110	152	154	164			153	157	160		155	158	143		155	160	125	153	112	141	103	133	95.7		126	90	85.7	110
120	134	136	144			134	138	146		137	139	138		136	141	121	141	108	134	98.7	126	91.9		119	86.1	81.8	120
130	118	120	128			118	122	129		121	123	131		121	125	117	126	105	125	95.1	119	88.3		113	82.6	78.2	130
140	104	106	113			105	108	115		107	109	117		107	112	113	112	101	111	91.7	111	85		107	79.3	74.9	140
150	92.3	93.6	101			92.7	96.4	102		95.6	97.3	104		95.2	99.4	105	99.8	98.1	99.2	88.6	99.6	81.9		98.4	76.2	71.8	150
160	81.7	82.8	89.8			82.1	85.6	91.2		84.9	86.5	92.9		84.7	88.8	93.7	89.2	94.1	88.6	85.7	89.1	79		88	73.3	68.9	160
170	72.2	73.3	79.8			72.7	76	81.2		75.4	77	82.9		75.4	79.2	83.9	79.6	84.8	79.3	82.4	79.9	76.4		78.8	70.7	66.3	170
180	63.8	64.8	71			64.3	67.4	72.3		66.9	68.5	74		67	70.6	74.9	71.2	76	70.9	76.2	71.4	73.9		70.5	68.2	63.9	180
190	56.2	57.2	62.8			56.7	59.7	64.3		59.4	60.8	66		59.4	62.8	66.8	63.5	67.9	63.2	68.1	63.8	68.6		63.1	65.5	61.6	190
200	49.3	50.1	55.1			49.9	52.6	56.7		52.5	53.8	58.5		52.6	55.8	59.4	56.5	60.6	56.2	60.8	57	62.1		56.3	61.8	59.1	200
220	36.5	37.1	41.6			37.3	39.5	43		39.8	40.9	44.8		40.2	42.9	45.7	43.8	47.2	43.9	47.8	44.9	49.2		44.3	49.3	49.4	220
240	26.7	27.2	30.5			27.3	28.9	31.6		29.4	30.2	33.3		29.5	31.9	34.3	32.8	35.6	33	36.2	34	37.6		33.8	37.9	38.2	240
260	18.5	19	22.2			19.3	21	23.5		21.6	22.3	24.9		22.1	24.1	25.7	24.8	26.7	24.9	27.2	25.8	28.4		25.6	28.5	29	260
280	11.4	11.7	14.4			12	13.5	15.6		14.2	14.9	17.3		14.7	16.6	18.2	17.6	19.6	17.9	20.3	19.1	21.7		18.7	21.8	22.1	280
300																11.3		12.6	11.3	13.3	12.6	14.9		12.4	15.1	15.6	300

HSL3AF

HSL3 315 - 335

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

ft		HSL3 315 ft																		ft	
		F 39 ft			F 49 ft			F 59 ft			F 69 ft			F 79 ft		F 89 ft		F 98 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	15°	30°		
60		319	323		318	285		289													60
70		269	272	212	268	270	184	270	230		240	210		191							70
80		229	232	205	229	234	177	231	218	159	225	198	140	180		168			159		80
90		197	200	198	197	202	171	200	203	154	198	188	135	171	122	158	112	150			90
100		171	173	183	171	176	166	174	177	148	173	178	130	162	117	150	107	141	100		100
110		149	151	161	149	154	159	152	155	144	152	157	126	154	113	142	103	134	95.9		110
120		131	133	141	131	135	143	134	136	139	133	138	121	139	109	134	99	127	92.1		120
130		115	117	125	115	119	127	118	120	129	118	123	118	123	105	122	95.5	120	88.6		130
140		101	103	111	102	106	112	105	107	114	104	109	113	109	102	109	92.1	109	85.3		140
150		89.3	90.8	98.3	90	93.6	99.7	92.7	94.6	102	92.5	96.8	102	97.2	98.3	96.7	89.1	97	82.3		150
160		78.7	80.2	87.1	79.4	82.8	88.8	82.1	84.1	90.4	82.2	86.2	91.3	86.6	92.3	86.1	86.3	86.6	79.5		160
170		69.4	70.7	77.2	70	73.2	78.8	72.8	74.5	80.6	72.8	76.6	81.4	77.3	82.5	76.9	82.1	77.3	76.8		170
180		61.1	62.2	68.4	61.6	64.7	69.9	64.5	66	71.7	64.4	68.1	72.4	68.8	73.7	68.3	73.8	69	73.4		180
190		53.6	54.6	60.5	54	57.1	61.9	56.9	58.3	63.7	56.8	60.5	64.5	61.1	65.7	60.7	65.9	61.5	67.2		190
200		46.8	47.7	53.3	47.2	50.2	54.6	50.1	51.3	56.4	50	53.5	57.2	54.1	58.3	53.9	58.7	54.7	59.9		200
220		34.6	35.3	39.8	35.2	37.7	41.2	38	39	43.1	38.2	41.2	44.2	42	45.5	41.9	45.9	42.7	47.3		220
240		25.1	25.6	28.9	25.6	27.4	30	27.7	28.5	31.8	28.1	30.3	32.7	31.2	34	31.2	34.6	32.3	36.1		240
260		16.7	17.2	20.6	17.4	19.3	21.9	19.8	20.6	23.5	19.9	22.5	24.4	23.2	25.4	23.1	25.8	24.2	27		260
280				12.8		11.8	14	12.5	13.1	15.7	12.8	14.9	16.7	15.9	18.1	15.8	18.4	16.8	19.8		280
300															11.1		11.6		13		300

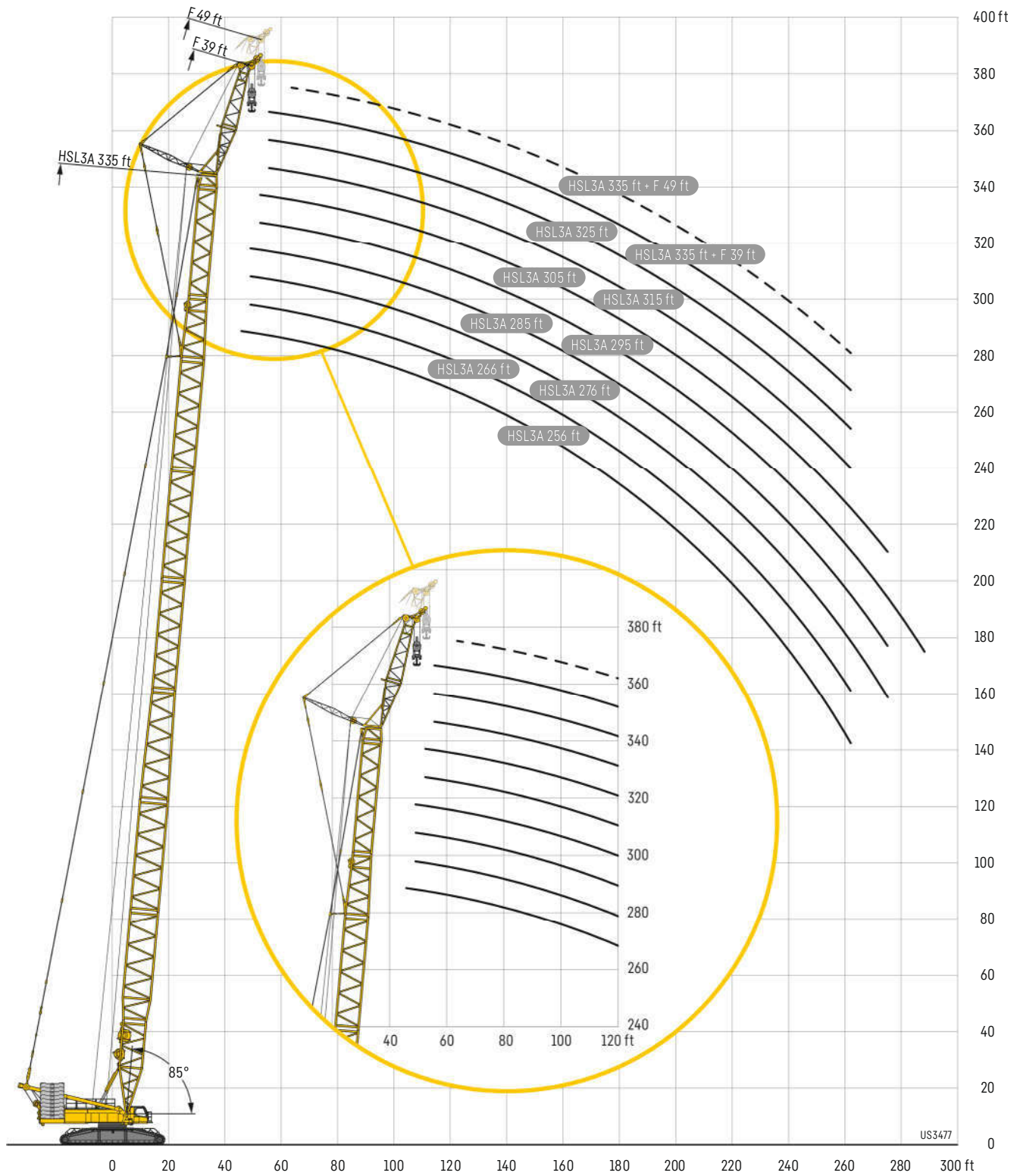
418,900 - 507,100 lb
286,600 - 416,700 lb
154,300 - 284,400 lb
0 lb

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

Lifting heights

Hauteurs de levage

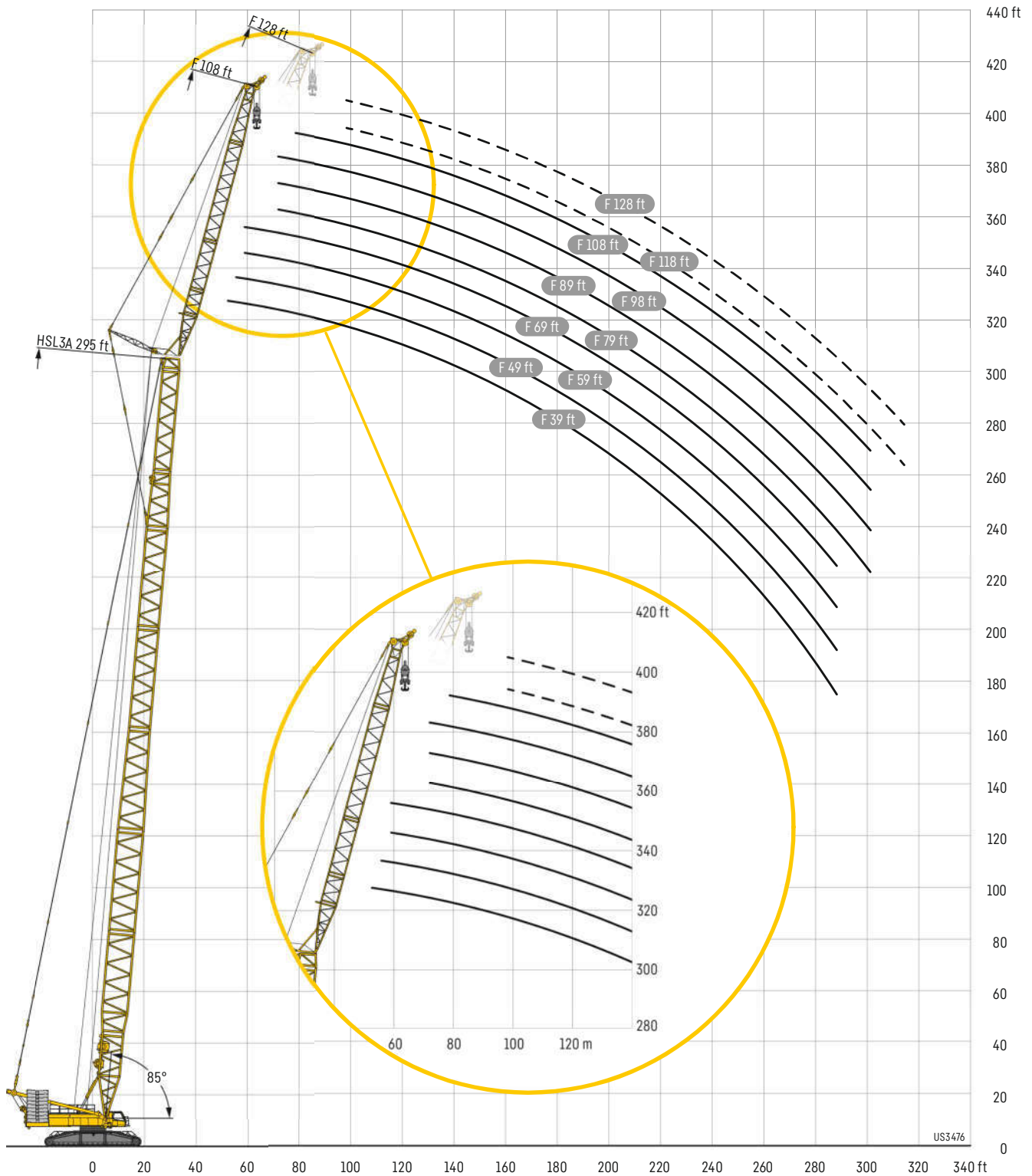
HSL3AF



Lifting heights

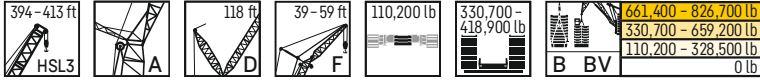
Hauteurs de levage

HSL3AF

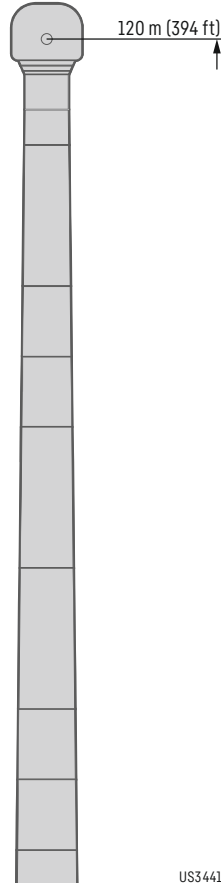


HSL3ADFB/BV

HSL3A 394 - 413



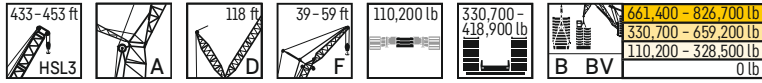
ft	HSL3 394 ft			HSL3 404 ft			HSL3 413 ft		
	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
	10°								
60	Ot 274			271			218		
	B 317			307			291		
	BV								
70	Ot 229	232	232	227	228	227	225	225	225
	B 317	284	259	306	276	251	291	262	239
	BV 318	285	260	307	277		292	263	
80	Ot 194	197	198	192	193	193	190	191	192
	B 316	284	256	305	275	251	289	261	239
	BV 318	285	256	307	276	252	291	262	240
90	Ot 166	169	169	164	164	165	163	163	164
	B 315	283	245	304	274	245	288	260	238
	BV 317	284	245	306	276	245	290	261	239
100	Ot 142	145	146	140	141	142	140	140	141
	B 312	277	234	303	273	235	286	258	233
	BV 316	278	234	306	274	235	289	260	233
110	Ot 122	125	126	121	121	122	120	121	122
	B 309	266	224	300	267	225	283	255	224
	BV 313	267	224	305	268	225	287	258	224
120	Ot 105	108	109	104	105	106	103	104	105
	B 304	255	214	296	257	216	279	252	215
	BV 310	256	214	302	257	216	284	254	215
130	Ot 90.4	93.8	94.6	89.1	90	91	89	89.7	90.7
	B 299	245	206	291	247	207	275	246	207
	BV 303	245	205	298	247	207	281	247	207
140	Ot 77.7	80.9	81.9	76.4	77.3	78.3	76.4	77.1	78.2
	B 291	236	197	286	238	199	271	238	199
	BV 292	236	197	294	238	199	278	238	199
150	Ot 66.5	69.7	70.8	65.2	66.1	67.1	65.3	66.1	67
	B 281	227	190	281	230	192	266	230	192
	BV 281	227	190	290	229	192	274	230	192
160	Ot 56.6	59.7	60.7	55.3	56.1	57.2	55.5	56.2	57.2
	B 271	219	183	273	221	185	261	222	185
	BV 271	219	183	281	221	185	271	222	185
170	Ot 47.9	50.8	51.9	46.5	47.3	48.3	46.6	47.3	48.5
	B 262	211	177	265	213	178	257	214	179
	BV 262	211	177	271	213	178	267	215	179
180	Ot 39.8	43	44	38.5	39.4	40.4	38.9	39.6	40.5
	B 253	204	171	256	206	172	248	207	173
	BV 254	204	171	262	206	172	261	208	173
190	Ot 32.6	35.7	36.6	31.4	32.1	33.3	31.7	32.4	33.6
	B 245	198	165	249	199	166	243	200	167
	BV 246	198	165	253	199	166	254	201	167
200	Ot 26.2	29	30.2	24.8	25.6	26.8	25.1	26	27
	B 238	192	160	241	192	161	239	193	162
	BV 238	192	160	244	192	160	247	194	162
220	Ot 14.7	17.7	18.7	13.5	14.2	15.3	13.9	14.5	15.7
	B 220	181	150	220	180	150	219	182	152
	BV 225	181	150	229	181	151	228	183	152
240	Ot 196	171	142	195	170	142	195	172	143
	BV 212	171	142	214	171	142	210	173	144
260	Ot 175	162	135	174	161	134	174	163	136
	BV 196	163	135	196	162	135	193	164	136
280	Ot 156	153	128	155	151	128	155	152	129
	BV 178	155	128	177	155	128	176	156	129
300	Ot 140	141	122	139	138	122	139	138	123
	BV 161	148	122	160	148	122	160	150	124
320	Ot 125	127	117	124	124	117	124	125	117
	BV 144	142	117	144	140	117	144	141	118
340	Ot 112	114	111	111	111	112	111	112	111
	BV 130	131	113	129	130	112	130	130	114
360	Ot 100	102	103	98.9	99.5	101	99.4	100	101
	BV 117	119	109	116	117	109	117	117	110
380	Ot	91.2	92.4	88.2	88.8	90	88.9	89.5	90.5
	BV 107	107	105	104	105	103	105	106	105
400	Ot					80.3		79.9	80.9
	BV					95.7		95.3	96.1



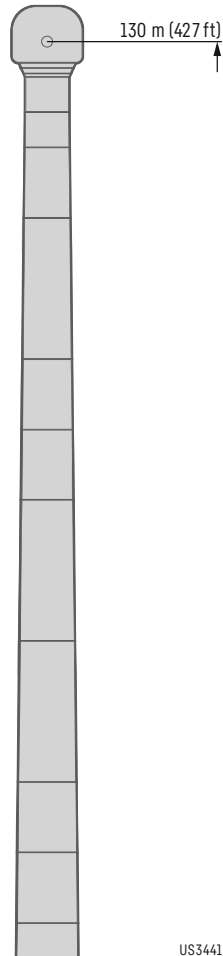
US3441

HSL3ADFB/BV

HSL3A 433 - 453

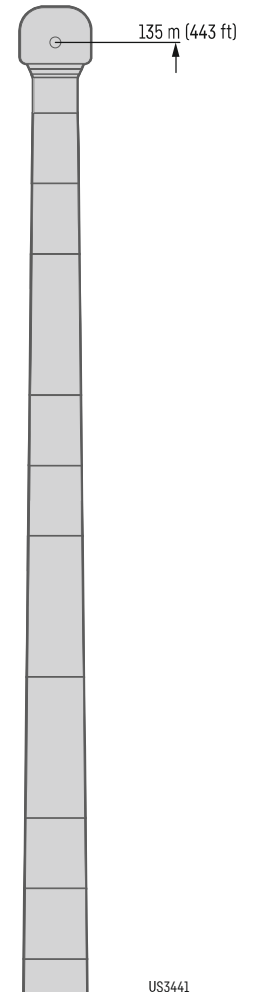


ft	HSL3 433 ft						HSL3 443 ft		
	F 39 ft			F 49 ft			F 59 ft		
	10°								
65	Ot	236				231			
	B	271				260			
	BV								
70	Ot	216	216	219		211	211	209	
	B	270	245	225		259	236	217	
	BV	271	246			260			
80	Ot	183	183	187		178	179	183	
	B	268	244	224		257	235	217	
	BV	270	245	225		259	236	217	
90	Ot	155	156	159		151	152	156	
	B	267	243	223		255	233	216	
	BV	269	244	224		257	235	217	
100	Ot	132	133	137		128	130	133	
	B	265	241	223		252	231	215	
	BV	268	243	224		255	233	216	
110	Ot	113	114	118		110	111	114	
	B	261	238	220		248	228	211	
	BV	265	241	222		252	230	214	
120	Ot	97	97.7	102		93.3	94.2	98.2	
	B	257	234	217		244	224	208	
	BV	262	238	220		248	227	210	
130	Ot	82.7	83.6	87.4		79.2	80	84.1	
	B	252	230	214		240	220	205	
	BV	258	235	216		244	223	207	
140	Ot	70.2	71.2	74.9		66.8	67.7	71.8	
	B	248	227	209		235	216	201	
	BV	254	231	208		240	218	203	
150	Ot	59.3	60.2	64		55.9	56.9	60.8	
	B	243	222	202		230	211	198	
	BV	249	226	200		236	214	198	
160	Ot	49.6	50.3	54.3		46.3	47.2	51.1	
	B	238	217	195		225	206	192	
	BV	245	220	193		231	210	191	
170	Ot	40.8	41.7	45.5		37.7	38.5	42.4	
	B	231	211	188		219	201	186	
	BV	240	214	186		227	205	184	
180	Ot	33.1	33.9	37.7		29.8	30.7	34.6	
	B	226	205	180		214	196	178	
	BV	235	207	179		222	200	178	
190	Ot	26.1	26.9	30.6		23	23.7	27.5	
	B	219	198	173		208	191	172	
	BV	230	200	173		217	195	172	
200	Ot	19.7	20.3	24.2		16.5	17.3	21.2	
	B	214	192	167		202	185	167	
	BV	226	194	167		212	191	167	
220	Ot			12.8					
	B	204	181	157		193	176	157	
	BV	215	183	157		203	182	157	
240	Ot								
	B	190	171	148		182	165	148	
	BV	201	173	149		193	172	148	
260	Ot								
	B	168	163	141		165	158	140	
	BV	185	164	141		180	164	141	
280	Ot								
	B	150	149	134		147	146	134	
	BV	170	156	134		166	156	134	
300	Ot								
	B	134	134	127		131	131	127	
	BV	154	148	128		151	147	129	
320	Ot								
	B	120	120	120		117	117	117	
	BV	139	139	123		136	135	123	
340	Ot								
	B	107	107	110		104	105	107	
	BV	125	126	118		123	123	118	
360	Ot								
	B	95.5	95.8	98.2		92.8	93	95.7	
	BV	113	113	114		110	111	111	
380	Ot								
	B	85	85.5	88.1		82.5	83	85.6	
	BV	101	102	104		98.8	99.5	102	
400	Ot								
	B	75.4	76	78.6		73.1	73.7	76.2	
	BV	90.8	91.5	94		88.6	89.1	91.7	
420	Ot								
	B		67.4	69.6		64.4	64.9	67.4	
	BV		81.6	84.4		78.4	79.4	82.2	



US3441

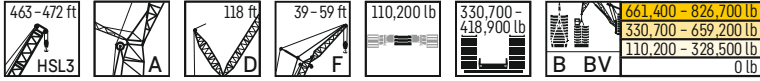
ft	HSL3 453 ft					
	F 39 ft			F 49 ft		
	10°					
65	Ot	227				
	B	249				
	BV					
70	Ot	208	212			
	B	248	228			
	BV	249				
80	Ot	175	179	180		
	B	247	227	209		
	BV	249	228	210		
90	Ot	149	152	153		
	B	245	226	209		
	BV	247	227	209		
100	Ot	126	130	131		
	B	242	224	207		
	BV	246	226	209		
110	Ot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



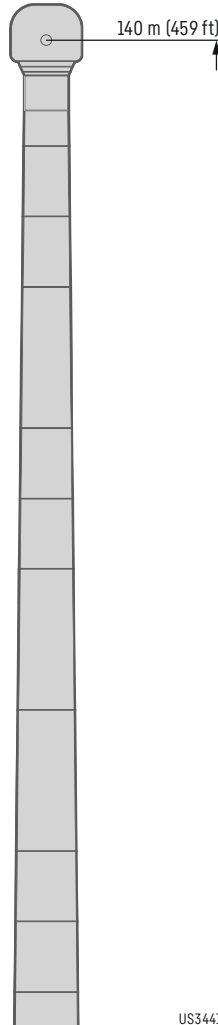
US3441

HSL3ADFB/BV

HSL3A 463 - 472



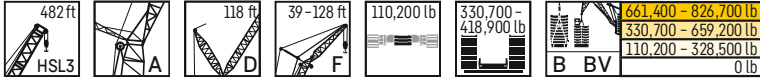
ft	HSL3 463 ft						HSL3 472 ft			
	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft				
	10°									
65	Ot 222									
	BV 238									
70	Ot 203				202		203			
	BV 237				228		210			
		207			225					
80	Ot 171	175	176		170	171	172			
	BV 236	218	202		226	208	194			
		219	203		228	209	194			
90	Ot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



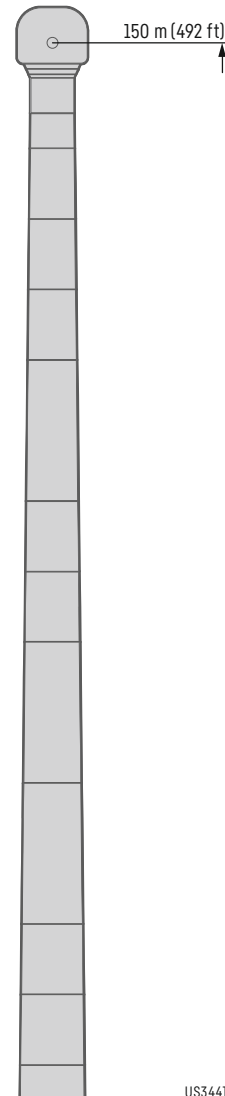
US3441

HSL3ADFB/BV

HSL3A 482



		HSL3 482 ft									
		F 39 ft	F 49 ft	F 59 ft	F 69 ft	F 79 ft	F 89 ft	F 98 ft	F 108 ft	F 118 ft	F 128 ft
		10°				15°				30°	
70	Ot	197									
	B	217									
	BV										
80	Ot	166	167	168	167						
	B	217	200	187	175						
	BV	218	201	187							
90	Ot	140	141	142	142						
	B	215	198	185	173						
	BV	217	200	186	174	155					
100	Ot	118	120	121	120						
	B	212	196	183	171						
	BV	215	198	184	172	153	144	137	129		
110	Ot	100	101	102	102						
	B	209	193	180	168						
	BV	212	195	182	170	151	142	133	126	83.1	79.2
120	Ot	84.4	85.4	86.8	86.6						
	B	206	190	177	165						
	BV	209	193	179	167	149	137	128	121	80.4	76.5
130	Ot	70.7	71.7	73.1	73.1						
	B	203	187	174	162						
	BV	206	190	176	164	144	132	123	117	77.7	73.9
140	Ot	58.7	59.7	61	61.1						
	B	199	184	171	160						
	BV	203	187	173	161	139	128	119	112	75.1	71.3
150	Ot	48	49.1	50.4	50.5						
	B	195	180	168	157						
	BV	199	183	170	158	135	123	115	108	72.8	68.9
160	Ot	38.5	39.6	40.9	41.1						
	B	192	177	165	153						
	BV	196	180	167	155	130	119	111	104	70.6	66.7
170	Ot	30	31.1	32.3	32.6						
	B	188	174	161	150						
	BV	192	177	164	152	126	115	107	100	68.4	64.5
180	Ot	22.4	23.4	24.7	24.9						
	B	183	170	158	147						
	BV	188	174	160	148	123	111	103	96.3	66.3	62.5
190	Ot	15.5	16.5		18						
	B	179	166	154	144						
	BV	184	170	157	145	119	108	99.7	92.9	64.4	60.5
200	Ot										
	B	175	163	151	139						
	BV	181	166	153	141	116	104	96.6	89.9	62.6	58.6
220	Ot										
	B	167	155	143	132						
	BV	174	160	146	133	109	98.5	90.9	84.1	59.3	55.3
240	Ot										
	B	160	147	134	125						
	BV	167	153	138	126	104	93.2	85.7	79	56.2	52.3
260	Ot										
	B	152	139	127	116						
	BV	159	146	131	119	98.9	88.5	81	74.5	53.5	49.5
280	Ot										
	B	139	133	119	110						
	BV	150	139	125	113	94.6	84.4	76.9	70.6	51.1	47
300	Ot										
	B	123	122	114	104						
	BV	137	132	119	108	90.7	80.6	73.2	67	49	44.8
320	Ot										
	B	110	110	108	99.1						
	BV	125	124	113	103	87.1	77.2	70	63.8	47	42.8
340	Ot										
	B	96.9	97.4	97.7	93						
	BV	114	113	108	98.9	84	74.2	67	60.9	45.2	41
360	Ot										
	B	85.9	86.2	87	85.9						
	BV	103	103	102	94.8	81.2	71.5	64.4	58.3	43.6	39.5
380	Ot										
	B	75.6	76.1	77.1	77.2						
	BV	92.1	92.5	93.2	89.3	78.6	69	61.9	56	42.2	38
400	Ot										
	B	66.6	67	67.8	67.8						
	BV	82.5	83	83.6	83.2	76.4	66.8	59.8	53.8	41	36.8
420	Ot										
	B	58.2	58.5	59.6	59.8						
	BV	72.9	73.7	74.5	74.7	72.7	64.7	57.9	51.9	39.8	35.6
440	Ot										
	B	50.5	50.9	51.9	52						
	BV	63.3	64.3	65.5	65.9	66.6	62.5	56.1	50.2	38.9	34.6
460	Ot										
	B		43.5	44.6	44.8						
	BV		54.9	56.7	57.5	59.2	59.3	54.5	48.7	38.1	33.7
480	Ot										
	B				38						
	BV				48.7	51	51.5	50.7	46.9	37.5	33
500	Ot										
	B										
	BV						43.3	45.5	44.4	37	32.5
520	Ot										
	B										
	BV									36.2	32
540	Ot										
	B										
	BV										30.7

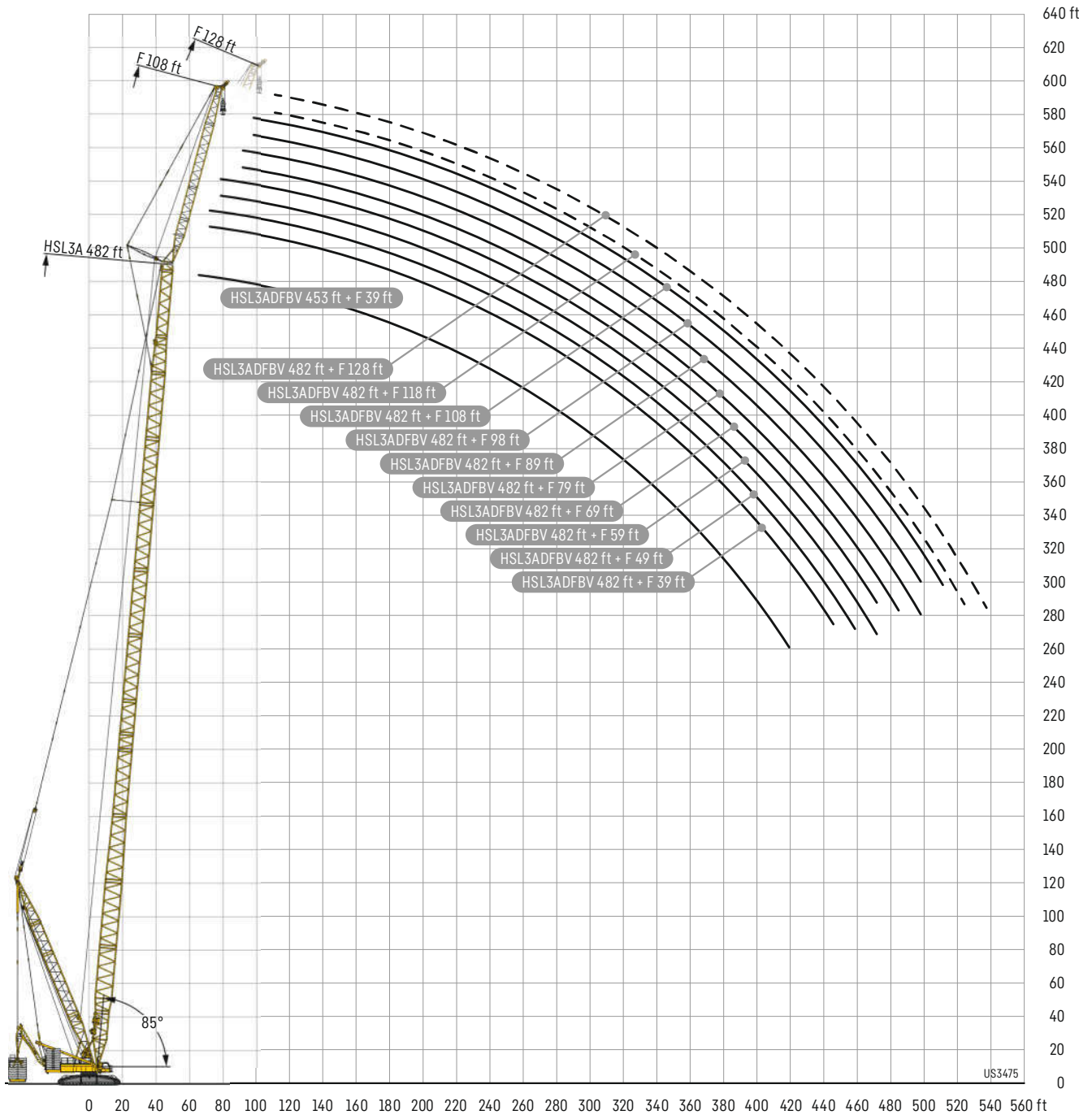


US3441

Lifting heights

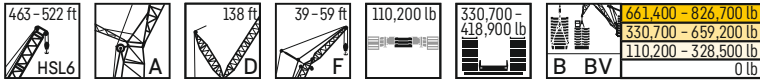
Hauteurs de levage

HSL3ADFB/BV

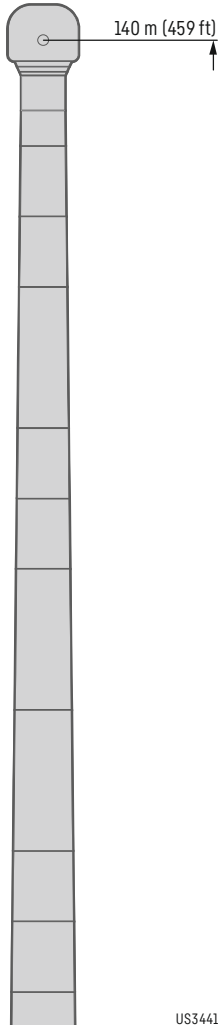


HSL6ADFB/BV

HSL6A 463 - 522



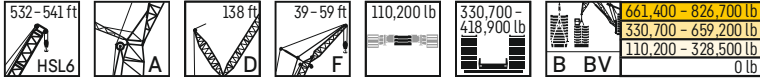
ft	HSL6A 463 ft			HSL6A 472 ft		
	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
65	179					
Ot	281					
B						
BV						
70	195	197		191	170	
Ot	281	254		271	246	
B	283					
BV						
80	164	165	169	160	161	165
Ot	280	254	233	269	245	225
B	283	256	234	272	247	227
BV						
90	137	138	143	134	135	139
Ot	278	253	232	267	244	225
B	282	256	234	272	247	226
BV						
100	115	116	121	112	113	118
Ot	276	251	231	263	241	223
B	281	255	233	270	246	226
BV						
110	96.8	97.9	102	93.8	94.8	99.4
Ot	272	248	229	259	237	220
B	280	254	232	267	244	225
BV						
120	80.7	82	86.2	77.9	79	83.6
Ot	268	245	226	254	233	217
B	278	252	230	264	240	223
BV						
130	66.8	68.1	72.3	64.1	65.4	69.7
Ot	263	241	221	249	228	213
B	275	249	222	260	237	219
BV						
140	54.7	55.9	60.2	52.1	53.3	57.6
Ot	258	236	214	244	224	209
B	271	246	215	256	233	212
BV						
150	44.1	45.2	49.5	41.4	42.7	47
Ot	252	231	207	239	218	204
B	268	239	207	252	229	205
BV						
160	34.5	35.6	40	32	33.2	37.5
Ot	244	225	199	233	214	197
B	263	230	200	247	224	198
BV						
170	26	27.1	31.4	23.6	24.7	29
Ot	235	218	192	226	209	190
B	259	223	193	243	218	191
BV						
180	18.3	19.4	23.6	17	17.3	21.3
Ot	225	211	185	218	204	183
B	254	215	186	238	213	185
BV						
190		12.4	16.6			
Ot	216	205	178	210	198	177
B	249	208	180	233	206	179
BV						
200						
Ot	205	198	173	201	192	172
B	241	202	174	228	200	173
BV						
220						
Ot	180	179	162	177	176	161
B	222	190	164	216	189	163
BV						
240						
Ot	157	158	153	155	155	152
B	197	180	155	194	179	154
BV						
260						
Ot	138	138	140	135	136	138
B	175	169	147	172	168	147
BV						
280						
Ot	121	121	124	118	119	122
B	155	156	140	153	153	140
BV						
300						
Ot	106	106	109	104	104	107
B	139	139	133	137	137	134
BV						
320						
Ot	92.5	93.1	96.2	90.4	90.8	93.8
B	124	124	124	122	122	124
BV						
340						
Ot	80.4	80.9	83.7	78.1	78.5	81.8
B	110	111	113	108	109	112
BV						
360						
Ot	69.3	70	73.1	67.4	67.9	70.9
B	98.4	98.9	102	96.5	97	99.8
BV						
380						
Ot	59.3	59.9	62.8	57.3	57.8	61.1
B	87.6	88	90.5	85.6	85.9	88.9
BV						
400						
Ot	49.8	50.6	53.7	48	48.8	51.8
B	77.4	78	80.8	75.7	76.4	79.1
BV						
420						
Ot	41.5	42.2	45	39.7	40.3	43.2
B	68.1	68.9	71.5	66.6	67.3	70
BV						
440						
Ot		34.6	37.2	32.3	32.8	35.5
B		60.4	63	58.2	58.8	61.5
BV						
460						
Ot						28.9
B						53.7
BV						



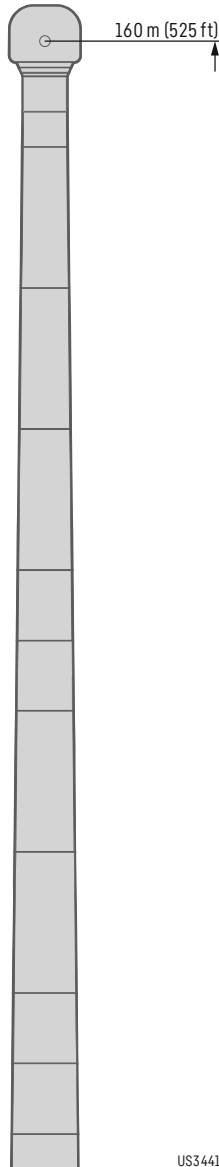
ft	HSL6A 502 ft			HSL6A 512 ft			HSL6A 522 ft		
	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
70	184								
Ot	233								
B									
BV									
80	154								
Ot	232								
B	235	217		224	209		213	199	
BV									
90	128								
Ot	231								
B	235	216	200	224	208	192	183	213	198
BV									
100	107								
Ot	229								
B	233	214	199	222	206	191	182	212	196
BV									
110	89.3								
Ot	225								
B	231	212	197	221	204	189	181	211	194
BV									
120	73.7								
Ot	222								
B	228	209	194	219	202	187	179	208	192
BV									
130	60.3								
Ot	218								
B	225	206	191	216	199	185	177	206	189
BV									
140	48.6								
Ot	214								
B	222	204	189	214	196	182	175	203	187
BV									
150	38.2								
Ot	210								
B	219	201	186	211	194	180	172	200	184
BV									
160	28.9								
Ot	206								
B	216	197	182	208	191	177	170	197	181
BV									
170	20.5								
Ot	201								
B	212	194	179	205	188	174	168	194	178
BV									
180	19.5								
Ot	209	190	175	202	185	171	164	190	175
B	209	190	175	202	185	171	164	190	175
BV									
190	18.8								
Ot	205	187	172	199	182	169	160	187	172
B	205	187	172	199	182	169	160	187	172
BV									
200	18.2								
Ot	201	183	168	196	179	165	156	183	169
B	201	183	168	196	179	165	156	183	169
BV									
220	16.7								
Ot	193	176	161	189	173	159	149	177	163
B	193	176	161	189	173	159	149	177	163
BV									
240	15.0								
Ot	184	169	154	182	167	153	142	170	156
B	184	169	154	182	167	153	142	170	156
BV									
260	13.1								
Ot	167	162	146	164	159	147	136	158	150
B	167	162	146	164	159	147	136	158	150
BV									
280	11.4								
Ot	149	150	140	147	147	140	130	143	142

HSL6ADFB/BV

HSL6A 532 – 541

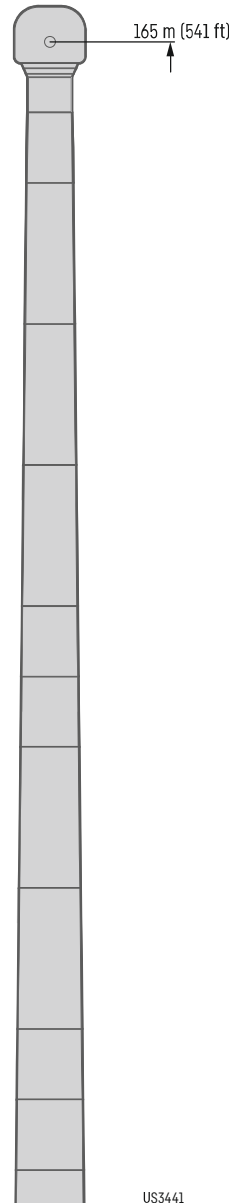


ft	HSL6A 532 ft		
	F39 ft	F49 ft	F59 ft
	10°		
80	205		
90	205	190	177
100	203	188	175
110	201	186	173
120	198	183	170
130	195	181	168
140	192	178	165
150	189	175	162
160	186	172	159
170	182	169	156
180	179	165	153
190	175	162	149
200	172	159	145
220	165	150	136
240	158	142	128
260	151	134	121
280	141	127	115
300	126	121	109
320	112	111	104
340	99	99.2	97.8
360	87.4	87.9	88.7
380	76.7	77.2	78.1
400	67.2	67.8	68.6
420	58.4	58.8	59.9
440	50.4	51	51.9
460	43	43.4	44.6
480	35.8	36.7	37.7
500		29.5	31.2



US3441

ft	HSL6A 541 ft		
	F39 ft	F49 ft	F59 ft
	10°		
80	196		
90	195	181	168
100	193	179	166
110	190	176	164
120	188	174	161
130	185	171	159
140	182	168	155
150	178	165	151
160	175	161	147
170	171	156	142
180	168	152	138
190	164	147	134
200	160	143	129
220	151	134	121
240	142	126	114
260	134	119	108
280	127	113	102
300	120	107	96.6
320	108	101	92
340	95.7	94.6	87.6
360	84.5	85.1	81.6
380	73.9	74.3	73.7
400	64.5	64.9	65.6
420	54.7	56.1	57.2
440	40.2	44.5	47.9
460	27.2	31.6	36.3
480	18.5	21.5	25.5
500	11.1	13.2	16.2

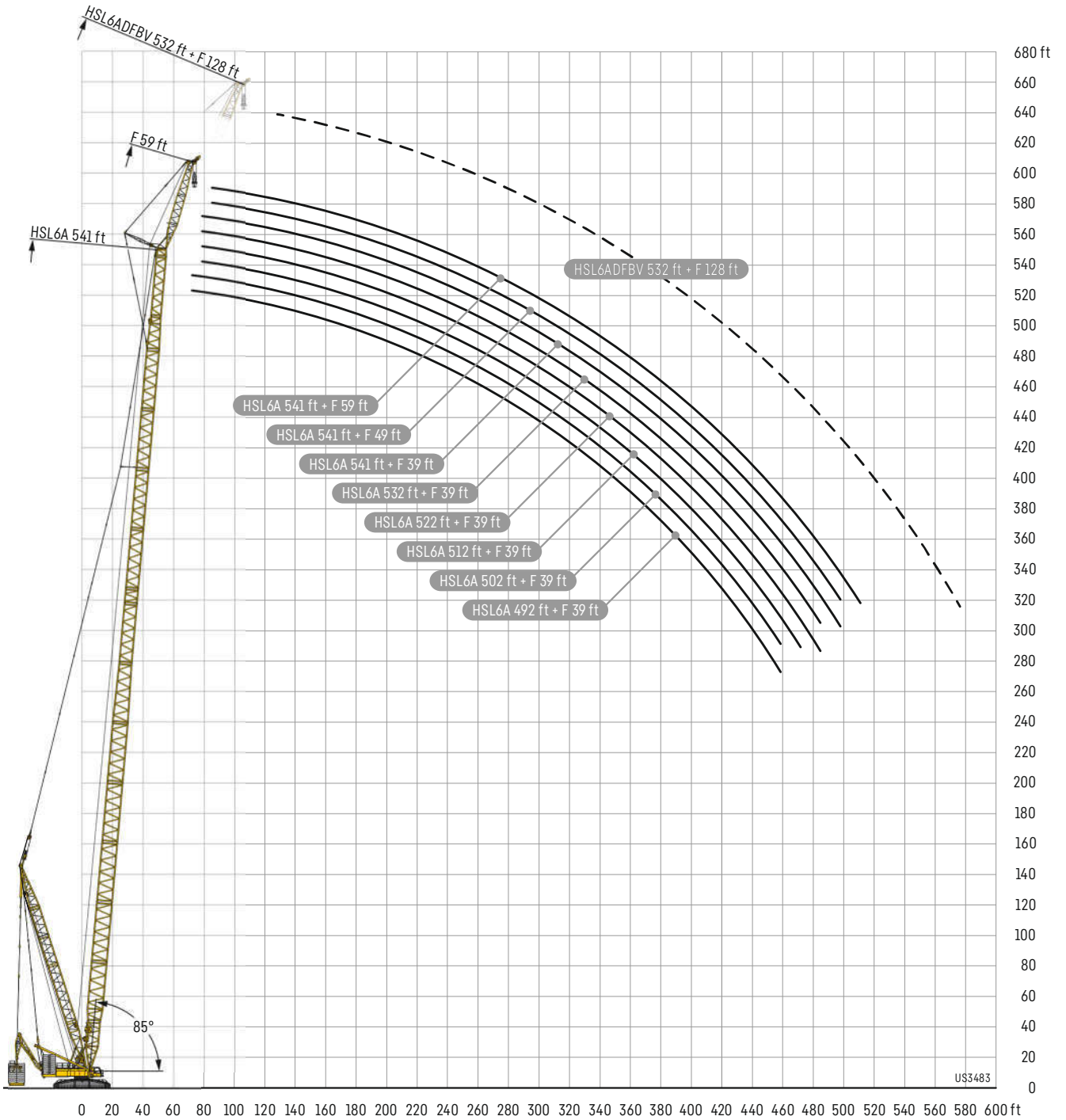


US3441

Lifting heights

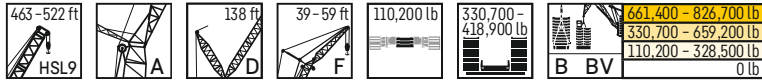
Hauteurs de levage

HSL6ADFB/BV

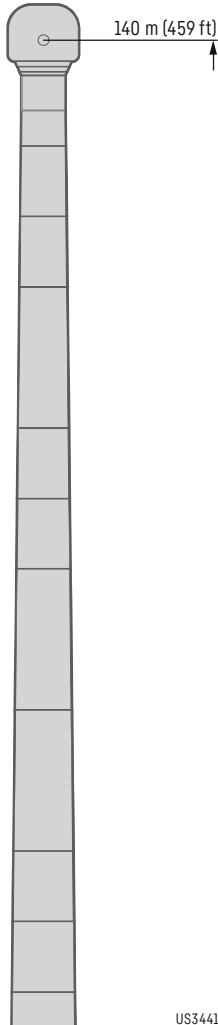


HSL9ADFB/BV

HSL9A 463 – 522



ft	HSL9A 463 ft			HSL9A 472 ft		
	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
65	173					
Ot	304					
B	307					
BV						
70	190	191		186	188	
Ot	304	275		294	267	
B	307	277		297	269	
BV						
80	158	159	160	154	156	157
Ot	303	274	251	294	266	244
B	307	277	253	297	269	246
BV						
90	132	133	134	128	130	131
Ot	302	273	249	293	266	243
B	306	277	251	297	269	246
BV						
100	109	111	112	107	108	110
Ot	301	272	241	291	264	241
B	306	276	242	297	268	242
BV						
110	90.8	92.1	93.6	88.2	89.4	91.1
Ot	297	269	232	288	261	233
B	305	275	233	295	268	233
BV						
120	74.7	76.2	77.5	72.3	73.6	75.2
Ot	292	264	224	284	259	224
B	303	268	224	293	265	225
BV						
130	60.7	62.3	63.6	58.4	59.9	61.4
Ot	285	257	215	280	255	216
B	301	258	216	291	260	217
BV						
140	48.6	50	51.5	46.3	47.8	49.2
Ot	279	247	208	270	249	209
B	295	249	208	284	251	210
BV						
150	37.9	39.2	40.8	35.6	37.1	38.5
Ot	269	238	200	260	241	202
B	284	240	200	273	243	203
BV						
160	28.3	29.6	31.2	26.2	27.5	29
Ot	257	229	193	248	232	195
B	273	231	193	263	235	196
BV						
170	19.8	21	22.6	17.7	18.9	20.5
Ot	245	221	186	238	224	188
B	264	223	187	253	227	190
BV						
180			14.9			
Ot	230	213	180	225	216	181
B	254	216	180	245	220	183
BV						
190	215	206	174	211	206	175
Ot	245	209	175	236	213	177
B						
BV						
200	201	197	168	197	195	170
Ot	236	203	169	228	206	172
B						
BV						
220	174	175	158	171	172	160
Ot	216	191	159	210	194	162
B						
BV						
240	152	152	148	149	150	149
Ot	191	181	151	188	182	153
B						
BV						
260	132	132	133	129	130	131
Ot	169	168	143	166	166	145
B						
BV						
280	114	115	116	112	112	113
Ot	149	150	136	147	147	138
B						
BV						
300	99.6	100	101	97	97.5	98.3
Ot	133	134	130	130	131	129
B						
BV						
320	86.1	87	87.9	83.8	84.4	85.3
Ot	118	119	119	116	116	117
B						
BV						
340	74	74.7	75.6	71.6	72	73.4
Ot	105	105	106	102	103	104
B						
BV						
360	62.9	63.8	65	60.9	61.6	62.6
Ot	92.5	93.4	94.4	90.6	91.2	92.1
B						
BV						
380	52.9	53.7	54.8	50.9	51.5	52.9
Ot	81.7	82.4	83.2	79.8	80.2	81.4
B						
BV						
400	43.4	44.3	45.7	41.6	42.5	43.8
Ot	71.5	72.4	73.6	69.9	70.6	71.7
B						
BV						
420	35.2	36	37.2	33.5	34.2	35.4
Ot	62.4	63.2	64.4	60.8	61.5	62.7
B						
BV						
440		28.8	29.8	26.6	27.2	28.5
Ot		54.8	56	52.4	53	54.3
B						
BV						
460						22.6
Ot						46.7
B						
BV						



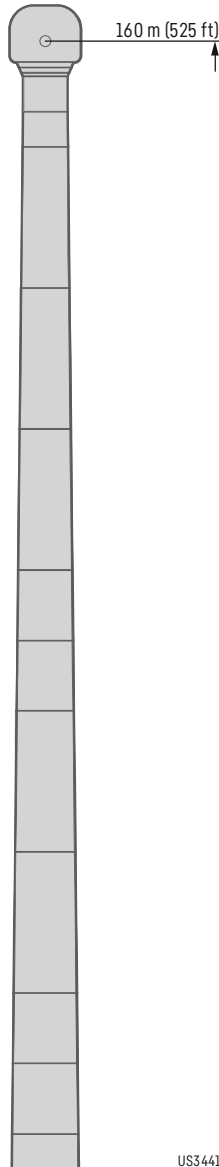
ft	HSL9A 502 ft			HSL9A 512 ft			HSL9A 522 ft		
	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
70									
Ot									
B									
BV	266			253			241		
80									
Ot									
B									
BV	266	244	224	254	235	217	241	227	209
90									
Ot									
B									
BV	267	243	224	254	235	216	242	227	209
100									
Ot									
B									
BV	266	243	223	253	235	216	240	225	208
110									
Ot									
B									
BV	264	241	222	252	233	215	239	223	207
120									
Ot									
B									
BV	261	238	221	249	230	213	237	220	204
130									
Ot									
B									
BV	257	235	219	246	227	210	235	217	201
140									
Ot									
B									
BV	254	232	215	243	224	207	232	214	199
150									
Ot									
B									
BV	250	228	210	239	221	204	229	211	195
160									
Ot									
B									
BV	242	225	202	235	217	200	225	208	192
170									
Ot									
B									
BV	233	220	196	226	213	195	219	204	189
180									
Ot									
B									
BV	225	216	190	218	209	189	211	201	185
190									
Ot									
B									
BV	217	211	183	211	205	183	204	197	181
200									
Ot									
B									
BV	210	204	178	204	200	178	197	193	177
220									
Ot									
B									
BV	195	191	168	190	189	168	184	183	167
240									
Ot									
B									
BV	179	178	159	176	176	159	170	171	159
260									
Ot									
B									
BV	158	158	151	155	159	150	152	155	150
280									
Ot									
B									
BV	139	140	141	137	140	139	133	137	136
300									
Ot									
B									
BV	122	123	126	120	123	124	117	120	121

HSL9ADFB/BV

HSL9A 532 – 541

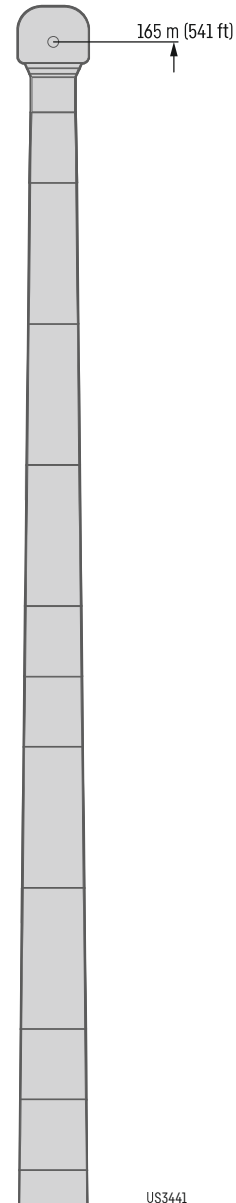
532-541 ft	HSL9	A	D	39-59 ft	110,200 lb	330,700-418,900 lb	B	BV	661,400 - 826,700 lb 330,700 - 659,200 lb 110,200 - 328,500 lb 0 lb
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		HSL9A 532 ft		
		F39 ft	F49 ft	F59 ft
		10°		
75	Ot B BV	231	218	
80	Ot B BV	231	218	201
90	Ot B BV	231	217	201
100	Ot B BV	230	215	200
110	Ot B BV	229	212	197
120	Ot B BV	227	210	195
130	Ot B BV	225	207	192
140	Ot B BV	222	204	190
150	Ot B BV	219	201	187
160	Ot B BV	216	198	183
170	Ot B BV	213	195	180
180	Ot B BV	208	192	177
190	Ot B BV	203	188	173
200	Ot B BV	197	185	170
220	Ot B BV	184	177	163
240	Ot B BV	171	168	155
260	Ot B BV	154	154	148
280	Ot B BV	136	136	135
300	Ot B BV	119	120	121
320	Ot B BV	105	106	107
340	Ot B BV	92.6	93	94.1
360	Ot B BV	81	81.7	82.8
380	Ot B BV	70.4	70.9	72
400	Ot B BV	61	61.6	62.7
420	Ot B BV	52.3	52.7	54.1
440	Ot B BV	44.5	45.1	46.2
460	Ot B BV	37.1	37.7	38.9
480	Ot B BV	30.3	31.1	32.3
500	Ot B BV		25.2	26.3



US3441

		HSL9A 541 ft		
		F39 ft	F49 ft	F59 ft
		10°		
75	Ot B BV	220		
80	Ot B BV	220	207	194
90	Ot B BV	219	207	193
100	Ot B BV	218	205	191
110	Ot B BV	217	203	189
120	Ot B BV	215	201	187
130	Ot B BV	214	198	184
140	Ot B BV	213	196	182
150	Ot B BV	210	193	179
160	Ot B BV	207	190	176
170	Ot B BV	204	187	173
180	Ot B BV	200	184	170
190	Ot B BV	195	181	167
200	Ot B BV	190	177	164
220	Ot B BV	178	171	157
240	Ot B BV	165	162	150
260	Ot B BV	150	150	142
280	Ot B BV	132	133	131
300	Ot B BV	116	117	118
320	Ot B BV	102	103	103
340	Ot B BV	89.2	89.9	90.9
360	Ot B BV	77.9	78.6	79.6
380	Ot B BV	67.2	67.8	69.2
400	Ot B BV	58	58.5	59.6
420	Ot B BV	49.1	49.8	51.1
440	Ot B BV	41.6	42.1	43.1
460	Ot B BV	34.4	34.9	36
480	Ot B BV	27.9	28.4	29.4
500	Ot B BV	21.9	22.3	23.3
520	Ot B BV			17.8

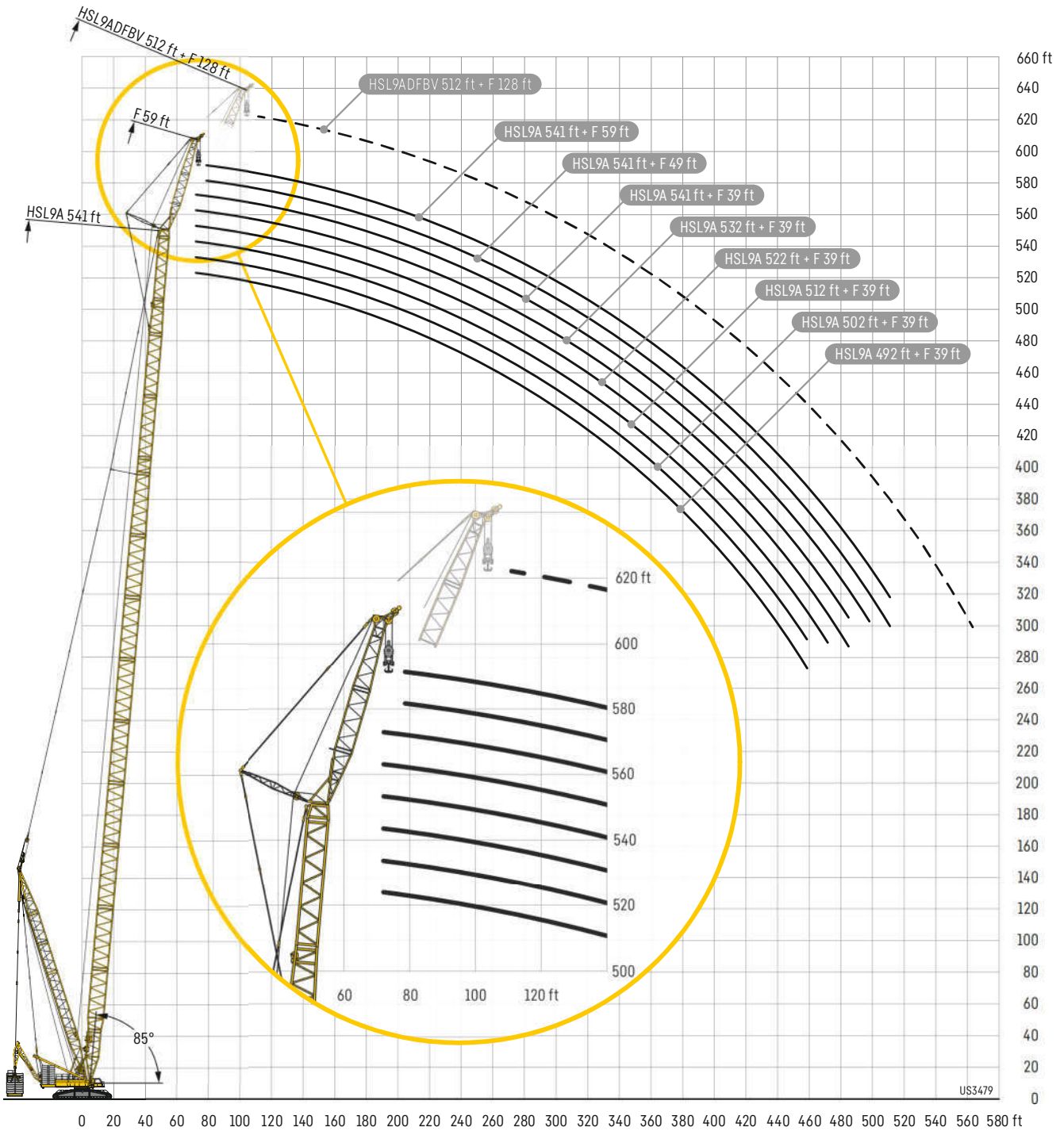


US3441

Lifting heights






























Hauteurs de levage

HSL9ADFB/BV



Description of symbols

Explication des symboles

	Max. capacity Capacité max.		Weight Poids
	Max. boom length Longueur maxi. de la fleche principale		No. of lines Brins
	Max. boom system length Longueur maxi. du systeme de fleche		No. of sheaves Poulies
	Counterweight Contrepoids		Radius Portée
	Central ballast Contrepoids central		Main boom, heavy Flèche principale, lourde
	Width crawler chassis Largeur du train de chenilles		Main boom, heavy/light Flèche principale, lourde/légère
	Hoist gear Treuil de levage		Main boom S2 Flèche principale S2
	Working speeds Vitesses		Derrick system D Système derrick D
	Max. single line pull Effort au brin maxi.		Luffin fly jib, heavy Fléchette, lourde
	Rope diameter Diamètre		Fixed lattice jib F Fléchette à treillis fixe F
	Rope length Longueur du câble		Adapter A Pièce d'adaptateur A
	Slewing speeds Vitesses d'orientation		Counterweight frame B Palette de lest B
	Driving speed Vitesse de translation		Suspended ballast V-frame® V-frame® de contrepoids suspendu
	Load Forces de levage		Counterweight trailer M-Wagon Remorque à contrepoids M-Wagon
	Hookblock/Capacity 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. 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. 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

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