

Blending worlds, merging types

LR 1700-1.0

Crawler crane
Grue sur chenilles

LIEBHERR

Mobile and crawler cranes

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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®

HVO ready



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-R.96.
Winch I	Standard hoist winch, hydraulically driven with variable axial piston motor with integrated planetary gear.
Winch IV	Boom hoist.
Reeving winch	Auxiliary winch to reeve the hoist ropes.
Slewing gear	2 slewing gears with integrated planetary gear hydraulically driven by axial piston variable motor.
Crane cabin	Air conditioned crane cabin tiltable to the rear with safety glazing, heat insulating glass, roof window with bullet proof glass, standardized control units ergonomically positioned. Additional thermostatically controlled hot water heating.
Crane control	Setting of configuration data by convenient interactive functions. All crane movements are initiated by means of three 4-way joystick hand levers and two 2-way hand/foot levers. All working movements are independently controllable.
Safety devices	Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light.
Camera observation	2 color monitors, cameras for all winches, slewing platform, right-hand side and rear.
Counterweight	2 brackets 33 kip each. Total counterweight at superstructure 507 kip. 20 ballast plates 22 kip each.

Boom system

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

Additional equipment

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

Other items of equipment available on request.

Equipement

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 equipement additionnel

Train de chenilles

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

Partie tournante

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

Système de flèche

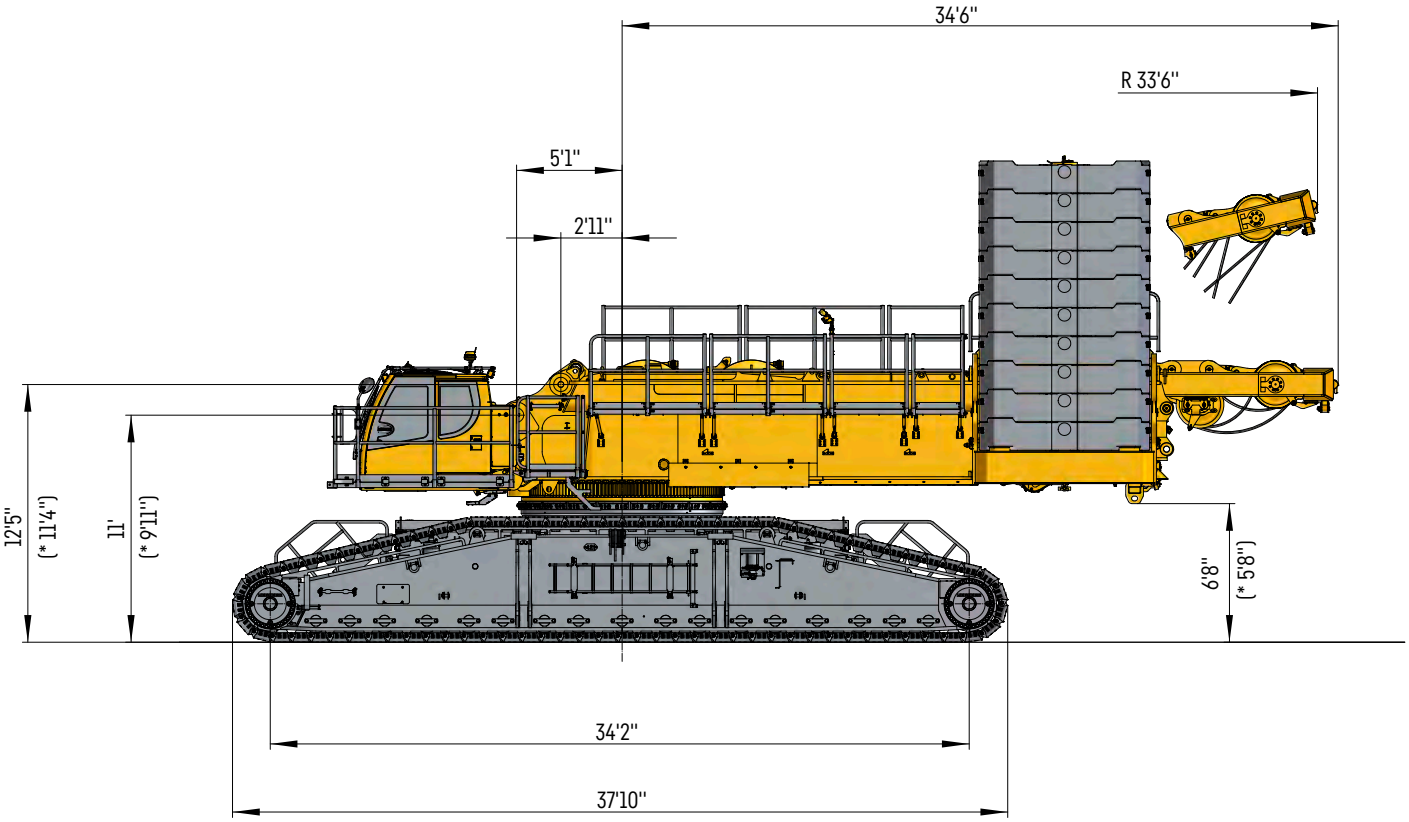
Flèche principale HS	Système 3230/2825 avec élément de tête pour une capacité max. de 1323 kip. Longueur de la flèche HS 98 ft – 315 ft. Longueur de la flèche HSDB 138 ft – 354 ft avec système derrick.
Flèche principale (H)SL	Système 3230/2825/2420 avec élément de tête pour une capacité max. de 1323 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.
Flechette 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.

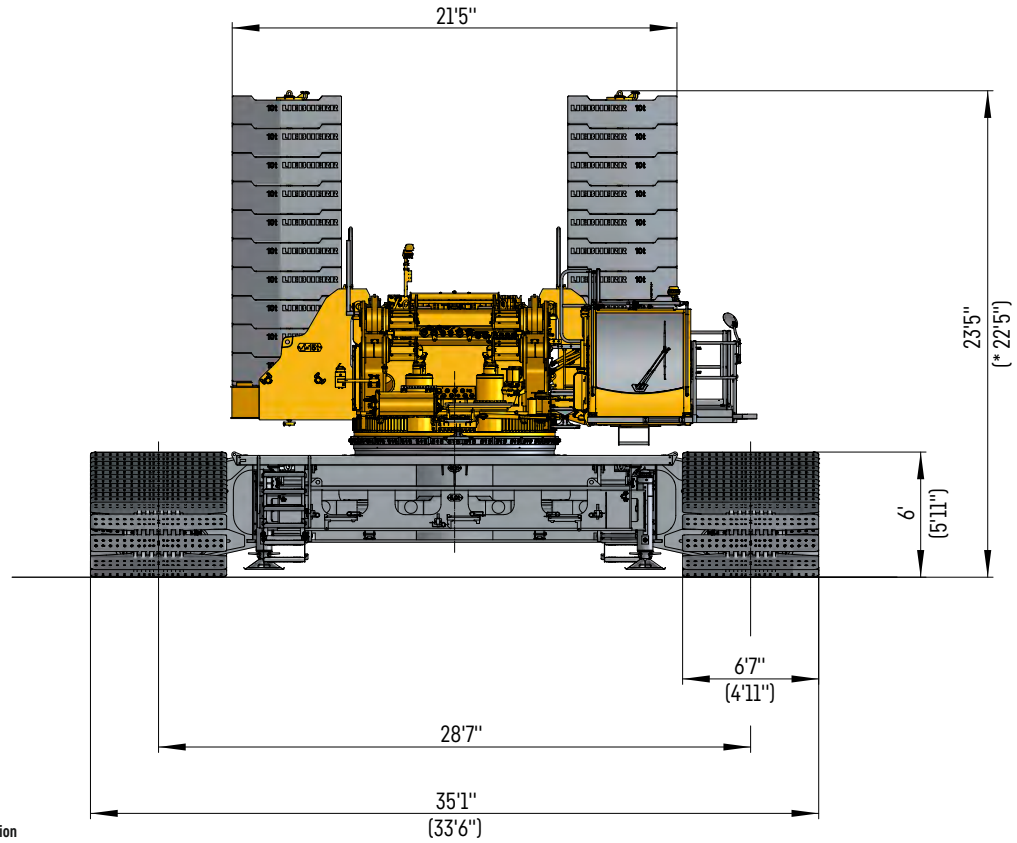
Equipement additionnel

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

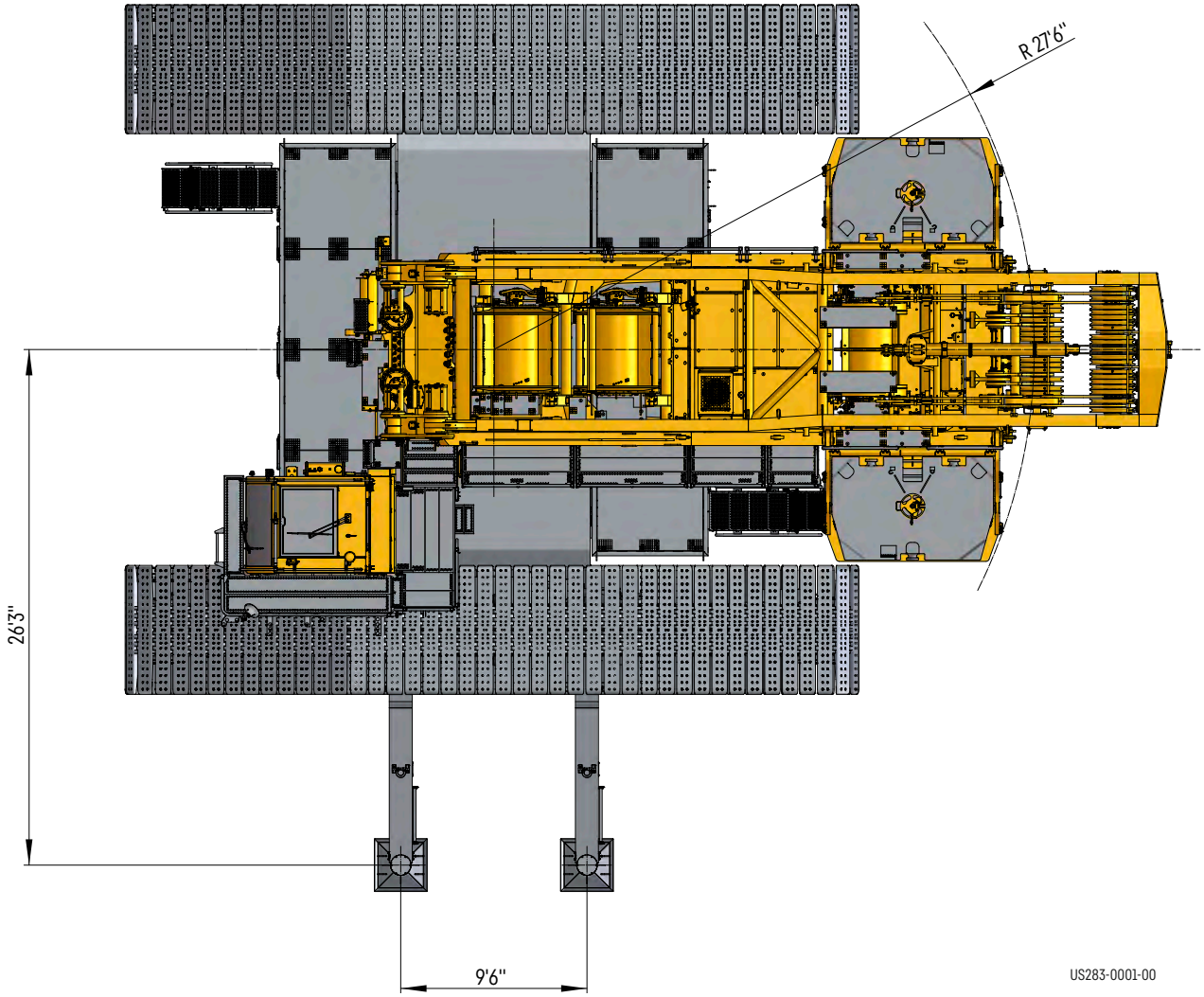




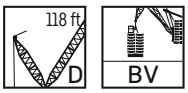
***without** · sans **Quick Connection**

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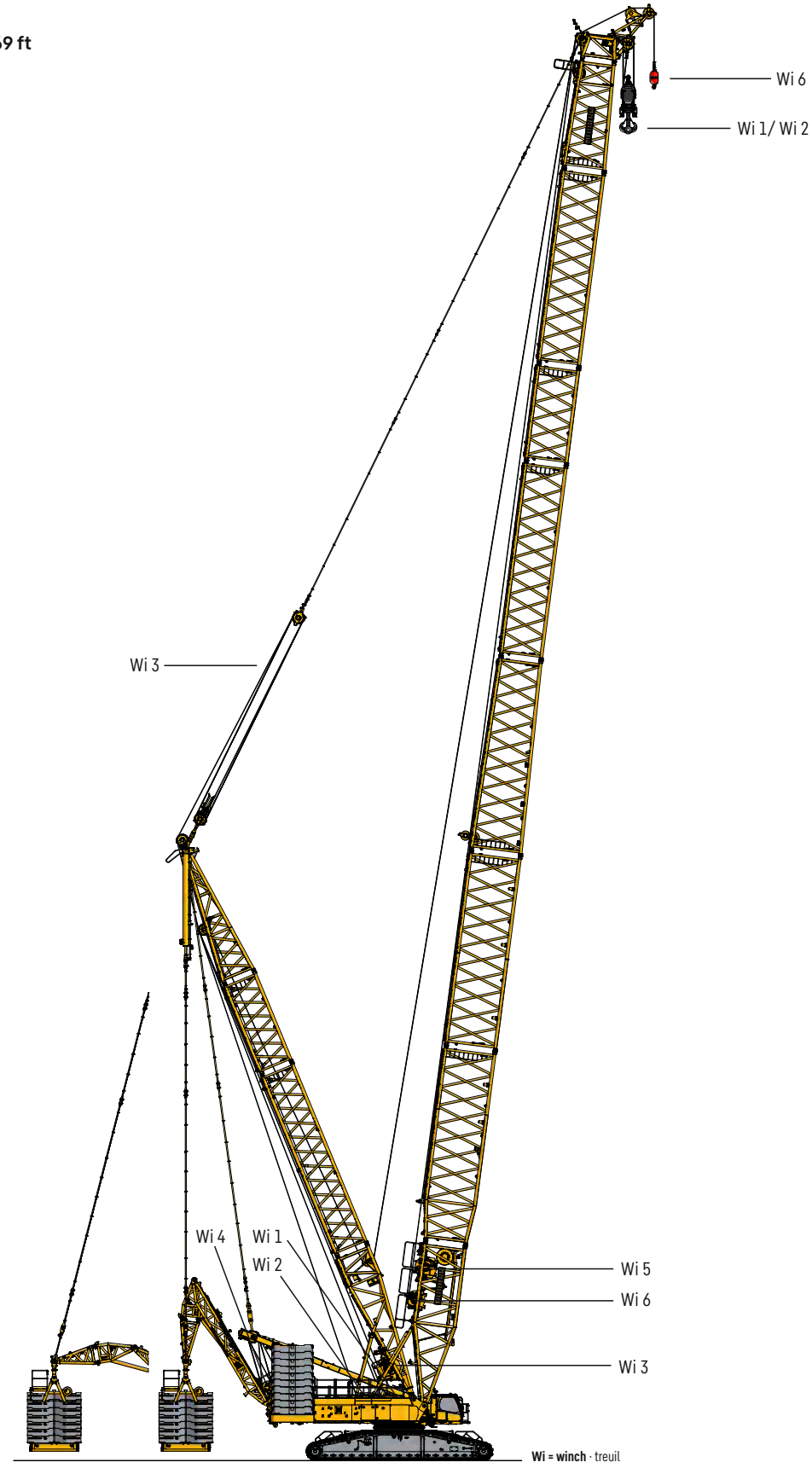
Dimensions
Encombrement



HSDBV



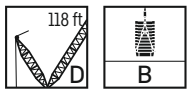
42 ft 8 in – 69 ft



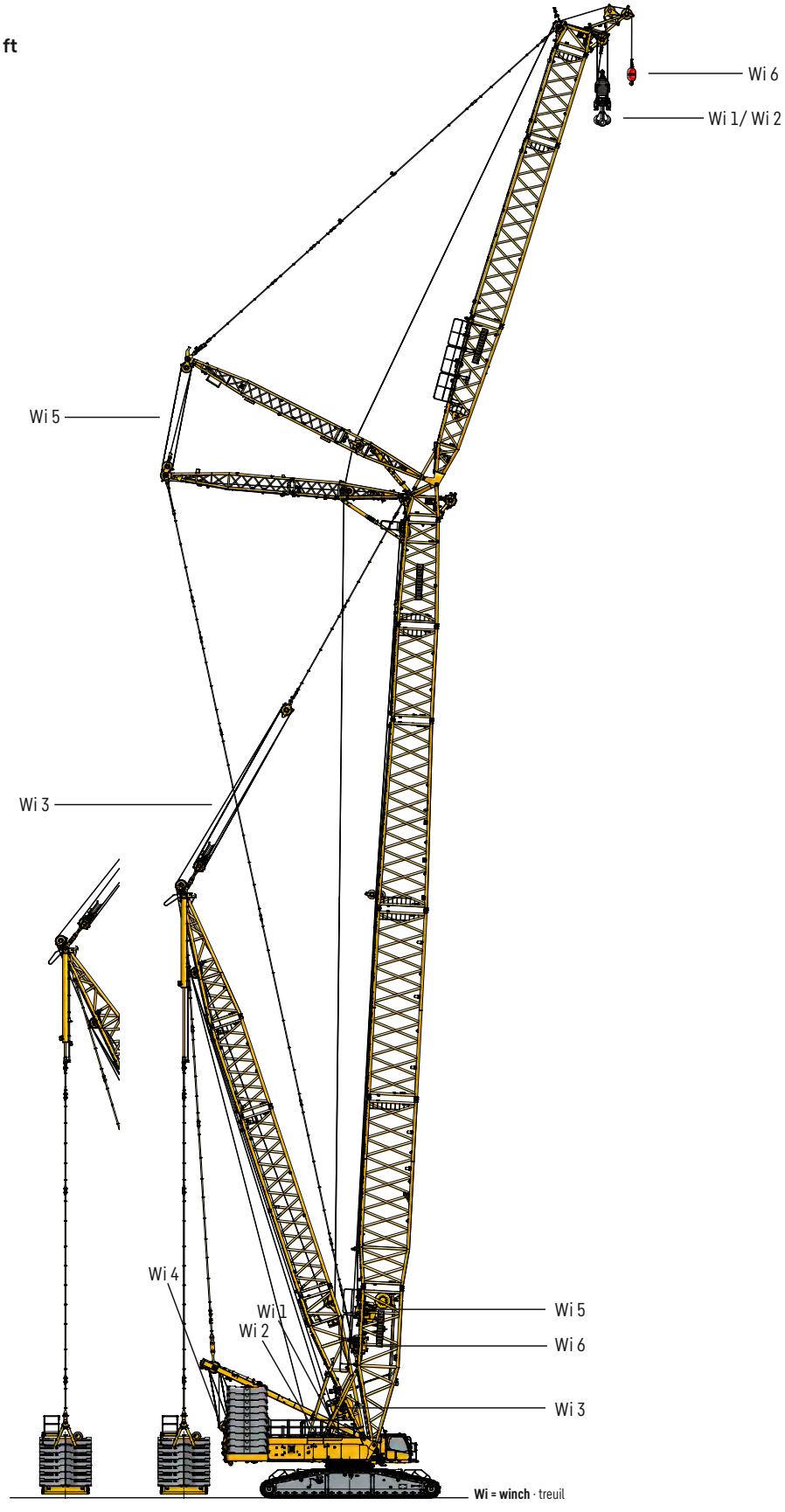
Wi = winch · treuil

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HSDWB



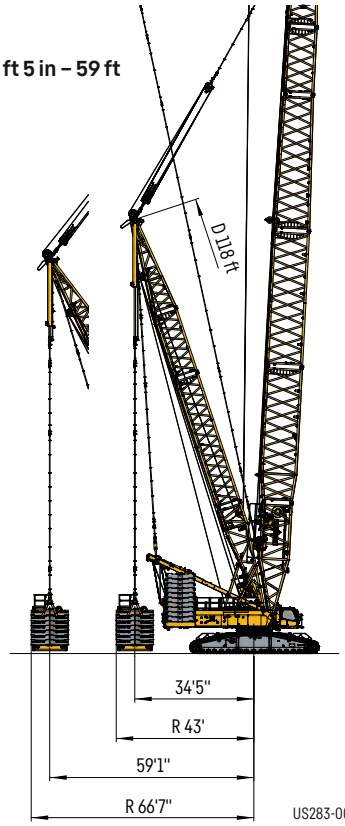
34 ft 5 in – 59 ft



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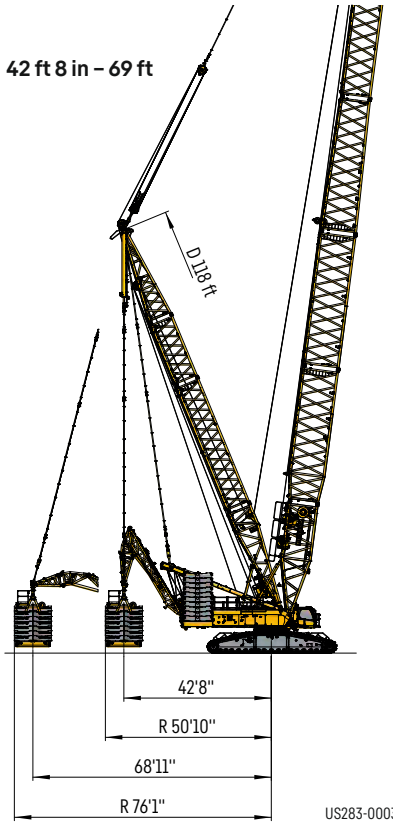
Dimensions
Encombrement

118 ft D | B **34 ft 5 in – 59 ft**



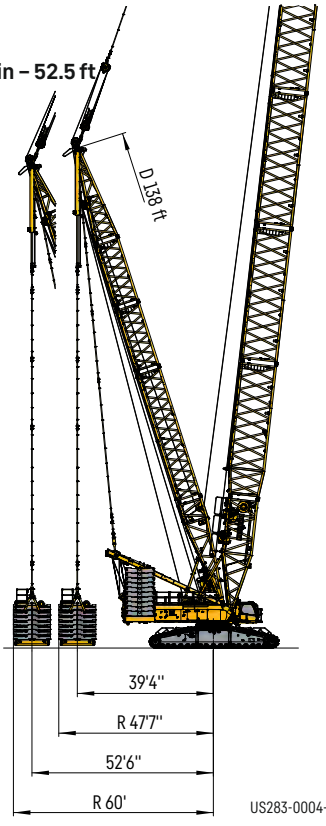
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118 ft D | BV **42 ft 8 in – 69 ft**



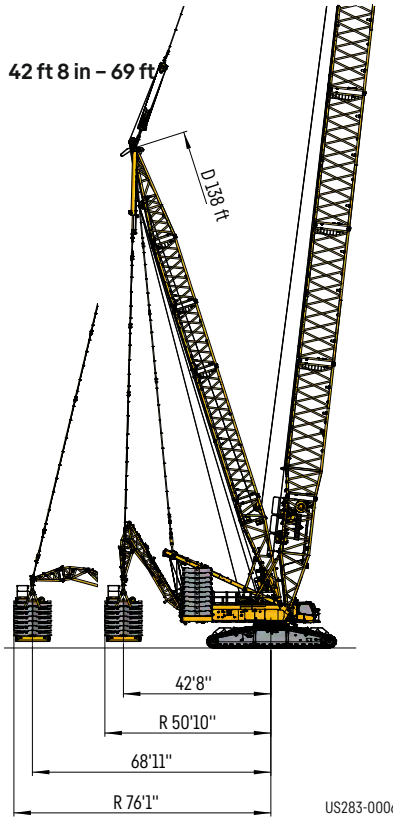
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138 ft D | B **39 ft 4 in – 52.5 ft**



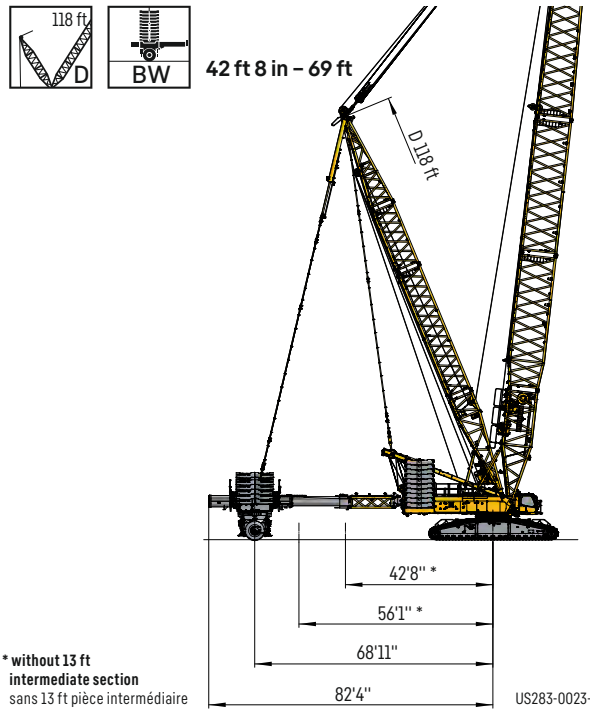
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138 ft D | BV **42 ft 8 in – 69 ft**



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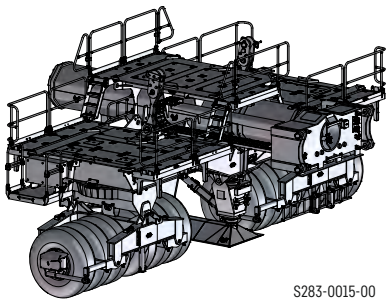
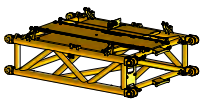
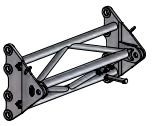
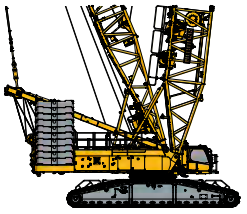
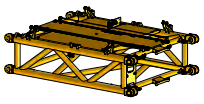
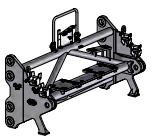
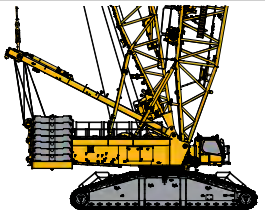
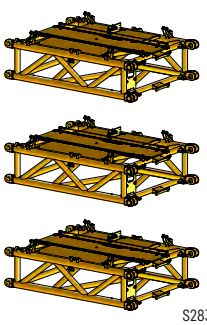
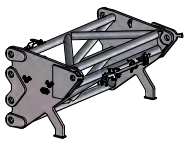
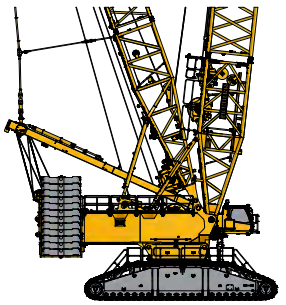
M-Wagon® for 3 crane models
M-Wagon® pour 3 types de grues



*** without 13 ft intermediate section**
sans 13 ft pièce intermédiaire

US283-0023-00



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

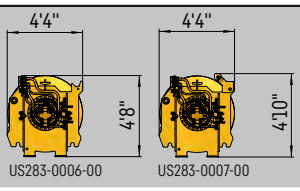
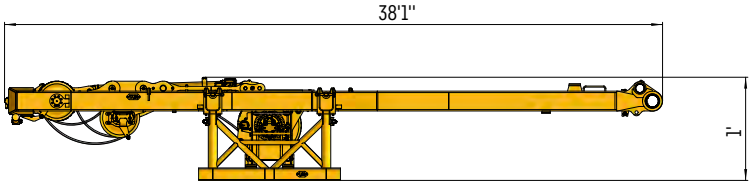
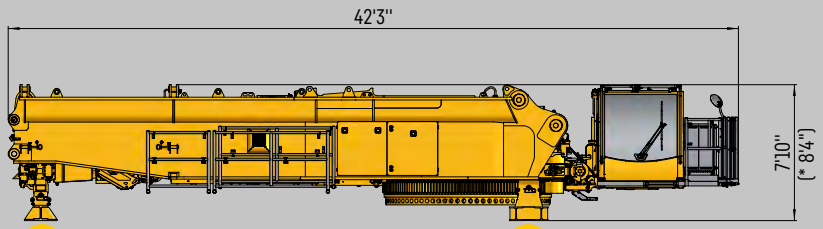
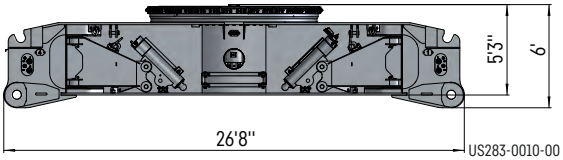
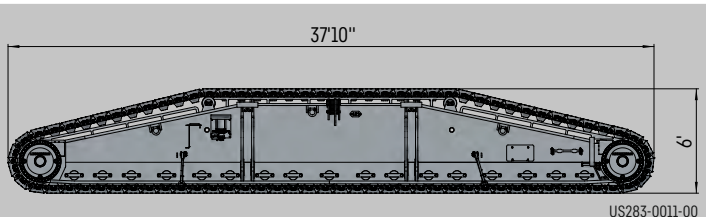
Working speeds · Vitesses

360°	**Slewing speeds** · Vitesses d'orientation	0 – 0,76 rpm
mph	**Travel speeds** · Vitesses de translation	0 – 0.75 mph

Hook blocks · Moufles à crochet

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

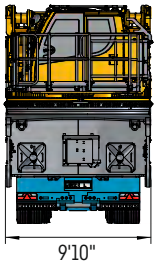
Transportation plan
Plan de transport

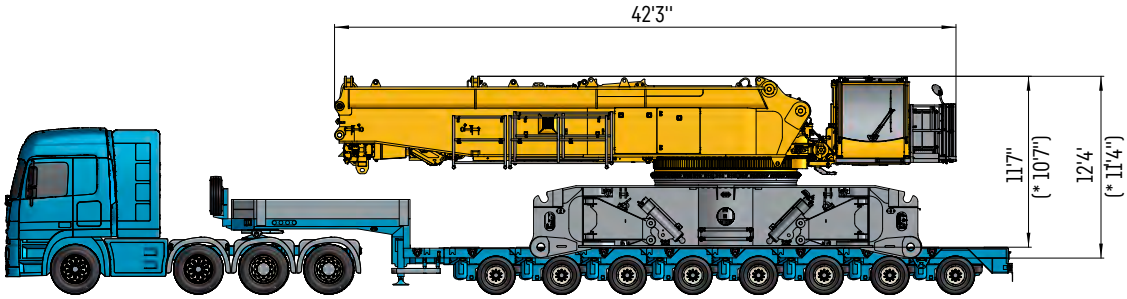
Part · Partie	
Winches 1 and 2 Treuils 1 et 2 	**18,5 kip +** **18,5 kip**
SA-Frame incl. winch IV · Chevalet SA incl. treuil 4  1	**38,6 kip** **+ 3,5 kip** **Transport bracket** Support de transport 1
Superstructure without SA-frame and winches · Partie tournante sans chevalet SA et treuils  2 *** with SA-frame** · avec chevalet SA 2	**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**

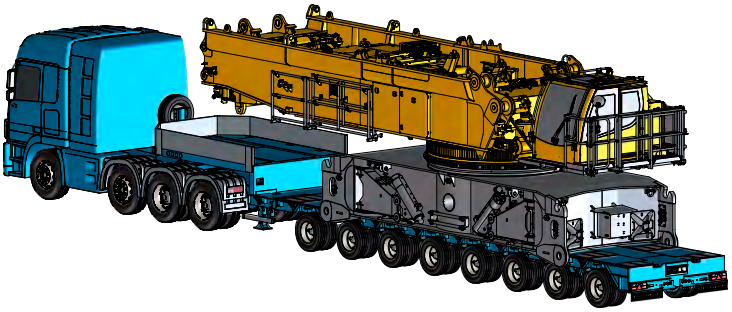
+Transport bracket
+Support de transport

Transportation plan
Plan de transport



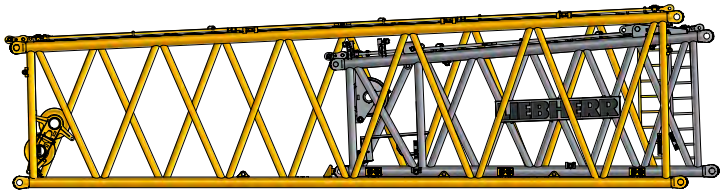
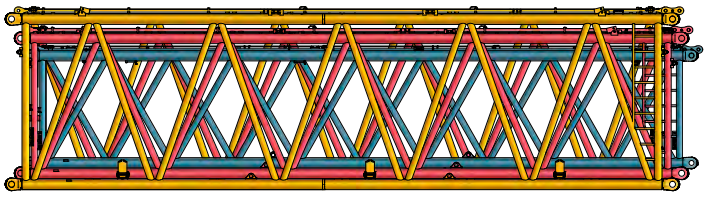
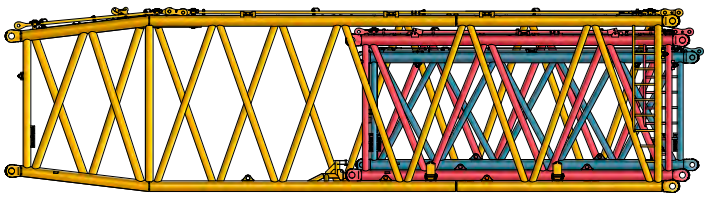


***without** • sans
Quick Connection 142,2 kip



US283-0013-00

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

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

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

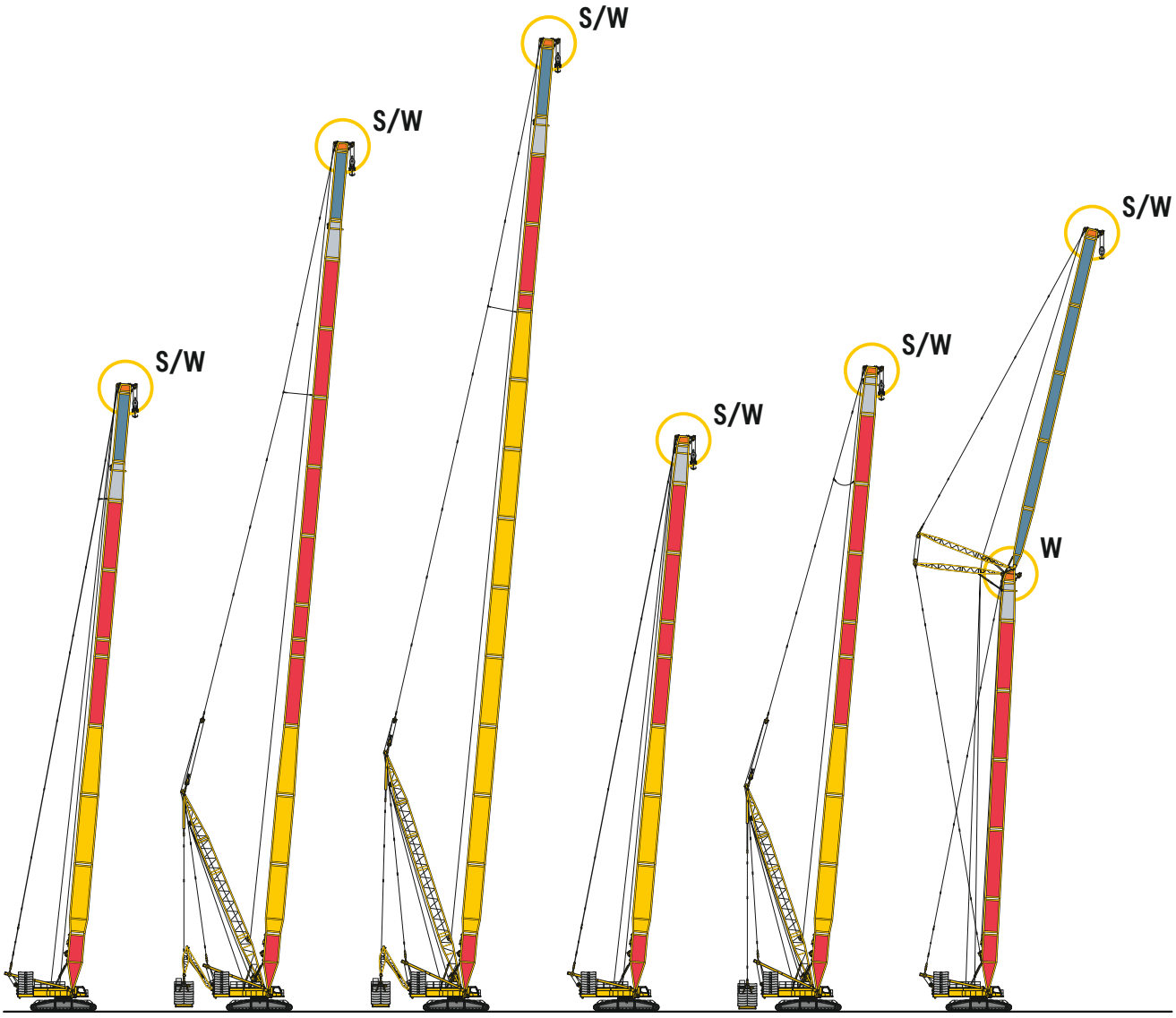
Overview windsystems
Vue d’ensemble des systèmes de treuils

Easy to identify · Identification facile



Boom/jib combinations
Configurations de flèche

HS	**Main boom, heavy** · Flèche principale, lourde
HSL	**Main boom, heavy/light** · Flèche principale, loudre/légère
D	**Derrick** · Flèche derrick
W	**Luffin fly jib, heavy** · Flèchette, 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** · Flechette a treillis fixe F



HSL3 256 ft – 345 ft

HSL3DB 256 ft – 482 ft

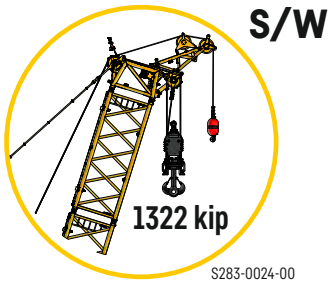
HSL9DB 374 ft – 541 ft

HS 98 ft – 315 ft

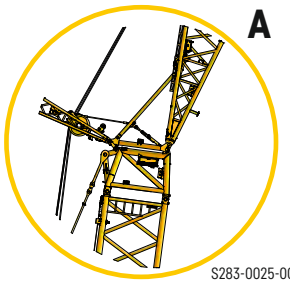
HSDB 138 ft – 354 ft

S2 118 ft – 236 ft
W 79 ft – 315 ft

Boom/jib combinations
Configurations de flèche



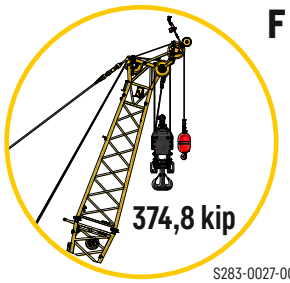
S283-0024-00



S283-0025-00



S283-0026-00



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

HSL3

HSL3 256 – 345

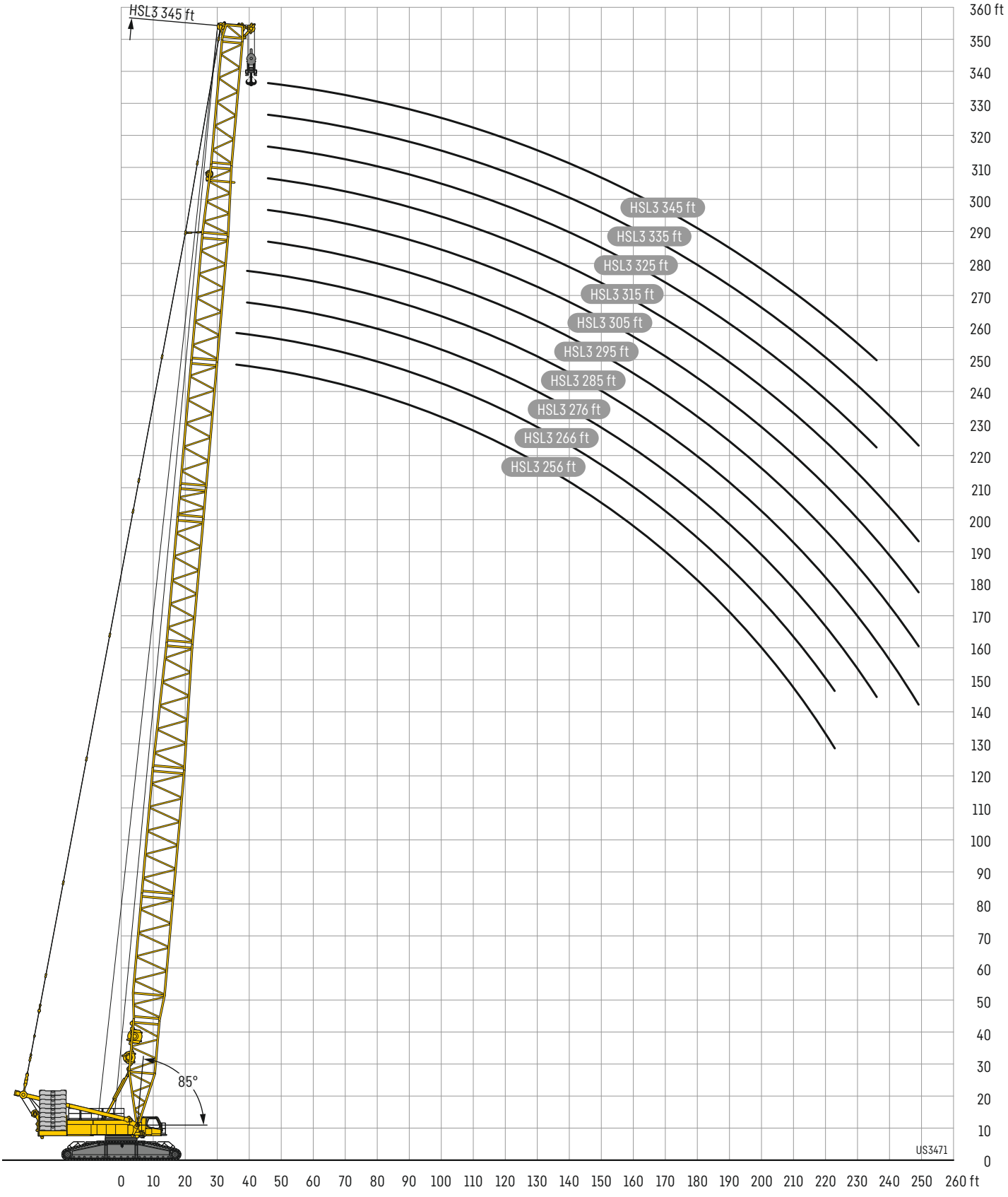






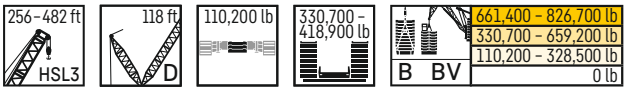
ft	HSL3 256 – 345 ft										ft
	256 ft	266 ft	276 ft	285 ft	295 ft	305 ft	315 ft	325 ft	335 ft	345 ft	
36	614	424									36
38	585	570	552								38
40	556	544	529	514	496						40
45	488	478	469	459	449	435	427	418	403	382	45
50	436	429	420	410	401	389	385	379	369	356	50
55	391	384	377	371	364	353	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



HSL3DB/BV

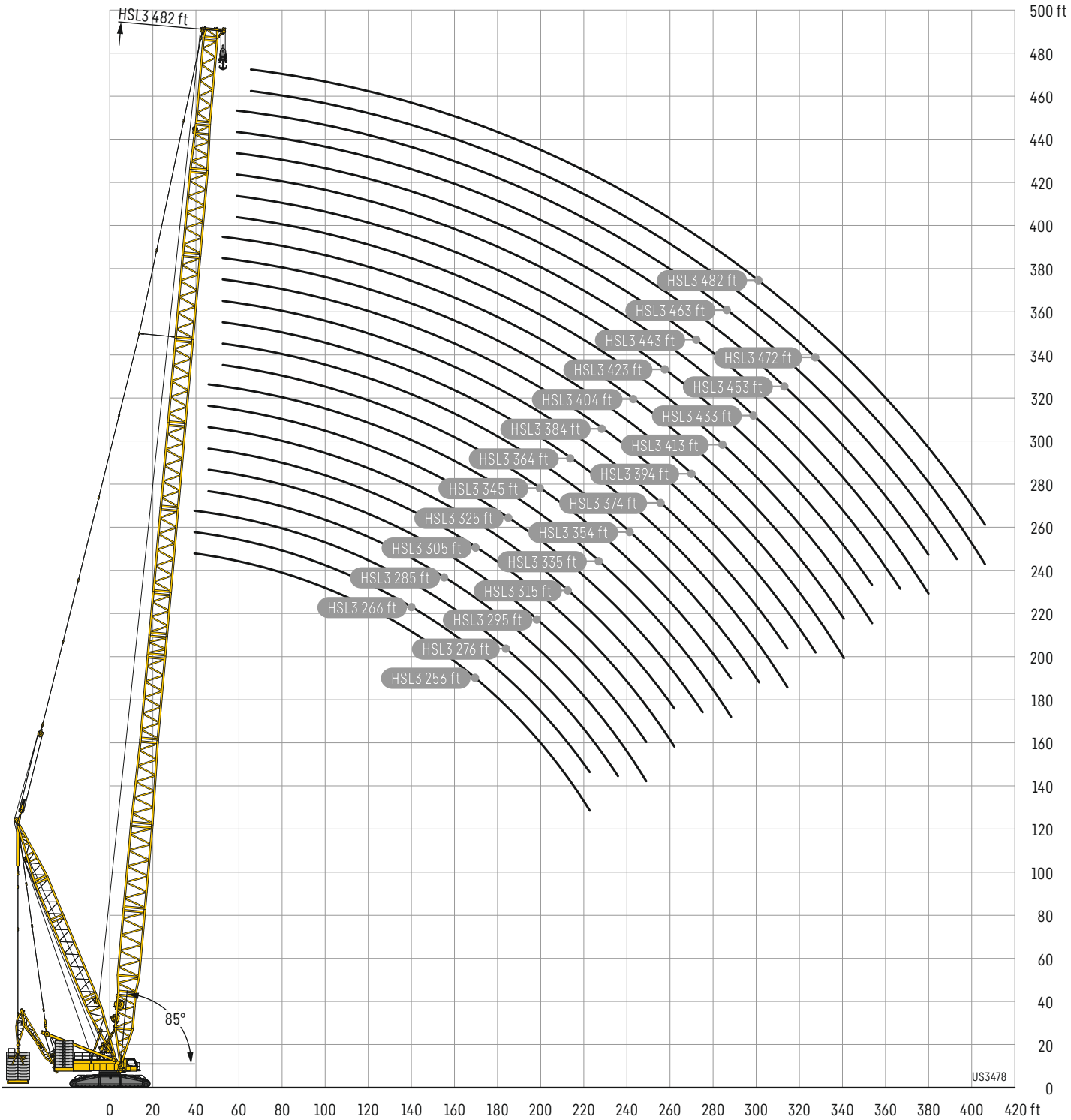
HSL3 256 – 482



		HSL3 256 – 482 ft																							
ft		256 ft	266 ft	276 ft	285 ft	295 ft	305 ft	315 ft	325 ft	335 ft	345 ft	354 ft	364 ft	374 ft	384 ft	394 ft	404 ft	413 ft	423 ft	433 ft	443 ft	453 ft	463 ft	472 ft	482 ft
38	Ot	566	482																						
	B	818	794																						
	BV																								
40	Ot	537	527	515	436																				
	B	820	796	770	744																				
	BV	824																							
50	Ot	419	412	404	395	391	383	375	369	365	359	352	345	341											
	B	828	803	777	750	725	697	671	645	613	587	559	529	501											
	BV	838	811	785	758	731	704	677	649	617	591	565	533	504											
60	Ot	339	333	327	320	317	310	304	300	296	292	286	280	278	272	269	262	260	257	252	246	242	239	233	
	B	834	809	782	755	729	701	673	645	613	585	554	524	497	468	441	414	384	365	346	329	311	296	283	
	BV	849	823	797	769	741	713	684	656	623	596	564	533	505	475	447	417	383	359	337	325	303	293	283	
70	Ot	280	275	271	264	263	257	252	248	245	242	237	232	230	225	223	217	215	212	208	203	200	197	193	
	B	837	812	784	756	729	700	674	646	612	579	548	519	492	462	434	411	380	364	346	328	311	295	282	
	BV	858	832	803	776	748	719	691	663	627	593	561	530	501	469	437	407	373	354	334	323	301	291	282	263
80	Ot	235	231	227	222	221	215	211	208	205	203	199	193	193	188	186	181	180	178	174	169	166	164	160	
	B	763	756	750	739	722	699	672	642	606	573	542	513	485	453	423	408	375	361	343	325	307	292	278	
	BV	804	776	753	726	704	682	660	641	621	588	554	520	489	456	426	397	361	351	332	322	298	289	279	259
90	Ot	200	197	193	188	187	182	179	176	174	171	167	163	163	158	157	152	151	149	146	141	138	137	133	
	B	678	674	670	664	659	651	637	621	594	563	534	503	474	441	410	403	368	354	338	321	303	288	275	
	BV	732	709	690	667	646	626	606	588	571	555	528	495	467	436	408	392	354	346	329	318	294	285	276	256
100	Ot	172	169	165	161	160	156	152	149	148	146	142	138	138	134	133	128	128	126	122	118	116	114	111	
	B	609	605	602	596	594	589	584	577	563	541	518	489	461	427	397	397	361	349	334	317	299	285	271	
	BV	668	654	636	615	598	581	562	545	530	515	498	471	443	414	389	388	349	342	326	316	291	282	274	253
110	Ot	149	146	143	138	138	133	130	128	127	125	121	117	117	113	112	108	108	106	103	98.7	96.7	95.5	92.1	
	B	548	546	544	540	539	534	530	525	521	509	493	468	442	414	384	391	355	344	331	314	296	282	268	
	BV	607	601	590	572	557	541	525	508	495	482	466	446	422	395	367	384	345	338	324	314	289	281	272	251
120	Ot	130	127	124	119	119	115	112	109	109	107	103	99.5	99.6	95.8	95	90.7	90.7	89.1	86.2	82.3	80.2	79.2	76.1	
	B	498	495	493	490	490	487	483	480	478	473	466	446	423	397	371	381	350	339	327	310	293	279	266	
	BV	552	547	544	532	520	507	492	478	465	452	437	422	404	374	351	378	341	335	323	313	287	279	271	249
130	Ot	113	110	107	103	103	99.3	96.2	94	93.4	91.2	88.2	84.3	84.6	80.8	80.2	76	76	74.7	71.7	68.1	66.2	65	62.2	
	B	454	453	450	447	446	444	441	439	438	435	431	419	403	377	355	366	342	331	319	305	289	276	262	
	BV	504	502	500	494	485	474	461	450	439	427	414	400	387	358	336	363	339	333	322	311	286	278	270	248
140	Ot	98.9	96.1	93.2	89.3	89.3	85.5	82.6	80.4	79.9	77.8	75.1	71.4	71.7	67.9	67.3	63.2	63.4	62	59.3	55.5	53.9	52.9	50	
	B	417	415	413	410	410	407	404	402	402	399	397	390	382	361	341	352	334	321	308	296	282	270	257	
	BV	463	460	459	456	452	444	433	422	413	403	392	379	370	344	321	346	335	330	319	309	285	277	268	246
150	Ot	86.6	83.8	81.2	77.2	77.4	73.6	70.7	68.6	68.2	66.1	63.6	59.8	60.1	56.7	56.2	52	52.2	51	48.2	44.7	42.9	42.1	39.3	
	B	385	382	380	377	378	375	373	371	370	368	366	362	359	344	325	337	321	310	298	286	273	262	250	
	BV	429	426	424	421	420	415	407	398	390	379	370	359	352	329	306	330	321	317	311	303	284	276	265	245
160	Ot	75.1	73.2	70.6	66.6	66.9	63.1	60.3	58.3	57.9	55.9	53.4	49.6	50.2	46.7	46.1	42	42.5	41.3	38.5	35	33.3	32.4	29.8	
	B	357	354	353	349	349	346	344	343	343	340	338	334	333	324	308	319	307	297	287	276	264	254	244	
	BV	399	395	394	390	389	386	382	375	368	359	350	339	334	312	291	315	307	303	297	289	276	270	260	244
170	Ot	65.2	63.5	61.2	57.3	57.6	53.8	51.2	49.1	48.7	46.8	44.3	40.6	41.2	37.7	37.1	33.3	33.7	32.4	29.8	26.5	24.9	23.9	21.2	
	B	331	329	328	324	325	321	319	317	317	315	314	310	309	303	290	299	292	285	276	265	254	245	236	
	BV	371	368	367	363	363	360	357	354	347	340	331	322	315	294	276	299	293	289	284	276	266	262	253	240
180	Ot	56.3	54.6	52.9	49.1	49.4	45.6	43	40.9	40.6	38.7	36.2	32.6	33.2	29.7	29.2	25.3	25.7	24.6	22.1	18.7		16.3		
	B	309	307	304	302	303	299	297	295	295	293	291	288	287	283	273	279	277	273	264	255	245	236	228	
	BV	346	343	342	339	339	336	334	332	328	322	314	306	296	277	260	284	279	275	270	263	256	252	244	234
190	Ot	48.7	46.9	45.3	41.8	42	38.3	35.7	33.6	33.4	31.5	28.9	25.4	26	22.4	22.1	18.1	18.6	17.6	15	11.5				
	B	289	286	285	282	282	280	278	275	275	273	271	268	267	263	256	260	259	257	252	244	235	227	219	
	BV	324	321	320	317	316	315	313	310	309	305	298	290	279	261	244	270	265	262	257	251	244	241	235	227
200	Ot	41.9	39.9	38.4	35.2	35.5	31.8	29.2	27	26.8	24.9	22.4	18.9	19.5	16	15.6		12.3							
	B	271	268	266	264	264	261	259	258	258	255	253	250	250	245	239	242	242	240	236	231	224	218	211	
	BV	303	300	299	297	296	294	293	291	290	288	283	274	263	245	228	257	253	250	245	239	233	230	224	217
220	Ot	30.6	28.4	26.7	23.9	24.3	20.6	18	15.8	15.6	13.6	11.2													
	B	240	237	235	232	233	229	228	226	226	224	223	220	219	215	208	212	211	209	207	204	201	199	194	
	BV	267	265	263	261	260	258	257	255	255	254	252	243	233	214	200	234	231	227	224	217	212	209	204	197
240	Ot			17.6	14.6	15	11.6																		
	B			209	206	206	203	201	200	199	198	196	193	193	190	182	186	186	185	182	179	177	176	173	
	BV			234	231	231	229	227	225	225	224	222	211	203	188	177	211	209	207	203	197	192	190	185	178
260	Ot																								
	B						180	179	176	177	175	173	170	171	166	157	164	164	163	161	158	156	155	152	
	BV						204	202	200	200	199	196	185	178	165	155	188	188	186	184	179	175	172	168	161
280	Ot																								
	B								157	157	155	153	151	150	143	135	145	146	144	142	139	138	137	134	
	BV								179	179	177	172	161	155	144	135	168	168	167	164	161	158	156	152	146
300	Ot																								
	B										139	136	131	130	121	114	128	129	128	126	123	121	120	118	
	BV										154	148	138	134	124	116	149	149	148	147	144	142	141	137	132
320	Ot																								
	B													107	99.8	94.7	113	114	113	111	108	107	106	104	
	BV													113	105	98.2	132	133	132	131	128	127	126	123	119
340	Ot																								
	B															77.4	100	101	99.7	97.9	95.6	94.5	93.3	91.1	
	BV															80.8	118	119	118	116	114	113	112	110	106
360	Ot																								
	B																		88	86.4	84	82.9	81.8	79.9	
	BV																		105	103	101	100	99	97.4	94.7
380	Ot																								
	B																				73.5	72.5	71.3	69.6	
	BV																				88.9	88.5	87.7	85.7	83
400	Ot																								
	B																						61.9	60.2	
	BV																						75.8	74.2	71.5

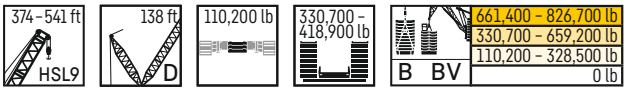
Lifting heights
Hauteurs de levage

HSL3DB/BV



HSL9DB/BV

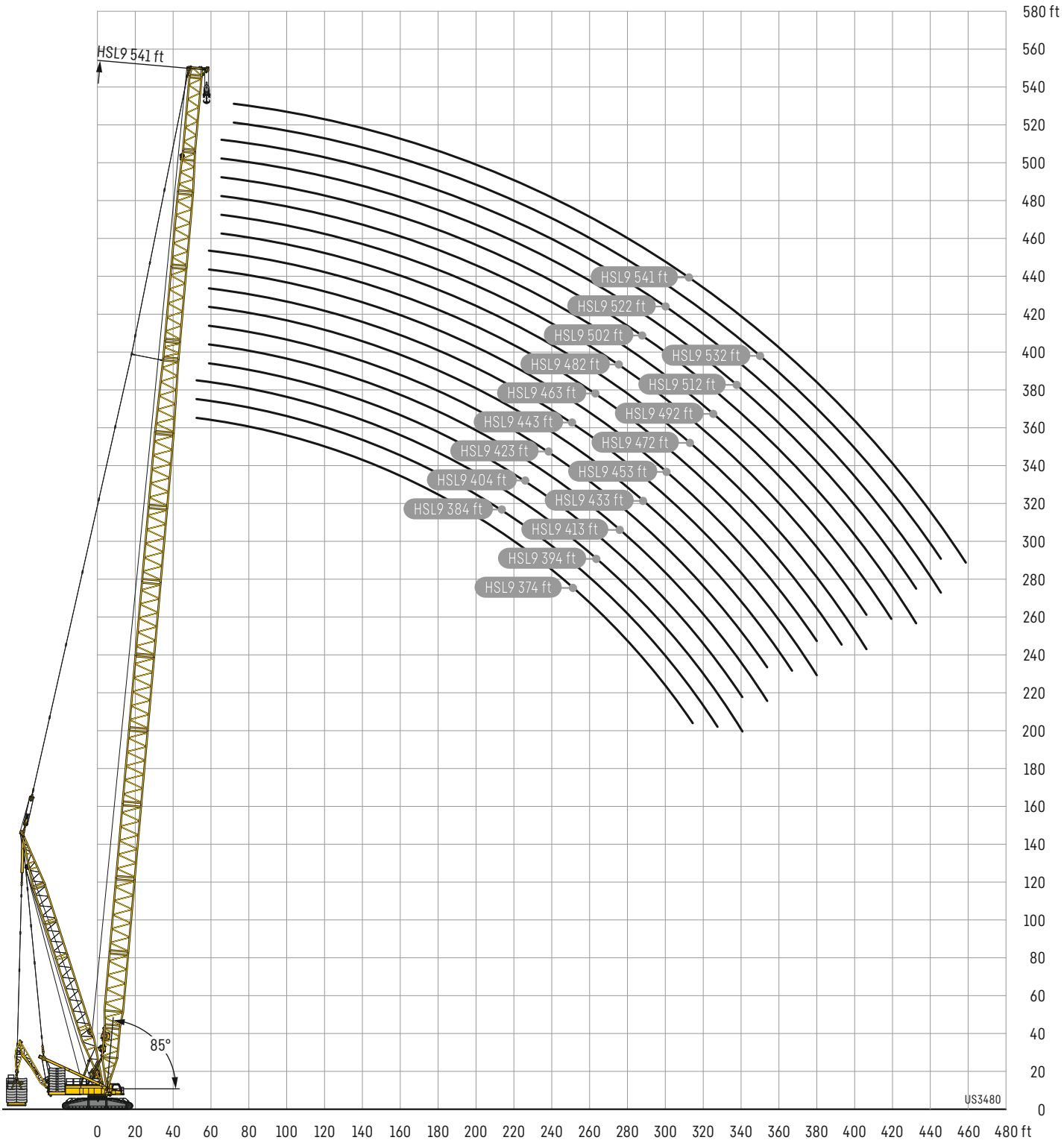
HSL9 374 – 541



		HSL9 374 – 541 ft																	
ft		374 ft	384 ft	394 ft	404 ft	413 ft	423 ft	433 ft	443 ft	453 ft	463 ft	472 ft	482 ft	492 ft	502 ft	512 ft	522 ft	532 ft	541 ft
50	Ot	329																	
	B	592																	
	BV	607																	
60	Ot	267	260	255	251	246	240	238	232	227	221	217							
	B	588	561	536	511	491	467	446	423	406	386	365							
	BV	608	579	552	526	506	482	459	435	417	396	349							
70	Ot	219	213	209	206	202	196	195	189	185	179	178	173						
	B	582	555	530	506	487	463	442	419	403	382	364	346						
	BV	605	577	550	524	505	480	459	436	418	396	375	358	342	325	310	294	280	265
80	Ot	182	177	173	170	167	161	160	155	151	146	146	141						
	B	569	543	519	495	478	454	433	411	394	375	357	339						
	BV	589	567	545	519	501	475	449	422	407	396	358	356	340	322	308	291	277	262
90	Ot	152	147	144	141	138	133	132	128	124	119	119	115						
	B	540	520	500	479	465	443	424	403	386	367	350	332						
	BV	551	533	514	496	481	450	424	410	393	391	350	353	337	319	304	288	274	260
100	Ot	127	123	119	117	115	110	109	105	101	96.8	96.7	92.5						
	B	502	487	471	455	442	425	410	393	377	360	343	326						
	BV	516	499	482	467	452	427	402	407	388	383	344	349	333	316	301	285	272	257
110	Ot	107	102	99.4	97.5	94.7	90.2	89.8	85.4	82.4	78.1	78.1	73.8						
	B	457	449	440	427	416	401	389	375	361	348	335	320						
	BV	486	470	454	440	426	406	391	391	375	365	341	342	330	313	299	282	269	254
120	Ot	89.2	85.1	82.2	80.5	78	73.4	73.3	69.1	65.9	61.9	62.1	57.9						
	B	417	410	404	398	391	377	367	355	343	331	319	307						
	BV	461	447	432	417	404	384	381	371	356	347	334	326	319	308	296	280	267	252
130	Ot	74.3	70.2	67.6	65.9	63.5	59.1	58.9	54.9	52	47.8	48.2	44.2						
	B	382	375	370	366	361	354	346	335	324	313	303	292						
	BV	436	424	410	398	384	367	364	354	339	329	320	311	305	296	290	278	265	251
140	Ot	61.4	57.4	54.8	53.2	50.9	46.6	46.5	42.5	39.7	35.7	36	32.2						
	B	352	346	341	336	331	325	322	314	305	296	287	277						
	BV	411	402	391	379	367	354	349	339	324	315	305	297	291	283	279	270	263	249
150	Ot	50	46.3	43.9	42.1	39.8	35.6	35.5	31.7	28.9	25	25.3	21.5						
	B	323	319	315	311	307	301	299	293	287	280	272	263						
	BV	384	378	371	362	351	340	335	325	311	302	293	285	279	271	267	259	254	245
160	Ot	40.1	36.3	33.8	32.2	30.2	26	25.9	22	19.3									
	B	298	294	290	287	284	279	278	273	268	262	257	249						
	BV	356	353	349	342	334	325	321	312	299	290	282	273	268	260	256	248	244	236
170	Ot	31.2	27.4	24.9	23.6	21.5		17.2											
	B	275	271	268	266	263	258	257	253	248	243	240	234						
	BV	331	328	323	320	314	309	305	298	287	279	272	263	258	250	246	238	234	226
180	Ot	23.3	19.5	17.2	15.7														
	B	254	251	249	246	243	239	238	234	230	226	224	218						
	BV	308	305	301	298	294	289	288	282	274	266	260	253	248	241	237	229	225	217
190	Ot	16.1	12.3																
	B	235	232	231	228	225	222	221	216	213	209	208	203						
	BV	287	284	281	278	275	270	269	264	258	253	248	242	238	231	228	221	217	209
200	Ot																		
	B	219	215	214	212	209	206	205	201	197	193	192	188						
	BV	268	265	262	259	257	252	251	247	243	238	235	230	227	221	218	212	208	201
220	Ot																		
	B	190	187	185	183	181	177	177	173	170	166	166	161						
	BV	235	233	230	227	224	220	220	216	212	208	207	203	202	198	197	192	190	184
240	Ot																		
	B	165	163	161	159	157	154	153	150	147	143	142	138						
	BV	207	206	203	201	198	194	193	189	186	182	181	177	177	173	173	169	168	164
260	Ot																		
	B	145	142	140	138	137	134	134	130	127	123	122	118						
	BV	183	181	179	177	175	172	171	167	164	160	159	155	155	150	151	147	147	143
280	Ot																		
	B	127	124	123	121	120	116	116	113	110	106	105	101						
	BV	162	160	158	156	154	151	151	147	145	141	140	136	136	132	132	128	128	125
300	Ot																		
	B	112	109	107	105	104	100	99.9	96.9	94.2	90.6	89.9	86.4						
	BV	144	142	140	136	134	134	134	131	128	124	123	120	120	116	116	112	112	109
320	Ot																		
	B	98.9	95.4	93.5	91.2	89.7	86	85.6	82.1	79.8	76.6	76.3	72.6						
	BV	128	126	123	116	115	118	118	115	113	109	109	105	105	101	101	97.9	98.3	94.7
340	Ot																		
	B			81.3	78.9	77.2	73.5	72.8	69.7	67.3	63.9	63.4	60.1						
	BV			105	96.1	96.2	104	104	101	99.1	95.9	95.2	91.9	91.6	88.3	88	84.7	85	81.7
360	Ot																		
	B						62.5	61.9	58.5	56.1	52.7	52.4	49.1						
	BV						92	91.5	88.8	86.6	83.7	83.3	80.3	79.9	76.4	76.3	73.1	73.7	70.3
380	Ot																		
	B								48.6	46.3	42.9	42.4	39						
	BV								77.8	75.7	72.8	72.4	69.4	69.3	66.3	66	62.6	62.9	59.8
400	Ot																		
	B										34.2	33.5	30.5						
	BV										63	62.4	59.5	59.5	56.7	56.4	53.3	53.9	50.6
420	Ot																		
	B																		
	BV													50.5	47.7	47.5	44.6	45.2	42.2
440	Ot																		
	B																		
	BV															39.3	36.5	37.3	34.5
460	Ot																		
	B																		
	BV																		27.5

Lifting heights
Hauteurs de levage

HSL9DB/BV



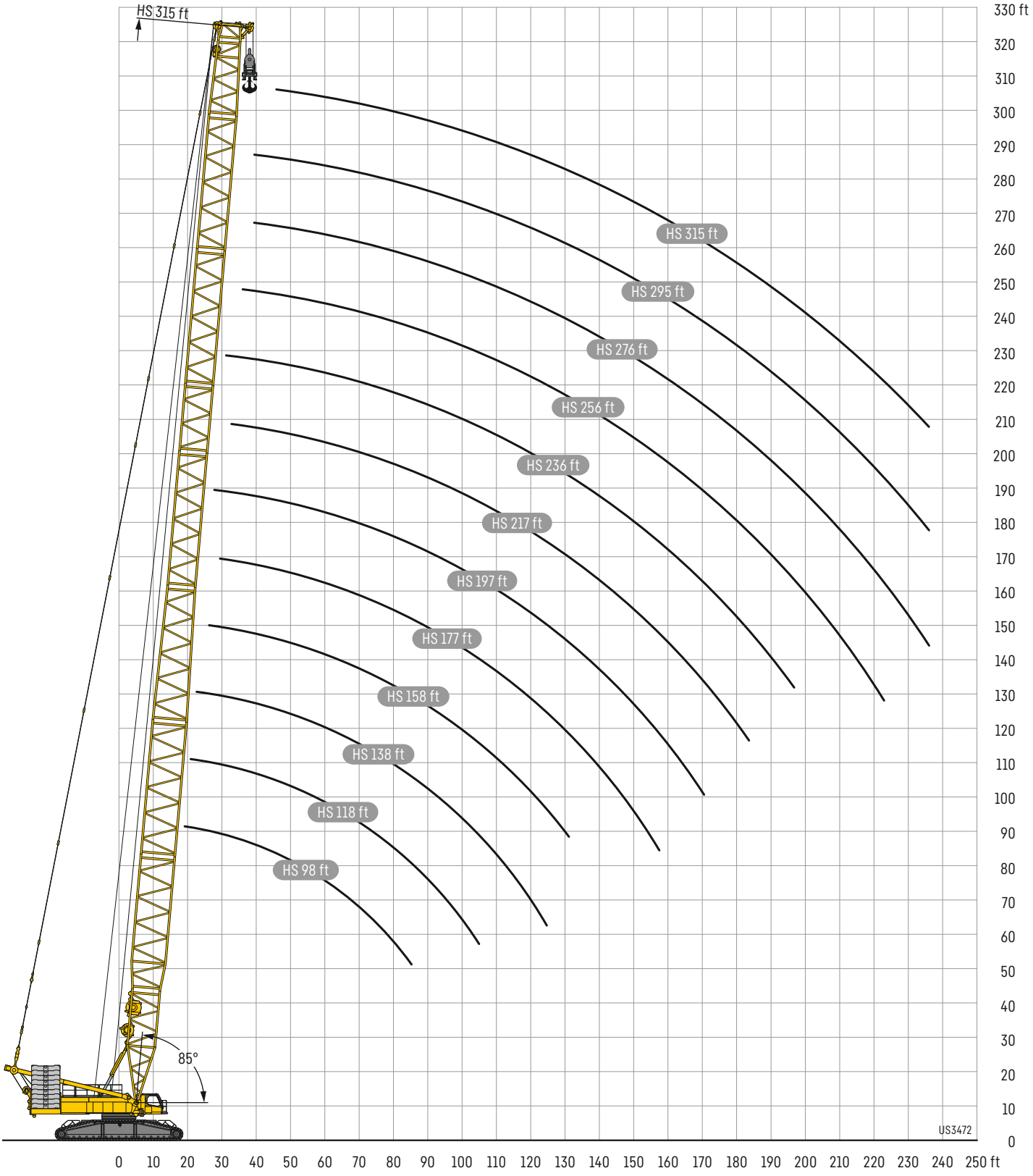






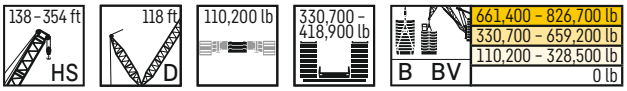
ft	HS 98 – 315 ft												ft
	98 ft	118 ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	
19	1322												19
20	1322												20
22	1319	1286											22
24	1240	1216	1215										24
26	1139	1134	1119	1088									26
28	1054	1043	1029	1002	960								28
30	972	967	954	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



HSDB/BV

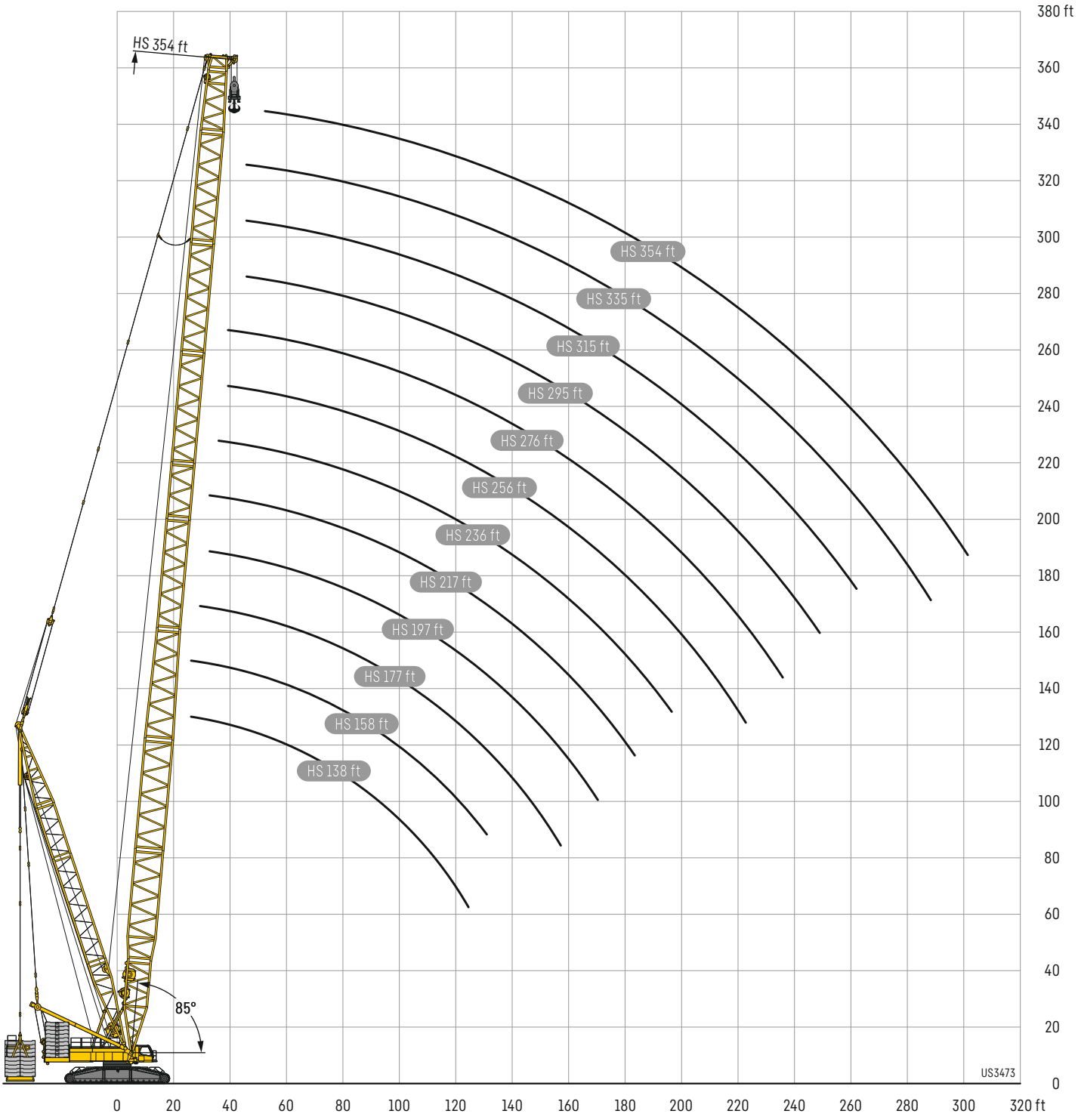
HS 138 – 354



		HS 138 – 354 ft											
	ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft
26	Ot	1133											
	B	1322											
	BV												
28	Ot	1041	987										
	B	1322	1322										
	BV												
30	Ot	963	925	871									
	B	1322	1322	1322									
	BV												
32	Ot	908	857	806	767								
	B	1322	1322	1322	1287								
	BV												
34	Ot	843	797	752	716	684							
	B	1322	1322	1322	1289	1222							
	BV	1322	1322	1322									
36	Ot	785	744	703	671	642	615						
	B	1322	1322	1322	1291	1224	1095						
	BV	1322	1322	1322	1302								
38	Ot	734	696	659	629	604	580	558					
	B	1322	1322	1322	1293	1225	1094	981					
	BV	1321	1322	1322	1307	1241							
40	Ot	689	655	621	594	570	547	528	508				
	B	1322	1322	1322	1295	1225	1092	979	876				
	BV	1314	1322	1322	1310	1244	1118						
50	Ot	522	499	474	456	439	424	410	397	384	370	359	347
	B	1251	1232	1219	1202	1153	1082	972	870	779	699	628	563
	BV	1238	1251	1285	1240	1186	1116	1001	881	796	712	637	570
60	Ot	416	398	378	364	351	339	330	320	310	299	290	280
	B	1075	1063	1050	1037	1023	996	931	862	773	694	624	559
	BV	1152	1147	1130	1108	1073	1030	960	881	797	713	638	570
70	Ot	341	327	310	298	288	279	272	263	256	246	239	231
	B	919	912	902	891	883	872	852	818	764	688	619	556
	BV	993	985	974	963	954	936	883	844	792	713	639	569
80	Ot	279	274	260	250	241	233	227	220	214	206	199	192
	B	800	794	785	780	772	765	757	745	723	677	613	550
	BV	865	859	849	844	836	827	807	780	750	700	638	568
90	Ot	233	229	221	211	204	197	192	186	180	173	168	161
	B	709	701	693	686	683	678	671	665	655	636	601	539
	BV	768	759	751	743	740	734	727	711	690	648	617	568
100	Ot	198	194	187	181	174	168	164	158	153	147	142	136
	B	633	628	617	613	608	604	602	596	589	581	568	524
	BV	687	681	670	665	660	656	653	646	634	598	570	538
110	Ot	171	166	159	155	150	144	140	136	131	125	120	115
	B	570	566	557	551	548	544	541	538	534	526	519	496
	BV	615	614	606	599	595	591	588	584	579	554	530	501
120	Ot	149	144	137	133	130	124	121	116	112	107	102	97.1
	B	495	514	506	501	496	493	491	487	484	479	474	464
	BV	536	558	550	545	540	536	534	529	527	516	495	468
130	Ot		126	119	114	112	108	104	100	96.1	90.9	87.1	81.9
	B		470	462	457	453	449	447	444	441	437	434	427
	BV		511	503	498	494	490	488	484	481	477	464	441
140	Ot		111	103	99.2	96.4	93.6	90.4	86	82.4	77.3	73.6	68.8
	B		420	425	420	417	412	410	407	405	400	397	393
	BV		457	463	459	455	450	448	444	442	437	432	415
150	Ot			90.8	86.3	83.2	80.5	78.3	74	70.5	65.4	61.8	57.3
	B			393	387	384	381	378	374	372	369	366	361
	BV			429	424	420	416	414	409	408	404	400	391
160	Ot				75.4	72.1	69.1	67.6	63.4	60	55	51.5	47.1
	B				359	355	352	350	346	344	340	338	334
	BV				393	388	385	384	380	377	373	371	365
170	Ot				66.1	62.5	59.4	58.2	54.1	50.8	45.9	42.4	38
	B				334	330	326	325	322	319	315	312	309
	BV				366	362	358	356	353	351	346	343	340
180	Ot					54.3	50.8	49.4	45.8	42.7	37.7	34.3	29.9
	B					308	304	302	299	297	293	290	286
	BV					339	334	332	328	327	323	319	316
190	Ot					47.3	43.4	41.9	38.6	35.3	30.5	27	22.6
	B					289	284	282	279	277	273	270	266
	BV					318	313	311	307	305	302	298	294
200	Ot						37	35.1	32.1	28.8	23.9	20.5	16.1
	B						267	264	260	259	255	253	249
	BV						294	291	287	286	282	280	275
220	Ot							24.1	20.8	17.9	12.7		
	B							233	229	228	224	221	218
	BV							258	254	252	248	246	242
240	Ot								11.7				
	B								203	201	197	195	191
	BV								227	224	220	217	214
260	Ot												
	B										175	172	168
	BV										197	194	190
280	Ot												
	B											152	149
	BV											174	170
300	Ot												
	B												132
	BV												152

Lifting heights
Hauteurs de levage

HSDB/BV



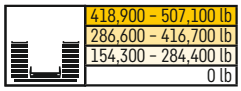
S2W

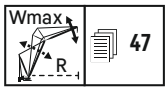
S2 118 – 138











S2 118 ft

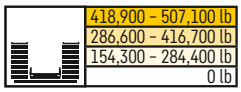
ft	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft		ft
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
38	313.0	313.0																									38
40	670.0	670.0[1]																									40
50	531.0	531.0	512.0	512.0	495.0	495.0[1]																					50
60	438.0	438.0	423.0	423.0	411.0	411.0[2]	399.0	399.0	388.0	388.0																	60
70	367.0	367.0	360.0	360.0	350.0	350.0[3]	340.0	340.0	331.0	331.0	323.0	323.0	313.0	313.0													70
80	311.0	311.0	309.0	309.0	304.0	304.0	295.0	295.0	288.0	288.0	280.0	280.0[2]	272.0	284.0[1]	265.0	265.0	244.0	244.0	89.7	89.7							80
90	267.0	267.0	266.0	266.0	267.0	267.0	260.0	260.0	254.0	254.0	247.0	247.0	240.0	255.0[1]	234.0	234.0	227.0	227.0	208.0	208.0	180.0	180.0	66.1	66.1			90
100		226.0[11]	233.0	233.0	233.0	233.0	231.0	231.0	226.0	226.0	220.0	220.0	214.0	226.0[1]	208.0	208.0[1]	202.0	204.0[1]	197.0	197.0	178.0*	178.0*	152.0	152.0[1]	130.0	130.0	100
110		195.0[10]	206.0	206.0	206.0	206.0	204.0	204.0	203.0	203.0	198.0	198.0	192.0	197.0[1]	187.0	187.0	181.0	190.0[1]	177.0	181.0[1]	170.0	170.0	150.0*	150.0[1]	127.0	128.0[1]	110
120		170.0[10]		175.0[11]	183.0	183.0[10]	182.0	182.0	181.0	181.0[6]	179.0	179.0	174.0	174.0	169.0	169.0	164.0	175.0[1]	160.0	168.0[1]	154.0	158.0[1]	145.0*	145.0*	125.0*	125.0*	120
130		146.0[10]		153.0[11]	164.0	164.0	163.0	163.0[9]	162.0	162.0[7]	161.0	161.0	158.0	158.0	153.0	153.0	148.0	161.0[1]	145.0	155.0[1]	139.0	146.0[1]	135.0	135.0	122.0*	122.0*	130
140		123.0[8]		134.0[10]		140.0[11]	147.0	147.0	146.0	146.0	145.0	145.0	143.0	143.0	140.0	140.0	135.0	146.0[1]	132.0	142.0[1]	126.0	135.0[1]	122.0	122.0	116.0	116.0	140
150		105.0[8]		116.0[10]		124.0[11]	133.0	133.0	132.0	132.0	130.0	130.0	129.0	129.0	127.0	127.0	124.0	132.0[1]	121.0	130.0[1]	115.0	124.0[1]	111.0	112.0[1]	106.0	106.0	150
160		89.2[6]		98.0[8]		109.0[10]		113.0[11]	120.0	120.0[11]	119.0	119.0	116.0	116.0[7]	115.0	115.0	112.0	117.0[1]	110.0	117.0[1]	105.0	112.0[1]	102.0	102.0[1]	96.8	96.8	160
170		75.7[6]		84.1[8]		94.7[10]		101.0[11]	109.0	109.0	108.0	108.0	106.0	106.0	104.0	104.0	102.0	103.0[1]	101.0	104.0[1]	96.7	101.0[1]	92.9	93.0[1]	88.2	88.2	170
180				70.8[6]		80.1[8]		89.1[10]		92.2[11]	98.7	98.7	96.6	96.6	94.4	94.4	92.3	92.3	91.3	91.3	87.8	89.5[1]	85.2	85.2	80.6	80.6	180
190				59.8[6]		68.8[8]		77.1[10]		83.6[11]	90.4	90.4	88.3	88.3	86.1	86.1	84.0	84.0	82.7	82.7	79.5	79.5	77.2	77.2	73.7	73.7	190
200						57.4[6]		64.7[8]		74.0[11]		75.3[11]	80.9	80.9	78.8	78.8	76.5	76.5	75.1	75.1	71.8	71.8	69.7	69.7	66.5	66.5	200
220								45.3[6]		53.4[9]		59.9[11]		61.0[11]	66.0	66.0	63.9	63.9	62.2	62.2	58.8	58.8	56.6	56.6	53.3	53.3	220
240										36.3[7]		42.0[9]		47.8[11]		48.4[11]	53.5	53.5	51.6	51.6	48.3	48.3	46.1	46.1	42.8	42.8	240
260												27.0[7]		32.6[9]		37.0[11]		37.9[11]	42.7	42.7	39.4	39.4	37.3	37.3	34.0	34.0	260
280														19.6[7]		23.7[9]		28.5[11]		29.0[11]	31.9	31.9	30.1	30.1	27.4	27.4	280
300																		15.0[7]		20.9[11]		21.1[11]	24.7	24.7	22.1	22.1	300
320																								15.0[11]	17.7	17.7	320

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









S2 138 ft

ft	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft		ft
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
40	640.0	640.0																									40
50	510.0	510.0	494.0	494.0	479.0	479.0																					50
60	423.0	423.0	410.0	410.0	399.0	409.0[1]	387.0	393.0[1]	375.0	375.0																	60
70	360.0	360.0[6]	349.0	349.0[4]	341.0	342.0[1]	331.0	338.0[1]	321.0	335.0[1]	312.0	322.0[1]	302.0	302.0													70
80	308.0	308.0[8]	304.0	304.0	296.0	296.0	288.0	288.0	279.0	298.0[1]	272.0	298.0[1]	266.0	282.0[1]	257.0	257.0	231.0	231.0									80
90	265.0	265.0[11]	266.0	266.0	261.0	261.0	254.0	254.0	246.0	261.0[1]	240.0	275.0[1]	235.0	262.0[1]	227.0	239.0[1]	221.0	221.0	197.0	197.0	172.0	172.0					90
100		225.0[11]	232.0	232.0[9]	232.0	232.0	227.0	227.0	220.0	224.0[1]	214.0	252.0[1]	210.0	242.0[1]	202.0	222.0[1]	198.0	204.0[1]	191.0	191.0	167.0	167.0	146.0	146.0	125.0	125.0	100
110		191.0[9]	204.0	204.0	205.0	205.0[8]	204.0	204.0	198.0	198.0	192.0	229.0[1]	188.0	222.0[1]	182.0	205.0[1]	178.0	189.0[1]	172.0	172.0	162.0	162.0	142.0	142.0[1]	122.0	122.0[1]	110
120		167.0[11]		175.0[11]	183.0	183.0[10]	182.0	182.0	179.0	179.0	174.0	205.0[1]	171.0	202.0[1]	164.0	188.0[1]	161.0	175.0[1]	155.0	157.0[1]	149.0	149.0	138.0*	138.0*	120.0*	120.0*	120
130		145.0[10]		150.0[11]	164.0	164.0	163.0	163.0	161.0	161.0	159.0	182.0[1]	155.0	182.0[1]	149.0	171.0[1]	146.0	161.0[1]	141.0	145.0[1]	135.0	135.0	130.0	130.0	117.0*	117.0*	130
140		123.0[10]		133.0[11]		140.0[11]	147.0	147.0	144.0	144.0[8]	144.0	159.0[1]	142.0	161.0[1]	136.0	154.0[1]	133.0	147.0[1]	128.0	133.0[1]	123.0	123.0	118.0	118.0	111.0	111.0	140
150		104.0[8]		116.0[10]		122.0[11]	132.0	132.0	131.0	131.0	129.0	136.0[1]	129.0	141.0[1]	125.0	137.0[1]	122.0	133.0[1]	117.0	121.0[1]	112.0	112.0	108.0	108.0	103.0	103.0	150
160		88.4[8]		98.7[10]		109.0[11]		113.0[11]	119.0	119.0	117.0	117.0	117.0	121.0[1]	114.0	120.0[1]	112.0	119.0[1]	107.0	109.0[1]	102.0	102.0[4]	98.3	98.3	93.5	93.5	160
170		73.9[6]		83.2[8]		94.5[10]		99.3[11]	108.0	108.0	107.0	107.0	106.0	106.0[8]	103.0	104.0[1]	103.0	104.0[1]	98.5	98.5	93.7	93.7	89.9	89.9	85.2	85.2	170
180		62.4[6]		70.8[8]		80.9[10]		87.8[10]		90.9[11]	97.6	97.6	96.9	96.9	93.2	93.2	93.4	93.4	90.2	90.2	86.0	86.0	82.4	82.4	77.8	77.8	180
190				58.6[6]		67.8[8]		76.7[10]		80.6[11]	89.2	89.2	88.5	88.5	85.0	85.0	84.8	84.8	81.7	81.7	78.5	78.5	75.6	75.6	71.1	71.1	190
200				49.0[6]		57.5[8]		65.5[10]		71.8[11]		73.7[11]	81.0	81.0	77.7	77.7	77.3	77.3	74.1	74.1	70.8	70.8	68.7	68.7	64.8	64.8	200
220						38.8[6]		45.5[8]		52.8[11]		57.9[11]		60.1[11]	65.0	65.0	64.5	64.5	61.2	61.2	57.9	57.9	55.7	55.7	52.4	52.4	220
240								29.1[6]		35.3[9]		41.6[11]		46.8[11]		46.3[11]	53.8	53.8	50.7	50.7	47.4	47.4	45.1	45.1	41.9	41.9	240
260										21.2[7]		26.8[9]		32.5[11]		35.2[11]		37.0[11]	41.9	41.9	38.6	38.6	36.4	36.4[9]	33.1	33.1[8]	260
280												13.9[7]		19.6[9]		24.2[11]		27.3[11]		27.2[11]	31.2	31.2	29.3	29.3	26.6	26.6	280
300																		17.8[11]		14.1[7]		19.6[11]	24.1	24.1	21.5	21.5	300
320																									17.1	17.1	320

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

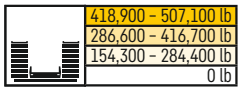
S2W

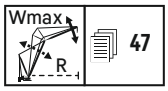
S2 158 – 177











S2 158 ft

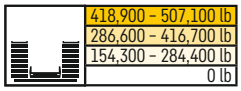
ft	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft		ft
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
50	492.0	509.0[1]	475.0	487.0[1]	275.0	275.0																					50
60	409.0	413.0[1]	396.0	427.0[1]	385.0	415.0[1]	374.0	384.0[1]	364.0	364.0																	60
70	350.0	350.0	338.0	367.0[1]	330.0	380.0[1]	321.0	355.0[1]	312.0	332.0[1]	302.0	310.0[1]	284.0	284.0													70
80	304.0	304.0[8]	294.0	307.0[1]	287.0	345.0[1]	279.0	325.0[1]	273.0	307.0[1]	264.0	292.0[1]	258.0	269.0[1]	242.0	242.0	217.0	217.0									80
90	264.0	264.0[11]	260.0	260.0	253.0	309.0[1]	247.0	295.0[1]	241.0	282.0[1]	233.0	275.0[1]	228.0	254.0[1]	220.0	220.0	209.0	209.0	186.0	186.0	163.0	163.0					90
100	224.0*	224.0*	230.0	230.0[9]	226.0	274.0[1]	220.0	266.0[1]	215.0	257.0[1]	208.0	257.0[1]	204.0	239.0[1]	196.0	196.0	193.0	193.0	180.0	180.0	157.0	157.0	138.0	138.0	119.0	119.0	100
110		188.0[11]	203.0	203.0	203.0	238.0[1]	198.0	236.0[1]	194.0	231.0[1]	187.0	240.0[1]	183.0	224.0[1]	176.0	177.0[1]	173.0	173.0	167.0	167.0	153.0*	153.0*	134.0	134.0	116.0	116.0	110
120		164.0[11]	175.0*	175.0*	181.0	203.0[1]	180.0	206.0[1]	176.0	206.0[1]	169.0	223.0[1]	166.0	209.0[1]	159.0	161.0[1]	157.0	157.0[1]	151.0	151.0	143.0	143.0	131.0*	131.0*	113.0	113.0	120
130		143.0[10]		147.0[11]	162.0	168.0[1]	161.0	177.0[1]	160.0	181.0[1]	154.0	205.0[1]	151.0	194.0[1]	145.0	146.0[1]	142.0	143.0[1]	137.0	137.0	131.0	131.0	125.0	125.0	110.0*	110.0*	130
140		123.0[10]		130.0[11]		138.0[11]	145.0	147.0[1]	144.0	156.0[1]	141.0	188.0[1]	138.0	179.0[1]	132.0	132.0	130.0	130.0[1]	124.0	124.0	119.0	119.0	115.0	115.0	105.0	105.0	140
150		103.0[10]		113.0[10]		119.0[11]	131.0	131.0	131.0	131.0[1]	128.0	170.0[1]	127.0	164.0[1]	121.0	121.0	119.0	119.0	114.0	114.0	108.0	108.0	104.0	104.0	99.3	99.3	150
160		87.1[8]		97.7[10]		105.0[11]		111.0[11]	119.0	119.0	116.0	153.0[1]	116.0	149.0[1]	111.0	111.0[6]	109.0	109.0	104.0	104.0	99.0	99.0	95.1	95.1	90.2	90.2	160
170		73.6[8]		82.3[10]		92.1[10]		96.1[11]	108.0	108.0	105.0	135.0[1]	105.0	134.0[1]	101.0	101.0	101.0	101.0	95.5	95.5	90.7	90.7	86.9	86.9	82.2	82.2	170
180		60.2[6]		68.8[8]		79.6[10]		85.4[11]		90.8[11]	96.2	118.0[1]	95.6	119.0[1]	92.0	92.0	92.2	92.2	88.0	88.0	83.2	83.2	79.5	79.5	74.9	74.9	180
190		50.2[6]		57.7[8]		67.2[10]		74.2[10]		78.8[11]	87.9	100.0[1]	87.3	104.0[1]	83.7	83.7	83.6	83.6	80.7	80.7	76.4	76.4	72.9	72.9[5]	68.4	68.4	190
200				46.4[6]		55.7[8]		63.8[10]		69.9[11]		82.5[1]	79.9	89.3[1]	76.5	76.5	76.1	76.1	73.2	73.2	69.6	69.6	66.8	66.8	62.4	62.4	200
220						36.4[6]		43.3[8]		51.3[10]		55.2[11]		59.4[1]	63.8	63.8	63.5	63.5	60.2	60.2	56.8	56.8	54.6	54.6	51.3	51.3	220
240								26.4[6]		34.5[9]		39.8[11]		44.3[11]		44.9[11]	52.8	52.8	49.7	49.7	46.4	46.4	44.1	44.1	40.8	40.8	240
260										15.4[3]		24.7[9]		31.7[11]		32.6[11]		35.5[11]	40.9	40.9	37.6	37.6	35.5	35.5	32.2	32.2	260
280														12.7[5]		22.2[11]		25.8[11]		25.9[11]	30.4	30.4	28.4	28.4	25.9	25.9	280
300																		12.4[8]				18.1[11]	23.4	23.4	20.8	20.8	300
320																									16.5	16.5	320

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









S2 177 ft

ft	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft		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	475.0	517.0[1]	458.0	470.0[1]																							50
60	396.0	470.0[1]	384.0	431.0[1]	373.0	399.0[1]	363.0	363.0																			60
70	339.0	422.0[1]	329.0	392.0[1]	320.0	367.0[1]	312.0	312.0[2]	302.0	302.0	290.0	290.0															70
80	296.0	374.0[1]	286.0	353.0[1]	280.0	334.0[1]	272.0	272.0	264.0	264.0	258.0	258.0	248.0	248.0	224.0	224.0											80
90	262.0	326.0[1]	253.0	314.0[1]	247.0	302.0[1]	241.0	241.0	234.0	234.0	228.0	228.0	221.0	221.0[2]	214.0	214.0	194.0	194.0	172.0	172.0	151.0	151.0					90
100	223.0*	278.0[1]	227.0	275.0[1]	221.0	270.0[1]	215.0	215.0	209.0	209.0	204.0	204.0	198.0	198.0	193.0	193.0	186.0	186.0	166.0	166.0	146.0	146.0	128.0	128.0	110.0	110.0	100
110		230.0[1]	202.0	237.0[1]	200.0	238.0[1]	194.0	194.0[6]	188.0	188.0	183.0	183.0	178.0	178.0	173.0	173.0	168.0	168.0	159.0	159.0[2]	141.0	141.0	124.0	124.0	107.0	107.0	110
120		182.0[1]	174.0*	198.0[1]	180.0	205.0[1]	176.0	176.0	171.0	171.0	166.0	166.0	161.0	161.0	157.0	157.0	152.0	152.0	146.0	146.0	135.0	135.0	121.0*	121.0*	104.0	104.0	120
130		140.0[11]		159.0[1]	162.0	173.0[1]	160.0	160.0	155.0	155.0	151.0	151.0	146.0	146.0	142.0	142.0	138.0	138.0	132.0	132.0	126.0	126.0	116.0*	116.0*	102.0*	102.0*	130
140		122.0[10]		127.0[11]	140.0*	141.0[1]	145.0	145.0	141.0	141.0	138.0	138.0	134.0	134.0	130.0	130.0	126.0	126.0[4]	120.0	120.0	115.0	115.0[3]	110.0	110.0	97.6	97.6	140
150		104.0[10]		111.0[11]		118.0[11]	131.0	131.0	129.0	129.0[9]	126.0	126.0	122.0	122.0[6]	119.0	119.0	115.0	115.0	110.0	110.0[4]	105.0	105.0	101.0	101.0	94.0	94.0	150
160		86.5[10]		96.6[10]		104.0[11]	114.0*	114.0*	117.0	117.0	116.0	116.0	112.0	112.0	109.0	109.0	106.0	106.0	101.0	101.0	95.6	95.6	91.8	91.8	86.9	86.9	160
170		72.8[8]		82.6[10]		90.8[11]		95.4[11]	107.0	107.0	106.0	106.0	103.0	103.0	100.0	100.0	97.1	97.1	92.5	92.5	87.5	87.5	83.8	83.8	79.0	79.0	170
180		60.8[8]		68.6[10]		78.6[10]		83.9[11]	93.3*	93.3*	96.4	96.4[11]	94.2	94.2	92.3	92.3	89.2	89.2	84.9	84.9	80.2	80.2	76.6	76.6	71.9	71.9	180
190		48.6[6]		57.1[8]		67.1[10]		72.6[10]		76.4[11]	88.0	88.0	86.0	86.0	84.4	84.4	81.9	81.9	77.9	77.9	73.6	73.6	70.1	70.1	65.6	65.6	190
200		39.8[6]		47.0[8]		55.6[10]		62.9[10]		67.4[11]	76.8*	76.8*	78.7	78.7	77.1	77.1	75.0	75.0	71.5	71.5	67.3	67.3	64.3	64.3	59.8	59.8	200
220				28.9[6]		36.7[8]		43.3[10]		49.4[10]		54.1[11]	62.7*	62.7*	64.3	64.3	62.4	62.4	59.1	59.1	55.7	55.7	53.4	53.4	49.6	49.6	220
240						20.9[6]		27.4[8]		32.8[10]		39.5[11]		42.2[11]		45.3[11]	51.9	51.9	48.7	48.7	45.3	45.3	43.0	43.0	39.8	39.8	240
260										19.0[8]		25.4[11]		29.8[11]		32.0[11]		34.5[11]	40.0	40.0	36.7	36.7	34.5	34.5	31.3	31.3	260
280														18.0[11]		17.4[8]		24.3[11]		25.2[11]	29.5	29.5	27.7	27.7	25.1	25.1	280
300																				16.8[11]		17.2[11]	22.7	22.7	20.1	20.1	300
320																									15.8	15.8	320

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

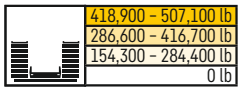
S2W

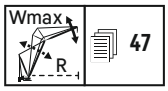
S2 197 – 217











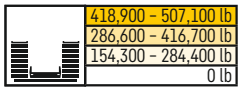
ft	S2 197 ft																										ft
	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
50	458.0	498.0[1]	442.0	447.0[1]																							50
60	384.0	464.0[1]	372.0	420.0[1]	360.0	360.0	345.0	345.0																			60
70	330.0	430.0[1]	319.0	392.0[1]	310.0	310.0	302.0	302.0	295.0	295.0	269.0	269.0															70
80	286.0	396.0[1]	279.0	364.0[1]	271.0	271.0	264.0	264.0	258.0	258.0	249.0	249.0	231.0	231.0													80
90	250.0	362.0[1]	245.0	336.0[1]	240.0	240.0	234.0	234.0	229.0	229.0	221.0	221.0	214.0	214.0	200.0	200.0	180.0	180.0									90
100	220.0*	328.0[1]	217.0	308.0[1]	212.0	212.0	209.0	209.0	204.0	204.0	197.0	197.0[3]	192.0	192.0	187.0	187.0	174.0	174.0	155.0	155.0	136.0	136.0	116.0	116.0			100
110		294.0[1]	193.0	280.0[1]	189.0	189.0	186.0	186.0	183.0	183.0	178.0	178.0	172.0	172.0	168.0	168.0	162.0	162.0	148.0	148.0	131.0	131.0	115.0	115.0	100.0	100.0	110
120		260.0[1]	173.0*	252.0[1]	170.0	170.0[9]	166.0	166.0[7]	164.0	164.0	159.0	159.0	155.0	155.0	152.0	152.0	147.0	147.0	138.0	138.0	128.0*	128.0*	113.0*	113.0*	96.8	96.8	120
130		226.0[1]		224.0[1]	154.0	154.0[11]	151.0	151.0[8]	148.0	148.0	144.0	144.0	140.0	140.0	137.0	137.0	133.0	133.0	128.0	128.0	119.0	119.0	109.0*	109.0*	94.8*	94.8*	130
140		192.0[1]		196.0[1]	138.0*	138.0*	137.0	137.0[9]	135.0	135.0[7]	130.0	130.0[6]	126.0	126.0[5]	124.0	124.0	121.0	121.0	115.0	115.0	110.0	110.0[3]	103.0	103.0	91.4*	91.4*	140
150		158.0[1]		168.0[1]		117.0[11]	126.0	126.0	123.0	123.0[8]	119.0	119.0[7]	115.0	115.0[6]	112.0	112.0[5]	110.0	110.0	105.0	105.0	99.5	99.5	95.5	95.5	87.0	87.0	150
160		124.0[1]		140.0[1]		100.0[11]	112.0*	112.0*	113.0	113.0[10]	109.0	109.0[8]	105.0	105.0	103.0	103.0	99.2	99.2[5]	95.2	95.2	90.6	90.6	87.0	87.0	81.0	81.0	160
170		90.5[1]		112.0[1]		87.6[11]		94.1[11]	104.0	104.0	100.0	100.0	96.4	96.4	93.8	93.8	90.7	90.7	86.6	86.6	82.1	82.1	79.2	79.2	74.5	74.5	170
180		59.2[8]		84.4[1]		75.3[10]		81.0[11]	92.7*	92.7*	92.3	92.3	88.8	88.8	86.3	86.3	83.0	83.0	78.9	78.9	74.7	74.7	71.4	71.4	67.6	67.6	180
190		48.4[8]		56.5[1]		64.6[10]		70.4[11]		76.5[11]	85.4	85.4	81.9	81.9	79.5	79.5	76.2	76.2	72.2	72.2	68.0	68.0	65.1	65.1	60.4	60.4	190
200		37.6[8]		45.4[8]		53.9[10]		59.9[10]		66.0[11]	75.0*	75.0*	75.8	75.8	73.3	73.3	70.2	70.2	66.0	66.0	62.0	62.0	59.2	59.2	54.9	54.9	200
220		21.4[6]		27.3[8]		34.4[8]		41.6[10]		48.1[10]		51.5[11]	60.8*	60.8*	62.9	62.9	59.8	59.8	55.8	55.8	51.6	51.6	48.7	48.7	45.0	45.0	220
240								24.5[8]		32.7[10]		36.7[11]		39.7[11]	48.8*	48.8*	50.7	50.7	47.3	47.3	43.3	43.3	40.5	40.5	36.8	36.8	240
260												23.1[11]		21.1[7]		30.3[11]	38.4*	38.4*	38.9	38.9	35.5	35.5	33.4	33.4	29.8	29.8	260
280																		22.5[11]	28.5*	28.5*	28.6	28.6	26.9	26.9	24.3	24.3	280
300																					21.1*	21.1*	21.9	21.9	19.3	19.3	300
320																							15.2*	15.2*	15.0	15.0	320

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









ft	S2 217 ft																								ft
	W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 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			
50	398.0	407.0[1]	365.0	365.0																					50
60	360.0	380.0[1]	335.0	335.0	308.0	308.0	284.0	284.0																	60
70	317.0	353.0[1]	305.0	305.0	289.0*	289.0*	264.0	264.0	243.0	243.0															70
80	274.0	326.0[1]	269.0	269.0	261.0	261.0	246.0*	246.0*	233.0*	233.0*	211.0	211.0	192.0	192.0											80
90	239.0	300.0[1]	235.0	235.0[6]	230.0	230.0	225.0	225.0	213.0	213.0	203.0*	203.0*	183.0	183.0	166.0	166.0	150.0	150.0							90
100	213.0*	273.0[1]	207.0	208.0[8]	202.0	203.0[6]	199.0	199.0	194.0	194.0	186.0	186.0[5]	176.0*	176.0*	160.0*	160.0*	143.0	143.0	128.0	128.0	113.0	113.0			100
110		246.0[1]	186.0*	187.0[9]	181.0	181.0[7]	178.0	178.0[5]	173.0	173.0	171.0	171.0	162.0	162.0	152.0*	152.0*	138.0*	138.0*	124.0*	124.0*	108.0	108.0			110
120		219.0[1]	170.0*	170.0*	164.0*	164.0[8]	160.0*	160.0[6]	155.0	156.0[5]	153.0	153.0	148.0	148.0	140.0	140.0	131.0*	131.0[2]	118.0*	118.0*	104.0*	104.0*			120
130		192.0[1]		147.0[11]	150.0*	150.0[10]	146.0*	146.0[7]	141.0*	141.0[6]	138.0	138.0[5]	134.0	134.0[4]	129.0	129.0	122.0	122.0	112.0*	112.0*	99.6*	99.6*			130
140		165.0[1]		124.0[11]	137.0*	137.0*	134.0*	134.0*	129.0*	129.0*	125.0	125.0[4]	121.0	121.0[5]	116.0	116.0[4]	112.0	112.0	105.0*	105.0*	95.2*	95.2*			140
150		138.0[1]		108.0[11]		117.0[11]	123.0*	123.0[10]	118.0*	118.0[8]	115.0*	115.0[6]	111.0*	111.0[5]	105.0	106.0[5]	102.0	102.0[4]	96.7	96.7	89.8*	89.8*			150
160		111.0[1]		92.3[11]		98.8[11]	112.0*	112.0*	109.0*	109.0[9]	106.0*	106.0[7]	102.0*	102.0[6]	96.4*	96.5[5]	92.5	92.6[5]	88.0	88.0[4]	82.6	82.6			160
170		84.2[1]		79.0[10]		86.5[11]		94.6[11]	99.9*	99.9*	98.2*	98.2*	94.0*	94.0*	88.6*	88.6*	84.7*	85.0[5]	80.0	80.0	75.3	75.3			170
180		57.3[1]		67.1[10]		74.1[11]		80.0[11]	90.9*	90.9*	90.3*	90.3*	87.0*	87.0*	81.7*	81.7*	77.9*	77.9*	73.1*	73.3[5]	68.5	68.5			180
190		46.7[8]		55.2[10]		63.3[10]		69.6[11]		75.5[11]	82.3*	82.3*	80.1*	80.1*	75.5*	75.5*	71.8*	71.8*	67.0*	67.0*	62.2*	62.5[5]			190
200		37.3[8]		42.8[8]		53.1[10]		58.5[10]		63.8[11]	74.9*	74.9*	73.1*	73.1*	69.5*	69.5*	66.2*	66.2*	61.5*	61.5*	56.8*	56.8*			200
220				26.3[8]		27.9[5]		41.1[10]		45.4[10]		51.0[11]	60.7*	60.7*	57.4	57.4	55.2*	55.2*	51.8*	51.8*	47.3*	47.3*			220
240						13.9[5]				30.4[10]		32.2[8]		39.4[11]	47.3*	47.3*	46.4	46.4	42.8	42.8	39.0	39.0			240
260												18.7[8]				28.5[11]	36.9*	36.9*	35.9	35.9	32.2	32.2			260
280																		20.7[11]	27.4*	27.4*	26.8	26.8			280
300																					20.0*	20.0*			300

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

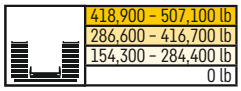
S2W

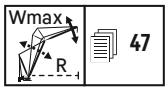
S2 236









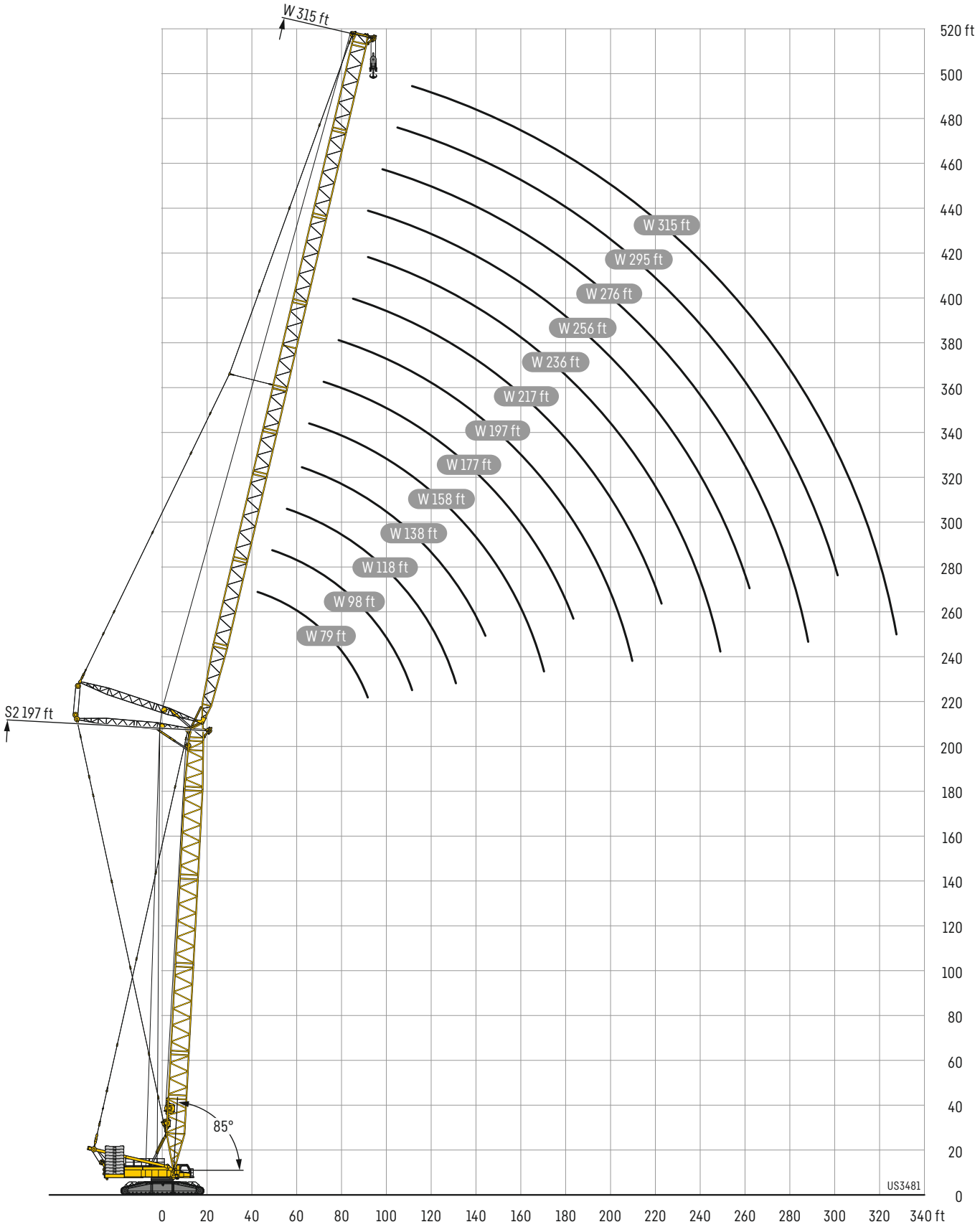


ft	S2 236 ft						ft
	W 158 ft		W 177 ft		W 197 ft		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
70	225,0	225,0					70
80	212,0	212.0[2]	194,0	194,0	177,0	177,0	80
90	203.0*	203.0*	186.0*	186.0*	168,0	168,0	90
100	184,0	184,0	176.0*	176.0[2]	162.0*	162.0*	100
110	166,0	167.0[4]	159,0	159.0[3]	152.0*	152.0*	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°

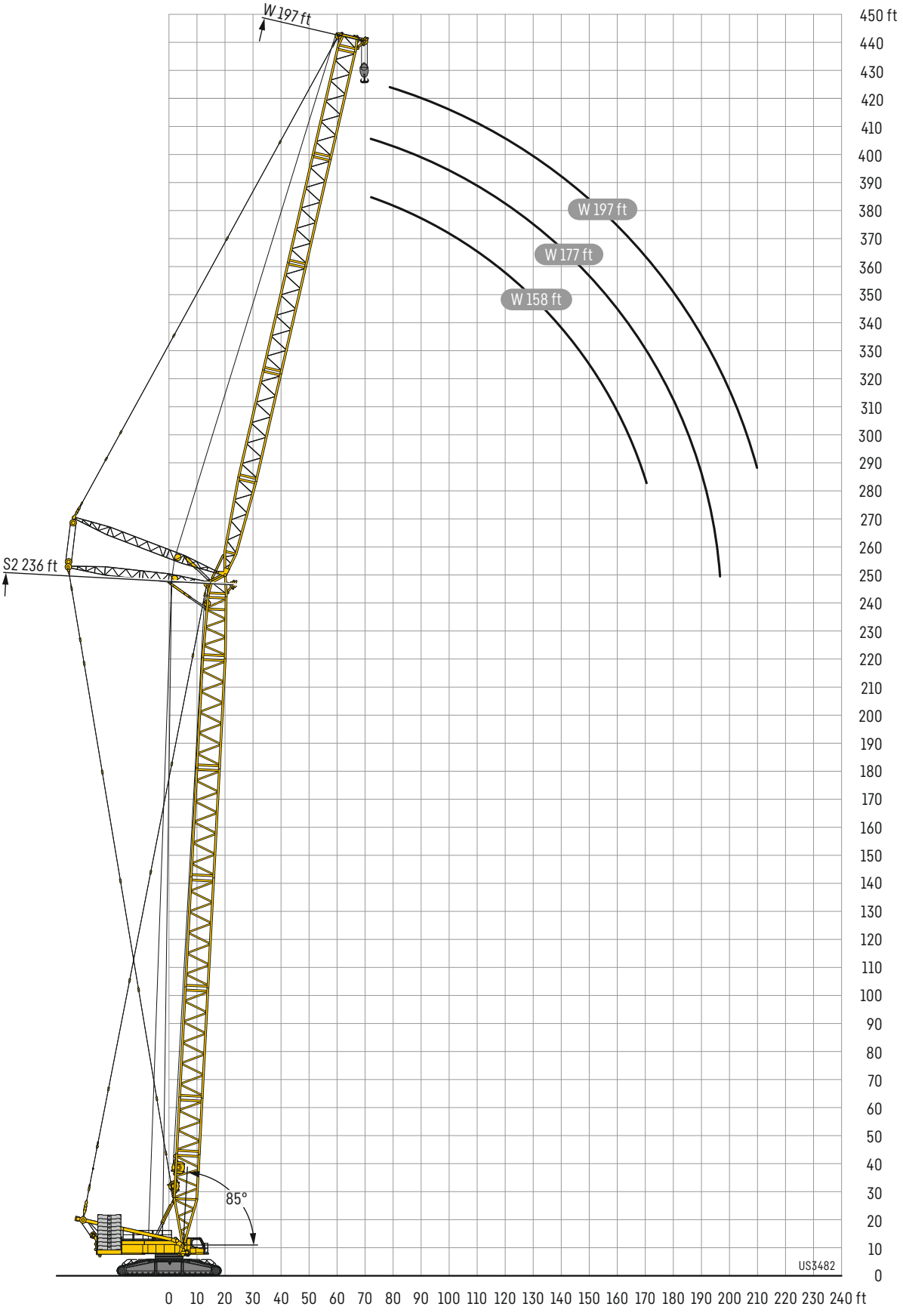
Lifting heights
Hauteurs de levage

S2W



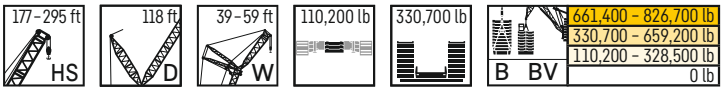
Lifting heights
Hauteurs de levage

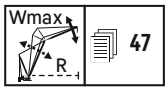
S2W



HSDWB/BV

HS 177 – 295





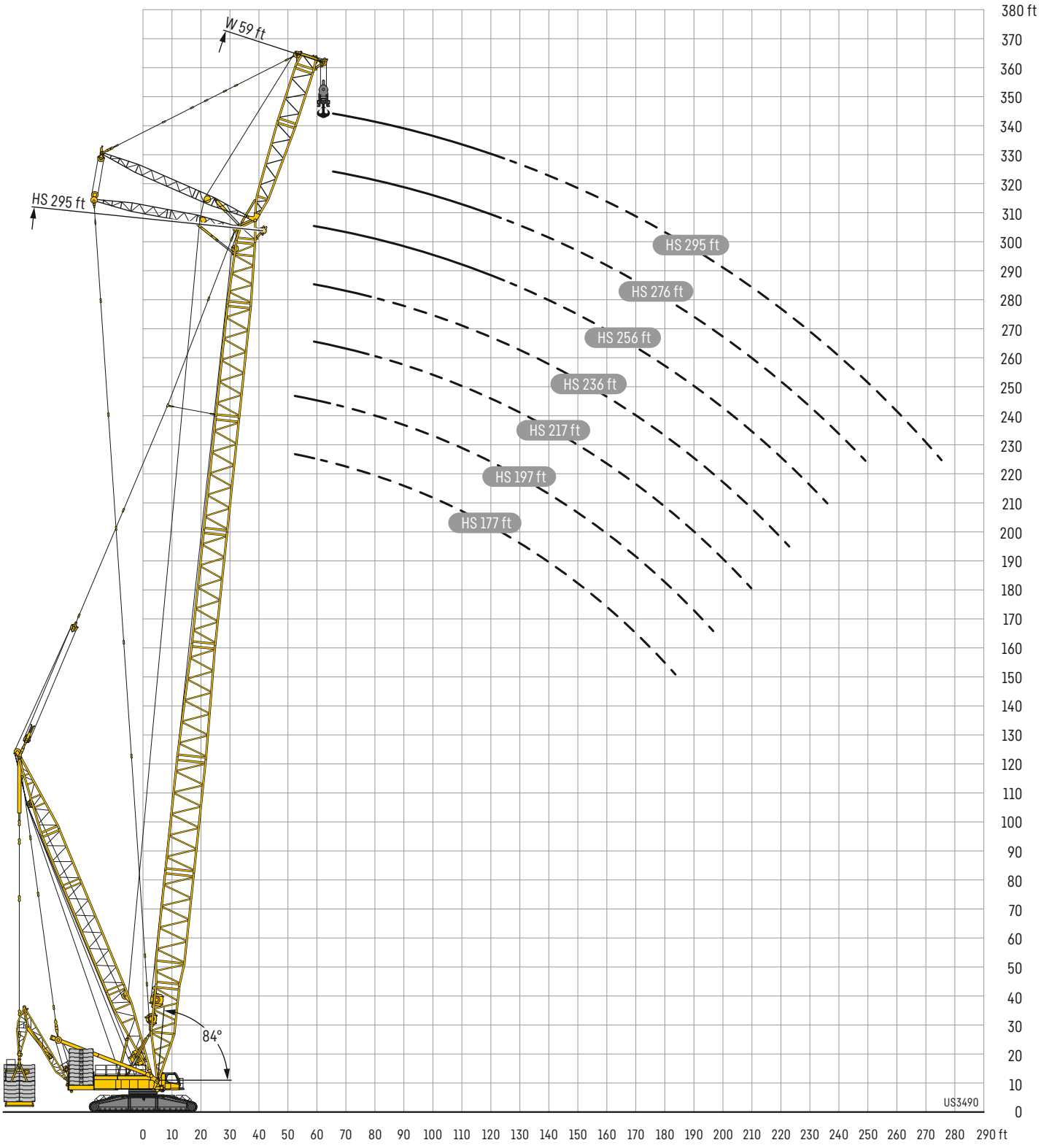
HS 177 – 295 ft

ft		HS 177 ft				HS 197 ft				HS 217 ft				HS 236 ft				HS 256 ft				HS 276 ft				HS 295 ft	
		W 39 ft		W 59 ft		W 39 ft		W 59 ft		W 39 ft		W 59 ft		W 39 ft		W 59 ft		W 39 ft		W 59 ft		W 39 ft		W 59 ft		W 59 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[1]	821.0	821.0[1]	949.0	972.0[1]			865.0	875.0[1]			782.0													
	BV	1032.0	1076.0[1]	826.0	826.0[1]	969.0	1001.0[1]			881.0	895.0[1]			797.0													
60	B		990.0[1]	846.0	849.0[3]		938.0[1]	795.0	799.0[2]		855.0[1]	732.0	753.0[1]		777.0[1]	664.0	682.0[1]	659.0	695.0[1]	605.0	612.0[1]	599.0	620.0[1]	549.0			
	BV		1059.0[1]	860.0	865.0[3]		994.0[1]	800.0	811.0[2]		894.0[1]	743.0	762.0[1]		796.0[1]	677.0	695.0[2]	671.0	711.0[1]	616.0	623.0[1]	609.0	633.0[1]	558.0				
70	B		867.0[2]		844.0[2]		848.0[3]		808.0[1]		808.0[2]		757.0[1]		766.0[1]	613.0	679.0[1]		690.0[1]	564.0	608.0[1]		616.0[1]	514.0	542.0[1]	470.0	489.0[1]
	BV		939.0[3]		879.0[2]		920.0[3]		813.0[2]		864.0[2]		769.0[1]		789.0[1]	627.0	692.0[1]		709.0[1]	574.0	621.0[1]		632.0[1]	523.0	556.0[1]	476.0	498.0[1]
80	B		756.0[4]		755.0[3]		749.0[4]		739.0[5]		733.0[4]		713.0[2]		710.0[4]		660.0[1]		655.0[3]		604.0[1]		601.0[1]		538.0[1]		485.0[1]
	BV		830.0[1]		827.0[3]		821.0[4]		785.0[3]		789.0[3]		738.0[1]		741.0[1]		680.0[1]		687.0[1]		620.0[1]		624.0[1]		554.0[1]		498.0[1]
90	B		675.0[1]		671.0[4]		663.0[1]		662.0[4]		650.0[4]		649.0[4]		640.0[4]		612.0[4]		608.0[1]		572.0[1]		571.0[1]		524.0[1]		479.0[1]
	BV		747.0[1]		735.0[3]		733.0[1]		718.0[4]		715.0[1]		690.0[1]		693.0[1]		650.0[1]		657.0[1]		603.0[1]		610.0[1]		547.0[1]		498.0[1]
100	B		602.0[4]		602.0[1]		596.0[1]		592.0[1]		588.0[1]		584.0[4]		576.0[1]		563.0[4]		562.0[1]		540.0[1]		541.0[1]		506.0[1]		470.0[1]
	BV		667.0[4]		667.0[1]		661.0[1]		655.0[1]		652.0[1]		640.0[1]		639.0[1]		620.0[1]		623.0[1]		586.0[1]		595.0[1]		536.0[1]		497.0[1]
110	B		534.0[4]		543.0[3]		535.0[4]		537.0[2]		530.0[3]		528.0[1]		524.0[1]		518.0[1]		516.0[1]		505.0[1]		503.0[1]		487.0[1]		460.0[1]
	BV		594.0[4]		602.0[3]		594.0[4]		595.0[1]		589.0[2]		587.0[1]		582.0[1]		574.0[1]		573.0[1]		560.0[1]		558.0[1]		525.0[1]		496.0[1]
120	B		473.0[1]		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[1]		461.0[1]		454.0[1]		443.0[1]
	BV		528.0[1]		544.0[4]		530.0[4]		541.0[4]		532.0[4]		535.0[3]		529.0[4]		527.0[1]		523.0[2]		518.0[1]		513.0[1]		495.0[2]		484.0[1]
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[3]		422.0[4]		419.0[2]		411.0[1]
	BV		483.0[4]		488.0[4]		476.0[1]		490.0[4]		475.0[4]		488.0[4]		478.0[4]		483.0[4]		477.0[4]		476.0[3]		469.0[1]		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[1]		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[4]		386.0[4]		401.0[4]		388.0[4]		392.0[4]		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[1]		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°

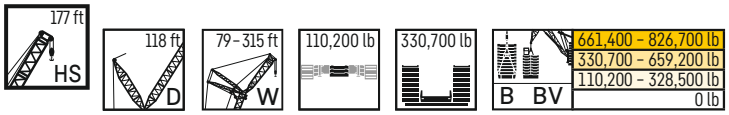
Lifting heights
Hauteurs de levage

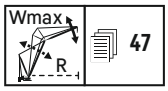
HSDWB/BV



HSDWB/BV

HS 177





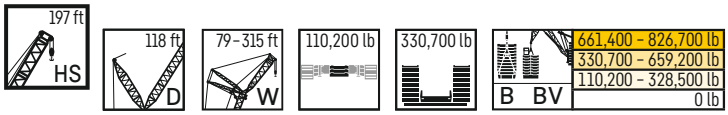
HS 177 ft

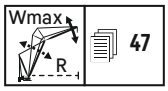
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
45	B	783.0*	800.0[1]																								
	BV																										
50	B	747.0*	805.0[1]	677.0*	682.0[1]																						
	BV																										
60	B	752.0	798.0[1]	684.0	691.0[1]	572.0*	597.0[1]	507.0*	509.0[1]																		
	BV	756.0	810.0[1]	688.0	696.0[1]																						
70	B	689.0	788.0[1]	637.0	692.0[1]	583.0	597.0[1]	512.0	512.0	433.0*	442.0[1]	378.0*	379.0[1]	325.0*	325.0*												
	BV	694.0	812.0[1]	640.0	699.0[1]	585.0	603.0[1]	517.0	517.0																		
80	B	624.0	741.0[2]	591.0	693.0[1]	547.0	596.0[1]	499.0	499.0	440.0	440.0	380.0	380.0	313.0*	318.0[1]	276.0*	277.0[1]	234.0*	234.0*								
	BV	629.0	779.0[2]	593.0	703.0[1]	550.0	603.0[1]	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[1]	472.0	499.0[2]	428.0	431.0[2]	368.0	368.0	311.0	311.0	276.0	276.0	228.0*	230.0[1]	197.0*	197.0[1]	169.0*	169.0*				
	BV	528.0	719.0[3]	547.0	670.0[2]	516.0	599.0[1]	475.0	504.0[2]	432.0	436.0[2]	371.0	371.0	313.0	313.0	278.0	278.0										
100	B	411.0	599.0[4]	470.0	592.0[3]	473.0	566.0[2]	442.0	499.0[2]	408.0	427.0[2]	350.0	356.0[2]	296.0	296.0	271.0	271.0	227.0	227.0	195.0	195.0[1]	165.0*	166.0[1]	142.0*	142.0[1]	121.0*	121.0*
	BV	411.0	656.0[1]	471.0	633.0[1]	477.0	583.0[2]	447.0	508.0[2]	412.0	432.0[2]	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[1]	391.0	538.0[4]	416.0	531.0[3]	416.0	489.0[2]	386.0	423.0[2]	333.0	350.0[2]	283.0	289.0[2]	266.0	266.0[2]	224.0	224.0	192.0	192.0	164.0	164.0	139.0	140.0[1]	118.0*	119.0[1]
	BV		600.0[1]	391.0	590.0[1]	415.0	556.0[2]	417.0	505.0[2]	391.0	429.0[2]	337.0	355.0[2]	286.0	292.0[2]	269.0	269.0[2]	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[1]	362.0	496.0[1]	369.0	463.0[2]	362.0	416.0[2]	315.0	345.0[2]	270.0	284.0[2]	261.0	264.0[2]	220.0	221.0[2]	189.0	189.0	162.0	162.0	139.0	139.0	118.0	118.0[1]
	BV		546.0[3]	304.0	543.0[1]	362.0	530.0[2]	369.0	490.0[2]	364.0	423.0[2]	319.0	349.0[2]	272.0	287.0[2]	263.0	267.0[2]	222.0	223.0[2]	190.0	190.0	163.0	163.0	139.0	139.0	118.0	118.0
130	B		450.0[5]		448.0[3]	307.0	465.0[1]	324.0	436.0[2]	325.0	406.0[2]	298.0	338.0[2]	257.0	279.0[2]	255.0	263.0[2]	217.0	220.0[2]	186.0	187.0[2]	160.0	160.0	136.0	136.0	116.0	116.0
	BV		500.0[5]		498.0[2]	308.0	495.0[2]	324.0	476.0[2]	325.0	413.0[2]	302.0	342.0[2]	259.0	282.0[2]	258.0	266.0[2]	219.0	222.0[2]	187.0	188.0[2]	161.0	161.0	137.0	137.0	116.0	116.0
140	B		414.0[9]		413.0[5]	243.0	435.0[1]	289.0	408.0[2]	288.0	397.0[2]	282.0	330.0[2]	243.0	273.0[2]	250.0	261.0[2]	214.0	219.0[2]	183.0	185.0[2]	157.0	158.0[2]	134.0	134.0[2]	114.0	114.0
	BV		457.0[5]		459.0[4]	243.0	458.0[2]	289.0	449.0[2]	288.0	403.0[2]	285.0	334.0[2]	245.0	276.0[2]	253.0	264.0[2]	216.0	221.0[2]	184.0	187.0[2]	158.0	159.0[2]	135.0	135.0[2]	114.0	114.0
150	B		379.0[10]		382.0[7]		404.0[1]	248.0	379.0[2]	260.0	375.0[2]	261.0	322.0[2]	228.0	266.0[2]	245.0	258.0[2]	211.0	218.0[2]	180.0	184.0[2]	155.0	157.0[2]	132.0	133.0[2]	112.0	112.0[2]
	BV		417.0[6]		422.0[4]		426.0[2]	248.0	419.0[2]	260.0	386.0[2]	262.0	327.0[2]	230.0	269.0[2]	247.0	261.0[2]	212.0	220.0[2]	181.0	185.0[2]	156.0	158.0[2]	133.0	134.0[2]	112.0	113.0[2]
160	B		345.0[10]		353.0[7]		373.0[1]	198.0	353.0[3]	228.0	350.0[2]	239.0	310.0[2]	215.0	259.0[2]	237.0	255.0[3]	207.0	215.0[2]	177.0	182.0[2]	152.0	155.0[2]	130.0	131.0[2]	110.0	111.0[2]
	BV		383.0[9]		388.0[5]		397.0[1]	199.0	389.0[2]	228.0	367.0[2]	239.0	318.0[2]	216.0	262.0[2]	239.0	259.0[3]	209.0	217.0[2]	178.0	184.0[2]	153.0	156.0[2]	131.0	132.0[2]	110.0	111.0[2]
170	B		317.0[8]		323.0[7]		342.0[1]		327.0[4]	197.0	325.0[2]	214.0	296.0[2]	203.0	252.0[2]	218.0	251.0[2]	203.0	214.0[3]	174.0	180.0[2]	150.0	153.0[2]	128.0	130.0[2]	108.0	109.0[2]
	BV		357.0[8]		356.0[6]		369.0[1]		359.0[2]	197.0	347.0[2]	214.0	309.0[2]	204.0	255.0[2]	218.0	255.0[2]	205.0	216.0[3]	176.0	182.0[2]	151.0	155.0[2]	129.0	131.0[2]	109.0	110.0[2]
180	B		293.0[8]		297.0[9]		311.0[1]		303.0[4]	156.0	302.0[3]	190.0	282.0[3]	193.0	245.0[2]	198.0	246.0[3]	197.0	212.0[3]	172.0	179.0[3]	148.0	152.0[3]	126.0	128.0[2]	106.0	108.0[2]
	BV		330.0[8]		334.0[8]		340.0[1]		331.0[3]	156.0	327.0[2]	190.0	300.0[2]	194.0	247.0[2]	198.0	249.0[2]	198.0	214.0[3]	173.0	181.0[3]	149.0	153.0[3]	127.0	129.0[2]	107.0	108.0[2]
190	B		267.0[6]		276.0[8]		280.0[1]		280.0[5]		281.0[3]	165.0	268.0[3]	178.0	237.0[2]	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[2]
	BV		303.0[6]		312.0[8]		313.0[6]		310.0[3]		308.0[2]	165.0	291.0[2]	178.0	240.0[2]	182.0	243.0[2]	184.0	212.0[3]	171.0	179.0[3]	147.0	152.0[3]	125.0	128.0[3]	105.0	107.0[2]
200	B		249.0[6]		256.0[8]		263.0[8]		261.0[5]		261.0[4]	131.0	255.0[3]	159.0	230.0[2]	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]
	BV		283.0[6]		290.0[8]		295.0[7]		293.0[4]		290.0[3]	131.0	282.0[2]	159.0	232.0[2]	167.0	236.0[2]	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[6]		228.0[8]		232.0[8]		231.0[5]		228.0[4]	109.0	215.0[2]	134.0	216.0[2]	143.0	197.0[2]	142.0	171.0[4]	137.0	146.0[4]	118.0	123.0[4]	98.7	102.0[3]
	BV				250.0[6]		258.0[8]		259.0[5]		258.0[3]		256.0[2]	109.0	217.0[2]	134.0	223.0[2]	143.0	198.0[2]	142.0	173.0[4]	137.0	148.0[4]	119.0	124.0[4]	99.3	103.0[3]
240	B						196.0[6]		202.0[8]		207.0[7]		205.0[5]		195.0[3]		199.0[2]	116.0	190.0[2]	121.0	163.0[3]	119.0	143.0[4]	114.0	120.0[4]	95.1	99.3[4]
	BV						224.0[6]		227.0[6]		227.0[4]		226.0[2]		204.0[2]		209.0[2]	116.0	191.0[2]	121.0	164.0[3]	119.0	144.0[4]	115.0	121.0[4]	95.7	99.9[4]
260	B								175.0[6]		181.0[8]		182.0[4]		175.0[4]		178.0[3]		175.0[2]	97.5	156.0[3]	102.0	136.0[4]	102.0	117.0[4]	92.0	96.8[4]
	BV								201.0[6]		204.0[6]		201.0[3]		191.0[2]		193.0[2]		180.0[2]	97.5	157.0[2]	101.0	137.0[3]	102.0	118.0[4]	92.7	97.4[4]
280	B										157.0[6]		161.0[7]		158.0[5]		158.0[3]		156.0[3]		148.0[3]	81.6	131.0[3]	86.0	113.0[4]	85.8	94.9[5]
	BV										181.0[6]		183.0[6]		177.0[3]		176.0[2]		168.0[2]		149.0[2]	81.8	132.0[3]	85.9	113.0[4]	86.0	95.6[5]
300	B												141.0[7]		143.0[7]		141.0[4]		140.0[3]		135.0[3]		124.0[3]	68.8	108.0[4]	71.7	91.7[4]
	BV												163.0[6]		161.0[4]		159.0[2]		155.0[2]		141.0[2]		125.0[3]	68.9	109.0[3]	71.7	92.4[4]
320	B														127.0[7]		128.0[7]		126.0[4]		123.0[3]		116.0[3]		104.0[4]	56.0	89.2[4]
	BV														145.0[5]		143.0[5]		141.0[2]		133.0[2]		118.0[2]		104.0[4]	55.9	89.9[4]
340	B																113.0[7]		116.0[7]		112.0[4]		108.0[3]		98.1[3]		86.0[4]
	BV																129.0[4]		128.0[2]		123.0[2]		112.0[2]		98.5[3]		86.7[4]
360	B																		102.0[7]		101.0[5]		96.9[3]		93.2[3]		80.8[4]
	BV																		117.0[4]		113.0[2]		105.0[2]		93.3[3]		81.3[4]
380	B																				89.0[7]		85.9[5]		83.6[3]		76.9[3]
	BV																				100.0[5]		98.0[2]		88.1[2]		77.5[3]
400	B																						76.3[6]		74.2[4]		69.5[4]
	BV																						85.5[5]		81.8[3]		72.9[3]
420	B																								66.2[6]		62.5[4]
	BV																								72.8[5]		68.3[3]
440	B																										56.0[5]
	BV																										60.6[5]

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

HSDWB/BV

HS 197





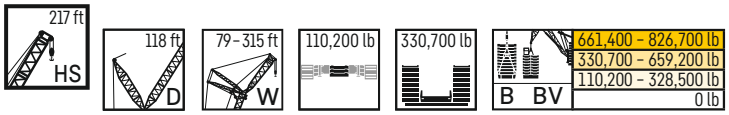
HS 197 ft

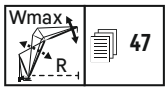
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
45	B	725.0*	734.0[1]																								
	BV																										
50	B	684.0*	736.0[1]	625.0*	631.0[1]																						
	BV																										
60	B	696.0	736.0[1]	633.0	637.0[1]	528.0*	549.0[1]	471.0*	472.0[1]																		
	BV	697.0	739.0[1]	634.0	638.0[1]																						
70	B	630.0	733.0[1]	590.0	635.0[1]	538.0	551.0[1]	477.0	477.0[1]	404.0*	412.0[1]	354.0*	355.0[1]														
	BV	641.0	739.0[1]	590.0	638.0[1]	539.0	556.0[1]	481.0	481.0																		
80	B	567.0	711.0[1]	546.0	632.0[1]	507.0	549.0[1]	461.0	461.0	412.0	412.0	358.0	358.0	297.0*	301.0[1]	262.0*	262.0[1]										
	BV	580.0	725.0[1]	549.0	638.0[1]	507.0	556.0[1]	461.0	461.0	415.0	415.0	360.0	360.0														
90	B	507.0	651.0[3]	494.0	607.0[1]	474.0	547.0[1]	436.0	456.0[2]	398.0	400.0[2]	349.0	349.0	296.0	296.0	256.0*	260.0[1]	218.0*	219.0[1]	187.0*	188.0[1]	161.0*	161.0*				
	BV	524.0	682.0[1]	507.0	625.0[1]	476.0	557.0[1]	438.0	458.0[2]	400.0	402.0[2]	352.0	352.0	298.0	298.0												
100	B	444.0	589.0[4]	441.0	569.0[3]	431.0	525.0[1]	409.0	455.0[2]	377.0	399.0[2]	333.0	337.0[2]	284.0	284.0	257.0	257.0	217.0	217.0	183.0*	186.0[1]	157.0*	159.0[1]	136.0*	136.0[1]	116.0*	116.0*
	BV	445.0	639.0[1]	456.0	602.0[1]	443.0	536.0[1]	412.0	460.0[2]	380.0	403.0[2]	338.0	342.0[2]	286.0	286.0	259.0	259.0	219.0	219.0								
110	B		536.0[6]	398.0	528.0[4]	394.0	498.0[1]	382.0	455.0[2]	359.0	399.0[2]	318.0	333.0[2]	272.0	276.0[2]	252.0	252.0	214.0	214.0	183.0	183.0	157.0	157.0[1]	133.0*	134.0[1]	113.0*	114.0[1]
	BV		589.0[1]	406.0	576.0[1]	407.0	519.0[2]	388.0	462.0[2]	361.0	404.0[2]	323.0	338.0[2]	275.0	279.0[2]	255.0	255.0	215.0	215.0	185.0	185.0	158.0	158.0				
120	B		485.0[6]	324.0	486.0[5]	362.0	471.0[1]	353.0	437.0[2]	340.0	397.0[2]	303.0	329.0[2]	260.0	273.0[2]	247.0	250.0[2]	211.0	211.0[2]	181.0	181.0	155.0	155.0	133.0	133.0	113.0	113.0[1]
	BV		539.0[1]	324.0	534.0[1]	371.0	505.0[2]	364.0	458.0[2]	343.0	404.0[2]	307.0	334.0[2]	263.0	276.0[2]	250.0	253.0[2]	212.0	213.0[2]	182.0	182.0	156.0	156.0	134.0	134.0	113.0	113.0
130	B		444.0[4]		443.0[5]	317.0	444.0[1]	326.0	419.0[2]	318.0	388.0[2]	289.0	325.0[2]	249.0	269.0[2]	242.0	249.0[2]	208.0	210.0[2]	178.0	179.0[2]	153.0	153.0	131.0	131.0	111.0	111.0
	BV		494.0[4]		491.0[1]	318.0	484.0[2]	331.0	455.0[2]	325.0	398.0[2]	292.0	330.0[2]	251.0	272.0[2]	245.0	252.0[2]	210.0	212.0[2]	180.0	180.0[2]	154.0	154.0	132.0	132.0	112.0	112.0
140	B		409.0[10]		407.0[4]	259.0	417.0[1]	296.0	399.0[2]	292.0	380.0[2]	274.0	318.0[2]	236.0	264.0[2]	237.0	248.0[2]	205.0	209.0[2]	176.0	178.0[2]	151.0	152.0[2]	129.0	129.0[2]	109.0	109.0
	BV		455.0[7]		453.0[3]	259.0	451.0[2]	296.0	443.0[2]	294.0	391.0[2]	277.0	323.0[2]	239.0	267.0[2]	240.0	251.0[2]	207.0	211.0[2]	177.0	179.0[2]	152.0	153.0[2]	130.0	130.0	110.0	110.0
150	B		377.0[10]		377.0[6]		390.0[1]	256.0	372.0[2]	266.0	367.0[2]	259.0	312.0[2]	223.0	259.0[2]	232.0	246.0[2]	202.0	209.0[2]	173.0	177.0[2]	149.0	150.0[2]	127.0	128.0[2]	108.0	108.0[2]
	BV		419.0[7]		420.0[5]		419.0[3]	256.0	415.0[2]	266.0	381.0[2]	262.0	317.0[2]	225.0	262.0[2]	235.0	250.0[2]	204.0	211.0[2]	174.0	178.0[2]	150.0	151.0[2]	128.0	129.0[2]	108.0	108.0[2]
160	B		345.0[10]		351.0[8]		363.0[1]	212.0	347.0[3]	234.0	344.0[2]	242.0	304.0[2]	212.0	253.0[2]	226.0	243.0[3]	199.0	207.0[2]	170.0	176.0[2]	146.0	149.0[2]	125.0	127.0[2]	106.0	106.0[2]
	BV		383.0[8]		389.0[6]		388.0[4]	212.0	386.0[2]	234.0	362.0[2]	243.0	310.0[2]	214.0	256.0[2]	227.0	247.0[3]	201.0	209.0[2]	172.0	177.0[2]	148.0	150.0[2]	126.0	127.0[2]	106.0	107.0[2]
170	B		313.0[10]		324.0[8]		336.0[1]		324.0[5]	203.0	322.0[3]	219.0	293.0[3]	200.0	247.0[2]	217.0	242.0[3]	196.0	206.0[3]	168.0	174.0[2]	144.0	148.0[2]	123.0	125.0[2]	104.0	105.0[2]
	BV		351.0[10]		359.0[6]		360.0[4]		358.0[2]	203.0	342.0[2]	219.0	301.0[2]	202.0	250.0[2]	218.0	246.0[3]	198.0	208.0[3]	169.0	176.0[2]	146.0	149.0[2]	124.0	126.0[2]	105.0	106.0[2]
180	B		290.0[8]		297.0[9]		310.0[1]		303.0[5]	167.0	301.0[3]	195.0	279.0[3]	191.0	241.0[2]	201.0	239.0[3]	193.0	205.0[3]	165.0	173.0[3]	142.0	146.0[3]	121.0	124.0[2]	102.0	104.0[2]
	BV		327.0[8]		330.0[7]		335.0[1]		332.0[3]	167.0	323.0[2]	194.0	291.0[2]	192.0	244.0[2]	202.0	243.0[3]	195.0	207.0[3]	167.0	174.0[3]	144.0	147.0[3]	122.0	125.0[2]	103.0	105.0[2]
190	B		267.0[8]		274.0[10]		283.0[1]		282.0[5]		281.0[4]	170.0	266.0[4]	179.0	234.0[2]	185.0	237.0[3]	185.0	203.0[3]	163.0	171.0[3]	140.0	146.0[3]	120.0	122.0[3]	101.0	103.0[2]
	BV		303.0[8]		308.0[10]		310.0[1]		307.0[3]		304.0[3]	170.0	282.0[2]	180.0	237.0[2]	185.0	241.0[3]	187.0	205.0[3]	164.0	173.0[3]	142.0	147.0[3]	121.0	123.0[3]	101.0	104.0[2]
200	B		245.0[8]		254.0[8]		259.0[8]		261.0[5]		262.0[4]	139.0	252.0[4]	164.0	228.0[2]	169.0	231.0[3]	172.0	202.0[3]	160.0	170.0[4]	138.0	144.0[3]	118.0	122.0[3]	99.1	101.0[3]
	BV		278.0[8]		287.0[8]		289.0[6]		287.0[4]		286.0[3]	140.0	272.0[2]	164.0	231.0[2]	170.0	236.0[3]	171.0	204.0[3]	162.0	172.0[4]	140.0	145.0[3]	119.0	123.0[3]	99.8	102.0[3]
220	B		211.0[6]		216.0[8]		225.0[8]		227.0[7]		227.0[5]		225.0[4]	119.0	215.0[2]	138.0	212.0[3]	146.0	196.0[4]	144.0	167.0[4]	134.0	142.0[4]	114.0	119.0[4]	95.4	99.2[3]
	BV		241.0[6]		247.0[8]		256.0[8]		256.0[7]		254.0[4]		251.0[2]	119.0	218.0[2]	138.0	221.0[2]	146.0	196.0[3]	144.0	169.0[4]	136.0	143.0[4]	115.0	120.0[4]	96.1	99.9[3]
240	B				187.0[6]		192.0[6]		200.0[8]		203.0[7]		200.0[5]		198.0[3]	99.1	193.0[3]	119.0	183.0[4]	123.0	162.0[4]	120.0	139.0[4]	110.0	117.0[4]	91.9	96.5[4]
	BV				215.0[6]		220.0[6]		228.0[8]		228.0[5]		225.0[3]		204.0[2]	99.0	212.0[2]	119.0	188.0[2]	123.0	164.0[4]	120.0	141.0[4]	111.0	118.0[4]	92.7	97.3[4]
260	B						167.0[6]		171.0[6]		179.0[8]		181.0[7]		179.0[5]		175.0[4]	84.9	172.0[2]	99.9	156.0[3]	104.0	135.0[4]	103.0	115.0[5]	88.9	94.2[4]
	BV						193.0[6]		197.0[6]		201.0[6]		201.0[4]		189.0[2]		193.0[2]	84.9	180.0[2]	99.9	157.0[3]	103.0	136.0[4]	103.0	116.0[5]	89.7	95.0[4]
280	B								149.0[6]		154.0[6]		160.0[8]		161.0[7]		159.0[5]		158.0[4]	70.6	151.0[3]	83.8	129.0[3]	87.8	113.0[5]	85.7	92.4[5]
	BV								173.0[6]		178.0[6]		178.0[5]		174.0[2]		173.0[2]		167.0[2]	70.6	152.0[3]	83.8	130.0[3]	87.6	114.0[5]	86.0	93.2[5]
300	B										134.0[6]		138.0[7]		143.0[7]		141.0[5]		141.0[4]		137.0[3]	57.9	124.0[3]	70.7	108.0[4]	73.2	90.6[6]
	BV										157.0[6]		161.0[7]		160.0[4]		156.0[3]		154.0[2]		143.0[3]	57.9	125.0[3]	70.7	109.0[4]	73.2	91.2[6]
320	B												120.0[7]		125.0[7]		125.0[7]		125.0[5]		122.0[4]		115.0[4]	46.5	105.0[4]	57.7	87.5[6]
	BV												142.0[7]		146.0[7]		143.0[5]		141.0[3]		135.0[2]		119.0[3]	46.5	105.0[4]	57.6	87.9[4]
340	B														108.0[7]		110.0[7]		112.0[6]		108.0[4]		105.0[4]		98.9[4]		84.8[4]
	BV														129.0[7]		129.0[6]		129.0[4]		124.0[3]		113.0[3]		100.0[4]		85.5[4]
360	B																95.5[7]		99.8[7]		98.1[6]		94.5[4]		91.0[4]		80.6[5]
	BV																114.0[7]		115.0[5]		112.0[3]		106.0[3]		94.8[3]		81.8[4]
380	B																		85.8[7]		87.8[7]		85.7[6]		83.0[4]		75.7[4]
	BV																		103.0[7]		99.9[4]		96.1[3]		89.9[3]		77.7[4]
400	B																				74.4[7]		76.4[7]		75.2[6]		71.0[4]
	BV																				90.5[6]		86.6[4]		83.2[3]		73.7[3]
420	B																						63.7[7]		66.6[7]		63.9[6]
	BV																						79.5[6]		76.5[3]		70.1[3]
440	B																								54.9[7]		55.4[7]
	BV																								70.4[6]		66.6[3]
460	B																										45.5[7]
	BV																										58.9[6]

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

HSDWB/BV

HS 217





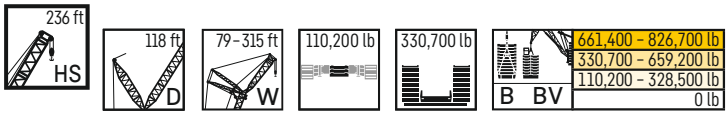
HS 217 ft

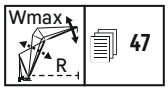
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
45	B	667.0*	668.0[1]																								
	BV																										
50	B	639.0*	669.0[1]	581.0*	581.0[1]																						
	BV																										
60	B	647.0	670.0[1]	588.0	588.0	491.0*	509.0[1]	440.0*	440.0*																		
	BV	647.0	674.0[1]	588.0	588.0																						
70	B	596.0	667.0[1]	550.0	581.0[1]	501.0	510.0[1]	448.0	448.0	378.0*	385.0[1]	333.0*	333.0*														
	BV	597.0	671.0[1]	549.0	583.0[1]	501.0	511.0[1]	452.0	452.0																		
80	B	538.0	664.0[1]	513.0	577.0[1]	472.0	506.0[1]	430.0	430.0[1]	386.0	386.0	325.0*	335.0[1]	282.0*	286.0[1]	249.0*	249.0*										
	BV	550.0	667.0[1]	511.0	581.0[1]	472.0	509.0[1]	430.0	433.0[1]	388.0	388.0																
90	B	488.0	617.0[2]	470.0	566.0[1]	443.0	502.0[1]	407.0	421.0[2]	371.0	371.0	330.0	330.0	282.0	282.0	243.0*	247.0[1]	208.0*	209.0[1]	179.0*	179.0*						
	BV	502.0	640.0[1]	475.0	576.0[1]	443.0	507.0[1]	408.0	422.0[2]	372.0	372.0	334.0	334.0	285.0	285.0												
100	B	437.0	572.0[4]	425.0	536.0[1]	410.0	488.0[1]	382.0	420.0[2]	351.0	369.0[2]	318.0	320.0[2]	272.0	272.0	244.0	244.0	208.0	208.0[1]	175.0*	178.0[1]	151.0*	152.0[1]	130.0*	130.0*		
	BV	452.0	612.0[1]	439.0	564.0[1]	413.0	496.0[1]	384.0	423.0[2]	353.0	371.0[2]	320.0	322.0[2]	274.0	274.0	246.0	246.0	209.0	209.0								
110	B		527.0[6]	389.0	505.0[1]	378.0	466.0[2]	361.0	419.0[2]	334.0	368.0[2]	304.0	317.0[2]	261.0	264.0[2]	240.0	240.0	205.0	205.0	176.0	176.0	151.0	151.0[1]	127.0*	129.0[1]	109.0*	109.0[1]
	BV		576.0[1]	401.0	551.0[1]	387.0	480.0[2]	362.0	423.0[2]	335.0	371.0[2]	307.0	320.0[2]	264.0	267.0[2]	242.0	242.0	206.0	206.0	177.0	177.0	151.0	151.0				
120	B		483.0[7]	342.0	472.0[1]	349.0	446.0[2]	339.0	411.0[2]	318.0	368.0[2]	292.0	314.0[2]	251.0	261.0[2]	235.0	238.0[2]	202.0	202.0[2]	174.0	174.0	149.0	149.0	128.0	128.0	108.0	108.0[1]
	BV		531.0[1]	343.0	523.0[1]	360.0	475.0[2]	342.0	422.0[2]	319.0	372.0[2]	294.0	318.0[2]	254.0	264.0[2]	238.0	240.0[2]	204.0	204.0	175.0	175.0	150.0	150.0	128.0	128.0	109.0	109.0
130	B		441.0[8]		436.0[6]	322.0	426.0[2]	315.0	399.0[2]	302.0	364.0[2]	279.0	311.0[2]	240.0	258.0[2]	230.0	237.0[2]	199.0	201.0[2]	171.0	172.0[2]	147.0	147.0	126.0	126.0	107.0	107.0
	BV		487.0[3]		485.0[1]	326.0	469.0[2]	323.0	420.0[2]	303.0	371.0[2]	282.0	316.0[2]	243.0	262.0[2]	233.0	240.0[2]	201.0	203.0[2]	173.0	173.0[2]	148.0	148.0	127.0	127.0	107.0	107.0
140	B		404.0[5]		403.0[7]	272.0	399.0[2]	293.0	388.0[2]	284.0	359.0[2]	266.0	306.0[2]	229.0	255.0[2]	225.0	236.0[2]	196.0	200.0[2]	169.0	171.0[2]	145.0	145.0[2]	124.0	124.0[2]	105.0	105.0
	BV		450.0[5]		448.0[2]	272.0	443.0[2]	302.0	418.0[2]	288.0	369.0[2]	269.0	311.0[2]	231.0	259.0[2]	226.0	239.0[2]	198.0	203.0[2]	170.0	172.0[2]	146.0	147.0[2]	125.0	125.0	106.0	106.0
150	B		373.0[10]		372.0[5]		373.0[1]	264.0	366.0[2]	265.0	354.0[2]	253.0	301.0[2]	218.0	251.0[2]	219.0	235.0[2]	193.0	200.0[2]	166.0	170.0[2]	143.0	145.0[2]	122.0	123.0[2]	104.0	104.0[2]
	BV		417.0[9]		415.0[4]		413.0[2]	265.0	401.0[3]	270.0	367.0[2]	256.0	306.0[2]	220.0	254.0[2]	219.0	239.0[2]	195.0	202.0[2]	168.0	172.0[2]	144.0	146.0[2]	123.0	124.0[2]	104.0	104.0[2]
160	B		344.0[10]		347.0[9]		349.0[1]	222.0	342.0[3]	239.0	337.0[2]	240.0	296.0[2]	207.0	246.0[2]	211.0	232.0[2]	190.0	199.0[2]	164.0	169.0[2]	141.0	144.0[2]	120.0	122.0[2]	102.0	103.0[2]
	BV		385.0[9]		387.0[7]		385.0[4]	222.0	380.0[3]	240.0	355.0[3]	243.0	301.0[2]	209.0	249.0[2]	212.0	236.0[2]	192.0	202.0[2]	165.0	171.0[2]	142.0	145.0[2]	121.0	123.0[2]	103.0	103.0[2]
170	B		314.0[10]		323.0[9]		326.0[1]		320.0[5]	209.0	316.0[3]	222.0	285.0[3]	197.0	241.0[2]	204.0	231.0[3]	187.0	197.0[3]	161.0	168.0[2]	139.0	143.0[2]	119.0	121.0[2]	100.0	101.0[2]
	BV		353.0[10]		359.0[7]		360.0[5]		356.0[3]	208.0	342.0[3]	223.0	293.0[2]	199.0	245.0[2]	204.0	235.0[3]	188.0	200.0[3]	163.0	170.0[2]	140.0	144.0[2]	120.0	122.0[2]	101.0	102.0[2]
180	B		286.0[8]		298.0[10]		303.0[1]		300.0[6]	175.0	297.0[4]	199.0	277.0[3]	189.0	235.0[2]	197.0	229.0[3]	183.0	197.0[3]	159.0	166.0[3]	137.0	141.0[2]	117.0	120.0[2]	98.7	100.0[2]
	BV		322.0[8]		332.0[7]		335.0[5]		333.0[4]	175.0	323.0[3]	199.0	283.0[3]	190.0	239.0[2]	197.0	233.0[3]	183.0	200.0[3]	161.0	168.0[3]	138.0	143.0[2]	118.0	121.0[2]	99.5	101.0[2]
190	B		265.0[8]		274.0[10]		281.0[8]		281.0[6]		278.0[4]	175.0	266.0[4]	178.0	228.0[2]	187.0	228.0[3]	177.0	196.0[3]	157.0	166.0[3]	135.0	140.0[3]	115.0	118.0[2]	97.2	99.3[2]
	BV		300.0[8]		306.0[8]		310.0[6]		311.0[4]		304.0[3]	174.0	273.0[2]	180.0	234.0[2]	187.0	231.0[3]	177.0	198.0[3]	158.0	168.0[3]	136.0	142.0[3]	116.0	119.0[2]	98.0	100.0[2]
200	B		245.0[8]		251.0[8]		261.0[8]		262.0[6]		260.0[5]	147.0	252.0[4]	166.0	221.0[2]	172.0	225.0[3]	171.0	195.0[3]	154.0	164.0[3]	133.0	140.0[3]	114.0	117.0[3]	95.7	97.9[2]
	BV		278.0[8]		284.0[8]		288.0[6]		289.0[4]		285.0[3]	147.0	263.0[2]	167.0	228.0[2]	172.0	229.0[3]	171.0	197.0[3]	156.0	166.0[3]	134.0	141.0[3]	115.0	119.0[3]	96.5	98.7[2]
220	B		208.0[6]		216.0[8]		223.0[8]		227.0[7]		227.0[5]		224.0[4]	125.0	207.0[2]	141.0	211.0[4]	148.0	191.0[4]	144.0	162.0[4]	129.0	137.0[4]	110.0	115.0[3]	92.2	96.2[3]
	BV		239.0[6]		247.0[8]		253.0[8]		252.0[6]		250.0[4]		244.0[2]	125.0	217.0[2]	141.0	217.0[3]	148.0	194.0[4]	144.0	164.0[4]	130.0	139.0[4]	111.0	116.0[3]	93.0	97.1[3]
240	B		178.0[6]		185.0[6]		193.0[8]		198.0[8]		198.0[7]		198.0[5]		191.0[2]	104.0	191.0[4]	121.0	181.0[4]	125.0	160.0[4]	121.0	135.0[4]	106.0	113.0[4]	88.8	93.7[4]
	BV		207.0[6]		213.0[6]		221.0[8]		226.0[8]		224.0[6]		221.0[4]		204.0[2]	104.0	206.0[2]	121.0	186.0[3]	125.0	162.0[4]	121.0	137.0[4]	108.0	114.0[4]	89.6	94.5[4]
260	B				159.0[6]		165.0[6]		172.0[8]		176.0[8]		176.0[7]		174.0[4]		172.0[4]	89.6	167.0[4]	102.0	152.0[4]	105.0	132.0[4]	102.0	111.0[5]	85.9	91.7[4]
	BV				185.0[6]		191.0[6]		198.0[8]		201.0[7]		200.0[6]		188.0[5]		193.0[3]	89.4	179.0[3]	102.0	155.0[3]	105.0	133.0[4]	103.0	112.0[5]	86.7	92.5[4]
280	B								147.0[6]		154.0[8]		159.0[9]		158.0[6]		154.0[5]		153.0[4]	74.6	144.0[3]	85.7	128.0[4]	88.7	110.0[5]	83.3	89.9[5]
	BV								172.0[6]		177.0[8]		179.0[6]		171.0[4]		175.0[3]		171.0[3]	74.6	150.0[3]	85.7	129.0[4]	89.2	111.0[5]	84.2	90.8[5]
300	B										132.0[6]		138.0[9]		142.0[8]		141.0[7]		139.0[5]		134.0[4]	61.6	123.0[4]	72.3	106.0[4]	73.6	88.5[5]
	BV										154.0[6]		158.0[7]		155.0[5]		155.0[3]		155.0[3]		143.0[3]	61.6	124.0[4]	72.5	107.0[4]	73.8	89.4[6]
320	B												118.0[7]		124.0[9]		125.0[8]		126.0[6]		123.0[5]		119.0[4]	50.4	104.0[4]	59.2	87.1[6]
	BV												140.0[7]		142.0[7]		139.0[5]		139.0[3]		132.0[3]		119.0[4]	50.4	105.0[4]	59.2	87.9[6]
340	B														106.0[7]		109.0[8]		112.0[7]		109.0[5]		106.0[4]		99.8[4]	39.4	83.6[5]
	BV														127.0[7]		126.0[6]		125.0[4]		121.0[5]		113.0[4]		102.0[4]	39.4	84.3[5]
360	B																93.4[7]		98.0[8]		96.6[6]		93.5[5]		89.9[5]		81.2[5]
	BV																113.0[7]		115.0[6]		111.0[4]		106.0[3]		96.3[4]		81.8[5]
380	B																		83.7[7]		85.5[8]		82.4[6]		80.4[5]		75.3[5]
	BV																		102.0[7]		102.0[6]		98.3[4]		91.4[3]		78.2[4]
400	B																				72.5[7]		73.5[8]		71.2[6]		67.5[5]
	BV																				89.7[7]		87.3[5]		84.7[4]		75.2[4]
420	B																						61.7[7]		63.7[8]		60.0[6]
	BV																						77.0[7]		75.2[4]		70.8[4]
440	B																								52.8[7]		53.7[8]
	BV																								66.6[6]		63.4[4]
460	B																										43.5[7]
	BV																										56.4[5]

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

HSDWB/BV

HS 236





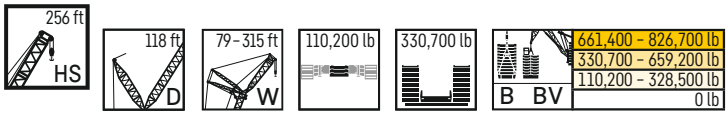
HS 236 ft

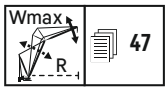
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
45	B	603.0*	603.0*																								
	BV																										
50	B	581.0*	600.0[1]	529.0*	529.0*																						
	BV																										
60	B	589.0	600.0[1]	491.0*	529.0[1]	451.0*	464.0[1]	406.0*	406.0*																		
	BV	596.0	609.0[1]																								
70	B	545.0	598.0[1]	507.0	526.0[1]	461.0	465.0[1]	386.0*	407.0[1]	350.0*	356.0[1]	310.0*	310.0*														
	BV	552.0	606.0[1]	506.0	528.0[1]	461.0	465.0[1]																				
80	B	495.0	596.0[1]	471.0	521.0[1]	436.0	460.0[1]	397.0	398.0[1]	358.0	358.0	302.0*	310.0[1]	265.0*	268.0[1]	234.0*	234.0*										
	BV	505.0	602.0[1]	472.0	525.0[1]	435.0	461.0[1]	396.0	399.0[1]	359.0	359.0[1]																
90	B	449.0	574.0[1]	430.0	516.0[1]	408.0	454.0[1]	375.0	385.0[2]	343.0	343.0	308.0	308.0	266.0	266.0	228.0*	232.0[1]	196.0*	197.0[1]	170.0*	170.0*						
	BV	462.0	591.0[1]	440.0	521.0[1]	409.0	458.0[1]	376.0	385.0[2]	344.0	347.0[1]	308.0	308.0	268.0	268.0												
100	B	406.0	540.0[1]	390.0	498.0[1]	375.0	447.0[1]	353.0	383.0[2]	325.0	338.0[2]	296.0	296.0[2]	257.0	257.0[1]	230.0	230.0	196.0	196.0[1]	166.0*	168.0[1]	143.0*	143.0[1]	123.0*	123.0*		
	BV	420.0	575.0[1]	403.0	514.0[1]	382.0	452.0[1]	353.0	384.0[2]	326.0	339.0[2]	295.0	295.0[2]	259.0	259.0	232.0	232.0	198.0	198.0								
110	B		506.0[1]	359.0	479.0[1]	347.0	430.0[2]	332.0	381.0[2]	310.0	337.0[2]	284.0	295.0[2]	248.0	249.0[2]	225.0	225.0	194.0	194.0	167.0	167.0	143.0	143.0[1]	121.0*	122.0[1]	103.0*	103.0[1]
	BV		560.0[1]	371.0	507.0[1]	357.0	435.0[2]	334.0	383.0[2]	310.0	339.0[2]	283.0	295.0[2]	250.0	252.0[2]	228.0	228.0	195.0	195.0	168.0	168.0	142.0	142.0				
120	B		471.0[8]	334.0	458.0[1]	323.0	418.0[2]	310.0	378.0[2]	295.0	336.0[2]	273.0	294.0[2]	238.0	247.0[2]	221.0	223.0[2]	191.0	191.0	165.0	165.0	141.0	141.0	121.0	121.0[1]	101.0*	102.0[1]
	BV		520.0[1]	344.0	497.0[1]	333.0	432.0[2]	316.0	382.0[2]	295.0	338.0[2]	271.0	296.0[2]	241.0	250.0[2]	223.0	226.0[2]	193.0	193.0	166.0	166.0	142.0	142.0	122.0	122.0		
130	B		438.0[10]		426.0[1]	300.0	405.0[2]	290.0	373.0[2]	279.0	335.0[2]	261.0	293.0[2]	229.0	245.0[2]	216.0	222.0[2]	188.0	190.0[2]	162.0	162.0[2]	139.0	139.0	120.0	120.0	102.0	102.0
	BV		480.0[1]		471.0[2]	309.0	429.0[2]	299.0	379.0[2]	281.0	337.0[2]	260.0	296.0[2]	232.0	248.0[2]	217.0	225.0[2]	190.0	192.0[2]	164.0	164.0[2]	140.0	140.0	120.0	120.0	102.0	102.0
140	B		401.0[10]		394.0[8]	281.0	389.0[2]	271.0	367.0[2]	263.0	332.0[2]	250.0	290.0[2]	219.0	243.0[2]	210.0	222.0[2]	185.0	190.0[2]	160.0	162.0[2]	138.0	138.0[2]	118.0	118.0	100.0	100.0
	BV		443.0[4]		439.0[2]	283.0	419.0[2]	279.0	377.0[2]	267.0	335.0[2]	248.0	294.0[2]	222.0	247.0[2]	210.0	225.0[2]	187.0	192.0[2]	162.0	163.0[2]	139.0	139.0[2]	119.0	119.0	101.0	101.0
150	B		368.0[10]		367.0[8]		363.0[2]	254.0	357.0[2]	246.0	329.0[2]	237.0	286.0[2]	210.0	240.0[2]	204.0	221.0[2]	182.0	189.0[2]	158.0	161.0[2]	136.0	137.0[2]	116.0	117.0[2]	98.6	98.6
	BV		410.0[10]		408.0[5]		402.0[5]	262.0	370.0[2]	253.0	333.0[2]	237.0	291.0[2]	212.0	243.0[2]	204.0	225.0[2]	184.0	192.0[2]	159.0	163.0[2]	137.0	138.0[2]	117.0	118.0[2]	99.3	99.3
160	B		341.0[10]		340.0[8]		338.0[4]	231.0	334.0[2]	231.0	323.0[2]	224.0	282.0[2]	200.0	236.0[2]	197.0	220.0[2]	179.0	189.0[2]	155.0	161.0[2]	134.0	136.0[2]	115.0	116.0[2]	97.1	97.6[2]
	BV		381.0[10]		380.0[6]		377.0[4]	231.0	359.0[3]	237.0	328.0[2]	226.0	287.0[2]	203.0	239.0[2]	197.0	223.0[2]	179.0	191.0[2]	157.0	162.0[2]	135.0	138.0[2]	116.0	117.0[2]	97.8	98.3[2]
170	B		314.0[10]		318.0[10]		316.0[6]		313.0[4]	216.0	310.0[3]	210.0	276.0[2]	191.0	232.0[2]	190.0	218.0[3]	174.0	187.0[2]	153.0	160.0[2]	132.0	136.0[2]	113.0	115.0[2]	95.6	96.7[2]
	BV		352.0[10]		355.0[8]		353.0[4]		345.0[4]	216.0	321.0[3]	215.0	283.0[2]	193.0	235.0[2]	190.0	221.0[2]	174.0	190.0[2]	155.0	162.0[2]	133.0	137.0[2]	114.0	116.0[2]	96.3	97.5[2]
180	B		286.0[10]		295.0[10]		297.0[8]		294.0[5]	183.0	291.0[3]	198.0	270.0[3]	184.0	227.0[2]	183.0	216.0[3]	169.0	187.0[3]	151.0	158.0[2]	130.0	135.0[2]	111.0	114.0[2]	94.1	95.8[2]
	BV		323.0[10]		330.0[8]		329.0[6]		325.0[4]	183.0	312.0[4]	199.0	276.0[3]	186.0	231.0[2]	183.0	220.0[3]	169.0	190.0[3]	152.0	160.0[2]	131.0	136.0[2]	112.0	115.0[2]	94.8	96.6[2]
190	B		261.0[8]		273.0[10]		278.0[9]		277.0[7]		275.0[5]	181.0	260.0[4]	175.0	220.0[2]	174.0	215.0[3]	164.0	186.0[3]	148.0	158.0[3]	128.0	134.0[3]	110.0	113.0[2]	92.6	94.9[2]
	BV		296.0[8]		306.0[8]		308.0[6]		306.0[5]		296.0[4]	179.0	266.0[3]	177.0	226.0[2]	176.0	219.0[3]	163.0	189.0[3]	148.0	160.0[3]	129.0	135.0[3]	111.0	114.0[2]	93.4	95.8[2]
200	B		243.0[8]		250.0[10]		259.0[9]		260.0[7]		259.0[6]	154.0	249.0[4]	166.0	213.0[3]	164.0	214.0[3]	158.0	185.0[3]	144.0	157.0[3]	126.0	133.0[3]	108.0	112.0[3]	91.1	93.8[2]
	BV		276.0[8]		282.0[9]		287.0[7]		287.0[5]		280.0[4]	153.0	256.0[4]	167.0	221.0[2]	169.0	218.0[3]	158.0	188.0[3]	144.0	159.0[3]	127.0	135.0[3]	109.0	113.0[3]	92.0	94.7[2]
220	B		206.0[8]		213.0[8]		222.0[10]		227.0[8]		228.0[6]		225.0[5]	130.0	198.0[2]	145.0	209.0[4]	140.0	184.0[4]	133.0	155.0[4]	121.0	131.0[4]	105.0	110.0[3]	88.0	92.2[3]
	BV		236.0[8]		244.0[8]		248.0[8]		250.0[6]		249.0[5]		236.0[4]	130.0	212.0[2]	146.0	212.0[4]	144.0	186.0[4]	134.0	157.0[4]	120.0	133.0[4]	106.0	112.0[3]	88.9	93.1[3]
240	B		177.0[6]		182.0[8]		190.0[8]		195.0[9]		198.0[7]		199.0[6]		184.0[2]	111.0	190.0[5]	123.0	177.0[4]	118.0	153.0[4]	111.0	129.0[4]	101.0	109.0[4]	84.8	89.8[4]
	BV		205.0[6]		210.0[8]		218.0[8]		221.0[8]		220.0[5]		215.0[4]		202.0[2]	111.0	199.0[4]	124.0	182.0[4]	121.0	156.0[4]	113.0	131.0[4]	101.0	110.0[4]	85.7	90.7[4]
260	B				156.0[6]		163.0[8]		169.0[8]		174.0[9]		174.0[7]		167.0[4]		172.0[5]	93.8	164.0[5]	103.0	150.0[5]	98.1	128.0[5]	93.0	107.0[4]	81.8	88.2[4]
	BV				182.0[6]		189.0[8]		195.0[8]		199.0[8]		195.0[5]		190.0[3]		188.0[2]	93.8	174.0[3]	104.0	151.0[4]	102.0	130.0[5]	94.8	108.0[5]	82.8	89.2[4]
280	B						140.0[6]		145.0[8]		152.0[8]		156.0[9]		152.0[6]		153.0[5]		150.0[5]	78.4	139.0[5]	85.5	125.0[5]	82.1	106.0[5]	76.3	86.5[5]
	BV						164.0[6]		169.0[8]		176.0[8]		177.0[8]		173.0[5]		173.0[4]		168.0[3]	78.4	146.0[4]	87.4	127.0[5]	85.1	107.0[5]	78.3	87.5[5]
300	B								125.0[6]		130.0[8]		137.0[9]		140.0[9]		137.0[6]		135.0[5]		130.0[3]	64.6	118.0[5]	71.7	104.0[6]	67.1	85.4[5]
	BV								147.0[6]		153.0[8]		157.0[8]		157.0[7]		158.0[5]		156.0[4]		142.0[3]	64.6	123.0[4]	73.1	105.0[5]	69.8	86.4[5]
320	B										112.0[6]		117.0[9]		123.0[9]		125.0[9]		123.0[6]		119.0[5]		112.0[4]	53.1	100.0[6]	58.6	84.7[6]
	BV										133.0[6]		137.0[9]		140.0[7]		141.0[6]		140.0[4]		133.0[4]		120.0[4]	53.1	101.0[4]	59.5	85.7[6]
340	B												100.0[7]		105.0[9]		109.0[9]		112.0[9]		108.0[6]		105.0[5]		97.9[4]	41.7	82.1[5]
	BV												119.0[7]		124.0[9]		125.0[6]		124.0[5]		121.0[4]		113.0[4]		99.1[4]	41.7	82.8[5]
360	B														88.7[7]		93.0[9]		97.2[9]		98.1[8]		95.0[6]		93.1[5]		80.3[5]
	BV														108.0[7]		112.0[9]		111.0[6]		108.0[4]		103.0[4]		94.3[5]		80.9[5]
380	B																77.5[7]		82.6[9]		84.3[8]		83.9[8]		81.7[6]		76.8[5]
	BV																96.4[7]		101.0[9]		97.3[6]		93.7[4]		88.0[5]		78.6[5]
400	B																		67.8[7]		71.2[9]		71.9[8]		71.6[8]		68.3[6]
	BV																		86.1[7]		89.6[9]		85.1[5]		81.8[5]		74.3[5]
420	B																				57.2[7]		58.8[7]		61.5[9]		59.6[8]
	BV																				75.5[7]		77.1[7]		75.2[5]		70.6[4]
440	B																						47.3[7]		50.1[7]		51.0[9]
	BV																						65.5[7]		68.0[7]		64.9[5]
460	B																								39.3[7]		40.9[7]
	BV																								56.8[7]		56.9[7]
480	B																										31.4[7]
	BV																										47.1[7]

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

HSDWB/BV

HS 256





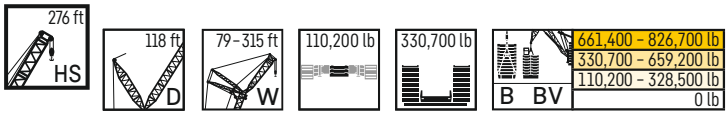
HS 256 ft

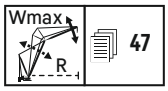
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	529.0*	540.0[1]																								
	BV																										
60	B	536.0	541.0[1]	452.0*	477.0[1]	415.0*	422.0[1]	376.0*	376.0*																		
	BV	544.0	548.0[1]																								
70	B	502.0	537.0[1]	463.0	475.0[1]	424.0	424.0[1]	357.0*	373.0[1]	323.0*	327.0[1]	288.0*	288.0*														
	BV	509.0	545.0[1]	466.0	480.0[1]	425.0	425.0[1]																				
80	B	463.0	533.0[1]	436.0	470.0[1]	402.0	419.0[1]	366.0	367.0[1]	330.0	330.0	279.0*	286.0[1]	247.0*	249.0[1]	218.0*	218.0*										
	BV	472.0	542.0[1]	437.0	475.0[1]	401.0	420.0[1]	366.0	368.0[1]	330.0	330																
90	B	421.0	525.0[1]	401.0	466.0[1]	378.0	413.0[1]	347.0	353.0[1]	316.0	316.0	284.0	284.0	249.0	249.0	213.0*	216.0[1]	184.0*	185.0[1]	160.0*	160.0*						
	BV	433.0	537.0[1]	408.0	470.0[1]	378.0	415.0[1]	347.0	355.0[1]	316.0	318.0[1]	285.0	285	251.0	251.0												
100	B	382.0	505.0[1]	366.0	458.0[1]	351.0	408.0[1]	327.0	350.0[2]	300.0	308.0[2]	273.0	273.0	241.0	241.0	215.0	215.0	180.0*	184.0[1]	156.0*	158.0[1]	134.0*	135.0[1]	116.0*	116.0*		
	BV	395.0	528.0[1]	377.0	464.0[1]	353.0	411.0[1]	327.0	350.0[2]	300.0	309.0[2]	273.0	273	243.0	243.0	217.0	217.0										
110	B		485.0[1]	337.0	448.0[1]	325.0	394.0[1]	310.0	347.0[2]	286.0	307.0[2]	262.0	270.0[2]	233.0	233.0[2]	211.0	211.0	182.0	182.0	157.0	157.0[1]	132.0*	134.0[1]	114.0*	115.0[1]	96.9*	97.1[1]
	BV		520.0[1]	348.0	457.0[1]	332.0	398.0[1]	309.0	349.0[2]	286.0	308.0[2]	262.0	271.0[2]	236.0	236.0[2]	212.0	212.0	184.0	184.0	158.0	158.0						
120	B		458.0[1]	316.0	438.0[1]	303.0	387.0[2]	290.0	345.0[2]	273.0	306.0[2]	252.0	270.0[2]	225.0	232.0[2]	206.0	208.0[2]	180.0	180.0	155.0	155.0	133.0	133.0	114.0	114.0[1]	95.2*	96.5[1]
	BV		499.0[1]	326.0	450.0[1]	312.0	391.0[2]	293.0	347.0[2]	272.0	307.0[2]	251.0	271.0[2]	228.0	235.0[2]	207.0	209.0[2]	181.0	181.0	156.0	156.0	134.0	134.0	115.0	115.0		
130	B		424.0[1]		416.0[1]	283.0	382.0[2]	272.0	342.0[2]	259.0	305.0[2]	241.0	269.0[2]	217.0	230.0[2]	201.0	207.0[2]	177.0	178.0[2]	153.0	153.0[2]	132.0	132.0	113.0	113.0	95.8	95.8
	BV		467.0[2]		437.0[2]	292.0	388.0[2]	278.0	344.0[2]	259.0	306.0[2]	241.0	270.0[2]	220.0	234.0[2]	201.0	208.0[2]	179.0	180.0[2]	154.0	154.0	133.0	133.0	114.0	114.0	96.3	96.3
140	B		391.0[3]		387.0[1]	267.0	377.0[2]	256.0	338.0[2]	245.0	302.0[2]	231.0	269.0[2]	208.0	229.0[2]	195.0	207.0[2]	174.0	178.0[2]	151.0	152.0[2]	130.0	130.0[2]	111.0	111.0[2]	94.6	94.6
	BV		434.0[3]		419.0[3]	275.0	384.0[2]	263.0	341.0[2]	246.0	304.0[2]	230.0	270.0[2]	211.0	233.0[2]	194.0	208.0[2]	175.0	180.0[2]	152.0	154.0[2]	131.0	131.0[2]	112.0	112.0	95.1	95.1
150	B		363.0[8]		359.0[3]		356.0[2]	241.0	335.0[2]	231.0	299.0[2]	221.0	266.0[2]	200.0	227.0[2]	188.0	207.0[2]	170.0	178.0[2]	149.0	152.0[2]	128.0	129.0[2]	110.0	110.0[2]	93.3	93.3
	BV		402.0[3]		393.0[3]		373.0[3]	248.0	339.0[2]	236.0	302.0[2]	220.0	268.0[2]	203.0	231.0[2]	188.0	208.0[2]	170.0	180.0[2]	150.0	154.0[2]	129.0	131.0[2]	111.0	111.0[2]	93.9	93.9
160	B		337.0[9]		335.0[5]		333.0[3]	227.0	323.0[3]	218.0	296.0[2]	209.0	264.0[2]	192.0	224.0[2]	182.0	206.0[2]	166.0	178.0[2]	146.0	152.0[2]	126.0	129.0[2]	108.0	110.0[2]	91.9	92.3[2]
	BV		372.0[5]		368.0[4]		357.0[4]	234.0	329.0[3]	224.0	299.0[2]	211.0	266.0[2]	194.0	228.0[2]	181.0	207.0[2]	165.0	180.0[2]	148.0	153.0[2]	127.0	130.0[2]	109.0	111.0[2]	92.6	93.1[2]
170	B		312.0[10]		314.0[10]		311.0[5]		307.0[3]	205.0	289.0[3]	198.0	261.0[2]	184.0	221.0[2]	176.0	204.0[2]	161.0	177.0[2]	144.0	151.0[2]	124.0	128.0[2]	107.0	109.0[2]	90.5	91.5[2]
	BV		346.0[10]		343.0[4]		337.0[5]		319.0[4]	212.0	291.0[3]	203.0	264.0[2]	186.0	225.0[2]	175.0	206.0[2]	160.0	179.0[2]	144.0	153.0[2]	126.0	130.0[2]	108.0	110.0[2]	91.2	92.3[2]
180	B		287.0[10]		293.0[10]		293.0[7]		289.0[5]	190.0	279.0[4]	187.0	256.0[3]	177.0	218.0[2]	170.0	202.0[2]	156.0	176.0[3]	140.0	150.0[2]	123.0	128.0[2]	105.0	108.0[2]	89.1	90.8[2]
	BV		321.0[10]		321.0[8]		318.0[5]		308.0[5]	190.0	283.0[3]	193.0	258.0[2]	180.0	222.0[2]	168.0	204.0[2]	155.0	178.0[2]	140.0	152.0[2]	123.0	129.0[2]	106.0	109.0[2]	89.8	91.6[2]
190	B		262.0[10]		272.0[10]		276.0[10]		273.0[6]		269.0[4]	177.0	249.0[3]	169.0	212.0[2]	163.0	200.0[2]	151.0	175.0[3]	137.0	150.0[3]	120.0	126.0[2]	104.0	108.0[2]	87.6	90.1[2]
	BV		295.0[10]		300.0[9]		299.0[5]		293.0[6]		275.0[4]	181.0	253.0[3]	173.0	218.0[2]	163.0	202.0[2]	150.0	177.0[2]	136.0	152.0[3]	121.0	128.0[2]	105.0	109.0[2]	88.5	90.9[2]
200	B		240.0[8]		251.0[10]		258.0[10]		258.0[8]		254.0[5]	160.0	243.0[4]	160.0	207.0[3]	154.0	198.0[3]	146.0	174.0[3]	133.0	149.0[3]	118.0	126.0[3]	102.0	106.0[2]	86.2	89.3[2]
	BV		273.0[8]		280.0[10]		281.0[8]		277.0[6]		265.0[5]	160.0	247.0[4]	163.0	214.0[2]	159.0	199.0[2]	145.0	175.0[2]	132.0	151.0[3]	117.0	128.0[3]	103.0	108.0[2]	87.1	90.2[2]
220	B		206.0[8]		211.0[8]		222.0[10]		227.0[9]		227.0[7]		223.0[6]	134.0	193.0[4]	137.0	192.0[4]	131.0	171.0[3]	123.0	147.0[4]	111.0	124.0[3]	98.4	105.0[3]	83.3	87.5[3]
	BV		236.0[8]		241.0[8]		247.0[9]		247.0[7]		241.0[6]		229.0[5]	134.0	205.0[2]	142.0	194.0[3]	135.0	173.0[3]	123.0	149.0[3]	110.0	126.0[3]	98.5	106.0[3]	84.2	88.5[3]
240	B		174.0[6]		182.0[8]		188.0[8]		196.0[10]		199.0[7]		198.0[6]		177.0[4]	115.0	183.0[5]	116.0	166.0[4]	110.0	145.0[4]	103.0	123.0[4]	93.2	103.0[4]	80.3	85.6[3]
	BV		202.0[6]		210.0[8]		216.0[8]		219.0[8]		217.0[6]		210.0[5]		197.0[2]	115.0	185.0[3]	120.0	168.0[3]	113.0	146.0[4]	103.0	124.0[4]	92.6	105.0[4]	81.0	86.6[3]
260	B		150.0[6]		154.0[6]		163.0[8]		168.0[8]		172.0[8]		174.0[7]		162.0[5]		169.0[6]	97.4	157.0[5]	97.5	141.0[5]	91.2	121.0[4]	86.0	102.0[4]	77.1	84.2[4]
	BV		176.0[6]		180.0[6]		189.0[8]		194.0[8]		194.0[7]		192.0[6]		185.0[3]		178.0[2]	97.2	163.0[3]	101.0	144.0[4]	94.3	123.0[4]	86.7	103.0[4]	76.5	85.3[4]
280	B				133.0[6]		138.0[6]		145.0[8]		150.0[8]		153.0[8]		148.0[6]		152.0[6]		146.0[6]	81.4	137.0[6]	80.8	120.0[5]	75.9	101.0[5]	70.1	82.7[4]
	BV				157.0[6]		162.0[6]		169.0[8]		174.0[8]		174.0[7]		170.0[4]		168.0[3]		158.0[3]	81.5	140.0[4]	83.8	121.0[5]	78.7	102.0[5]	71.5	83.8[4]
300	B						119.0[6]		123.0[6]		130.0[8]		135.0[9]		135.0[8]		135.0[6]		133.0[6]		126.0[6]	67.7	115.0[6]	67.0	99.7[6]	61.6	81.7[5]
	BV						142.0[6]		146.0[6]		152.0[8]		157.0[9]		157.0[7]		154.0[5]		149.0[3]		137.0[4]	67.7	118.0[4]	69.7	101.0[5]	64.1	82.8[5]
320	B								105.0[6]		109.0[6]		116.0[9]		121.0[9]		121.0[8]		119.0[6]		115.0[6]		107.0[6]	55.8	97.2[6]	53.8	80.9[6]
	BV								127.0[6]		131.0[6]		138.0[9]		141.0[8]		141.0[7]		138.0[5]		133.0[4]		115.0[4]	55.8	98.9[6]	56.2	82.1[6]
340	B										93.6[6]		98.0[7]		104.0[9]		108.0[9]		108.0[8]		105.0[6]		99.6[4]		92.6[4]	44.0	79.6[7]
	BV										114.0[6]		118.0[7]		123.0[9]		126.0[8]		125.0[6]		122.0[5]		112.0[4]		96.6[5]	44.0	80.4[5]
360	B												82.8[7]		86.6[7]		92.0[9]		96.0[9]		95.7[8]		91.6[6]		86.9[4]		76.5[5]
	BV												102.0[7]		106.0[7]		110.0[8]		111.0[7]		108.0[5]		104.0[5]		94.4[5]		79.1[5]
380	B														72.3[7]		75.8[7]		81.1[9]		84.1[9]		83.5[8]		80.3[6]		74.7[5]
	BV														91.6[7]		94.6[7]		97.6[8]		96.0[6]		92.9[5]		88.4[5]		77.9[5]
400	B																62.1[7]		65.7[7]		69.9[9]		72.3[9]		73.0[8]		68.3[6]
	BV																81.0[7]		84.4[7]		85.5[8]		82.5[6]		80.0[5]		72.8[6]
420	B																		53.1[7]		55.2[7]		59.2[9]		62.2[9]		62.0[8]
	BV																		71.8[7]		73.8[7]		74.2[8]		71.7[6]		66.8[6]
440	B																				43.5[7]		45.3[7]		50.3[9]		51.8[9]
	BV																				61.8[7]		63.5[7]		64.8[7]		60.7[6]
460	B																						34.4[7]		37.8[7]		40.9[9]
	BV																						52.0[7]		55.0[7]		54.8[7]
480	B																								28.1[7]		29.7[7]
	BV																								44.0[7]		45.6[7]
500	B																										21.4[7]
	BV																										35.4[7]

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

HSDWB/BV

HS 276





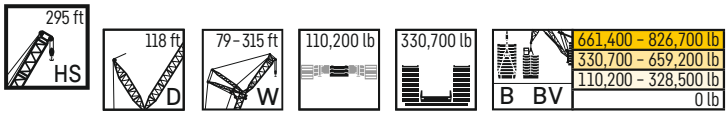
HS 276 ft

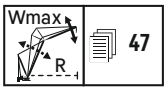
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	479.0*	486.0[1]																								
	BV																										
60	B	486.0	486.0[1]	411.0*	430.0[1]	378.0*	382.0[1]																				
	BV	493.0	493.0																								
70	B	457.0	481.0[1]	421.0	428.0[1]	386.0	386.0	327.0*	338.0[1]	297.0*	299.0[1]																
	BV	464.0	489.0[1]	427.0	434.0[1]	388.0	388.0																				
80	B	426.0	477.0[1]	397.0	423.0[1]	368.0	379.0[1]	335.0	337.0[1]	285.0*	299.0[1]	256.0*	262.0[1]	230.0*	231.0[1]	202.0*	202.0*										
	BV	434.0	486.0[1]	402.0	428.0[1]	368.0	380.0[1]	336.0	339.0[1]																		
90	B	389.0	473.0[1]	369.0	419.0[1]	346.0	374.0[1]	318.0	332.0[1]	291.0	292.0[1]	261.0	261.0	221.0*	229.0[1]	197.0*	200.0[1]	172.0*	172.0[1]	149.0*	149.0*						
	BV	399.0	483.0[1]	376.0	423.0[1]	347.0	375.0[1]	318.0	334.0[1]	291.0	293.0[1]	261.0	261.0														
100	B	354.0	463.0[1]	338.0	415.0[1]	323.0	370.0[1]	300.0	326.0[1]	277.0	282.0[1]	250.0	250.0[1]	225.0	225.0	199.0	199.0[1]	168.0*	172.0[1]	146.0*	147.0[1]	125.0*	126.0[1]	108.0*	108.0*		
	BV	364.0	475.0[1]	347.0	417.0[1]	325.0	370.0[1]	300.0	330.0[1]	277.0	282.0[1]	250.0	250.0	226.0	226.0	200.0	200.0										
110	B	333.0	453.0[1]	312.0	408.0[1]	300.0	360.0[1]	284.0	321.0[1]	264.0	280.0[2]	241.0	246.0[2]	218.0	218.0	195.0	195.0	170.0	170.0	147.0	147.0[1]	123.0*	125.0[1]	106.0*	107.0[1]	90.0*	90.0[1]
	BV	344.0	466.0[1]	321.0	411.0[1]	306.0	361.0[1]	284.0	326.0[1]	264.0	280.0[2]	240.0	246.0[2]	219.0	219.0	195.0	195.0	172.0	172.0	148.0	148.0						
120	B		444.0[1]	292.0	401.0[1]	281.0	352.0[2]	266.0	312.0[2]	252.0	279.0[2]	231.0	245.0[2]	211.0	216.0[2]	190.0	191.0[2]	168.0	168.0	145.0	145.0	125.0	125.0	107.0	107.0[1]	88.9*	89.8[1]
	BV		458.0[1]	301.0	405.0[1]	287.0	352.0[2]	269.0	313.0[2]	251.0	279.0[2]	230.0	246.0[2]	211.0	218.0[2]	190.0	191.0[2]	169.0	169.0	146.0	146.0	125.0	125.0	108.0	108.0		
130	B		414.0[1]	279.0	393.0[1]	262.0	348.0[2]	250.0	309.0[2]	239.0	277.0[2]	222.0	244.0[2]	204.0	215.0[2]	184.0	190.0[2]	165.0	166.0[2]	143.0	143.0	123.0	123.0	106.0	106.0	89.5	89.5
	BV		434.0[3]	288.0	398.0[1]	268.0	348.0[2]	256.0	310.0[2]	239.0	278.0[2]	221.0	245.0[2]	204.0	217.0[2]	184.0	190.0[2]	165.0	167.0[2]	144.0	144.0	124.0	124.0	106.0	106.0	90.1	90.1
140	B		384.0[2]		376.0[2]	248.0	343.0[2]	235.0	305.0[2]	226.0	275.0[2]	212.0	244.0[2]	196.0	214.0[2]	179.0	190.0[2]	161.0	166.0[2]	141.0	142.0[2]	121.0	121.0[2]	104.0	104.0	88.5	88.5
	BV		411.0[4]		382.0[2]	254.0	344.0[2]	242.0	307.0[2]	228.0	276.0[2]	211.0	244.0[2]	196.0	217.0[2]	178.0	190.0[2]	161.0	167.0[2]	142.0	144.0[2]	122.0	122.0	105.0	105.0	89.0	89.0
150	B		356.0[4]		352.0[3]	234.0	334.0[2]	222.0	302.0[2]	213.0	272.0[2]	202.0	241.0[2]	189.0	213.0[2]	173.0	189.0[2]	157.0	166.0[2]	139.0	142.0[2]	120.0	121.0[2]	103.0	103.0[2]	87.3	87.3
	BV		386.0[4]		367.0[4]	232.0	337.0[2]	228.0	304.0[2]	217.0	273.0[2]	202.0	242.0[2]	189.0	216.0[2]	172.0	189.0[2]	156.0	166.0[2]	139.0	144.0[2]	121.0	122.0[2]	104.0	104.0[2]	87.9	87.9
160	B		332.0[9]		328.0[5]		322.0[5]	211.0	295.0[2]	202.0	269.0[2]	192.0	239.0[2]	182.0	211.0[2]	167.0	188.0[2]	152.0	165.0[2]	136.0	142.0[2]	118.0	121.0[2]	102.0	103.0[2]	86.1	86.4[2]
	BV		360.0[4]		349.0[5]		325.0[5]	217.0	298.0[2]	207.0	271.0[2]	193.0	240.0[2]	181.0	214.0[2]	166.0	189.0[2]	152.0	166.0[2]	136.0	143.0[2]	119.0	122.0[2]	102.0	104.0[2]	86.7	87.1[2]
170	B		308.0[10]		308.0[8]		305.0[5]		287.0[3]	192.0	264.0[2]	181.0	237.0[2]	174.0	208.0[2]	161.0	186.0[2]	148.0	165.0[2]	132.0	141.0[2]	116.0	120.0[2]	100.0	102.0[2]	84.8	85.8[2]
	BV		335.0[5]		329.0[5]		313.0[5]		290.0[3]	197.0	267.0[2]	186.0	238.0[2]	174.0	212.0[2]	160.0	187.0[2]	147.0	165.0[2]	132.0	143.0[2]	116.0	121.0[2]	101.0	103.0[2]	85.5	86.6[2]
180	B		285.0[10]		288.0[10]		287.0[6]		277.0[4]	182.0	258.0[3]	173.0	233.0[2]	166.0	205.0[2]	155.0	185.0[2]	143.0	163.0[2]	129.0	141.0[2]	113.0	120.0[2]	98.5	102.0[2]	83.5	85.2[2]
	BV		312.0[8]		309.0[5]		299.0[6]		280.0[4]	188.0	260.0[3]	178.0	235.0[2]	168.0	209.0[2]	154.0	186.0[2]	142.0	164.0[2]	128.0	142.0[2]	113.0	121.0[2]	99.5	103.0[2]	84.3	86.0[2]
190	B		261.0[10]		269.0[10]		271.0[9]		265.0[5]		251.0[4]	164.0	229.0[3]	158.0	202.0[2]	149.0	183.0[2]	138.0	161.0[2]	125.0	139.0[2]	111.0	119.0[2]	97.0	101.0[2]	82.1	84.6[2]
	BV		291.0[9]		290.0[7]		283.0[6]		269.0[5]		253.0[4]	169.0	230.0[3]	162.0	207.0[2]	149.0	184.0[2]	137.0	162.0[2]	124.0	141.0[2]	110.0	120.0[2]	97.5	102.0[2]	82.9	85.5[2]
200	B		238.0[10]		249.0[10]		255.0[10]		251.0[7]		243.0[5]	156.0	223.0[4]	150.0	198.0[3]	142.0	180.0[2]	133.0	159.0[2]	121.0	139.0[3]	108.0	118.0[3]	95.3	100.0[2]	80.7	84.1[2]
	BV		269.0[10]		272.0[8]		269.0[7]		258.0[7]		243.0[5]	160.0	224.0[3]	154.0	203.0[2]	145.0	182.0[2]	132.0	160.0[2]	120.0	139.0[2]	107.0	119.0[2]	95.2	101.0[2]	81.6	85.0[2]
220	B		204.0[8]		210.0[10]		221.0[10]		224.0[10]		223.0[8]		208.0[6]	134.0	187.0[4]	126.0	174.0[3]	120.0	156.0[3]	113.0	136.0[3]	101.0	116.0[3]	90.3	99.0[3]	77.8	82.2[3]
	BV		234.0[8]		238.0[10]		240.0[8]		236.0[9]		228.0[8]		211.0[2]	137.0	195.0[2]	130.0	177.0[3]	123.0	157.0[3]	112.0	137.0[3]	100.0	117.0[3]	89.7	100.0[3]	78.1	83.2[3]
240	B		172.0[8]		180.0[8]		187.0[10]		195.0[10]		198.0[8]		195.0[6]		173.0[5]	113.0	167.0[5]	107.0	151.0[4]	100.0	133.0[3]	93.2	114.0[3]	84.7	97.1[4]	74.1	80.8[3]
	BV		200.0[8]		208.0[8]		212.0[10]		213.0[9]		210.0[8]		199.0[2]		188.0[2]	115.0	171.0[3]	110.0	153.0[3]	103.0	134.0[3]	93.2	115.0[3]	83.9	98.4[3]	73.6	81.9[3]
260	B		147.0[6]		153.0[8]		161.0[8]		166.0[10]		173.0[9]		173.0[8]		159.0[8]		157.0[6]	95.7	145.0[5]	89.0	129.0[4]	82.6	112.0[4]	77.5	95.8[4]	69.6	79.4[4]
	BV		173.0[6]		179.0[8]		186.0[8]		190.0[10]		191.0[8]		183.0[3]		180.0[2]		164.0[3]	97.6	149.0[3]	92.1	130.0[4]	85.4	112.0[4]	78.2	96.5[4]	68.9	80.6[4]
280	B		125.0[6]		130.0[6]		137.0[8]		142.0[8]		149.0[10]		152.0[8]		146.0[9]		145.0[8]		137.0[7]	79.6	123.0[6]	73.2	108.0[5]	68.2	94.4[4]	62.7	78.2[4]
	BV		149.0[6]		154.0[6]		160.0[8]		166.0[8]		172.0[10]		168.0[6]		165.0[4]		158.0[3]		144.0[3]	82.1	127.0[4]	75.9	110.0[4]	70.7	95.2[4]	64.0	79.4[4]
300	B				110.0[6]		117.0[6]		121.0[8]		128.0[8]		132.0[10]		132.0[9]		132.0[8]		126.0[7]		118.0[7]	65.2	105.0[6]	60.2	92.4[5]	54.7	77.3[5]
	BV				133.0[6]		138.0[6]		144.0[8]		151.0[8]		154.0[9]		152.0[6]		148.0[4]		140.0[3]		124.0[4]	67.8	107.0[4]	62.6	92.9[4]	56.9	78.2[5]
320	B						98.6[6]		103.0[6]		109.0[8]		114.0[9]		119.0[10]		118.0[8]		115.0[8]		109.0[7]		100.0[7]	53.1	89.2[6]	47.5	76.0[5]
	BV						119.0[6]		124.0[6]		130.0[8]		135.0[9]		140.0[10]		136.0[6]		132.0[4]		121.0[4]		105.0[5]	55.4	91.0[5]	49.8	77.2[5]
340	B								86.2[6]		91.4[6]		96.4[9]		103.0[9]		106.0[10]		104.0[8]		99.7[7]		93.4[4]		85.3[7]	41.3	74.2[6]
	BV								106.0[6]		112.0[6]		116.0[9]		123.0[9]		125.0[9]		122.0[6]		117.0[5]		103.0[5]		89.3[5]	43.4	75.7[5]
360	B										76.1[6]		80.0[7]		86.3[9]		89.5[9]		94.6[11]		90.7[8]		85.7[5]		81.9[4]		71.3[8]
	BV										96.0[6]		99.8[7]		106.0[9]		109.0[9]		111.0[8]		108.0[7]		101.0[5]		87.5[5]		74.4[6]
380	B												65.2[7]		70.8[7]		74.1[9]		78.9[9]		82.3[11]		78.0[8]		73.9[5]		68.1[4]
	BV												85.0[7]		90.0[7]		93.2[9]		97.0[9]		97.0[8]		93.7[6]		86.1[6]		73.3[6]
400	B														56.8[7]		59.4[7]		64.3[9]		67.6[9]		70.9[11]		67.5[8]		62.6[6]
	BV														76.3[7]		78.6[7]		83.3[9]		84.7[8]		82.7[7]		79.8[6]		72.1[6]
420	B																46.5[7]		50.5[7]		54.0[9]		56.9[9]		61.4[11]		57.0[8]
	BV																65.8[7]		69.2[7]		72.8[9]		72.0[8]		70.4[7]		66.4[7]
440	B																		38.5[7]		40.8[7]		44.3[9]		48.2[9]		50.0[9]
	BV																		56.9[7]		59.2[7]		62.2[9]		61.7[8]		58.6[7]
460	B																						32.7[7]		36.4[9]		39.3[9]
	BV																						49.4[7]		53.6[9]		51.2[8]
480	B																								26.1[7]		28.5[9]
	BV																								41.4[7]		44.3[9]
500	B																										19.2[7]
	BV																										33.5[7]

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

HSDWB/BV

HS 295





HS 295 ft

ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	431.0*	434.0[1]																								
	BV																										
60	B	404.0*	435.0[1]	371.0*	384.0[1]	340.0*	341.0[1]																				
	BV																										
70	B	417.0	433.0[1]	381.0	384.0[1]	323.0*	343.0[1]	296.0*	303.0[1]	267.0*	268.0[1]																
	BV	421.0	439.0[1]	385.0	388.0[1]																						
80	B	391.0	430.0[1]	361.0	381.0[1]	333.0	342.0[1]	304.0	304.0[1]	257.0*	269.0[1]	230.0*	235.0[1]	207.0*	208.0[1]												
	BV	396.0	439.0[1]	365.0	387.0[1]	337.0	346.0[1]	307.0	308.0[1]																		
90	B	359.0	427.0[1]	338.0	378.0[1]	315.0	340.0[1]	290.0	303.0[1]	264.0	268.0[1]	236.0	236.0[1]	201.0*	208.0[1]	178.0*	180.0[1]	156.0*	156.0[1]	134.0*	134.0*						
	BV	366.0	438.0[1]	343.0	386.0[1]	319.0	345.0[1]	293.0	307.0[1]	266.0	271.0[1]	238.0	238.0														
100	B	327.0	423.0[1]	311.0	375.0[1]	296.0	337.0[1]	276.0	301.0[1]	253.0	267.0[1]	229.0	229.0[1]	206.0	206.0	180.0	180.0[1]	153.0*	156.0[1]	133.0*	134.0[1]	113.0*	113.0[1]	96.9*	96.9*		
	BV	334.0	438.0[1]	316.0	385.0[1]	300.0	344.0[1]	279.0	307.0[1]	255.0	271.0[1]	230.0	230.0[1]	207.0	207.0	181.0	181.0										
110	B	306.0	420.0[1]	288.0	373.0[1]	276.0	333.0[1]	262.0	300.0[1]	243.0	266.0[1]	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[1]	96.0*	96.4[1]	80.9*	80.9*
	BV	314.0	439.0[1]	293.0	386.0[1]	280.0	342.0[1]	265.0	306.0[1]	245.0	270.0[1]	222.0	226.0[2]	201.0	201.0	178.0	178.0	157.0	157.0	135.0	135.0						
120	B		416.0[1]	269.0	370.0[1]	258.0	325.0[2]	246.0	295.0[1]	232.0	266.0[1]	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[1]	80.2*	80.9[1]
	BV		439.0[1]	275.0	386.0[1]	263.0	334.0[2]	250.0	301.0[1]	234.0	270.0[1]	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				
130	B		401.0[1]	255.0	367.0[1]	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[1]
	BV		431.0[2]	262.0	387.0[1]	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
140	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
	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
150	B		350.0[4]		342.0[3]	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
	BV		382.0[3]		366.0[3]	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
160	B		326.0[9]		321.0[4]		310.0[5]	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]
	BV		357.0[3]		345.0[3]		329.0[3]	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]
170	B		305.0[10]		301.0[6]		297.0[4]	187.0	276.0[3]	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]
	BV		332.0[4]		325.0[4]		316.0[4]	192.0	292.0[3]	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]
180	B		283.0[10]		283.0[10]		280.0[5]		268.0[4]	168.0	246.0[3]	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]
	BV		310.0[7]		305.0[4]		299.0[4]		284.0[4]	172.0	259.0[3]	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]
190	B		261.0[10]		265.0[10]		265.0[7]		260.0[5]	160.0	239.0[4]	151.0	218.0[3]	144.0	188.0[2]	136.0	170.0[2]	128.0	149.0[3]	116.0	128.0[2]	102.0	109.0[2]	88.9	92.5[2]	75.2	77.3[2]
	BV		289.0[8]		286.0[5]		283.0[4]		275.0[5]	161.0	253.0[3]	154.0	225.0[3]	147.0	192.0[2]	138.0	174.0[2]	128.0	152.0[3]	115.0	130.0[2]	102.0	111.0[2]	89.4	93.7[2]	75.8	78.1[2]
200	B		240.0[10]		246.0[10]		250.0[10]		247.0[6]		232.0[5]	143.0	213.0[3]	137.0	185.0[3]	129.0	169.0[3]	122.0	148.0[3]	112.0	128.0[3]	98.9	108.0[3]	87.1	91.9[2]	74.0	76.8[2]
	BV		268.0[10]		268.0[7]		267.0[5]		261.0[5]		247.0[4]	147.0	222.0[3]	140.0	189.0[2]	131.0	172.0[3]	123.0	151.0[3]	112.0	130.0[3]	99.0	109.0[3]	87.5	93.2[2]	74.6	77.7[2]
220	B		202.0[8]		210.0[10]		219.0[10]		222.0[11]		218.0[7]		203.0[5]	122.0	178.0[4]	116.0	167.0[3]	110.0	146.0[3]	103.0	126.0[3]	92.5	107.0[3]	82.1	91.1[3]	70.9	75.3[3]
	BV		232.0[8]		235.0[10]		237.0[8]		235.0[6]		229.0[6]		213.0[5]	126.0	182.0[2]	118.0	171.0[3]	112.0	149.0[3]	104.0	128.0[3]	93.1	109.0[3]	82.6	92.3[3]	71.4	76.3[3]
240	B		173.0[8]		177.0[8]		187.0[10]		194.0[10]		198.0[10]		189.0[7]		167.0[5]	103.0	159.0[4]	97.4	142.0[4]	91.0	124.0[3]	84.2	105.0[3]	76.6	89.1[3]	66.6	74.3[3]
	BV		201.0[8]		205.0[8]		210.0[10]		211.0[8]		207.0[6]		200.0[7]		176.0[2]	106.0	165.0[4]	99.2	146.0[3]	92.6	126.0[3]	85.8	107.0[3]	77.4	90.5[3]	67.1	75.4[3]
260	B		145.0[6]		152.0[8]		159.0[8]		167.0[10]		173.0[10]		172.0[9]		156.0[7]		154.0[6]	86.4	138.0[5]	80.4	121.0[4]	74.4	102.0[4]	69.1	87.3[4]	62.0	73.1[4]
	BV		171.0[6]		178.0[8]		184.0[8]		188.0[10]		187.0[8]		183.0[7]		169.0[2]		159.0[6]	89.0	142.0[3]	82.3	124.0[4]	75.7	104.0[4]	70.6	88.7[4]	62.8	74.1[4]
280	B		125.0[6]		127.0[6]		136.0[8]		141.0[8]		149.0[10]		151.0[9]		143.0[10]		146.0[8]		132.0[6]	71.2	117.0[5]	65.2	99.8[4]	60.8	85.9[4]	55.1	71.8[4]
	BV		149.0[6]		151.0[6]		160.0[8]		165.0[8]		168.0[9]		166.0[8]		160.0[3]		151.0[2]		138.0[3]	73.6	121.0[4]	67.0	103.0[4]	62.0	87.6[4]	56.5	73.1[4]
300	B				109.0[6]		114.0[4]		121.0[8]		126.0[8]		131.0[10]		130.0[10]		131.0[8]		125.0[8]		113.0[7]	57.5	97.1[6]	52.6	84.0[5]	47.8	70.6[4]
	BV				132.0[6]		137.0[6]		144.0[8]		148.0[8]		150.0[9]		147.0[5]		142.0[5]		134.0[3]		119.0[4]	59.6	101.0[5]	54.5	85.8[5]	49.0	72.0[4]
320	B						97.4[6]		101.0[6]		108.0[8]		112.0[9]		116.0[10]		117.0[9]		114.0[8]		107.0[8]		94.8[7]	46.1	82.2[6]	40.7	69.2[5]
	BV						119.0[6]		123.0[6]		129.0[8]		133.0[9]		135.0[8]		131.0[5]		127.0[4]		116.0[4]		99.0[5]	48.1	84.6[5]	42.4	70.7[5]
340	B								85.4[6]		89.2[6]		95.2[9]		101.0[9]		103.0[9]		102.0[9]		97.3[9]		90.9[9]		79.4[7]	35.1	67.4[6]
	BV								106.0[6]		110.0[6]		116.0[9]		121.0[9]		121.0[8]		117.0[6]		113.0[4]		97.3[5]		83.3[5]	36.8	69.5[6]
360	B										74.4[6]		77.9[7]		85.0[9]		88.0[9]		90.6[9]		87.7[9]		83.0[9]		77.5[9]		65.9[8]
	BV										94.7[6]		97.7[7]		105.0[9]		107.0[9]		109.0[8]		104.0[6]		95.6[5]		82.3[6]		68.9[6]
380	B												63.8[7]		68.7[7]		73.0[9]		77.2[9]		78.1[9]		74.8[9]		70.7[9]		63.9[9]
	BV												83.8[7]		88.1[7]		92.4[9]		96.3[9]		95.4[8]		90.7[6]		81.4[6]		68.3[6]
400	B														55.5[7]		57.3[7]		63.2[9]		65.8[9]		66.6[9]		63.9[9]		58.4[5]
	BV														75.1[7]		76.7[7]		82.4[9]		83.8[9]		82.7[8]		79.0[6]		67.7[6]
420	B																45.1[7]		48.5[7]		52.8[9]		55.1[9]		57.2[9]		52.9[9]
	BV																64.1[7]		67.5[7]		71.1[9]		72.1[9]		72.3[8]		66.6[7]
440	B																		37.2[7]		39.3[7]		43.0[9]		46.6[9]		47.4[9]
	BV																		55.5[7]		57.3[7]		60.5[9]		62.1[9]		61.1[8]
460	B																				29.5[7]		30.6[7]		35.5[9]		37.9[9]
	BV																				45.9[7]		47.4[7]		51.7[9]		51.5[9]
480	B																						22.2[7]		24.0[9]		28.1[9]
	BV																						36.8[7]		39.8[7]		42.1[9]
500	B																								16.5[7]		
	BV																								30.5[7]		31.2[7]
520	B																										
	BV																										22.4[7]

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

HSDWB/BV

HS 315

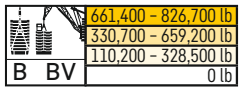


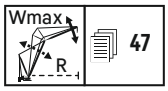












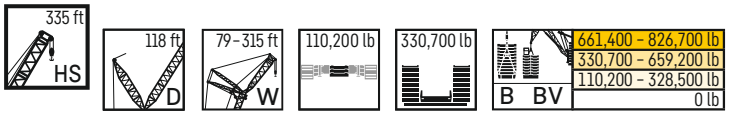
HS 315 ft

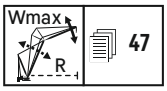
ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	389.0*	389.0[1]																								
	BV																										
60	B	366.0*	388.0[1]	336.0*	344.0[1]	308.0*	308.0*																				
	BV																										
70	B	376.0	386.0[1]	344.0	345.0[1]	293.0*	307.0[1]	266.0*	271.0[1]	241.0*	241.0*																
	BV	379.0	391.0[1]	347.0	348.0[1]																						
80	B	353.0	382.0[1]	326.0	341.0[1]	301.0	306.0[1]	272.0	272.0	231.0*	239.0[1]	209.0*	212.0[1]	187.0*	187.0*												
	BV	358.0	388.0[1]	330.0	345.0[1]	303.0	308.0[1]	275.0	275.0																		
90	B	327.0	378.0[1]	306.0	338.0[1]	285.0	304.0[1]	260.0	269.0[1]	236.0	238.0[1]	213.0	213.0	180.0*	186.0[1]	160.0*	162.0[1]	141.0*	141.0*								
	BV	332.0	386.0[1]	310.0	343.0[1]	286.0	306.0[1]	261.0	272.0[1]	237.0	238.0[1]	213.0	213.0														
100	B	300.0	375.0[1]	285.0	335.0[1]	269.0	301.0[1]	248.0	268.0[1]	227.0	238.0[1]	207.0	207.0[1]	185.0	185.0	155.0*	162.0[1]	138.0*	141.0[1]	120.0*	121.0[1]	103.0*	103.0*				
	BV	305.0	385.0[1]	288.0	340.0[1]	269.0	304.0[1]	247.0	270.0[1]	226.0	230.0[1]	206.0	207.0[1]	185.0	185.0												
110	B	280.0	373.0[1]	265.0	333.0[1]	253.0	299.0[1]	236.0	266.0[1]	218.0	237.0[1]	200.0	202.0[2]	181.0	181.0	160.0	160.0	141.0	141.0	118.0*	121.0[1]	102.0*	103.0[1]	87.0*	87.4[1]	73.1*	73.1*
	BV	286.0	384.0[1]	268.0	338.0[1]	255.0	302.0[1]	235.0	269.0[1]	216.0	231.0[1]	198.0	201.0[2]	179.0	179.0[1]	159.0	159.0	141.0	141.0								
120	B		371.0[1]	247.0	331.0[1]	237.0	290.0[1]	224.0	265.0[1]	209.0	237.0[1]	194.0	203.0[2]	176.0	179.0[2]	157.0	157.0	140.0	140.0	121.0	121.0	103.0	103.0[1]	86.3*	87.5[1]	72.5*	73.0[1]
	BV		384.0[1]	251.0	338.0[1]	240.0	294.0[1]	223.0	266.0[1]	207.0	232.0[1]	191.0	202.0[2]	174.0	178.0[2]	156.0	156.0	139.0	139.0	121.0	121.0	103.0	103.0				
130	B		370.0[1]	234.0	330.0[1]	222.0	290.0[2]	211.0	257.0[2]	199.0	229.0[2]	187.0	204.0[2]	171.0	179.0[2]	153.0	157.0[2]	137.0	137.0[2]	120.0	120.0	103.0	103.0	87.4	87.4	73.1	73.1[1]
	BV		383.0[1]	239.0	338.0[1]	225.0	294.0[2]	212.0	259.0[2]	197.0	230.0[1]	183.0	203.0[2]	167.0	178.0[2]	151.0	155.0[2]	136.0	136.0[2]	119.0	119.0	103.0	103.0	87.9	87.9	73.6	73.6
140	B		355.0[3]		328.0[1]	210.0	290.0[2]	199.0	257.0[2]	188.0	229.0[2]	178.0	204.0[2]	165.0	179.0[2]	149.0	157.0[2]	134.0	138.0[2]	118.0	119.0[2]	102.0	102.0	87.1	87.1	72.9	72.9
	BV		371.0[3]		337.0[1]	213.0	294.0[2]	201.0	259.0[2]	188.0	230.0[2]	175.0	204.0[2]	161.0	179.0[2]	146.0	156.0[2]	132.0	136.0[2]	117.0	118.0[2]	101.0	101.0	87.3	87.3	73.3	73.3
150	B		339.0[4]		317.0[2]	200.0	289.0[2]	187.0	257.0[2]	178.0	229.0[2]	169.0	205.0[2]	159.0	180.0[2]	145.0	158.0[2]	131.0	138.0[2]	116.0	119.0[2]	101.0	101.0[2]	86.4	86.4	72.5	72.5
	BV		357.0[4]		327.0[2]	205.0	295.0[2]	189.0	260.0[2]	180.0	230.0[2]	168.0	204.0[2]	155.0	180.0[2]	141.0	157.0[2]	128.0	137.0[2]	114.0	118.0[2]	99.1	101.0[2]	86.2	86.2	72.9	72.9
160	B		317.0[7]		309.0[4]		285.0[2]	178.0	257.0[2]	168.0	229.0[2]	161.0	204.0[2]	151.0	179.0[2]	140.0	159.0[2]	128.0	138.0[2]	113.0	119.0[2]	98.9	101.0[2]	85.2	86.0[2]	71.9	72.0[2]
	BV		337.0[4]		320.0[4]		292.0[2]	181.0	260.0[2]	170.0	230.0[2]	161.0	204.0[2]	149.0	180.0[2]	136.0	157.0[2]	124.0	137.0[2]	110.0	118.0[2]	96.7	101.0[2]	84.6	86.0[2]	72.1	72.3[2]
170	B		298.0[10]		293.0[5]		276.0[4]	171.0	254.0[2]	160.0	229.0[2]	152.0	204.0[2]	144.0	178.0[2]	134.0	158.0[2]	124.0	139.0[2]	110.0	119.0[2]	96.8	101.0[2]	83.9	85.6[2]	70.8	71.5[2]
	BV		317.0[4]		306.0[5]		284.0[3]	175.0	258.0[2]	162.0	231.0[2]	153.0	204.0[2]	143.0	179.0[2]	131.0	157.0[2]	119.0	138.0[2]	107.0	118.0[2]	94.1	101.0[2]	82.7	85.9[2]	70.8	72.0[2]
180	B		277.0[10]		277.0[8]		271.0[5]		248.0[3]	153.0	227.0[2]	145.0	203.0[2]	137.0	176.0[2]	128.0	157.0[2]	119.0	138.0[2]	107.0	119.0[2]	94.2	100.0[2]	82.4	85.2[2]	69.7	71.1[2]
	BV		297.0[4]		290.0[5]		278.0[5]		253.0[3]	155.0	229.0[2]	146.0	204.0[2]	137.0	178.0[2]	126.0	157.0[2]	115.0	137.0[2]	104.0	119.0[2]	91.4	101.0[2]	80.6	85.8[2]	69.3	71.7[2]
190	B		257.0[10]		260.0[10]		258.0[4]		241.0[4]	148.0	223.0[3]	138.0	202.0[2]	130.0	174.0[2]	122.0	156.0[2]	114.0	137.0[2]	104.0	118.0[2]	91.2	100.0[2]	80.4	84.8[2]	68.5	70.7[2]
	BV		278.0[6]		274.0[5]		267.0[6]		247.0[4]	151.0	226.0[3]	140.0	204.0[2]	131.0	177.0[2]	121.0	156.0[2]	111.0	136.0[2]	100.0	118.0[2]	88.7	101.0[2]	78.4	85.7[2]	67.5	71.5[2]
200	B		237.0[10]		243.0[10]		244.0[8]		234.0[6]		218.0[4]	132.0	198.0[3]	124.0	172.0[2]	116.0	154.0[2]	109.0	135.0[2]	99.8	117.0[2]	88.2	99.1[2]	78.0	84.4[2]	66.9	70.3[2]
	BV		260.0[7]		259.0[6]		254.0[6]		239.0[5]		221.0[4]	135.0	201.0[3]	126.0	176.0[2]	116.0	155.0[2]	107.0	135.0[2]	96.8	117.0[2]	85.9	99.8[2]	76.1	85.6[2]	65.6	71.2[2]
220	B		197.0[10]		209.0[10]		216.0[10]		216.0[9]		203.0[6]		186.0[5]	112.0	165.0[4]	104.0	150.0[5]	98.4	132.0[2]	91.1	114.0[2]	81.9	97.0[3]	72.7	82.7[3]	62.8	68.7[2]
	BV		226.0[10]		229.0[7]		229.0[6]		221.0[7]		209.0[6]		192.0[4]	114.0	170.0[5]	106.0	153.0[5]	99.2	133.0[2]	89.6	115.0[3]	79.8	98.1[3]	71.1	83.6[3]	61.6	69.8[2]
240	B		170.0[8]		174.0[10]		186.0[10]		191.0[10]		191.0[9]		176.0[7]		158.0[5]	93.5	145.0[4]	87.7	128.0[3]	81.5	111.0[3]	74.8	94.8[3]	67.5	81.0[3]	58.4	67.9[3]
	BV		197.0[8]		202.0[10]		204.0[8]		201.0[7]		194.0[7]		182.0[6]		164.0[2]	95.2	149.0[3]	88.7	132.0[3]	82.0	114.0[3]	73.8	96.4[3]	65.9	82.3[3]	57.3	68.9[3]
260	B		143.0[8]		150.0[8]		156.0[8]		165.0[10]		170.0[10]		168.0[10]		149.0[7]		136.0[5]	78.3	123.0[4]	71.9	108.0[4]	65.8	92.7[3]	61.1	79.1[3]	54.0	66.2[3]
	BV		169.0[8]		176.0[8]		181.0[8]		181.0[8]		177.0[7]		171.0[9]		158.0[2]		144.0[3]	79.7	128.0[3]	72.8	111.0[3]	66.3	94.6[3]	60.6	80.6[3]	52.9	67.3[3]
280	B		121.0[6]		127.0[8]		135.0[8]		137.0[8]		147.0[10]		149.0[10]		141.0[10]		130.0[8]		119.0[6]	63.9	105.0[5]	57.8	90.1[4]	53.1	76.9[4]	48.0	64.3[3]
	BV		145.0[6]		151.0[8]		159.0[8]		161.0[8]		161.0[8]		158.0[9]		151.0[2]		139.0[3]		125.0[3]	65.2	108.0[4]	58.5	92.3[4]	53.4	78.6[3]	47.9	65.7[3]
300	B		102.0[6]		106.0[6]		114.0[8]		119.0[8]		122.0[8]		130.0[10]		127.0[11]		125.0[10]		113.0[8]		100.0[6]	51.0	86.8[5]	46.1	75.1[4]	40.8	63.0[4]
	BV		125.0[6]		129.0[6]		136.0[8]		141.0[8]		145.0[8]		145.0[9]		140.0[4]		134.0[5]		122.0[3]		106.0[4]	52.1	90.5[4]	46.8	77.2[4]	41.2	64.4[4]
320	B				88.8[6]		94.7[6]		99.7[8]		105.0[8]		110.0[9]		113.0[11]		112.0[10]		108.0[10]		96.4[8]		83.3[3]	40.2	72.4[5]	34.8	61.3[4]
	BV				111.0[6]		116.0[6]		121.0[8]		126.0[8]		131.0[9]		129.0[6]		124.0[4]		118.0[3]		104.0[4]		88.6[4]	41.2	75.4[4]	35.4	62.9[4]
340	B						78.6[6]		81.9[6]		87.7[8]		93.7[9]		97.9[9]		99.1[10]		97.3[10]		92.1[10]		80.4[8]		70.5[7]	29.9	59.5[6]
	BV						99.7[6]		103.0[6]		108.0[8]		114.0[9]		116.0[9]		112.0[7]		109.0[5]		101.0[4]		86.7[4]		74.3[5]	30.5	61.8[5]
360	B								66.8[6]		71.1[6]		77.3[9]		82.4[9]		85.0[9]		86.4[10]		82.9[10]		77.3[10]		68.0[9]		57.5[4]
	BV								87.6[6]		91.4[6]		97.3[9]		102.0[9]		102.0[9]		99.6[7]		94.8[5]		84.9[4]		73.3[5]		60.8[5]
380	B										57.0[6]		61.9[7]		67.0[9]		70.4[9]		74.0[9]		73.7[10]		69.6[10]		65.3[10]		56.3[9]
	BV										77.5[6]		81.8[7]		86.6[9]		88.6[9]		89.8[9]		86.7[7]		80.9[5]		72.2[5]		59.8[6]
400	B												48.5[7]		52.4[7]		55.9[9]		60.6[9]		62.7[9]		62.0[10]		58.8[10]		53.6[10]
	BV												68.4[7]		71.9[7]		75.4[9]		77.8[9]		77.7[9]		74.3[7]		69.2[6]		59.2[6]
420	B														40.0[7]		42.5[7]		47.2[9]		50.2[9]		52.3[9]		52.4[10]		48.1[10]
	BV														59.1[7]		61.3[7]		65.7[9]		66.6[9]		66.3[9]		63.8[8]		58.5[6]
440	B																31.2[7]		35.0[7]		37.7[9]		40.9[9]		43.9[9]		42.6[10]
	BV																48.9[7]		52.5[7]		55.5[9]		56.1[9]		57.0[9]		53.4[8]
460	B																		25.1[7]		26.8[7]		29.6[9]		33.8[9]		35.1[9]
	BV																		40.9[7]		43.1[7]		45.8[9]		47.5[9]		47.4[9]
480	B																				18.2[7]		13.9[9]		23.7[9]		26.1[9]
	BV																				32.4[7]		34.7[7]		38.1[9]		38.7[9]
500	B																										17.2[9]
	BV																						25.4[7]		27.3[7]		30.0[9]
520	B																										
	BV																								18.3[7]		

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

HSDWB/BV

HS 335



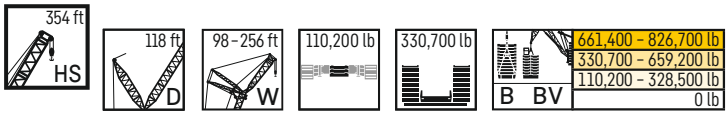


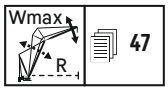
ft		HS 335 ft																									
		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		W 295 ft		W 315 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
50	B	351.0*	351.0*																								
	BV																										
60	B	332.0*	349.0[1]	304.0*	309.0[1]	276.0*	276.0*																				
	BV																										
70	B	342.0	348.0[1]	311.0	311.0	265.0*	275.0[1]	239.0*	243.0[1]	217.0*	217.0*																
	BV	345.0	352.0[1]	312.0	312.0																						
80	B	322.0	343.0[1]	297.0	307.0[1]	271.0	274.0[1]	228.0*	242.0[1]	209.0*	216.0[1]	188.0*	190.0[1]	168.0*	168.0*												
	BV	327.0	349.0[1]	301.0	310.0[1]	275.0	278.0[1]																				
90	B	301.0	339.0[1]	280.0	304.0[1]	258.0	272.0[1]	235.0	241.0[1]	214.0	215.0[1]	180.0*	190.0[1]	163.0*	167.0[1]	144.0*	146.0[1]	128.0*	128.0*								
	BV	306.0	347.0[1]	284.0	308.0[1]	261.0	276.0[1]	237.0	243.0[1]	216.0	216.0[1]																
100	B	278.0	336.0[1]	263.0	301.0[1]	245.0	270.0[1]	225.0	239.0[1]	207.0	214.0[1]	186.0	189.0[1]	166.0	166.0	139.0*	145.0[1]	124.0*	127.0[1]	108.0*	109.0[1]	93.1*	93.1*				
	BV	283.0	344.0[1]	266.0	306.0[1]	248.0	274.0[1]	227.0	242.0[1]	209.0	216.0[1]	187.0	189.0[1]	166.0	166.0[1]												
110	B	259.0	335.0[1]	245.0	299.0[1]	232.0	268.0[1]	215.0	239.0[1]	199.0	214.0[1]	181.0	188.0[1]	163.0	163.0	144.0	144.0	128.0	128.0	106.0*	110.0[1]	91.7*	92.9[1]				
	BV	264.0	344.0[1]	249.0	304.0[1]	235.0	271.0[1]	217.0	241.0[1]	201.0	215.0[1]	182.0	189.0[1]	163.0	163.0	144.0	144.0	127.0	127.0								
120	B		333.0[1]	229.0	298.0[1]	218.0	263.0[1]	205.0	238.0[1]	192.0	214.0[1]	175.0	188.0[1]	159.0	161.0[2]	141.0	141.0	126.0	126.0	109.0	109.0	93.1	93.1				
	BV		343.0[1]	233.0	303.0[1]	221.0	267.0[1]	207.0	240.0[1]	193.0	214.0[1]	176.0	189.0[1]	159.0	161.0[2]	141.0	141.0	125.0	125.0	109.0	109.0	93.4	93.4				
130	B		332.0[1]	217.0	297.0[1]	204.0	260.0[2]	193.0	232.0[1]	184.0	213.0[1]	169.0	187.0[1]	154.0	161.0[2]	138.0	140.0[2]	123.0	123.0[2]	108.0	108.0	92.7	92.7				
	BV		343.0[1]	221.0	303.0[1]	208.0	263.0[2]	196.0	234.0[1]	185.0	213.0[1]	170.0	189.0[1]	155.0	161.0[2]	138.0	140.0[2]	123.0	123.0	107.0	107.0	92.1	92.1	79.1	79.1	66.1	66.1
140	B		325.0[2]		295.0[1]	193.0	260.0[2]	182.0	231.0[2]	174.0	207.0[2]	162.0	185.0[1]	149.0	161.0[2]	135.0	141.0[2]	120.0	123.0[2]	106.0	106.0[2]	91.6	91.6				
	BV		337.0[2]		302.0[1]	196.0	263.0[2]	185.0	232.0[2]	176.0	208.0[2]	163.0	183.0[2]	150.0	162.0[2]	135.0	141.0[2]	120.0	123.0[2]	105.0	106.0[2]	90.8	90.8	78.3	78.3	65.8	65.8
150	B		313.0[3]		290.0[2]	184.0	259.0[2]	172.0	230.0[2]	165.0	207.0[2]	155.0	184.0[2]	144.0	162.0[2]	131.0	141.0[2]	118.0	124.0[2]	104.0	107.0[2]	90.1	90.8[2]				
	BV		327.0[3]		298.0[2]	188.0	263.0[2]	174.0	232.0[2]	167.0	208.0[2]	156.0	184.0[2]	144.0	162.0[2]	131.0	141.0[2]	118.0	123.0[2]	104.0	106.0[2]	89.3	90.1[2]	77.1	77.1	65.0	65.0
160	B		303.0[6]		282.0[5]		259.0[2]	163.0	230.0[2]	155.0	207.0[2]	147.0	183.0[2]	138.0	163.0[2]	126.0	142.0[2]	115.0	124.0[2]	101.0	107.0[2]	88.3	90.8[2]				
	BV		318.0[6]		291.0[3]		264.0[2]	166.0	232.0[2]	158.0	208.0[2]	148.0	184.0[2]	139.0	162.0[2]	126.0	142.0[2]	115.0	124.0[2]	102.0	106.0[2]	87.8	90.3[2]	75.9	76.8[2]	64.1	64.1
170	B		291.0[9]		273.0[5]		253.0[3]	156.0	229.0[2]	148.0	206.0[2]	139.0	183.0[2]	131.0	162.0[2]	121.0	142.0[2]	111.0	124.0[2]	98.9	107.0[2]	86.3	90.7[2]				
	BV		303.0[6]		283.0[5]		259.0[3]	160.0	233.0[2]	150.0	208.0[2]	141.0	183.0[2]	132.0	162.0[2]	122.0	142.0[2]	111.0	124.0[2]	99.1	107.0[2]	86.1	90.5[2]	74.6	76.9[2]	63.0	64.0[2]
180	B		273.0[10]		262.0[7]		245.0[4]		225.0[3]	141.0	205.0[2]	132.0	182.0[2]	125.0	160.0[2]	116.0	141.0[2]	107.0	124.0[2]	96.1	107.0[2]	84.1	90.7[2]				
	BV		287.0[6]		274.0[7]		252.0[4]		228.0[3]	144.0	208.0[2]	134.0	183.0[2]	126.0	162.0[2]	117.0	141.0[2]	108.0	124.0[2]	96.2	107.0[2]	84.2	90.7[2]	73.3	77.0[2]	62.0	64.0[2]
190	B		254.0[10]		255.0[10]		237.0[4]		219.0[4]	136.0	202.0[3]	126.0	181.0[2]	118.0	159.0[2]	111.0	140.0[2]	103.0	123.0[2]	93.0	107.0[2]	81.6	90.6[2]				
	BV		270.0[6]		262.0[7]		244.0[6]		224.0[4]	139.0	204.0[2]	128.0	183.0[2]	120.0	161.0[2]	112.0	141.0[2]	104.0	124.0[2]	93.2	107.0[2]	82.0	90.9[2]	71.7	77.1[2]	60.9	63.9[2]
200	B		235.0[10]		239.0[10]		229.0[7]		214.0[5]		197.0[3]	121.0	177.0[3]	113.0	158.0[2]	105.0	139.0[2]	98.4	122.0[2]	89.6	106.0[2]	78.9	90.1[2]				
	BV		254.0[7]		249.0[7]		238.0[7]		219.0[5]		201.0[3]	123.0	181.0[2]	115.0	161.0[2]	107.0	140.0[2]	99.3	123.0[2]	90.1	106.0[2]	79.3	90.6[2]	69.8	77.2[2]	59.4	63.9[2]
220	B		198.0[10]		207.0[10]		208.0[10]		199.0[8]		185.0[5]		170.0[4]	103.0	153.0[3]	94.6	135.0[2]	88.7	119.0[2]	81.6	103.0[2]	73.0	87.5[2]				
	BV		223.0[9]		223.0[7]		218.0[8]		206.0[8]		191.0[5]		174.0[4]	105.0	157.0[3]	96.2	138.0[2]	89.9	121.0[2]	82.4	104.0[2]	73.4	88.4[2]	64.9	75.6[2]	55.7	63.2[2]
240	B		167.0[8]		175.0[10]		182.0[10]		181.0[10]		173.0[9]		160.0[6]		145.0[5]	85.2	130.0[4]	79.4	116.0[3]	73.2	100.0[2]	66.5	85.0[3]				
	BV		195.0[8]		198.0[9]		197.0[8]		189.0[9]		181.0[8]		167.0[2]		152.0[2]	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[8]		148.0[8]		155.0[10]		159.0[10]		160.0[10]		152.0[9]		137.0[6]		124.0[5]	70.7	111.0[4]	64.7	97.3[3]	58.7	83.0[3]				
	BV		169.0[8]		174.0[8]		177.0[9]		173.0[9]		169.0[2]		160.0[2]		147.0[2]		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[6]		126.0[8]		132.0[8]		137.0[10]		141.0[10]		140.0[11]		131.0[9]		118.0[7]		106.0[5]	56.9	93.4[4]	51.3	80.4[4]				
	BV		142.0[6]		150.0[8]		156.0[8]		156.0[9]		155.0[10]		150.0[3]		142.0[2]		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[6]		104.0[6]		112.0[8]		116.0[8]		123.0[10]		124.0[11]		122.0[11]		112.0[9]		101.0[2]		89.9[6]	44.5	77.7[5]				
	BV		123.0[6]		126.0[6]		135.0[8]		138.0[8]		141.0[8]		136.0[5]		133.0[3]		122.0[3]		110.0[3]		94.9[3]	46.1	80.8[4]	41.0	68.8[4]	35.6	56.8[4]
320	B		82.4[6]		87.3[6]		91.6[6]		97.7[8]		104.0[8]		108.0[11]		109.0[11]		104.0[11]		97.0[10]		85.6[2]		74.7[3]				
	BV		104.0[6]		109.0[6]		113.0[6]		119.0[8]		124.0[8]		124.0[8]		121.0[5]		115.0[3]		107.0[3]		92.7[4]		79.1[4]	35.8	67.2[4]	30.2	55.7[4]
340	B				70.8[6]		76.1[6]		78.9[6]		87.1[8]		91.5[9]		95.8[11]		93.3[11]		90.3[11]		82.9[10]		71.9[3]				
	BV				92.3[6]		97.4[6]		99.5[6]		107.0[8]		110.0[9]		110.0[8]		105.0[5]		101.0[4]		90.4[4]		77.4[4]		65.6[4]	26.3	54.3[5]
360	B						60.7[6]		64.4[6]		69.3[6]		75.5[9]		80.3[9]		82.3[11]		80.9[11]		76.6[11]		69.2[10]				
	BV						81.9[6]		85.3[6]		89.6[6]		94.8[9]		97.0[9]		95.2[9]		92.1[6]		86.2[4]		75.7[4]		64.4[5]		53.3[5]
380	B								50.0[6]		55.9[6]		59.0[7]		65.3[9]		68.0[9]		71.6[11]		68.6[11]		64.0[11]				
	BV								71.0[6]		76.2[6]		79.1[7]		83.8[9]		83.9[9]		83.9[9]		79.1[6]		72.7[5]		63.3[5]		52.4[5]
400	B										42.6[6]		46.3[7]		49.7[7]		54.1[9]		58.2[9]		60.5[11]		57.1[11]				
	BV										62.8[6]		66.0[7]		69.4[7]		71.9[9]		73.3[9]		72.2[9]		66.6[6]		62.2[5]		51.5[5]
420	B												33.7[7]		38.4[7]		39.7[7]		45.4[9]		48.2[9]		50.2[11]				
	BV												52.9[7]		57.0[7]		58.7[7]		62.3[9]		62.2[9]		61.3[9]		56.6[7]		49.8[5]
440	B														27.1[7]		29.9[7]		32.0[7]		36.5[9]		39.1[9]				
	BV														44.5[7]		46.8[7]		49.9[7]		52.1[9]		51.9[9]		52.2[9]		46.6[7]
460	B																20.0[7]		23.3[7]				28.8[9]				
	BV																35.0[7]		39.1[7]		40.7[7]		42.5[9]		43.6[9]		42.6[10]
480	B																		14.6[7]								
	BV																		28.3[7]		31.2[7]		31.5[7]		35.0[9]		34.4[9]
500	B																										
	BV																				21.7[7]		22.3[7]				26.4[9]
520	B																										
	BV																						13.1[7]				

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

HSDWB/BV

HS 354





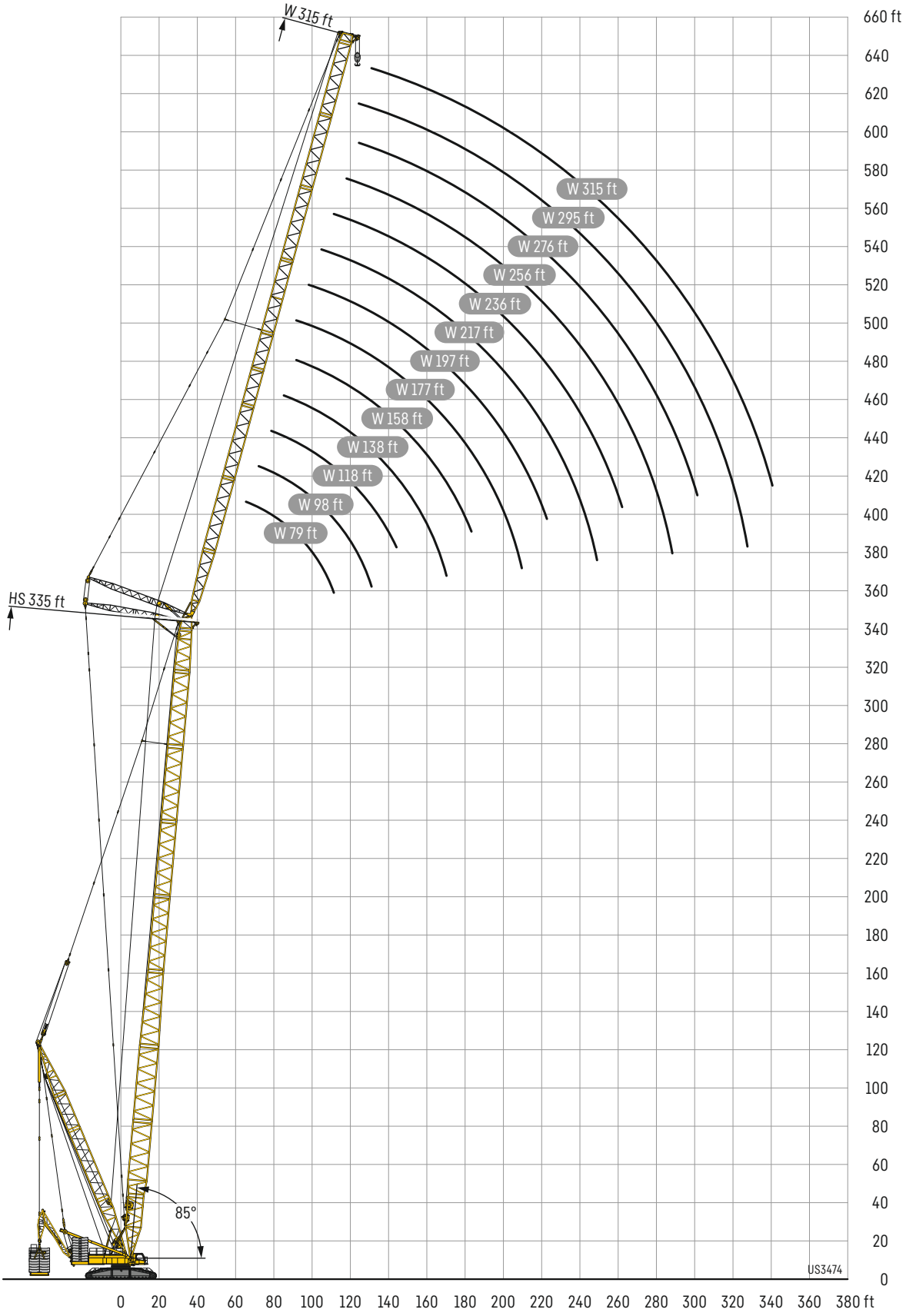
HS 354 ft

ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft	
		87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
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(3)		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(3)		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(1)		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(8)		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(6)		89.9(8)		95.9(8)		100.0(8)										
	BV		105.0(6)		111.0(8)		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(6)		72.2(6)		78.5(8)		84.0(8)										
	BV		89.4(6)		93.5(6)		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(6)		62.0(6)		67.7(8)										
	BV				78.9(6)		82.7(6)		87.7(8)		89.6(9)		89.9(9)		86.4(7)		82.7(5)		76.1(4)
380	B						48.3(6)		52.2(6)										
	BV						68.9(6)		72.4(6)		76.7(9)		78.3(9)		76.9(9)		75.1(7)		69.5(5)
400	B								39.6(6)										
	BV								59.4(6)		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)
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°

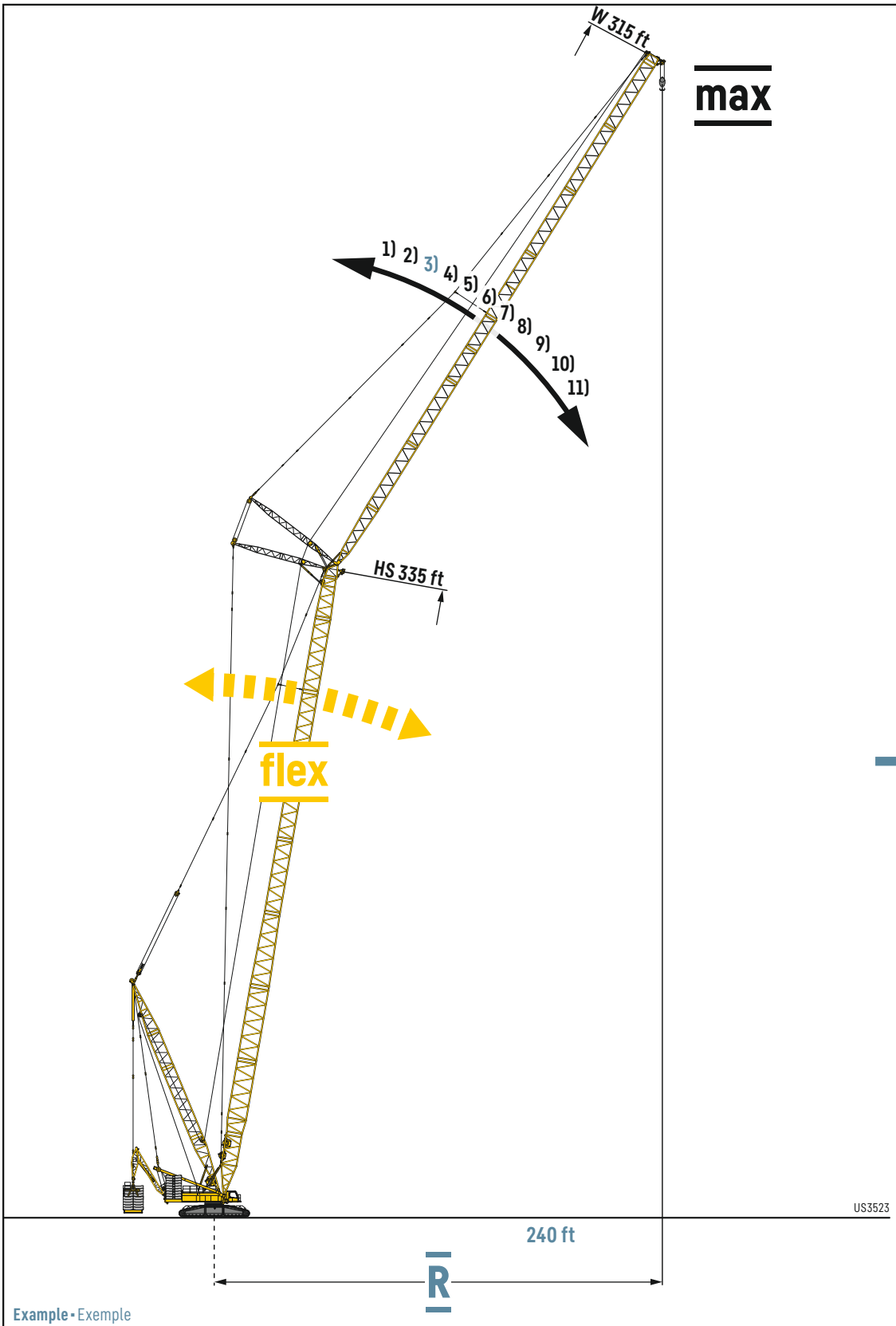
Lifting heights
Hauteurs de levage

HSDWB/BV



Example
Exemple

Wmax

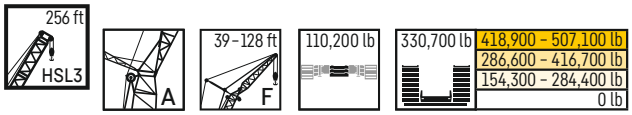


ft		HS 335 ft W 315 ft 87°/85	HS 335 ft W 315 ft Wmax
50	B		
	BV		
60	B		
	BV		
70	B		
	BV		
80	B		
	BV		
90	B		
	BV		
100	B		
	BV		
110	B		
	BV		
120	B		
	BV		
130	B		
	BV	66.1	66.1
140	B		
	BV	65.8	65.8
150	B		
	BV	65.0	65.0
160	B		
	BV	64.1	64.1
170	B		
	BV	63.0	64.0[2]
180	B		
	BV	62.0	64.0[2]
190	B		
	BV	60.9	63.9[2]
200	B		
	BV	59.4	63.9[2]
220	B		
	BV	55.7	63.2[2]
240	B		
	BV	51.4	61.6[3]
260	B		
	BV	47.2	60.1[3]
280	B		
	BV	42.0	58.6[3]
300	B		
	BV	35.6	56.8[4]
320	B		
	BV	30.2	55.7[4]
340	B		
	BV	26.3	54.3[5]
360	B		
	BV		53.3[5]
380	B		
	BV		52.4[5]
400	B		
	BV		51.5[5]
420	B		
	BV		49.8[5]
440	B		
	BV		46.6[7]
460	B		
	BV		42.6[10]
480	B		
	BV		34.4[9]
500	B		
	BV		26.4[9]
520	B		
	BV		

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

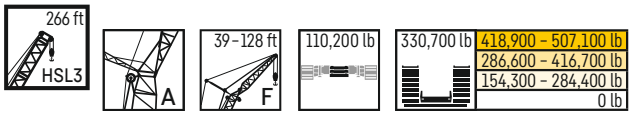
HSL3AF

HSL3 256 – 266



HSL3 256 ft

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



HSL3 266 ft

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

HSL3AF

HSL3 276 – 285











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

HSL3 276 ft

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











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

HSL3 285 ft

ft	F 39 ft			F 49 ft			F 59 ft			F 69 ft			F 79 ft		F 89 ft		F 98 ft		F 108 ft		F 118 ft	F 128 ft	ft
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	30°	30°	
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	12.3	12.4	320

HSL3AF

HSL3 295 – 305











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











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

HSL3AF

HSL3 315 – 335











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

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		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









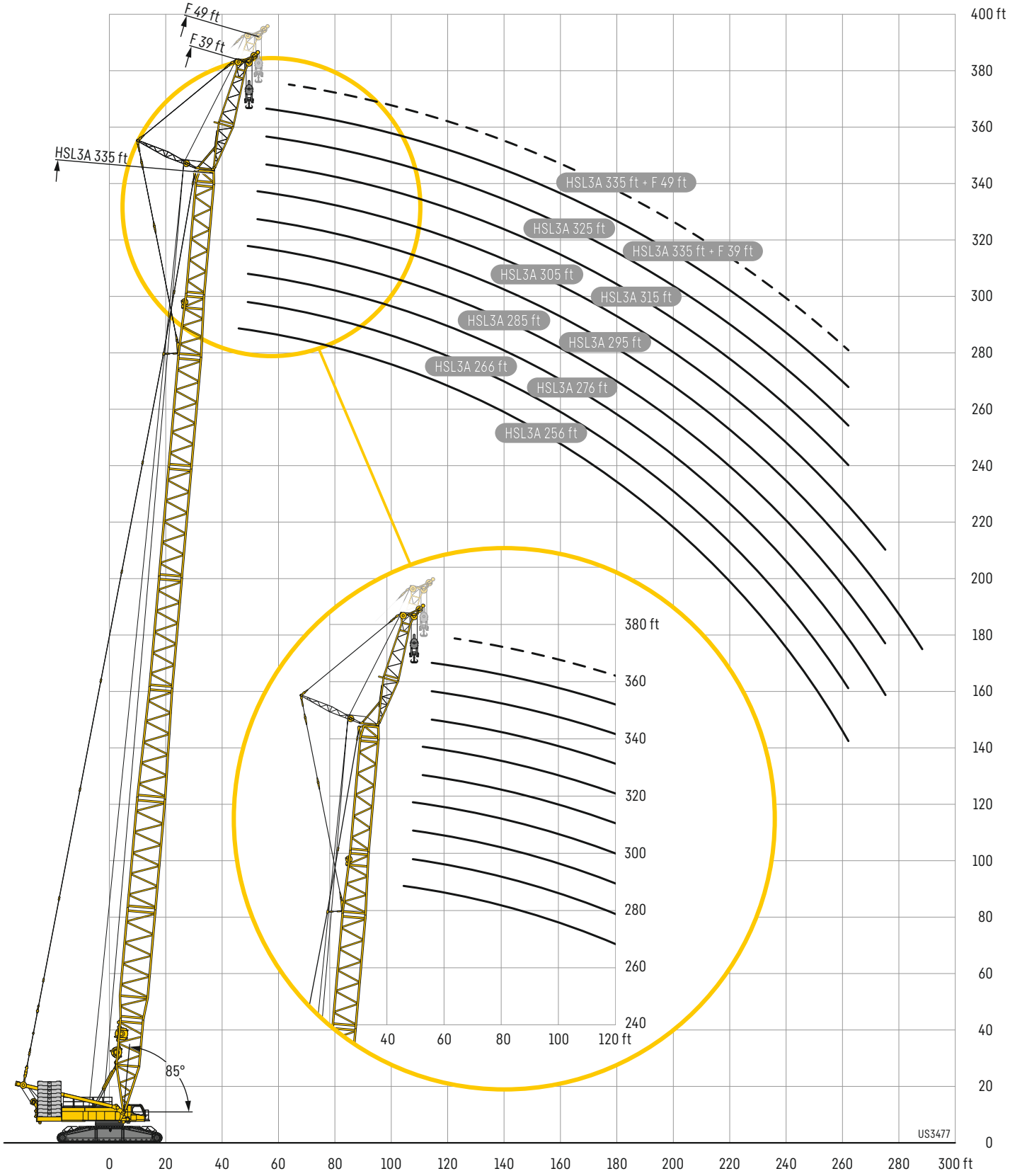


418,900 – 507,100 lb
286,600 – 416,700 lb
154,300 – 284,400 lb
0 lb

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

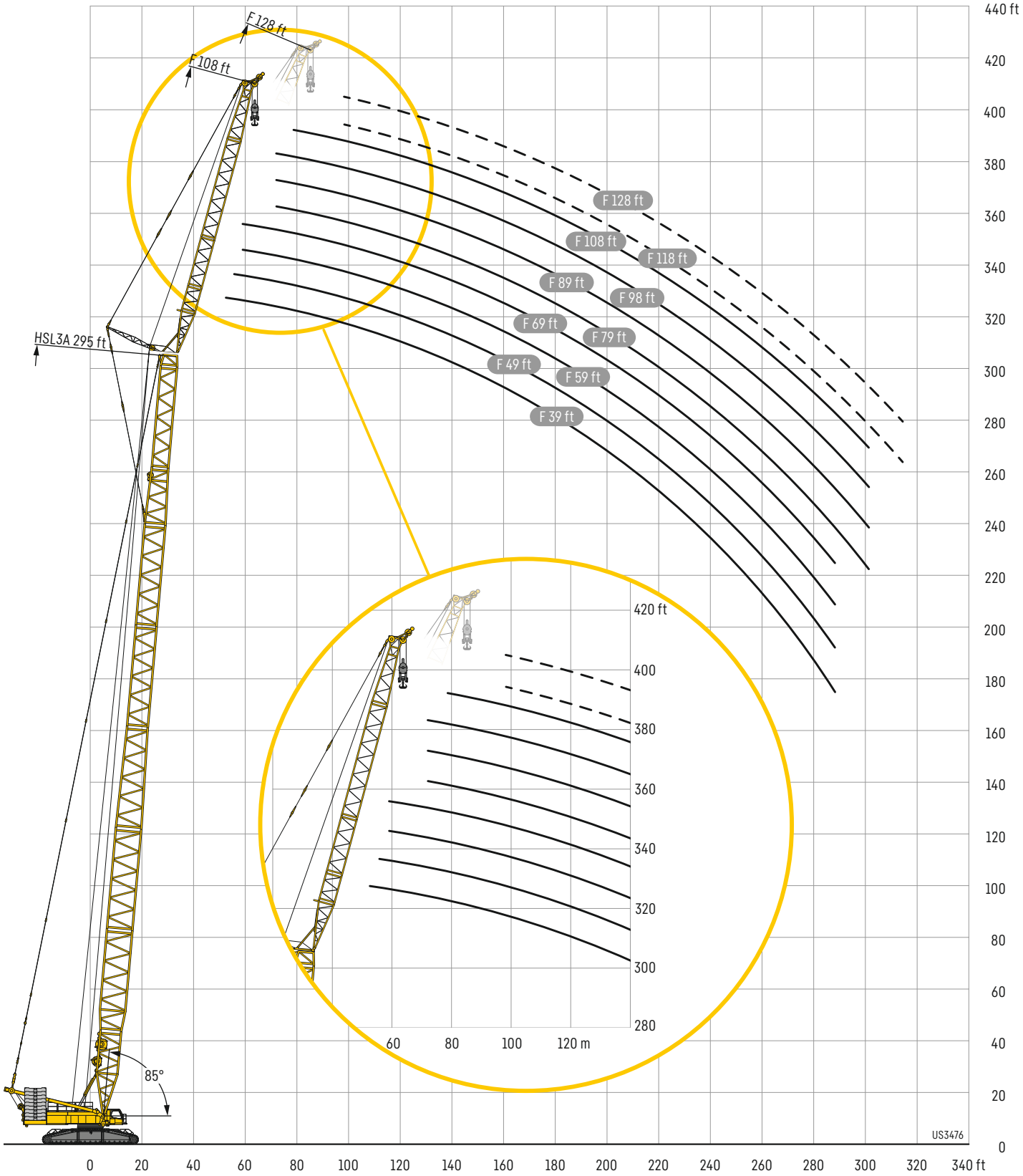
Lifting heights
Hauteurs de levage

HSL3AF



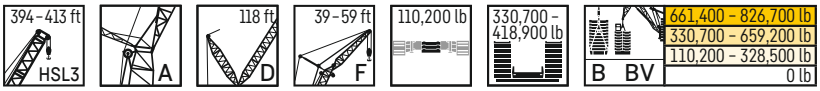
Lifting heights
Hauteurs de levage

HSL3AF

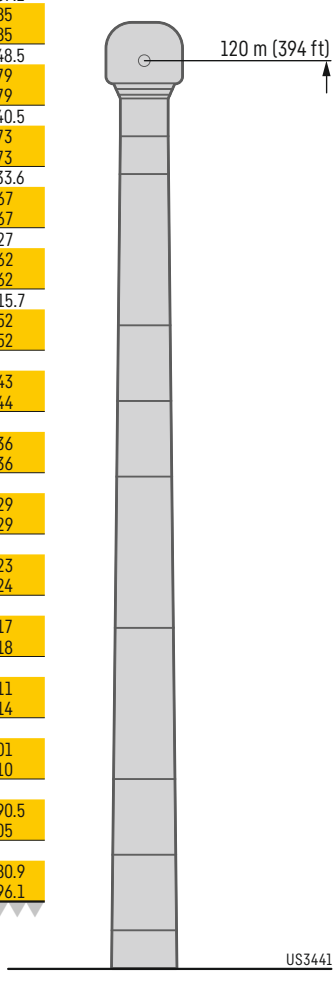


HSL3ADFB/BV

HSL3A 394 – 413

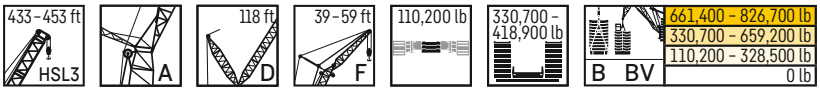


		HSL3 394 ft			HSL3 404 ft			HSL3 413 ft		
		F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
ft		10°								
60	Ot	274			271			218		
	B	317			307			291		
	BV									
70	Ot	229	232	232	227	228	227	225	225	225
	B	317	284	259	306	276	251	291	262	239
	BV	318	285	260	307	277		292	263	
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									
	B	196	171	142	195	170	142	195	172	143
	BV	212	171	142	214	171	142	210	173	144
260	Ot									
	B	175	162	135	174	161	134	174	163	136
	BV	196	163	135	196	162	135	193	164	136
280	Ot									
	B	156	153	128	155	151	128	155	152	129
	BV	178	155	128	177	155	128	176	156	129
300	Ot									
	B	140	141	122	139	138	122	139	138	123
	BV	161	148	122	160	148	122	160	150	124
320	Ot									
	B	125	127	117	124	124	117	124	125	117
	BV	144	142	117	144	140	117	144	141	118
340	Ot									
	B	112	114	111	111	111	112	111	112	111
	BV	130	131	113	129	130	112	130	130	114
360	Ot									
	B	100	102	103	98.9	99.5	101	99.4	100	101
	BV	117	119	109	116	117	109	117	117	110
380	Ot									
	B		91.2	92.4	88.2	88.8	90	88.9	89.5	90.5
	BV		107	105	104	105	103	105	106	105
400	Ot									
	B						80.3		79.9	80.9
	BV						95.7		95.3	96.1

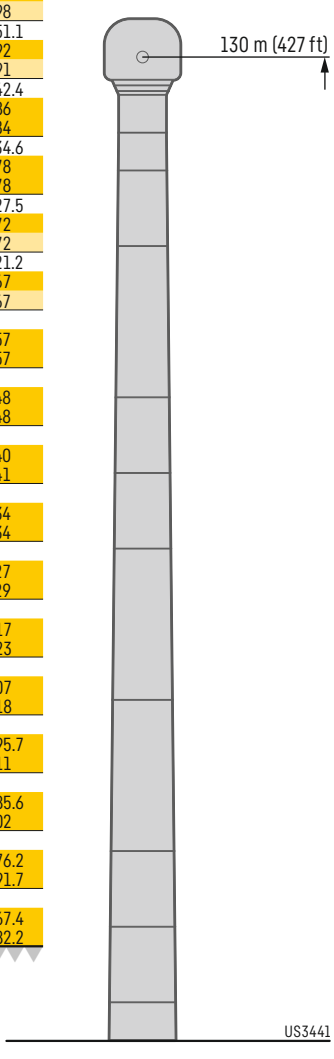


HSL3ADFB/BV

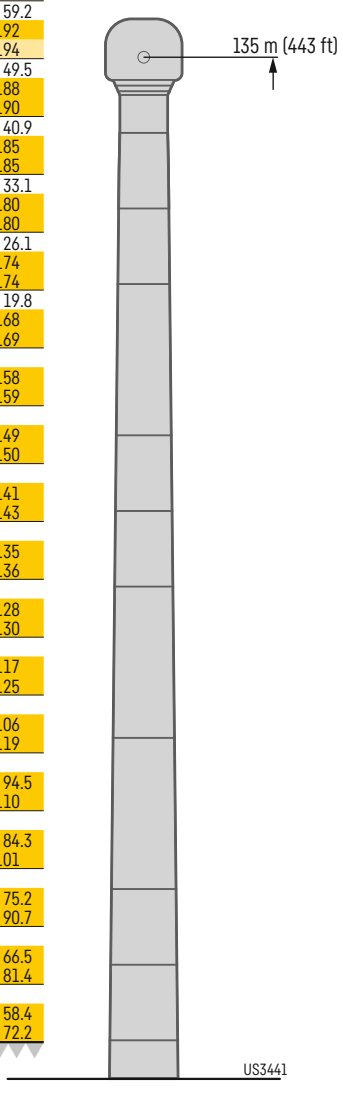
HSL3A 433 – 453



ft		HSL3 433 ft			HSL3 443 ft		
		F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
		10°					
65	Ot	236			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

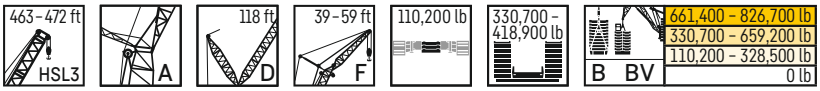


ft		HSL3 453 ft		
		F 39 ft	F 49 ft	F 59 ft
		10°		
65	Ot	227		
	B	249		
	BV			
70	Ot	208	212	
	B	248	228	
	BV	249		
80	Ot	175	179	180
	B	247	227	209
	BV	249	228	210
90	Ot	149	152	153
	B	245	226	209
	BV	247	227	209
100	Ot	126	130	131
	B	242	224	207
	BV	246	226	209
110	Ot	107	111	112
	B	239	221	205
	BV	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

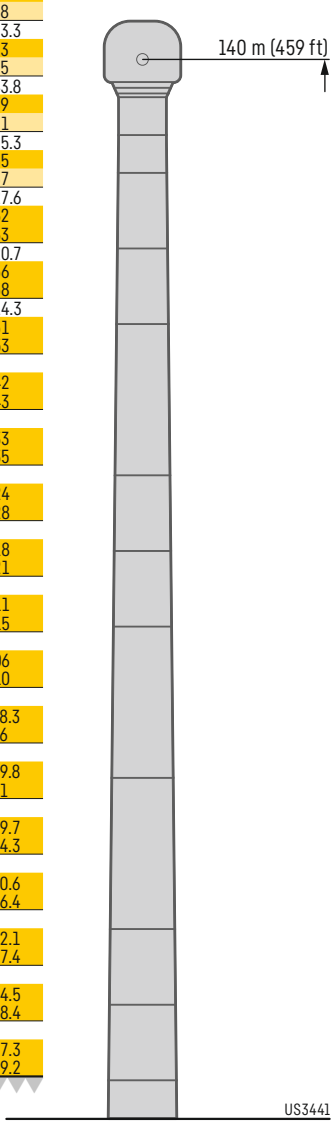


HSL3ADFB/BV

HSL3A 463 – 472

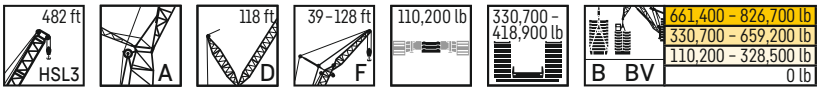


		HSL3 463 ft			HSL3 472 ft		
		F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
ft		10°					
65	Ot	222					
	B	238					
	BV						
70	Ot	203	207		202	203	
	B	237	219		228	210	
	BV	239			225		
80	Ot	171	175	176	170	171	172
	B	236	218	202	226	208	194
	BV	237	219	203	228	209	194
90	Ot	144	148	149	144	145	146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

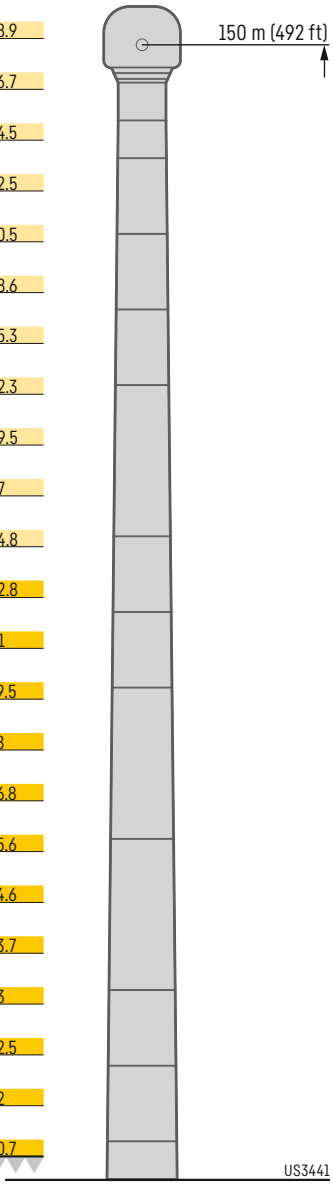


HSL3ADFB/BV

HSL3A 482

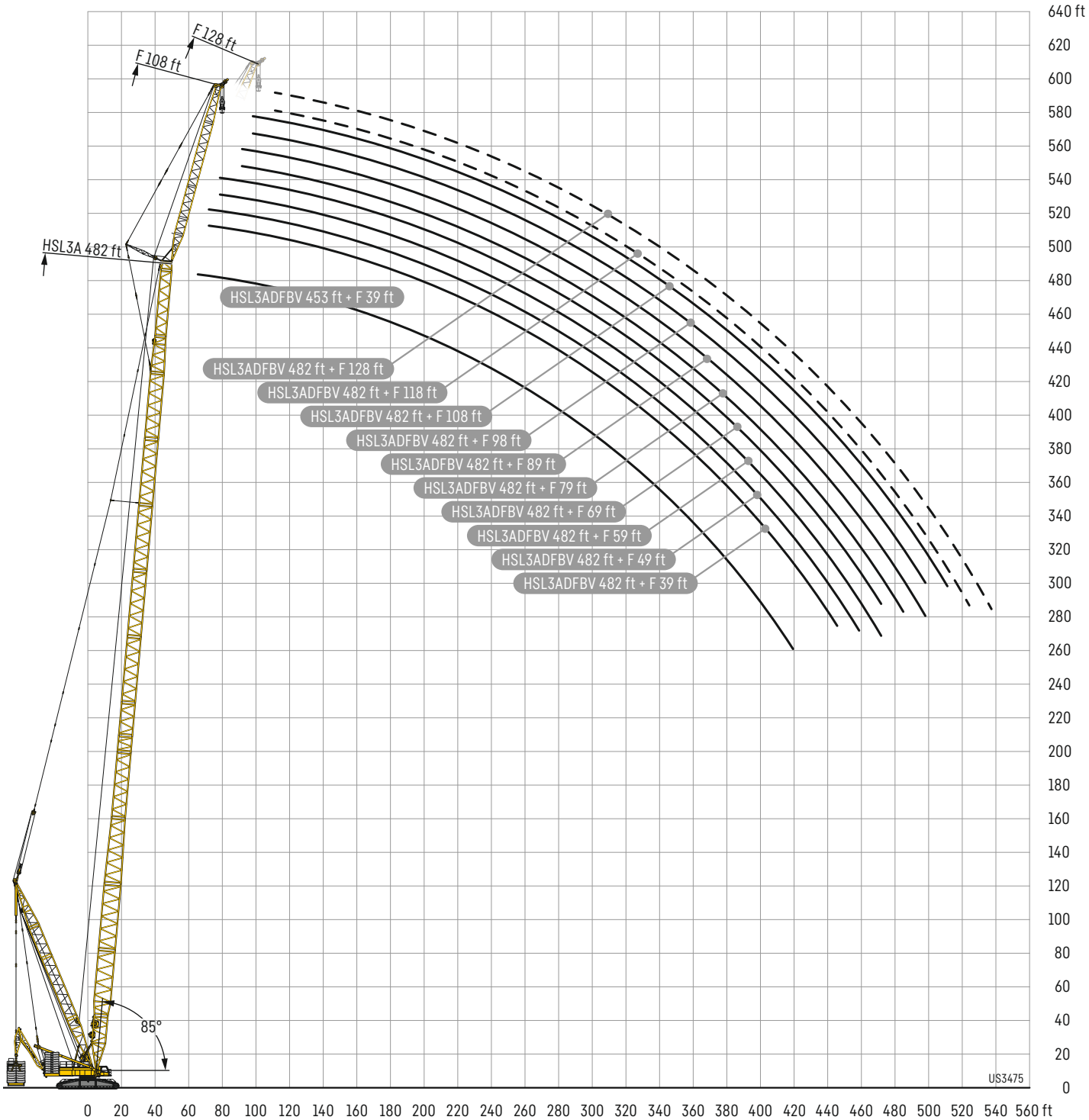


		HSL3 482 ft									
		F 39 ft	F 49 ft	F 59 ft	F 69 ft	F 79 ft	F 89 ft	F 98 ft	F 108 ft	F 118 ft	F 128 ft
ft		10°				15°				30°	
70	Ot	197									
	B	217									
	BV										
80	Ot	166	167	168	167						
	B	217	200	187	175						
	BV	218	201	187							
90	Ot	140	141	142	142						
	B	215	198	185	173						
	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



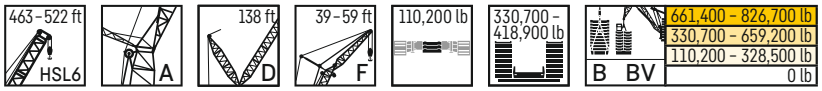
Lifting heights
Hauteurs de levage

HSL3ADFB/BV

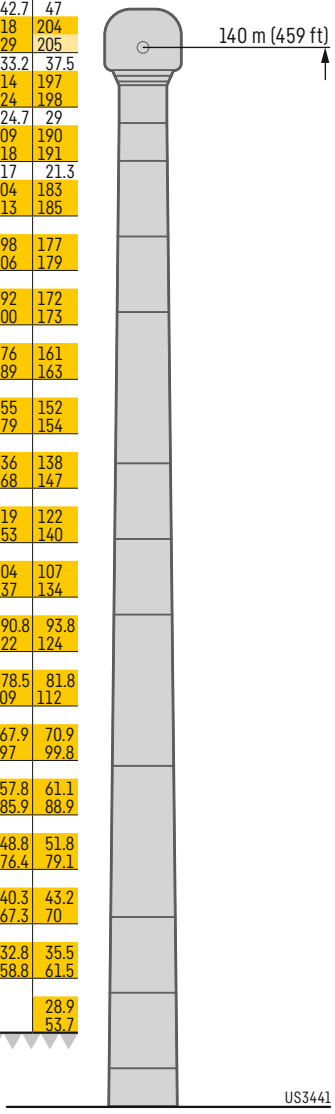


HSL6ADFB/BV

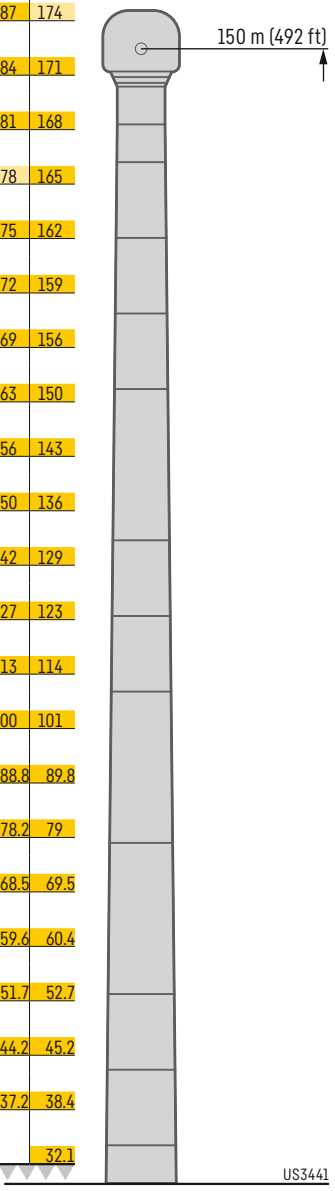
HSL6A 463 – 522



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

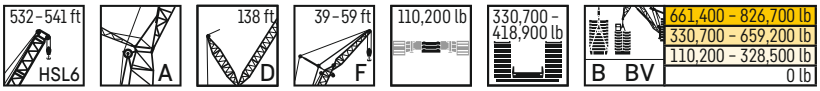


ft		HSL6A 502 ft			HSL6A 512 ft				HSL6A 522 ft		
		F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft		F 39 ft	F 49 ft	F 59 ft
		10°						15°	10°		
70	Ot	184									
	B	233									
	BV										
80	Ot	154									
	B	232									
	BV	235	217		224	209			213	199	
90	Ot	128									
	B	231									
	BV	235	216	200	224	208	192	183	213	198	185
100	Ot	107									
	B	229									
	BV	233	214	199	222	206	191	182	212	196	183
110	Ot	89.3									
	B	225									
	BV	231	212	197	221	204	189	181	211	194	180
120	Ot	73.7									
	B	222									
	BV	228	209	194	219	202	187	179	208	192	178
130	Ot	60.3									
	B	218									
	BV	225	206	191	216	199	185	177	206	189	176
140	Ot	48.6									
	B	214									
	BV	222	204	189	214	196	182	175	203	187	174
150	Ot	38.2									
	B	210									
	BV	219	201	186	211	194	180	172	200	184	171
160	Ot	28.9									
	B	206									
	BV	216	197	182	208	191	177	170	197	181	168
170	Ot	20.5									
	B	201									
	BV	212	194	179	205	188	174	168	194	178	165
180	Ot										
	B	195									
	BV	209	190	175	202	185	171	164	190	175	162
190	Ot										
	B	188									
	BV	205	187	172	199	182	169	160	187	172	159
200	Ot										
	B	182									
	BV	201	183	168	196	179	165	156	183	169	156
220	Ot										
	B	167									
	BV	193	176	161	189	173	159	149	177	163	150
240	Ot										
	B	150									
	BV	184	169	154	182	167	153	142	170	156	143
260	Ot										
	B	131									
	BV	167	162	146	164	159	147	136	158	150	136
280	Ot										
	B	114									
	BV	149	150	140	147	147	140	130	143	142	129
300	Ot										
	B	99.2									
	BV	133	133	133	130	131	130	125	127	127	123
320	Ot										
	B	86.1									
	BV	118	119	120	116	116	117	117	113	113	114
340	Ot										
	B	74.5									
	BV	105	106	107	103	103	104	105	100	100	101
360	Ot										
	B	63.7									
	BV	93.3	93.7	94.8	91.2	91.4	92.7	93.5	88.1	88.8	89.8
380	Ot										
	B	54.1									
	BV	82.7	83.2	84	80.6	80.9	81.9	82.7	77.7	78.2	79
400	Ot										
	B	45.1									
	BV	72.9	73.1	74.3	70.7	71.2	72.3	73	67.9	68.5	69.5
420	Ot										
	B	36.7									
	BV	64.1	64.7	65.6	62.2	62.5	63.3	64	59.4	59.6	60.4
440	Ot										
	B	29.6									
	BV	55.7	56.4	57.5	53.9	54.4	55.4	56.1	51.3	51.7	52.7
460	Ot										
	B	23.5									
	BV	47.9	48.6	49.8	46.1	46.8	47.9	48.5	43.7	44.2	45.2
480	Ot										
	B										
	BV		41.5	42.5		39.7	40.8	41.2	36.6	37.2	38.4
500	Ot										
	B										
	BV										32.1



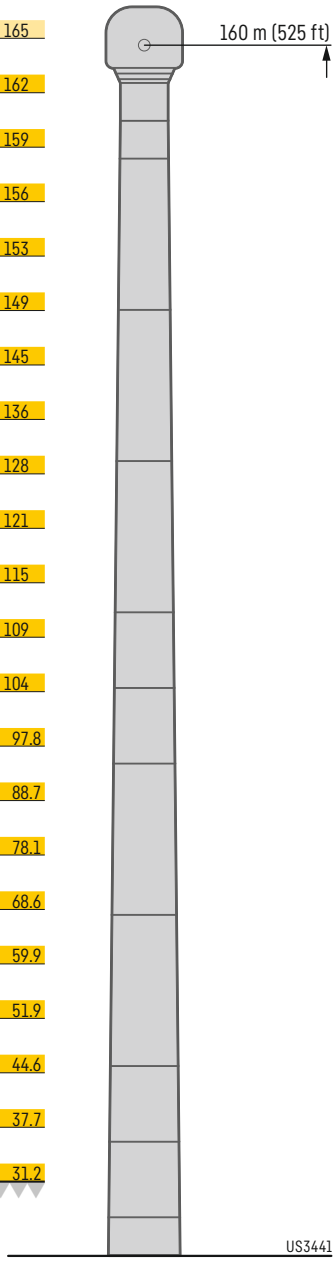
HSL6ADFB/BV

HSL6A 532 – 541



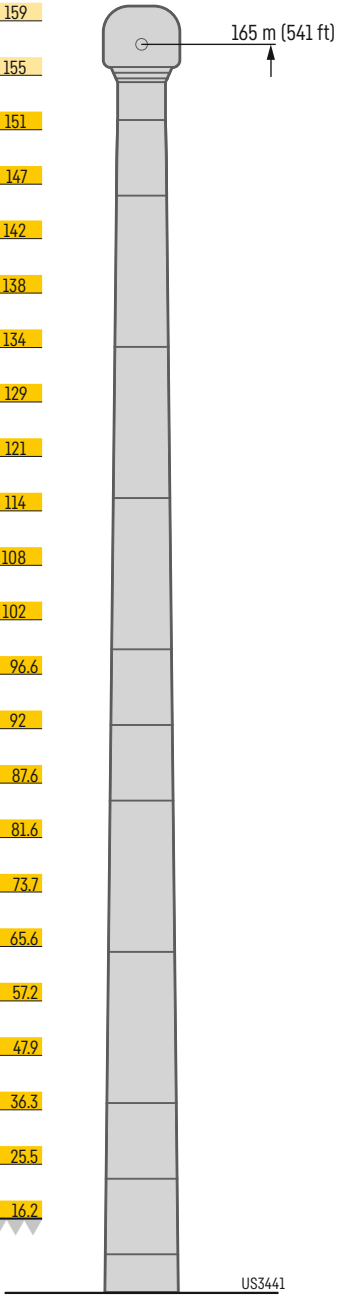
HSL6A 532 ft

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



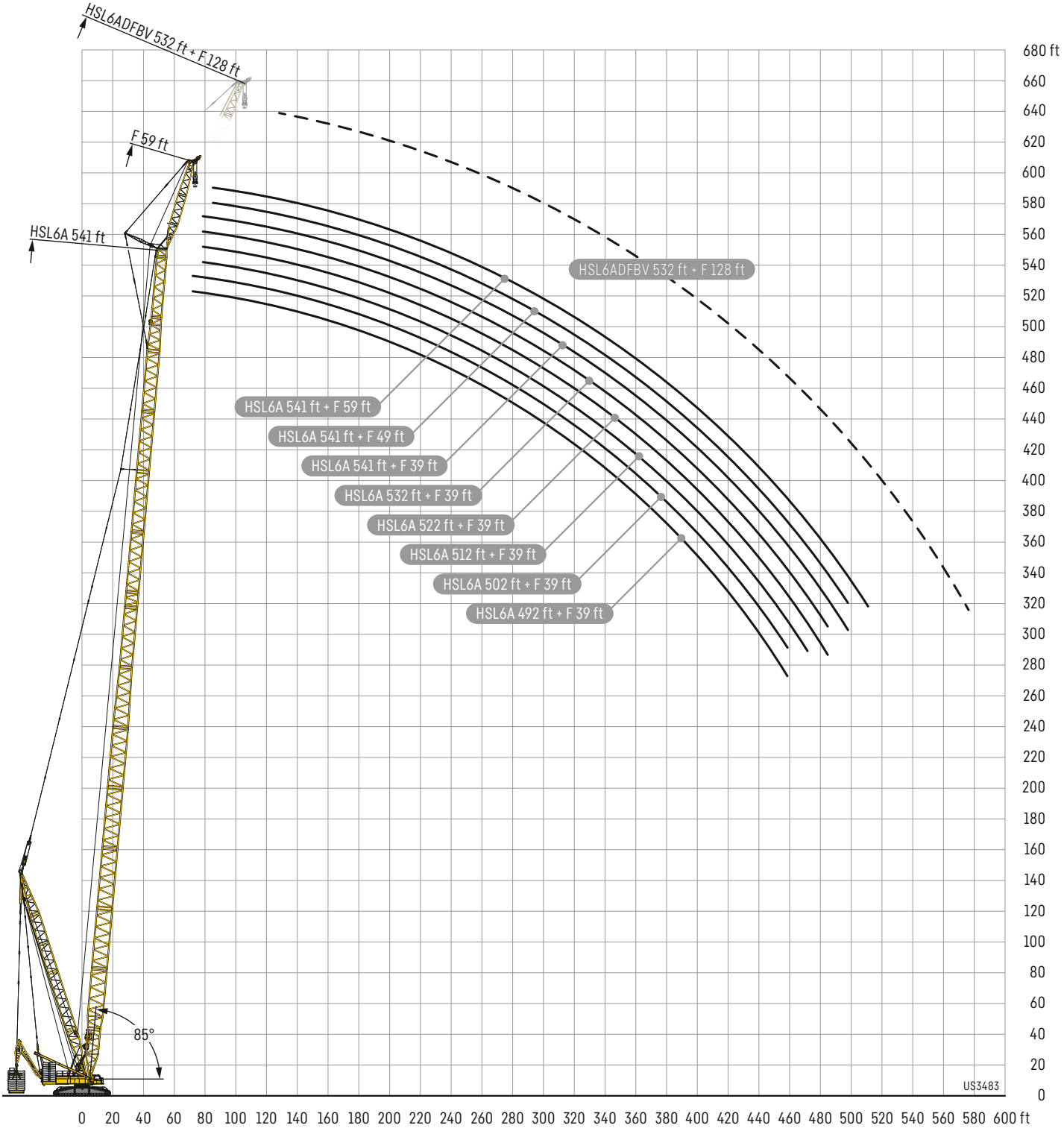
HSL6A 541 ft

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



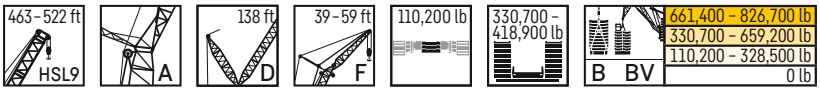
Lifting heights
Hauteurs de levage

HSL6ADFB/BV

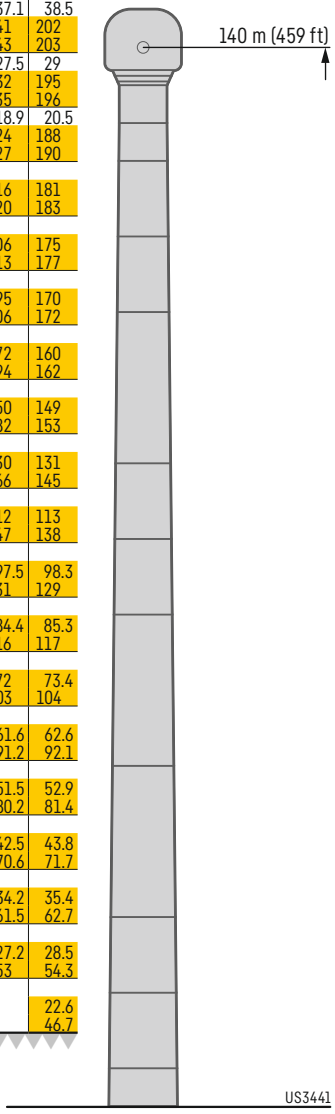


HSL9ADFB/BV

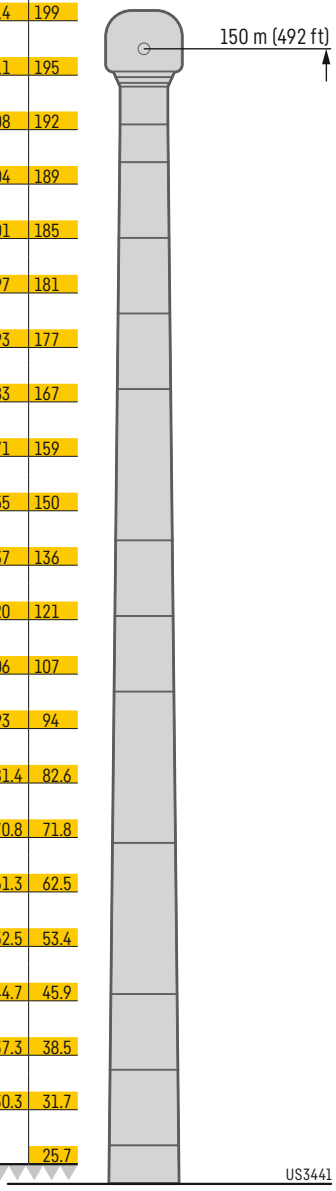
HSL9A 463 – 522



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
		10°					
65	Ot	173					
	B	304					
	BV	307					
70	Ot	190	191		186	188	
	B	304	275		294	267	
	BV	307	277		297	269	
80	Ot	158	159	160	154	156	157
	B	303	274	251	294	266	244
	BV	307	277	253	297	269	246
90	Ot	132	133	134	128	130	131
	B	302	273	249	293	266	243
	BV	306	277	251	297	269	246
100	Ot	109	111	112	107	108	110
	B	301	272	241	291	264	241
	BV	306	276	242	297	268	242
110	Ot	90.8	92.1	93.6	88.2	89.4	91.1
	B	297	269	232	288	261	233
	BV	305	275	233	295	268	233
120	Ot	74.7	76.2	77.5	72.3	73.6	75.2
	B	292	264	224	284	259	224
	BV	303	268	224	293	265	225
130	Ot	60.7	62.3	63.6	58.4	59.9	61.4
	B	285	257	215	280	255	216
	BV	301	258	216	291	260	217
140	Ot	48.6	50	51.5	46.3	47.8	49.2
	B	279	247	208	270	249	209
	BV	295	249	208	284	251	210
150	Ot	37.9	39.2	40.8	35.6	37.1	38.5
	B	269	238	200	260	241	202
	BV	284	240	200	273	243	203
160	Ot	28.3	29.6	31.2	26.2	27.5	29
	B	257	229	193	248	232	195
	BV	273	231	193	263	235	196
170	Ot	19.8	21	22.6	17.7	18.9	20.5
	B	245	221	186	238	224	188
	BV	264	223	187	253	227	190
180	Ot			14.9			
	B	230	213	180	225	216	181
	BV	254	216	180	245	220	183
190	Ot						
	B	215	206	174	211	206	175
	BV	245	209	175	236	213	177
200	Ot						
	B	201	197	168	197	195	170
	BV	236	203	169	228	206	172
220	Ot						
	B	174	175	158	171	172	160
	BV	216	191	159	210	194	162
240	Ot						
	B	152	152	148	149	150	149
	BV	191	181	151	188	182	153
260	Ot						
	B	132	132	133	129	130	131
	BV	169	168	143	166	166	145
280	Ot						
	B	114	115	116	112	112	113
	BV	149	150	136	147	147	138
300	Ot						
	B	99.6	100	101	97	97.5	98.3
	BV	133	134	130	130	131	129
320	Ot						
	B	86.1	87	87.9	83.8	84.4	85.3
	BV	118	119	119	116	116	117
340	Ot						
	B	74	74.7	75.6	71.6	72	73.4
	BV	105	105	106	102	103	104
360	Ot						
	B	62.9	63.8	65	60.9	61.6	62.6
	BV	92.5	93.4	94.4	90.6	91.2	92.1
380	Ot						
	B	52.9	53.7	54.8	50.9	51.5	52.9
	BV	81.7	82.4	83.2	79.8	80.2	81.4
400	Ot						
	B	43.4	44.3	45.7	41.6	42.5	43.8
	BV	71.5	72.4	73.6	69.9	70.6	71.7
420	Ot						
	B	35.2	36	37.2	33.5	34.2	35.4
	BV	62.4	63.2	64.4	60.8	61.5	62.7
440	Ot						
	B		28.8	29.8	26.6	27.2	28.5
	BV		54.8	56	52.4	53	54.3
460	Ot						
	B						22.6
	BV						46.7

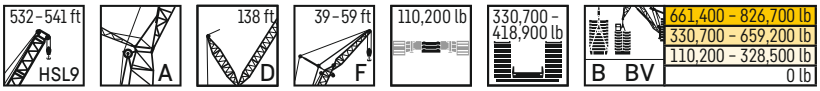


ft		HSL9A 502 ft			HSL9A 512 ft			HSL9A 522 ft		
		F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft	F 39 ft	F 49 ft	F 59 ft
		10°								
70	Ot									
	B									
	BV	266			253			241		
80	Ot									
	B									
	BV	266	244	224	254	235	217	241	227	209
90	Ot									
	B									
	BV	267	243	224	254	235	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
320	Ot									
	B									
	BV	108	109	112	106	109	110	103	106	107
340	Ot									
	B									
	BV	95.5	96.1	99.4	93.4	96.3	97.2	90.2	93	94
360	Ot									
	B									
	BV	83.7	84.1	87.5	81.5	84.3	85.7	78.2	81.4	82.6
380	Ot									
	B									
	BV	73.2	73.9	76.9	71.2	73.9	75.1	68	70.8	71.8
400	Ot									
	B									
	BV	63.6	64.1	67.2	61.4	64.2	65.5	58.4	61.3	62.5
420	Ot									
	B									
	BV	55	55.6	58.5	53.2	55.6	56.6	50.1	52.5	53.4
440	Ot									
	B									
	BV	46.8	47.5	50.3	45.2	47.5	48.7	42.2	44.7	45.9
460	Ot									
	B									
	BV	39.2	39.8	42.7	37.6	39.9	41.2	34.9	37.3	38.5
480	Ot									
	B									
	BV		33	35.6		33	34.1	28.4	30.3	31.7
500	Ot									
	B									
	BV									25.7

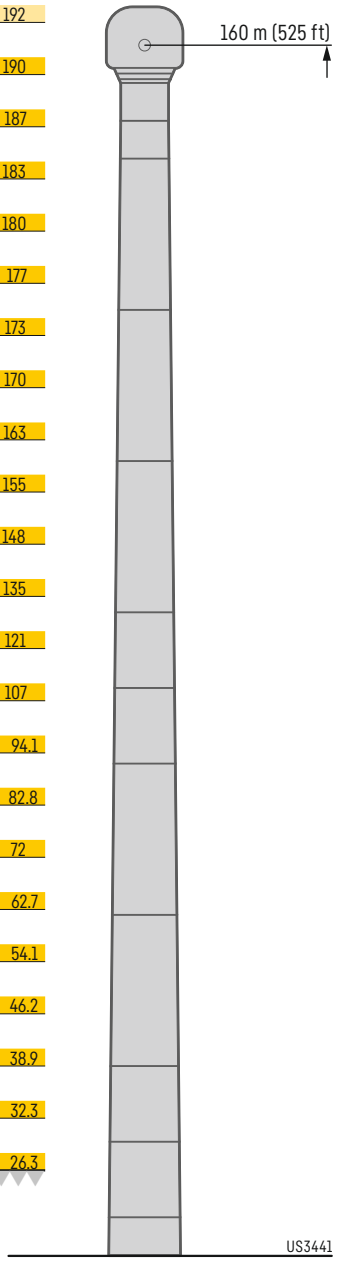


HSL9ADFB/BV

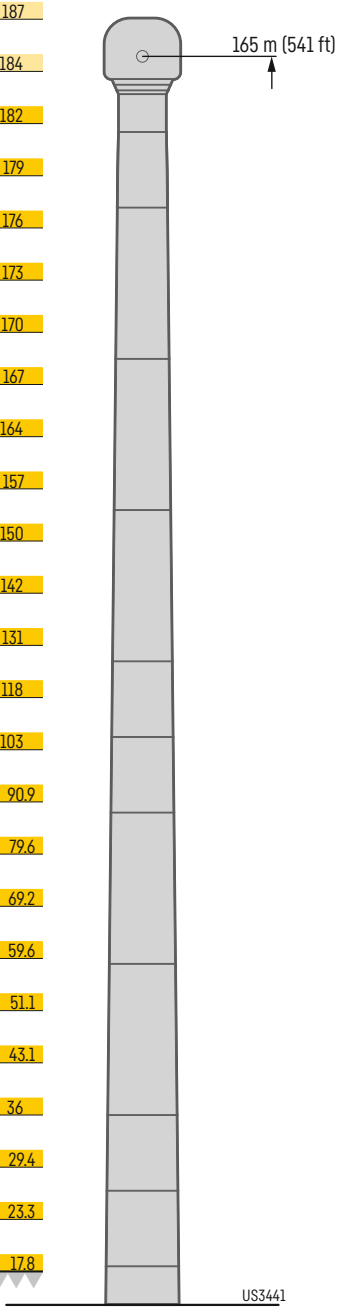
HSL9A 532 – 541



ft	Ot B BV	HSL9A 532 ft F39 ft 10°	F49 ft 10°	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

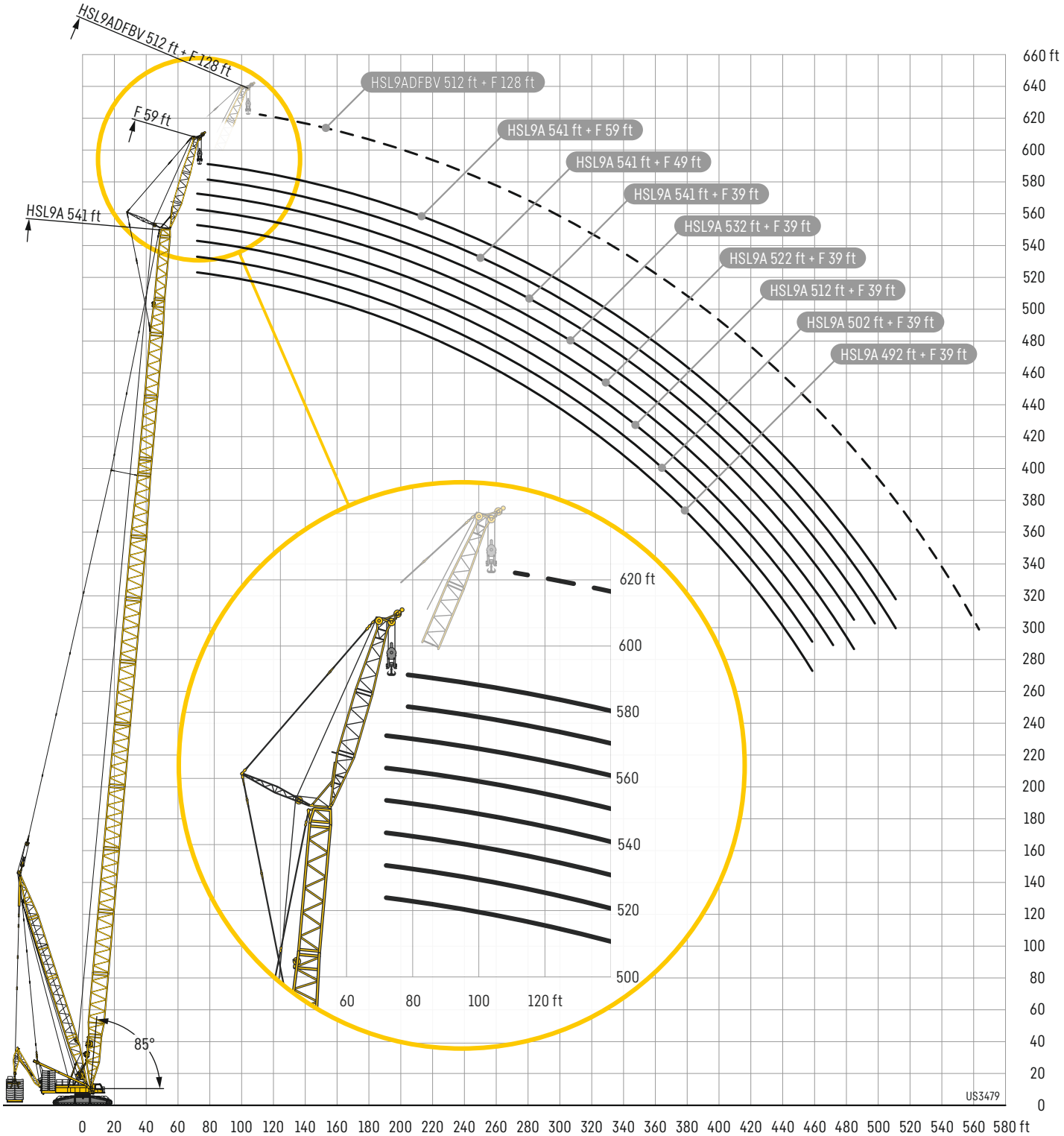


ft	Ot B BV	HSL9A 541 ft F39 ft 10°	F49 ft 10°	F59 ft 10°
75	Ot			
	B			
	BV	220		
80	Ot			
	B			
	BV	220	207	194
90	Ot			
	B			
	BV	219	207	193
100	Ot			
	B			
	BV	218	205	191
110	Ot			
	B			
	BV	217	203	189
120	Ot			
	B			
	BV	215	201	187
130	Ot			
	B			
	BV	214	198	184
140	Ot			
	B			
	BV	213	196	182
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



Lifting heights
Hauteurs de levage

HSL9ADFB/BV



Description of symbols
Explication des symboles



Max. capacity
Capacité max.



Max. boom length
Longueur maxi. de la fleche principale



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



Counterweight
Contrepoids



Central ballast
Contrepoids central



Width crawler chassis
Largeur du train de chenilles



Hoist gear
Treuil de levage



Working speeds
Witesses



Max. single line pull
Effort au brin maxi.



Rope diameter
Diamètre



Rope length
Longueur du câble



Slewing speeds
Vitesses d'orientation



Driving speed
Vitesse de translation



Load
Forces de levage



Hookblock/Capacity
Moufle à crochet/Capacité de charge



Weight
Poids



No. of lines
Brins



No. of sheaves
Poulies



Radius
Portée



Main boom, heavy
Flèche principale, lourde



Main boom, heavy/light
Flèche principale, loudre/légère



Main boom S2
Flèche principale S2



Derrick system D
Système derrick D



Luffin fly jib, heavy
Flèchette, lourde



Fixed lattice jib F
Flechette a treillis fixe F



Adapter A
Piece d'adaptateur A



Counterweight frame B
Palette de lest B



Suspended ballast V-Frame®
V-Frame® de contrepoids suspendu



Counterweight trailer M-Wagon
Remorque à contrepoids M-Wagon

Remarks

1.	The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2.	For the calculation of the load charts at least a wind speed of 29 ft/s (9 m/s, 20.1 miles/hour) and regarding the load a sail area of 1 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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Documents

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LICCON Work Planner

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Digital Crane Operator

Maintenance
Parts Shop

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

Subject to modification · Sous réserve de modifications

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