

Crawler Crane Grue sur chenilles

LR 1600/2

Technical Data
Caractéristiques techniques

H-Boom Kit



LIEBHERR

LR 1600/2

LIEBHERR

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SLF

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Technical description

Description techniques

A

Max. capacity	1322 kips at 39 ft radius HSDB – System with HS 138 ft.
Max. load moment	64.094.150 lbs-ft – 870 kips at 72 ft radius. HSDB2 – System with HS 138 ft

Crawler travel gear

Crawler chassis	Liebherr crawler chassis consisting of one centre section and two crawler carriers with crawler plates 4'11" (optional 6'7") and quadruple drive.
Central ballast	2 brackets 5500 lbs each. Total central ballast 143300 lbs. 6 ballast plates 22050 lbs each (option).

Crane superstructure

Superstructure frame	Liebherr-slewing platform frame, consisting of slewing platform with winch IV and removable A-frame, connected to the centre section by a roller slewing bearing.
Crane engine with sound insulation	6-cylinder diesel engine, make Liebherr, type D946 A7, water cooled, rated power 400 kW (544 HP) at 1900 rpm, max torque 1856 lbs-ft at 1300 rpm. Fuel tank approx. 314 gallons, exhaust emission according to directive 97/68/EG and EPA/CARB.
Winch I	Standard hoist drum, hydraulically driven by axial-piston swivel pumps with integrated planetary gear.
Winch IV	Boom hoist.
Reeving winch	Auxiliary winch for the reeving of ropes.
Slewing gear	1 slewing gear, hydraulically powered by axial-piston swivel pump, with integrated planetary gear.
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 two 4-way joystick hand levers and two 2-way hand/foot levers. All working movements are independently controllable.
Safety devices	Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light.
Camera observation	2 colour-screens, 3 cameras for winches and rear area.
Counterweight	2 brackets 11025 lbs each. Total counterweight at superstructure 418950 lbs. 18 ballast plates 22050 lbs each (option).

Boom system

Main boom HS	System 2825 with head section for max. 1322774 lbs load capacity. Boom length S 79 – S 315 ft. Boom length HSDB 118 – HSDB 472 ft with derrick system.
Lattice type luffing fly jib W	System 2420 with head section for max. 1322774 lbs load capacity. Luffing jib lengths 79 – 315 ft. Winch V is needed for all luffing jib operations.
Fixed lattice fly jib F	System 1916 with head section for max. capacity of 302000 lbs, attachable at 10°, 15° and 30°, jib lengths F 39 – F 118 ft.
Derrick system D	System 2420 including guy rods. Winch III is needed for all derrick operations. Length 98 ft/118 ft.
Counterweight frame B	For max. derrick counterweight of 771600 lbs, for infinitely variable radius from 33 – 59 ft.
Counterweight trailer BW	For max. derrick counterweight of 771600 lbs at max. radius of 59 ft, infinitely variable radii from 43 – 59 ft.
Derrick-Counterweight	Plates for a total of 771600 lbs.
Heavy duty jib WV	Using existing parts of main boom and luffing jib. Mountable on S-main boom; tiltable between 12° and 20°. Length 39 – 315 ft.
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 79365 lbs	To be mounted on the S, SL, W, WV-boom 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. Consisting of 4 lifting cylinders with supporting plates, installed on the centre part.
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 W intermediate sections.

Other items of equipment available on request.
Standard equipment and options according to effective price list.

Technical description Description techniques

Capacité max.	1322 kips pour une portée de 39 ft. Système HSDB avec HS 138 ft.
Couple de charge max.	64.094.150 lbs-ft – 870 kips pour une portée de 72 ft. Système HSDB2 avec HS 138 ft.

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 4'11" (en option 6'7") et un entraînement à 4 positions.
Contrepoids central	2 consoles de 5500 lbs. Contrepoids central total 143300 lbs. 6 plaques de lest de 22050 lbs (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 A, 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, type D946 A7, refroidissement par eau, puissance 400 kW (544 PS) à 1900 rpm, couple de rotation max. 1856 lbs-ft à 1300 rpm. Réservoir de carburant: env. 314 gallons. Emissions polluantes conformes aux normes 97/68/EG et EPA/CARB.
Treuil I	Treuil de levage standard, il est entraîné hydrauliquement par des pompes à débit variable à pistons axiaux avec réducteur planétaire intégré.
Treuil IV	Mécanisme de relevage.
Treuil de mouflage	Treuil auxiliaire pour le mouflage des câbles.
Mécanisme d'orientation	1 mécanisme d'orientation, il est entraîné hydrauliquement par des pompes à débit variable à pistons axiaux avec réducteur planétaire intégré.
Cabine du grutier	La cabine du grutier est climatisée, inclinable vers l'arrière, possède un vitrage de sécurité, un vitrage isolant thermiquement, une fenêtre de toit en verre blindé, des unités de commande normalisées disposées de façon ergonomique. Chauffage d'appoint et chauffage de l'eau régulé thermostatiquement.
Commande de la grue	Entrée des données de configuration par des fonctions interactives simples. Tous les mouvements de la grue sont commandés par deux manipulateurs à 4 voies et deux pédale/levier à 2 voies. Tous les mouvements de travail peuvent être commandés indépendamment.
Dispositifs de sécurité	Interrupteur de fin de course. Clapets de sécurité contre les ruptures de tuyaux et de flexibles. Coupure de fin de course du tambour avec 3 enroulements de sécurité. Anémomètre de sécurité. Inclinomètre électronique. Balise aérienne.

Contrôle vidéo	2 écrans couleur, 3 caméras pour la zone de treuils et la partie arrière.
Contrepoids	2 consoles de 11025 lbs chacune. Contrepoids total 418950 lbs. 18 plaques de lest à 22050 lbs (option).

Système de flèche

Flèche principale HS	Système 2825 avec élément de tête pour une capacité max. de 1322774 lbs. Longueur de la flèche S 79 – S 315 ft. Longueur de la flèche HSDB 118 – HSDB 472 ft avec système derrick.
Fléchette treillis à volée variable W	Système 2420 avec élément de tête pour une capacité max. de 1322774 lbs. Longueurs de flèche treillis 79 – 315 ft. Le treuil V est nécessaire pour fonctionnement fléchette treillis.
Fléchette treillis fixe F	Système 1916 avec élément de tête pour une capacité max. de 302000 lbs, montage possible sous 10°, 15° et 30°. Longueurs de flèche F 39 – F 118 ft.
Système derrick D	Le système 2420 comprend des tirants. Le treuil III est nécessaire au mode derrick. Longueur 98 ft/118 ft.
Palette de lest B	Pour un contrepoids derrick max. de 771600 lbs et rayons variables progressivement de 33 – 59 ft.
Remorque à contrepoids BW	Pour un contrepoids derrick max. de 771600 lbs pour un rayon max. de 59 ft, pour des rayons variables progressivement de 43 – 59 ft.
Contrepoids derrick	Plaques de poids total de 771600 lbs.
Fléchette pour charge lourde WV	Utilisation des parties disponibles de la flèche principale et de la fléchette treillis. Montage possible au niveau de la flèche S entre 12° et 20°. Longueur 39 – 315 ft.
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.
Poulie en extrémité de mât 79365 lbs	Elle sert au montage au niveau de la tête S, SL, W, WV.

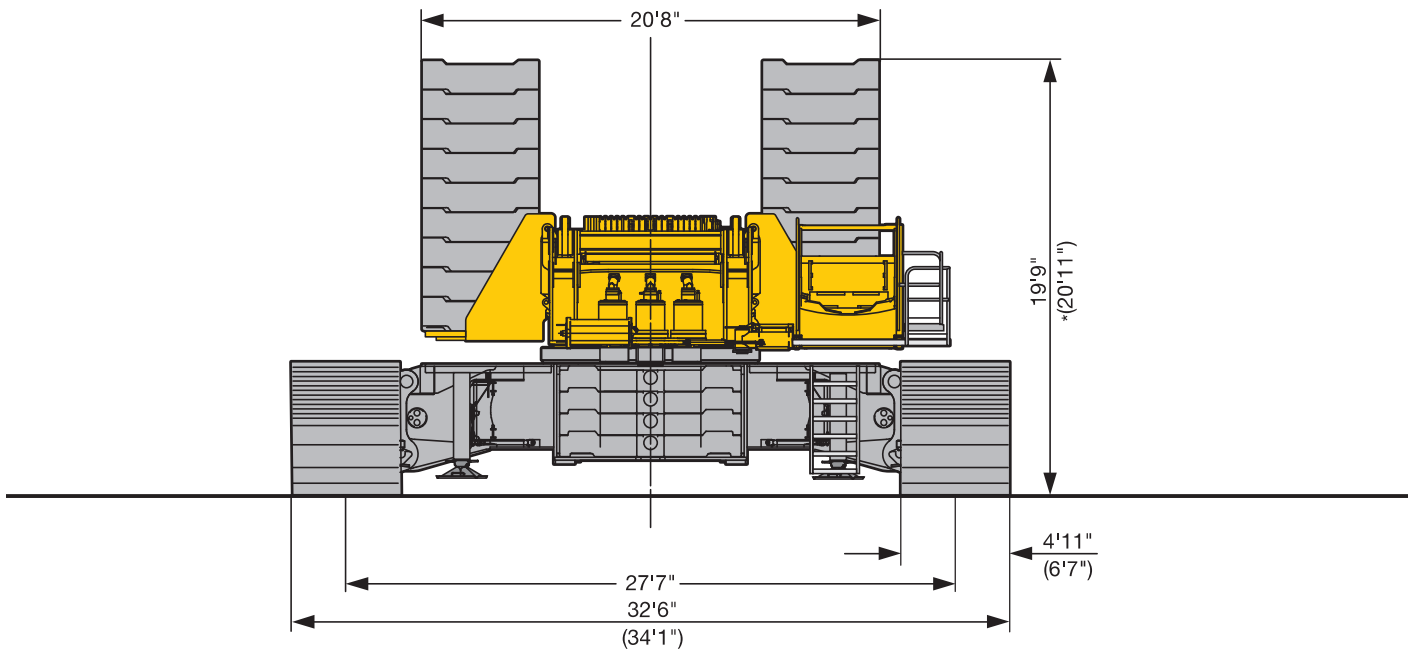
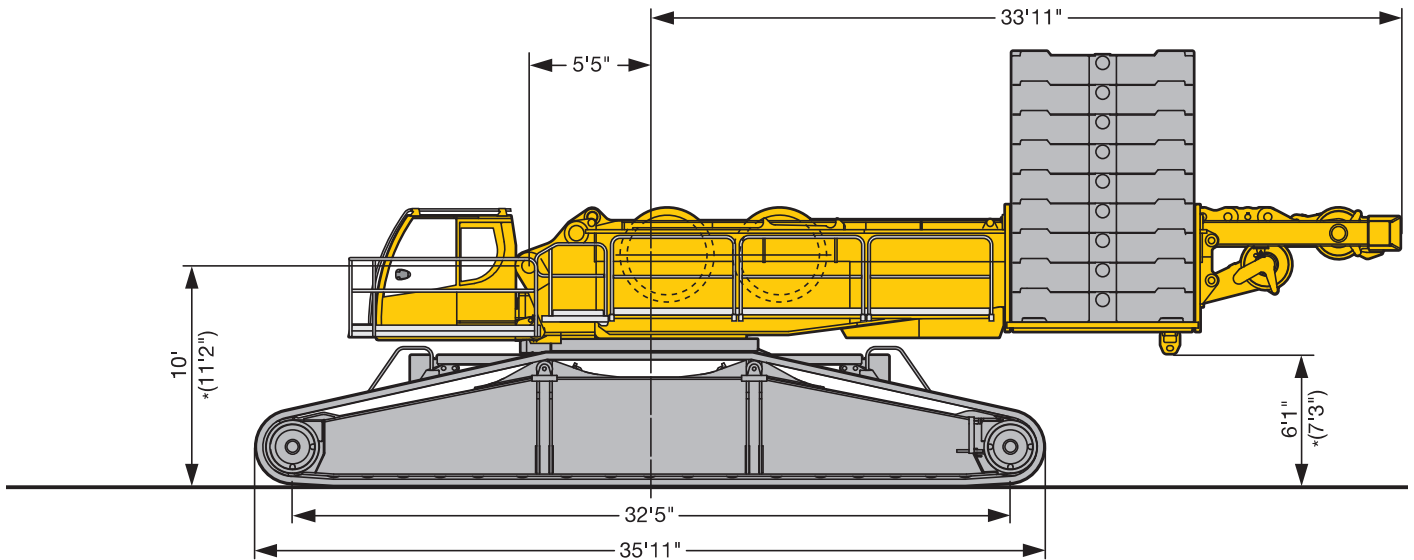
Équipement additionnel

Stabilisateur additionnel mécanique	Il sert au relevage de longues combinaisons de flèche sans contrepoids derrick.
Stabilisateurs hydrauliques de montage	Ils soulèvent l'engin de base pour le montage/démontage. Ils sont constitués de 4 vérins de calage dont les patins de calage montés sur l'élément central.
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 W.

D'autres équipements additionnels sont disponibles sur demande. Les équipements de série et les options correspondent à la liste de prix actuelle.

Dimensions Encombrement

A

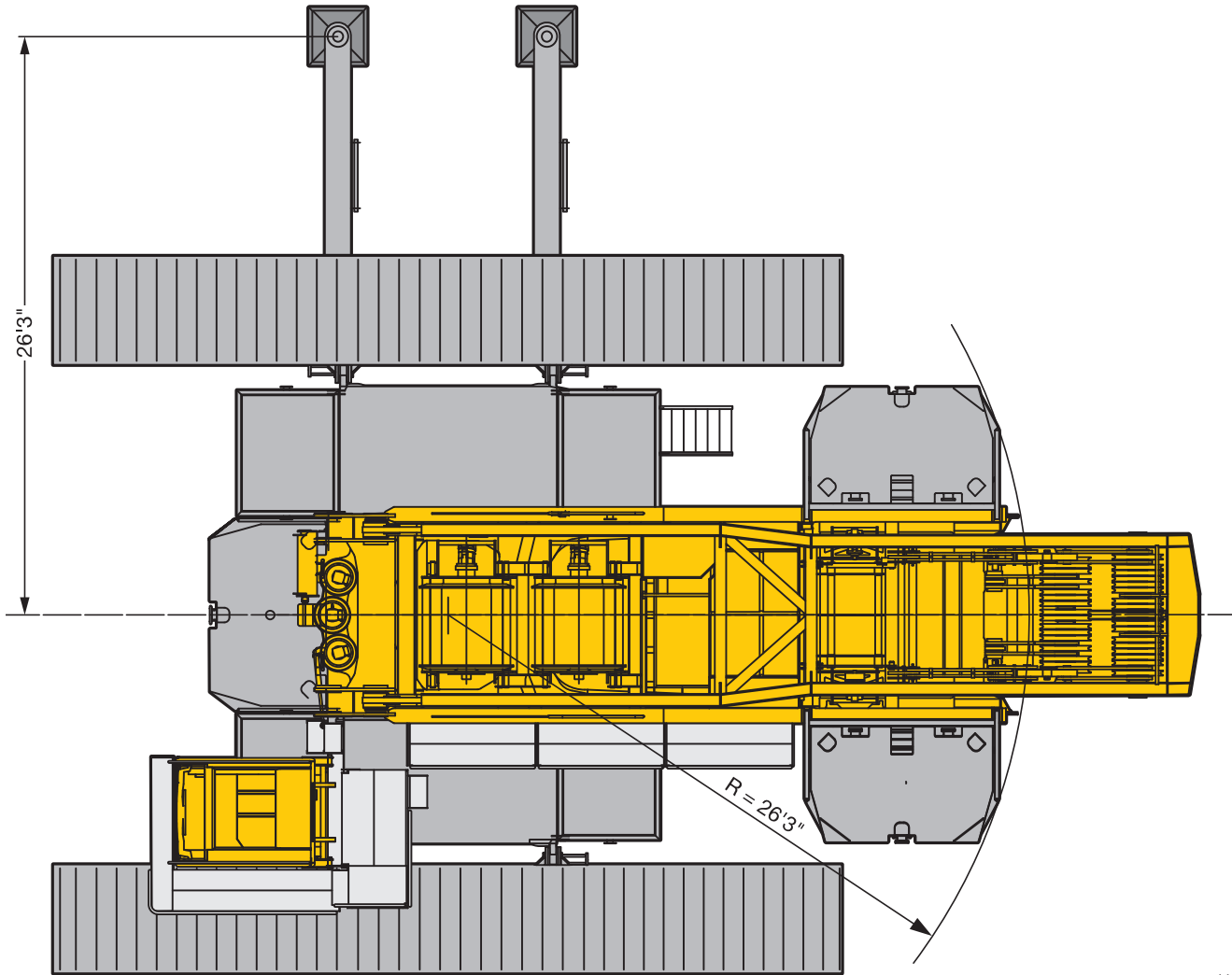


* Quick Connection / Raccord rapide

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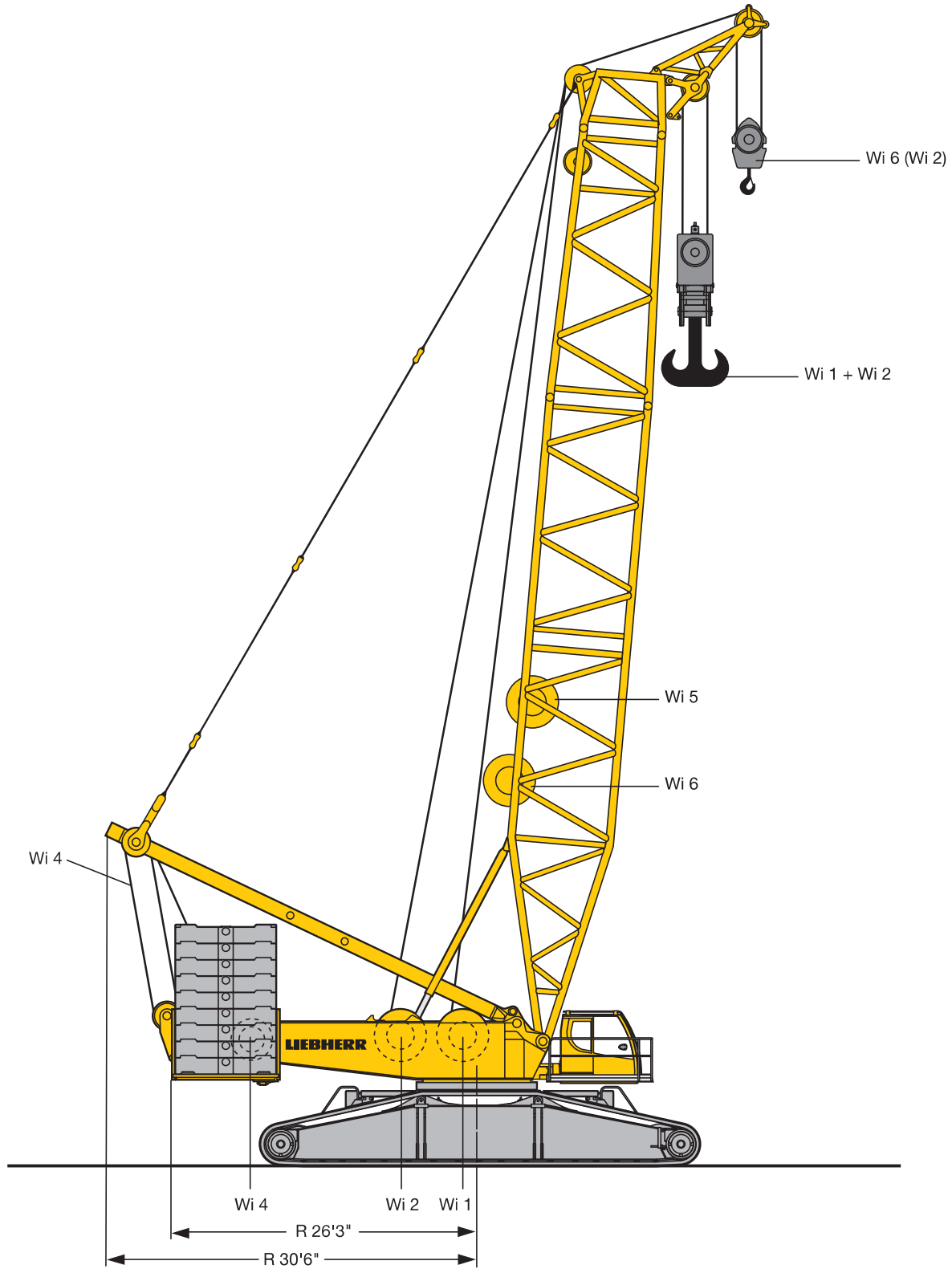
Dimensions Encombrement



US 2211.01

Dimensions Encombrement

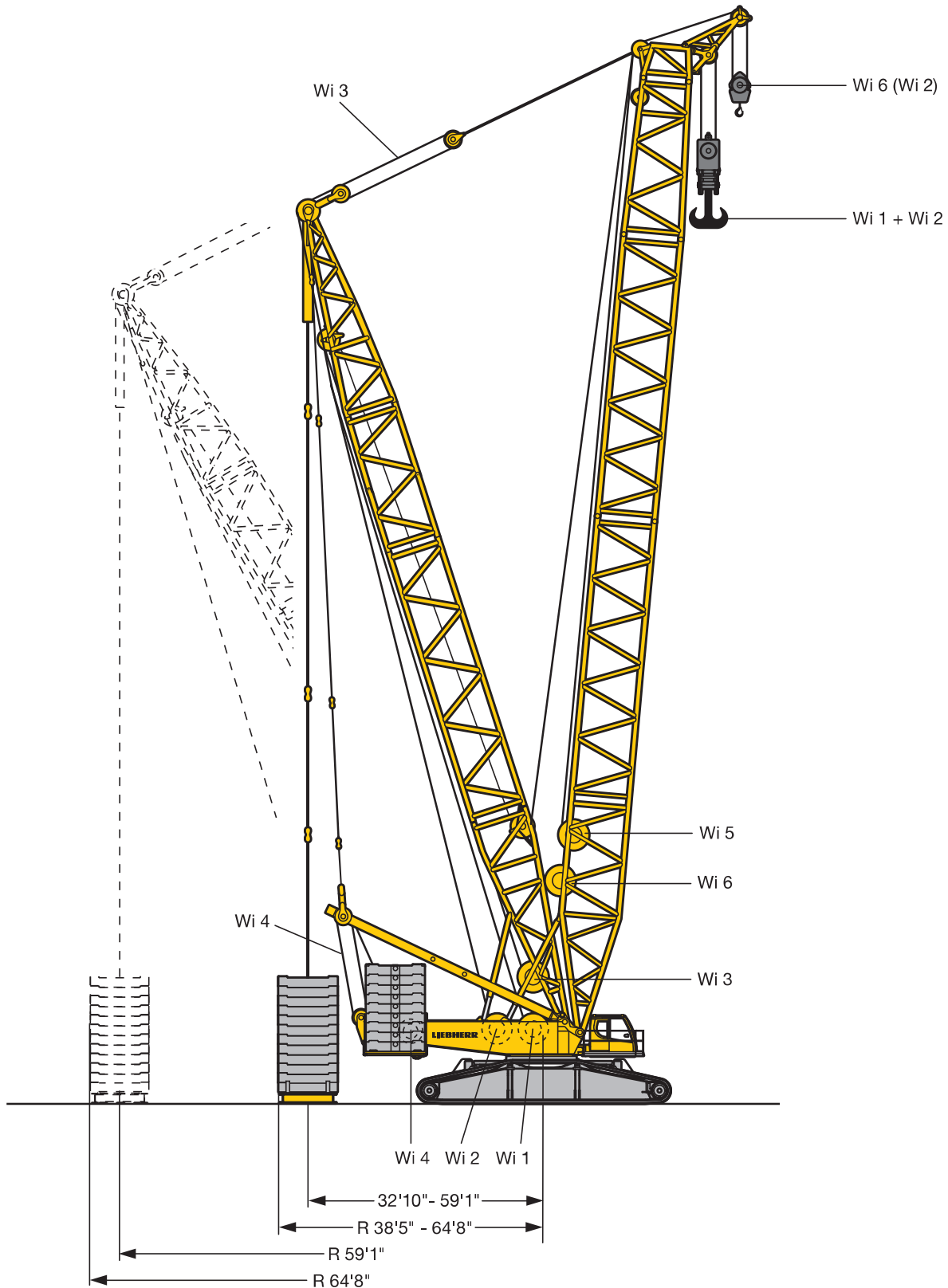
A



US2212

A

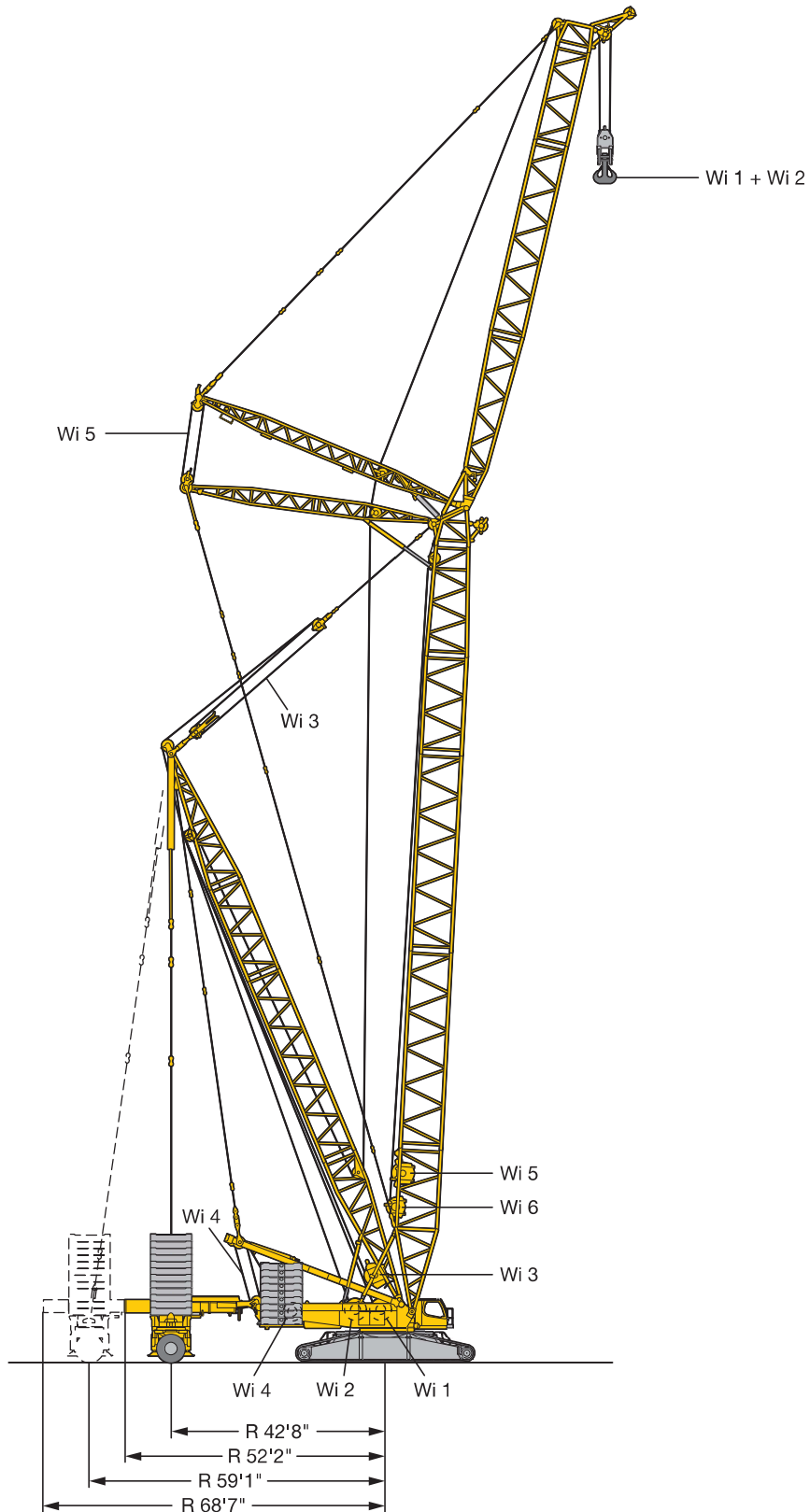
Dimensions Encombrement



US2213.01

Dimensions Encombrement

A



US2416.02

LR 1600/2

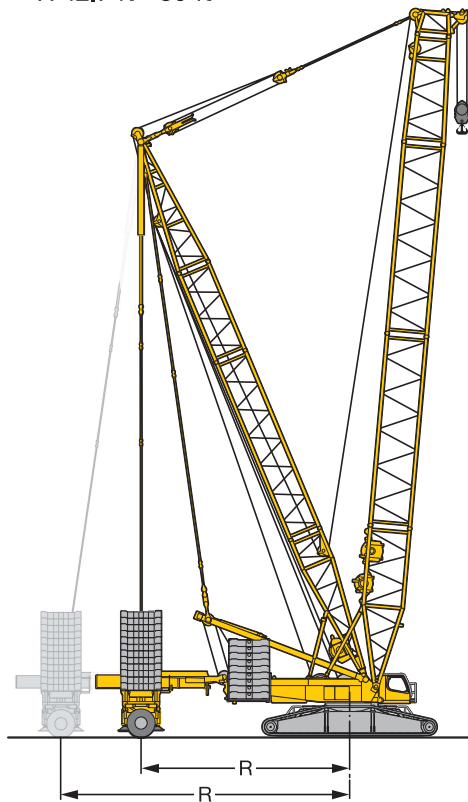
A

Dimensions Encombrement

B \cong R 32.8 ft - 59 ft



BW \cong R 42.7 ft - 59 ft



B2 \cong R 49.2 ft - 57.4 ft - 65.6 ft



US2819

Winches Treuils

A

Drive Mécanismes	Working speeds Vitesses	Max. single line pull Effort au brin maxi.	Rope diameter / length Diamètre / Longueur du câble
	0 – 436 ft/min	39700 lbs	1.1" / 3609 ft
	0 – 436 ft/min	39700 lbs	1.1" / 3609 ft
	0 – 427 ft/min		
	0 – 2 x 256 ft/min		
	0 – 436 ft/min		
	0 – 449 ft/min	27560 lbs	0.98" / 1970 ft

Working speeds Vitesses

	Slewing speeds Vitesses d'orientation	0 - 0.95 rpm
	Travel speeds Vitesses de translation	0 - 0.95 mph

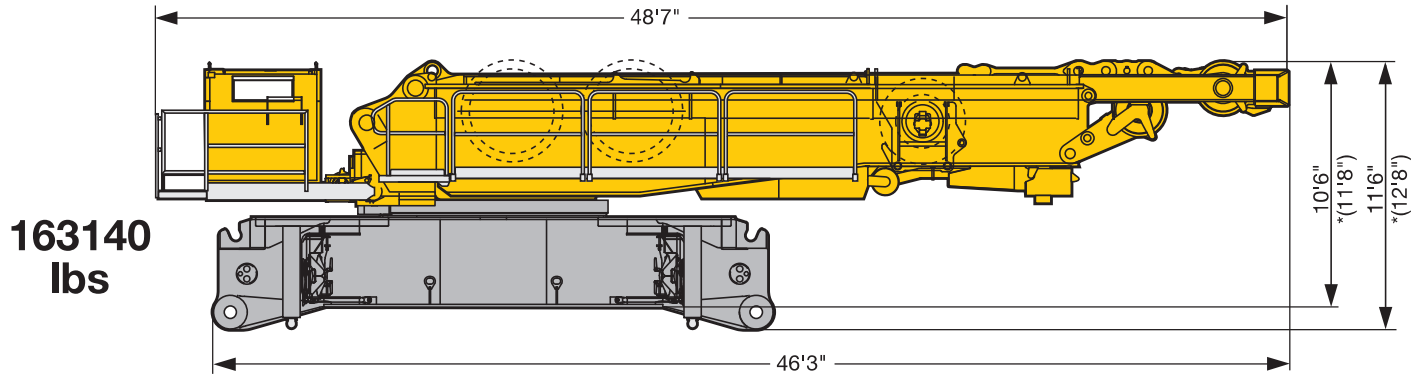
Hook blocks Moufles à crochet



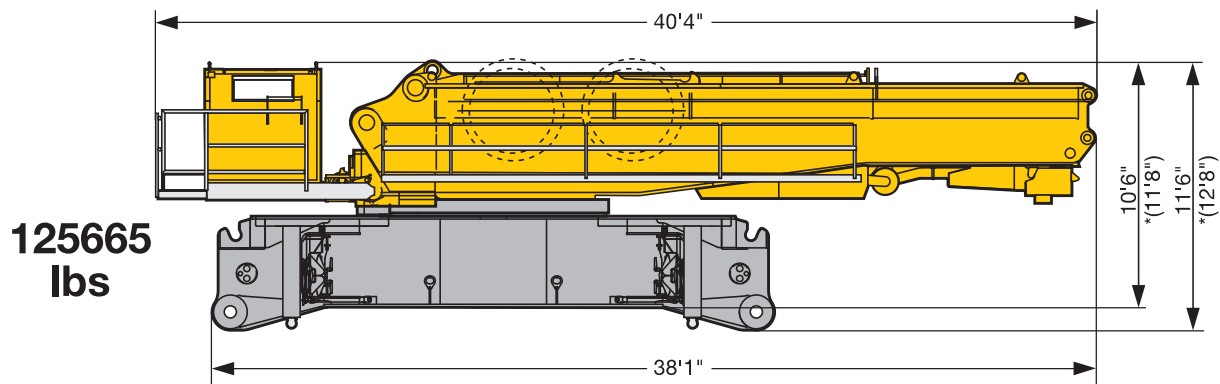
Load kips Forces de levage kips	Rope diameter Diamètre du câble	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
1320 / 660	1"	2 x 9	2 x 19	24250 – 35300 / 18750
790 / 395	1"	2 x 5	2 x 11	13300 – 24250 / 11025 – 15430
395	1"	5	11	4400 – 15430
265	1"	3	7	3300 – 12125
110	1"	1	3	2200 – 6600
35	1"	–	1	2425

Transportation plan Plan de transport

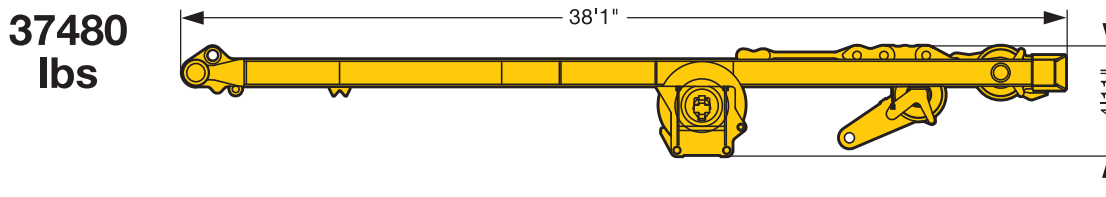
Superstructure and crawler center section with SA-frame, winch 4, with assembly jacks
Partie tournante et partie centrale du porteur avec chevalet SA, treuil 4, avec vérins de montage



Superstructure and crawler center section, assembly jacks
Partie tournante et partie centrale du porteur, vérins de montage



SA-frame, winch 4 incl. rope and pulley block
Chevalet SA, treuil 4 incl. câble et bloc de poulies



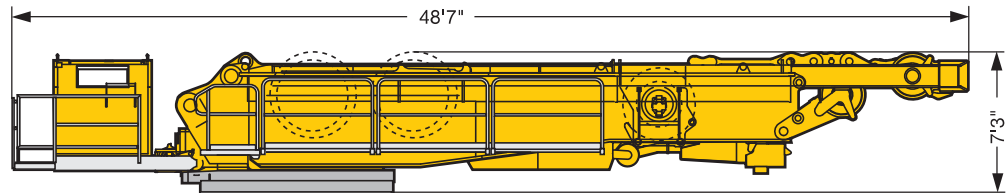
* Quick Connection / Raccord rapide

US2214

Transportation plan Plan de transport

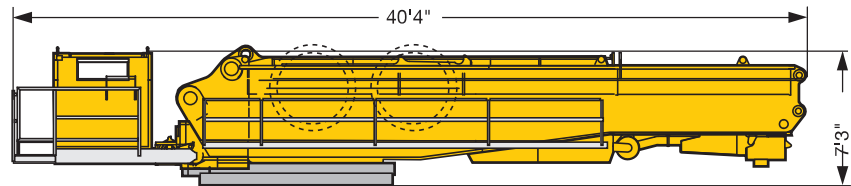
Superstructure with SA-frame, winch 4, quick connection
Partie tournante avec chevalet SA, treuil 4, quick connection

110250 lbs



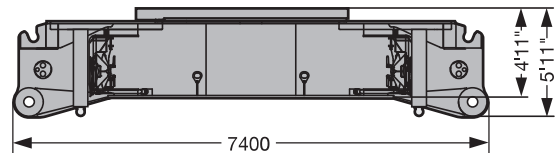
Superstructure with quick connection
Partie tournante avec quick connection

72750 lbs



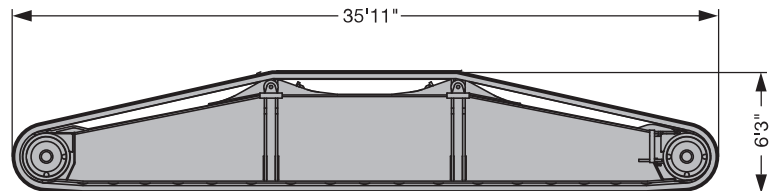
Crawler center section with assembly jacks, quick connection
Partie centrale du porteur avec vérins de montage, quick connection

59525 lbs



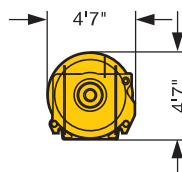
Crawler with track pads 4'11" (6'7")
Chenille avec pains de chenille de 4'11" (6'7")

**72750 lbs
(2 x 83775 lbs)**



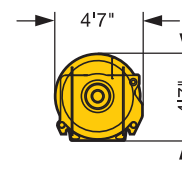
Winch 1 incl. rope
Treuil 1 incl. câble

16550 lbs



Winch 2 incl. rope
Treuil 2 incl. câble

16550 lbs



US2217.01

Boom/jib combinations Configurations de flèche

S Main boom, heavy
Flèche principale, lourde

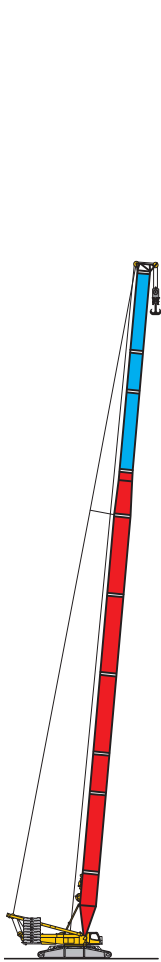
D Derrick
Flèche derrick

F Lattice fly jib
Fléchette treillis fixe

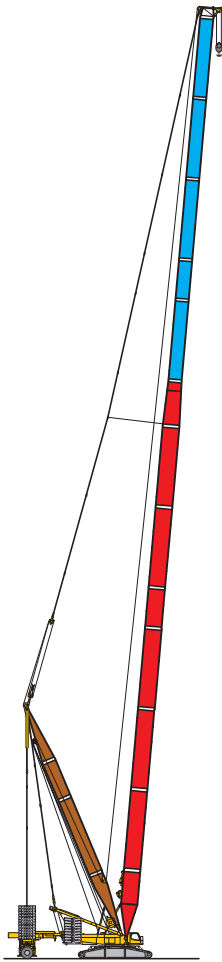
SL Main boom, heavy/light
Flèche principale, lourde/légère

W Luffing fly jib, heavy
Fléchette, lourde

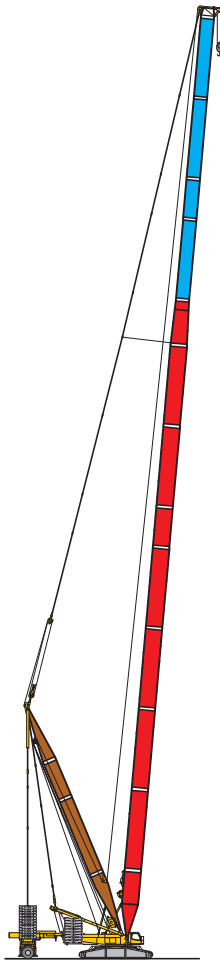
B Suspended ballast
Lest suspendu



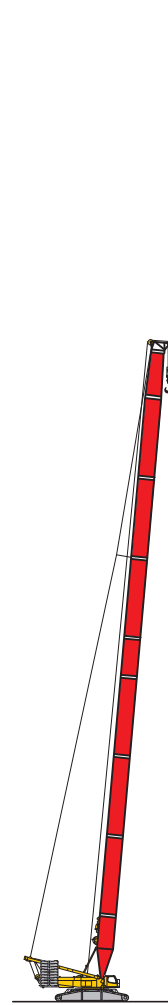
SL
177 ft - 335 ft



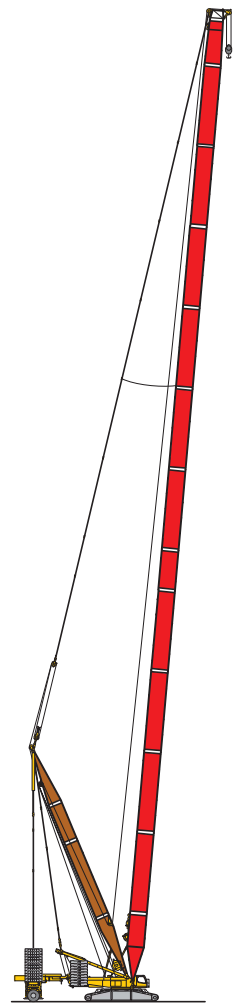
HSLDB/BW/B2
HSL 177 ft - 453 ft
D 118 ft



HSL2DB/BW/B2
HSL2 236 ft - 453 ft
D 118 ft



S
79 ft - 315 ft



HSDB/BW/B2
HS 138 ft - 473 ft
D 98 ft - 118 ft

US2847.01



B



C



D



E



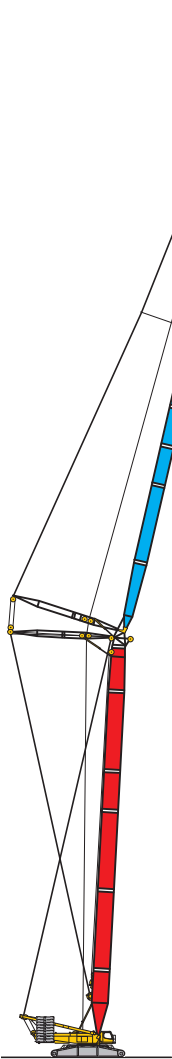
F

Boom/jib combinations Configurations de flèche

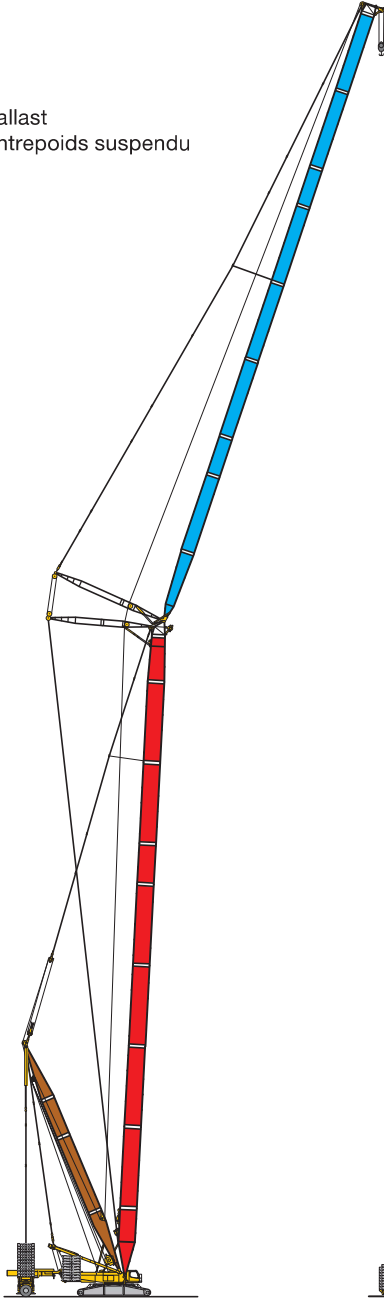
BW Ballast trailer
Porteur de lest

B2 Guiding frame floating ballast
Cadre de guidage du contrepois suspendu

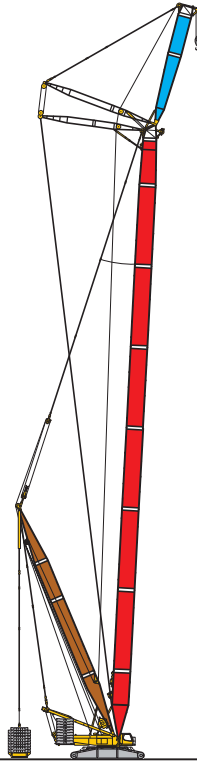
- S 2825
- LI 2420
- F 1916
- D 2420
- SW 600 t
- F 137 t



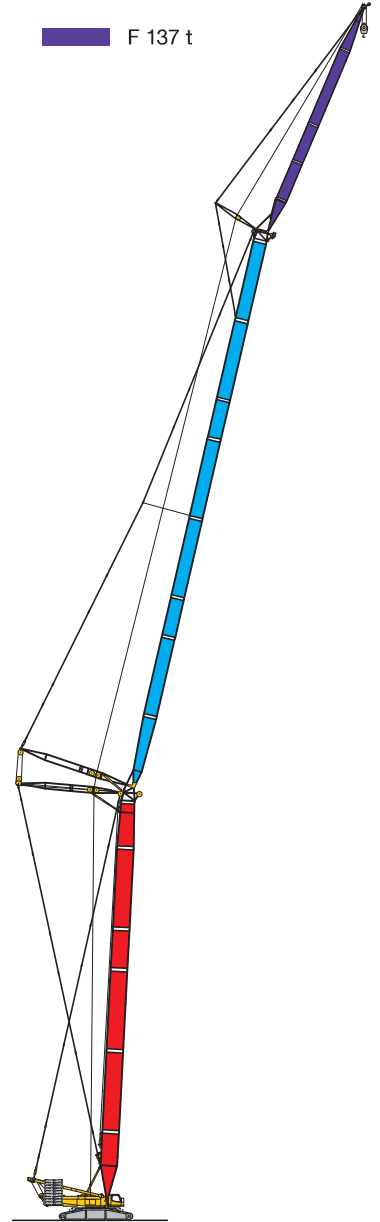
SW
S 118 ft - 217 ft
W 79 ft - 315 ft



HSDWB/BW/B2
HS 138 ft - 335 ft
W 79 ft - 315 ft
D 98 ft - 118 ft



HSDWVB/BW/B2
HS 138 ft - 335 ft
WV 39 ft - 315 ft
D 98 ft - 118 ft

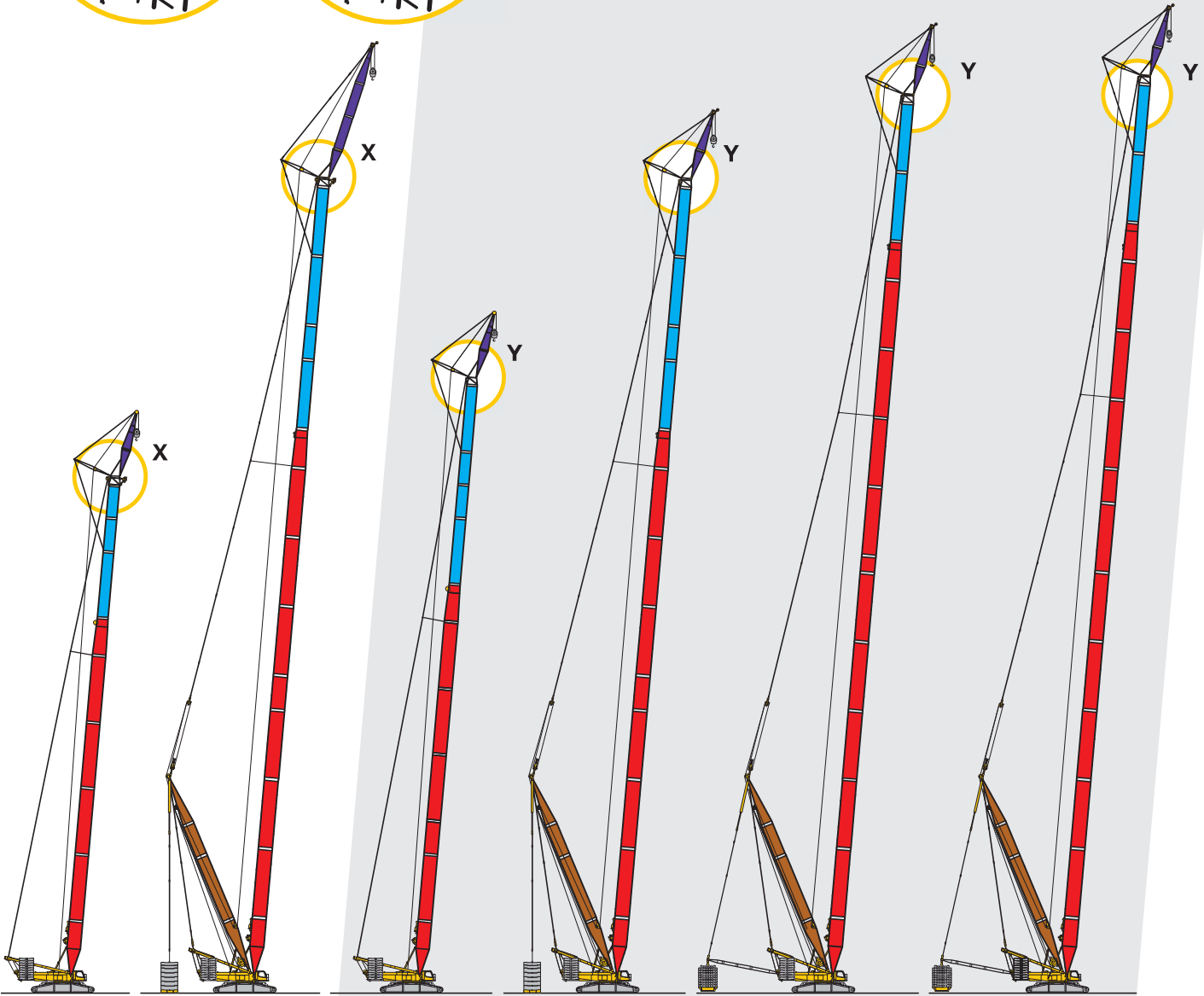
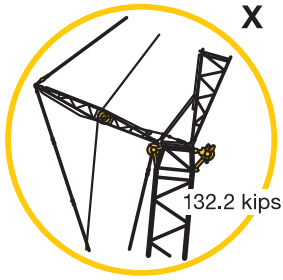


SWF
S 138 ft - 197 ft
W 157 ft - 276 ft
F 39 ft - 118 ft

US2847.01



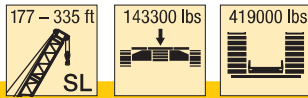
Boom/jib combinations Configurations de flèche



SLF SL 177 ft - 295 ft F 39 ft - 118 ft	HSL2DFB/BW/B2 HSL2 236 ft - 453 ft D 118 ft F 39 ft - 118 ft	SL3F SL3 236 ft - 354 ft F 39 ft - 118 ft	HSL4DFB/BW/B2 HSL4 236 ft - 453 ft D 118 ft F 39 ft - 118 ft	SL10DFB/B2 SL10 335 ft - 502 ft D 118 ft F 39 ft	SL13DFB/B2 SL13 335 ft - 512 ft D 118 ft F 39 ft
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US2847.01





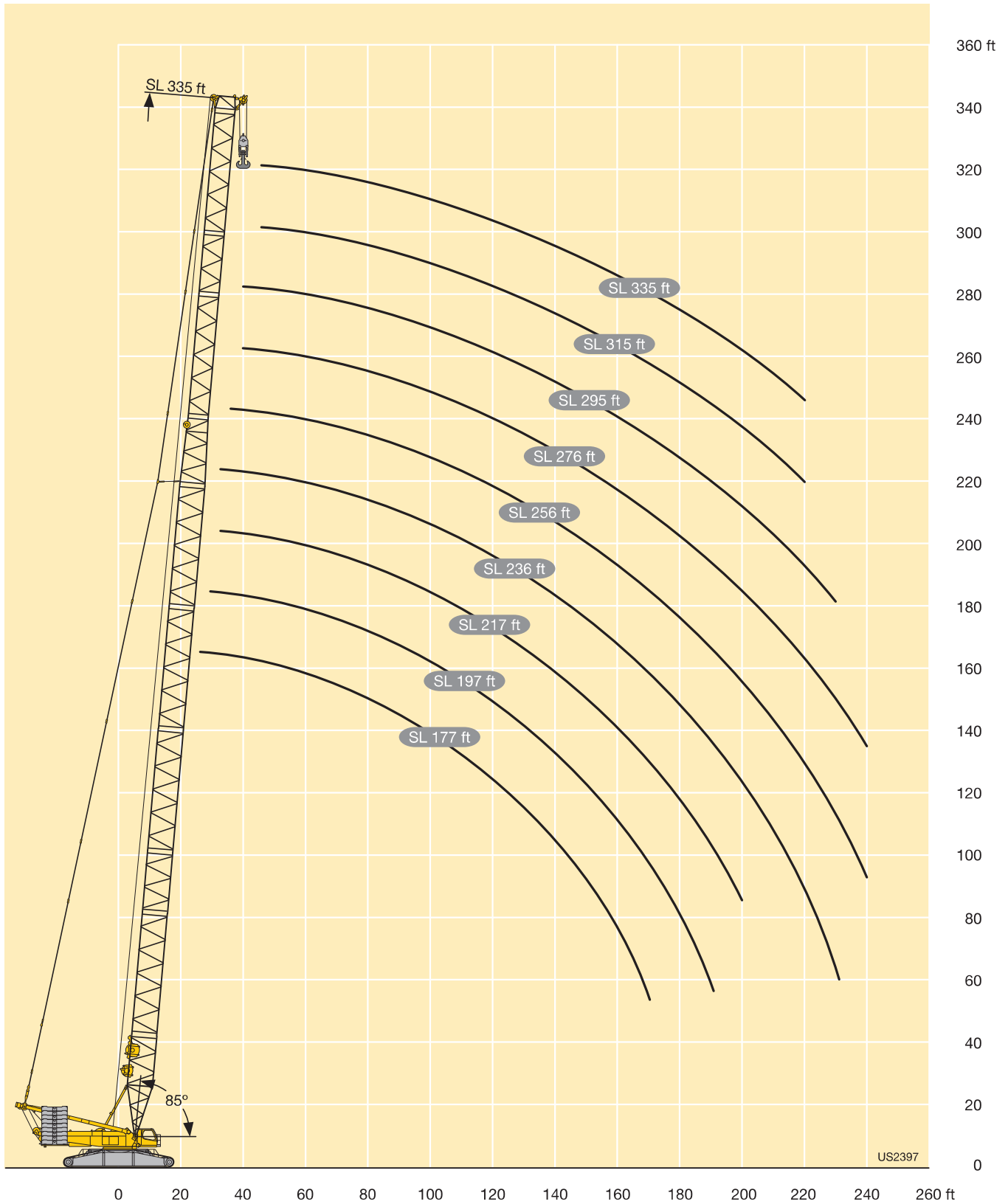
ft	SL 177	SL 197	SL 217	SL 236	SL 256	SL 276	SL 295	SL 315	SL 335	ft
26	679									26
28	679									28
30	679	657								30
32	679	656	620	572						32
34	665	643	612	567						34
36	641	622	598	559	521					36
38	605	585	563	535	509					38
40	569	549	529	510	493	456	419			40
45	492	476	459	444	431	410	379	343	314	45
50	429	419	404	391	381	367	346	320	295	50
55	374	369	359	347	339	328	315	295	273	55
60	327	325	320	311	304	294	285	273	254	60
65	290	288	285	280	274	266	257	250	237	65
70	260	258	255	253	250	242	234	227	220	70
75	235	232	230	228	227	220	213	207	202	75
80	213	211	208	206	205	201	195	189	185	80
85	194	192	189	187	187	184	178	173	169	85
90	178	176	173	171	171	168	164	160	156	90
95	165	162	159	157	157	154	151	147	143	95
100	152	150	146	144	144	142	139	136	132	100
105	141	138	135	133	133	130	128	125	122	105
110	131	129	125	123	123	121	118	116	113	110
115	123	120	117	115	114	112	109	108	104	115
120	115	112	109	106	106	103	101	99,5	96,5	120
125	107	105	101	99	98,5	96	93,5	92	89,5	125
130	101	98	94,5	92,5	92	89,5	86,5	85	83	130
135	95	92	88,5	86,5	86	83,5	80,5	79	77	135
140	89,5	86,5	83	81	80,5	77,5	74,5	73	71	140
150	79,5	76,5	73	70,5	70	67	64	62	60,5	150
160	71,5	68	64	61,5	60,5	57,6	54,4	52,4	50,9	160
170	64	60,5	56,2	53,4	52,6	49,5	46,2	44,1	42,6	170
180		53,8	49,5	46,6	45,7	42,5	39,3	37,1	35,5	180
190		47,9	43,5	40,5	39,5	36,3	33	30,8	29,2	190
200			38,2	35,1	34	30,8	27,4	25,1	23,5	200
210				30,2	29,1	25,8	22,4	20,1	18,3	210
220				26,1	24,8	21,5	18	15,6	13,8	220
230				22,5	21	17,6	14,1			230
240					17,5	14				240

TAB 181018

Lifting heights Hauteurs de levage

SL

B





ft		HSL 177 - 453														
		177	197	217	236	256	276	295	315	335	354	374	394	413	433	453
30	-	670														
	B	676														
	B2 BW	675 675														
32	-	654	617													
	B	677	673	659												
	B2 BW	677 677	629 629													
34	-	623	595													
	B	679	673	667												
	B2 BW	678 679	669 672	661 662												
36	-	583	557	532	510											
	B	680	672	668	645											
	B2 BW	679 681	671 673	663 663	490 642											
38	-	549	525	504	484											
	B	682	674	669	647											
	B2 BW	681 683	673 674	665 665	648 647											
40	-	517	496	476	458	443	426									
	B	684	676	670	647	600	572									
	B2 BW	683 685	675 676	667 667	649 648	601 601	572 572									
45	-	451	434	418	403	390	376	354	339	331						
	B	687	681	671	645	604	576	533	496	436						
	B2 BW	689 691	681 682	673 673	653 653	604 604	576 576	501 534	483 491	439 440						
50	-	399	385	371	358	348	336	324	310	304						
	B	694	685	675	650	605	572	533	497	429						
	B2 BW	696 696	687 688	679 678	659 659	608 608	579 579	536 536	498 497	432 433						
55	-	356	343	331	320	312	301	292	279	274	266	254	247	220		
	B	697	690	677	647	607	573	533	493	423	349	359	307	264		
	B2 BW	699 698	693 694	684 684	659 659	613 613	582 583	539 538	498 497	423 424	341 341	350 350	297 297	256 256		
60	-	320	308	298	288	281	272	263	252	247	241	229	223	216	210	189
	B	694	694	683	642	606	579	533	487	417	341	356	305	262	221	191
	B2 BW	699 696	696 698	689 690	659 657	617 617	585 586	542 542	495 495	413 414	331 331	346 346	295 295	254 254	212 212	184 184
65	-	289	279	270	261	255	247	239	228	225	219	208	203	197	191	184
	B	704	683	688	656	605	573	533	485	409	329	354	304	260	220	189
	B2 BW	705 704	689 688	693 695	674 674	622 623	583 583	545 545	493 492	401 402	318 318	343 343	294 294	253 253	211 211	183 183
70	-	264	255	247	239	233	226	219	208	206	201	190	185	180	174	170
	B	705	689	673	661	607	573	524	482	398	318	352	302	257	218	187
	B2 BW	705 705	700 697	687 682	676 676	628 628	592 591	536 535	488 488	389 390	305 305	342 342	293 293	252 252	210 210	182 182
75	-	239	233	226	218	214	207	200	191	188	184	174	169	164	159	155
	B	704	693	683	654	610	577	519	474	388	307	351	299	255	216	184
	B2 BW	705 705	705 701	685 672	666 669	632 632	598 598	528 528	479 479	377 377	291 291	341 341	293 292	251 251	210 210	182 182
80	-	217	214	207	200	197	190	184	175	173	169	159	155	150	146	142
	B	694	688	655	637	605	577	513	463	377	296	349	297	252	213	182
	B2 BW	702 699	705 698	684 665	653 655	628 630	600 600	521 522	466 466	365 365	278 278	340 340	292 292	251 251	210 210	181 181
85	-	198	196	191	185	181	175	169	161	159	155	146	142	138	134	130
	B	665	679	642	620	591	572	508	453	365	285	346	295	250	210	180
	B2 BW	689 675	703 688	678 651	648 635	607 612	599 596	512 513	452 453	353 353	266 266	339 340	291 291	250 250	209 209	180 180
90	-	182	180	177	171	168	162	157	148	147	143	134	131	127	123	120
	B	636	646	627	602	576	557	498	442	354	275	343	291	246	208	178
	B2 BW	668 645	674 655	668 636	635 615	602 593	585 579	502 501	439 440	341 341	254 254	339 340	291 291	249 249	209 209	179 179
95	-	167	165	164	158	156	150	145	137	136	133	124	121	117	113	110
	B	607	612	604	584	560	541	485	432	342	265	339	288	243	206	177
	B2 BW	645 616	643 621	645 612	621 595	593 575	571 560	491 488	427 427	330 330	241 242	339 340	290 290	247 248	208 208	178 178
100	-	154	152	151	147	144	139	134	126	126	123	114	111	107	104	101
	B	580	579	575	564	545	526	475	423	332	254	336	285	242	204	175
	B2 BW	620 588	612 587	615 584	603 573	579 557	557 542	483 478	418 417	320 320	229 230	339 340	289 289	246 246	206 206	177 177
105	-	143	141	139	136	134	129	125	117	116	113	105	102	98.7	95.2	92.9
	B	553	545	547	540	530	510	475	415	325	244	333	283	240	202	172
	B2 BW	592 561	581 552	585 555	578 549	566 539	543 523	480 478	412 412	314 313	218 218	339 340	289 289	244 244	204 204	174 174
110	-	133	131	129	127	125	120	116	108	108	105	96.9	94.3	91	87.6	85.4
	B	527	520	519	516	509	495	467	407	319	239	327	282	238	200	170
	B2	564	556	555	552	545	528	473	404	309	214	338	288	242	202	172

C



C

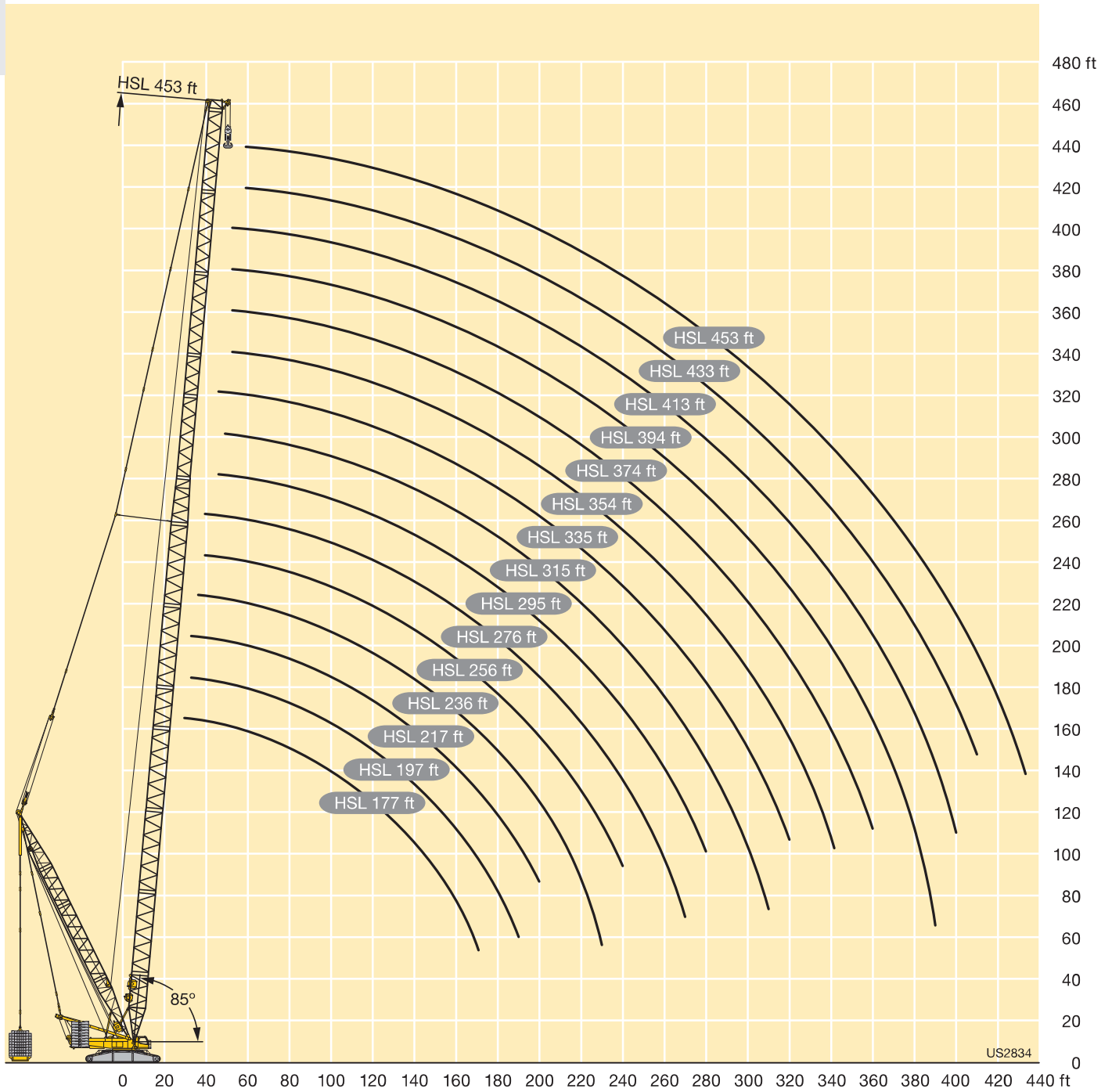
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		177	197	217	236	256	276	295	315	335	354	374	394	413	433	453
115	-	124	122	120	118	117	112	108	100	100	97.5	89.4	86.9	83.8	80.5	78.5
	B	501	498	492	489	489	478	458	399	314	234	320	278	236	197	168
	B2	536	533	526	527	523	512	465	396	304	211	333	285	240	200	169
120	BW	508	505	499	499	497	486	461	397	304	212	331	286	240	200	169
	-	116	113	111	109	109	104	100	93.1	92.8	90.4	82.4	80	77	73.9	72
	B	477	476	470	468	468	460	448	391	308	229	315	272	233	195	165
125	B2	510	510	502	501	501	493	456	388	299	208	329	282	237	198	167
	BW	483	483	476	475	476	468	451	389	299	209	327	283	237	198	167
	-	108	105	103	101	101	97.2	93.4	86.2	86.1	83.8	75.9	73.6	70.7	67.8	65.9
130	B	456	454	451	444	447	442	434	382	302	223	313	266	229	193	163
	B2	489	487	483	476	479	474	443	380	293	205	329	279	234	195	164
	BW	462	461	458	451	455	450	437	381	294	206	329	279	234	196	164
135	-	101	98.3	96.2	93.9	94.2	90.8	87.1	80	80	77.7	69.9	67.8	65	62.1	60.3
	B	438	432	433	427	426	424	419	372	296	218	308	266	225	189	160
	B2	470	464	464	458	457	455	426	370	288	201	325	275	230	192	162
140	BW	444	439	439	433	433	431	422	371	289	202	326	275	230	192	162
	-	95.2	92.3	90.2	87.4	87.6	84.6	81.4	74.4	74.4	72.2	64.5	62.5	59.8	57	55.3
	B	421	415	414	411	409	406	403	359	288	212	303	263	221	185	157
145	B2	451	446	444	441	439	436	410	359	281	198	322	270	226	189	159
	BW	426	422	420	417	416	413	406	358	281	199	322	271	226	189	159
	-	89.6	86.6	84.4	81	81.2	78.4	75.9	69	69.1	66.9	59.3	57.3	54.7	52	50.4
150	B	403	400	396	395	393	388	387	346	280	207	298	259	218	182	154
	B2	432	429	425	424	422	416	394	346	273	194	318	266	222	185	156
	BW	408	406	402	401	400	395	390	345	274	195	319	267	222	185	156
155	-	78.7	75.5	73.2	69.8	70.1	67.6	65.8	59.1	59.3	57.3	49.8	47.9	45.5	42.9	41.4
	B	364	370	366	364	364	359	357	319	262	193	286	250	210	175	147
	B2	391	397	393	391	391	385	363	322	256	183	310	258	214	178	149
160	BW	374	375	371	369	370	365	360	321	257	183	309	259	215	179	150
	-	68.8	65.4	63	60.6	60.8	58.5	56.8	50.4	50.7	48.7	41.3	39.6	37.2	34.7	33.4
	B	322	340	341	335	337	334	329	294	243	177	274	240	202	172	145
165	B2	348	366	366	360	363	360	335	298	238	168	301	250	207	172	143
	BW	340	347	346	340	343	340	333	297	239	169	297	251	207	172	144
	-	61.4	58	55.7	53.2	53.3	50.9	49.2	42.7	43	41.1	33.8	32.1	29.9	27.5	26.2
170	B	282	310	316	314	311	311	308	271	224	162	264	226	193	169	141
	B2	303	334	340	338	334	335	313	277	220	154	291	244	200	165	137
	BW	303	322	321	319	316	316	312	275	221	154	284	244	199	165	137
175	-	52	49.5	46.8	47	44.5	42.5	36	36.3	34.5	27.3	25.6	23.5	21.1	19.9	
	B	279	292	293	292	288	286	253	209	146	253	218	185	159	135	
	B2	303	314	316	315	311	291	258	206	139	281	237	193	159	131	
180	BW	299	300	298	297	293	291	257	206	140	270	237	194	160	132	
	-	46.8	43.9	40.3	40.4	37.9	36	29.9	30.2	28.4	21.3	19.7	17.6	15.3		
	B	236	268	273	274	267	265	236	195	134	242	213	179	150	129	
185	B2	260	289	294	296	289	270	240	193	128	270	230	187	154	127	
	BW	260	281	278	279	274	271	239	193	130	256	231	188	155	127	
	-	38.7	34.4	34.4	31.9	30.2	24.4	24.7	22.9							
190	B	241	253	256	249	245	218	182	124	230	207	173	146	123		
	B2	262	273	277	270	250	222	180	120	258	223	181	149	123		
	BW	261	260	261	257	251	222	181	121	243	223	182	150	123		
195	-	30.2	30.1	27.5	25.7	19.3	19.6	17.9								
	B	233	237	231	226	201	169	114	219	200	168	141	117			
	B2	253	257	250	233	205	168	111	244	216	175	144	119			
200	BW	245	243	240	233	204	168	112	229	215	176	145	119			
	-	26.2	26.3	23.3	21.3	15	15.2	13.4								
	B	210	217	213	208	186	156	104	207	192	161	136	113			
205	B2	230	236	231	216	193	156	103	230	209	170	139	114			
	BW	227	227	223	215	190	156	103	215	205	171	140	114			
	-	22.6	22.5	19.2	17.1											
210	B	173	197	195	189	171	144	95.3	195	184	157	130	108			
	B2	194	214	211	198	180	145	94.7	216	201	166	135	110			
	BW	193	211	207	197	176	145	95	202	195	167	136	110			
215	-	19	15.5													
	B	175	177	172	157	133	87	184	176	154	126	105				
	B2	192	192	182	168	134	87	203	194	162	132	107				
220	BW	192	190	180	162	134	87.2	189	185	162	132	107				
	-	159	156	144	121	79.6	173	168	150	123	101					
	B	173	165	155	123	79.9	191	186	157	128	104					
225	B2	173	164	148	123	80	177	175	158	128	104					
	-	140	141	133	111	72.3	164	159	147	119	97.9					
	B	152	150	142	112	72.8	181	178	153	125	101					
230	B2	152	149	136	112	72.8	168	166	154	125	101					
	-	117	128	122	101	65.1	155	152	143	116	95.1					
	B	124	134	129	102	65.7	172	170	148	121	98.1					
235	B2	124	134	126	103	65.8	159	157	149	121	98.2					
	-	114	111	92.1	58.2	146	144	137	113	92.4						
	B	118	117	93.4	58.6	162	161	144	118	95.2						
240	B2	119	115	93.8	58.8	149	148	143	117	95.3						



ft		HSL 177 - 453														
		177	197	217	236	256	276	295	315	335	354	374	394	413	433	453
290	-								102	83.6	51.2	137	136	130	110	89.7
	B								104	84.9	51.4	153	152	139	115	92.3
	BW								104	85.2	51.7	140	140	136	114	92.3
300	-								90.6	75.3	44.6	129	128	123	107	86.6
	B								91.7	76.4	44.2	144	144	134	113	90
	BW								91.8	76.6	44.5	132	131	129	111	90.3
310	-								73.5	67	38.1	121	120	117	104	85.8
	B								74.1	67.4	37.1	137	135	129	111	88.1
	BW								74.2	67.6	37.2	125	123	122	108	88.6
320	-									59.1	31.6	114	113	110	100	84.9
	B									57.2	30	129	128	125	109	86.4
	BW									57.6	30.2	119	116	115	105	87.1
330	-										25.3	107	107	103	97.2	83.6
	B										23.1	121	121	119	107	84.6
	BW										23.3	112	111	108	102	85.6
340	-										19	100	101	97.8	93.9	82.2
	B										16.8	114	114	113	105	82.9
	BW										16.8	106	105	103	99.3	84
350	-											89.8	94.3	92	89	80.9
	B											104	107	107	101	81.1
	BW											99.4	99.1	98.3	94.7	82.4
360	-											65.2	87.2	86.3	83.8	78.4
	B											87.6	99.9	101	96.9	79.4
	BW											85.9	93.5	93.2	89.8	80.3
370	-												79	80.5	78.4	75
	B												91.7	94.5	92.4	77.8
	BW												87.9	88.1	84.9	77.6
380	-												69.6	74.5	73	70.9
	B												82.4	87.8	88	76.2
	BW												81.9	82.8	79.8	74.5
390	-												27.8	67.6	67.6	66.9
	B													79.4	83.4	74.6
	BW													76.7	74.8	71.5
400	-													23.4	62.1	62.9
	B														76.9	73
	BW														70.2	68.4
410	-														55.2	58.8
	B														67.7	70.6
	BW														64.3	65.2
420	-															54.4
	B															66.4
	BW															61.6
430	-															49.7
	B															59.6
	BW															57.5

C

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ft		HSL2 236 - 453											
		236	256	276	295	315	335	354	374	394	413	433	453
36	-	510											
	B	645											
	B2 BW	490 642											
38	-	484											
	B	647											
	B2 BW	648 647											
40	-	458	439	422									
	B	647	626	599									
	B2 BW	649 648	626 627	599 598									
45	-	403	387	372	348	334	323						
	B	645	629	601	564	523	489						
	B2 BW	653 653	630 631	603 602	552 553	479 524	482 482						
50	-	358	344	332	318	306	296						
	B	650	629	596	561	524	489						
	B2 BW	659 659	635 636	605 606	548 548	527 527	480 480						
55	-	320	308	297	285	274	265	257	250	242	216		
	B	647	631	598	556	522	485	441	386	337	294		
	B2 BW	659 659	640 641	608 610	543 542	527 527	477 477	446 446	390 390	340 340			
60	-	288	277	268	257	247	239	231	225	218	212	206	201
	B	642	630	603	551	515	480	438	384	336	293	254	220
	B2 BW	659 657	645 644	611 613	536 536	525 525	474 474	444 444	389 389	339 339	296 296	245 245	209 209
65	-	261	251	243	233	224	217	209	204	198	193	187	183
	B	656	620	595	549	511	476	434	381	334	292	253	219
	B2 BW	674 674	650 651	606 610	530 530	522 522	470 471	442 442	388 388	338 338	295 295	243 243	207 207
70	-	239	229	222	212	202	197	191	186	180	176	171	167
	B	661	630	600	532	505	472	432	380	332	291	252	218
	B2 BW	676 676	655 656	618 619	521 519	515 517	467 468	440 441	387 387	336 336	294 294	242 242	205 205
75	-	218	210	203	194	186	180	174	170	164	160	156	152
	B	654	635	603	509	493	464	429	378	331	289	250	216
	B2 BW	666 669	658 660	626 626	514 512	511 513	461 461	438 439	386 386	335 335	293 293	239 239	204 204
80	-	200	192	186	177	170	165	159	155	150	146	142	139
	B	637	631	603	496	482	450	424	376	329	288	249	214
	B2 BW	653 655	655 656	629 629	507 508	508 509	455 455	436 436	385 385	334 334	292 292	237 237	203 203
85	-	185	177	171	163	156	151	145	142	137	134	130	127
	B	620	610	599	489	479	442	415	370	326	287	247	212
	B2 BW	648 635	637 632	626 625	500 501	504 504	454 455	434 432	382 382	332 332	291 291	235 235	202 201
90	-	171	164	158	150	143	139	133	130	126	123	119	116
	B	602	589	579	477	473	438	410	367	324	284	246	210
	B2 BW	635 615	619 608	608 602	488 491	500 501	450 451	431 431	381 381	331 331	290 290	233 233	200 200
95	-	158	151	146	138	132	127	123	120	115	113	109	107
	B	584	569	558	460	463	433	406	363	322	282	244	208
	B2 BW	621 595	601 584	588 577	480 479	491 493	446 446	429 429	380 380	329 329	289 289	232 232	199 199
100	-	147	140	135	128	121	117	112	110	106	103	100	97.6
	B	564	548	537	444	450	425	402	359	320	280	241	206
	B2 BW	603 573	583 560	568 553	474 469	479 483	440 440	426 426	378 379	328 328	287 287	230 230	199 198
105	-	136	130	125	118	112	108	103	101	97.1	94.5	91.6	89.3
	B	540	527	516	433	435	409	397	355	318	277	240	204
	B2 BW	578 549	565 536	549 528	465 466	465 472	431 428	422 422	376 377	326 327	286 286	229 229	198 198
110	-	127	121	116	109	103	99.5	95.1	92.7	89.1	86.7	83.9	81.8
	B	516	506	495	425	432	397	385	350	316	276	239	203
	B2 BW	552 524	543 515	529 504	456 457	468 460	428 425	411 414	373 373	325 325	284 284	229 229	198 198
115	-	118	113	108	101	95.5	91.7	87.4	85.2	81.8	79.5	76.8	74.8
	B	492	486	476	418	428	393	377	343	313	273	238	201
	B2 BW	527 499	521 493	509 483	448 448	463 448	423 419	407 406	367 365	321 321	283 283	227 228	197 197
120	-	109	105	99.9	93.9	88.1	84.5	80.3	78.2	74.9	72.7	70.2	68.3
	B	468	465	457	410	422	388	371	338	308	269	237	200
	B2 BW	501 475	498 472	490 463	438 438	455 437	417 412	404 398	363 360	318 317	281 281	226 227	197 197
125	-	101	97.6	92.8	86.9	81.3	77.8	73.7	71.7	68.5	66.4	64	62.2
	B	444	444	439	400	415	382	364	332	303	264	234	199
	B2 BW	476 451	476 451	471 445	428 425	447 425	410 404	398 390	363 360	318 315	277 276	225 225	196 196

D

HSL2DB/B2/BW

HSL2 236 - 453

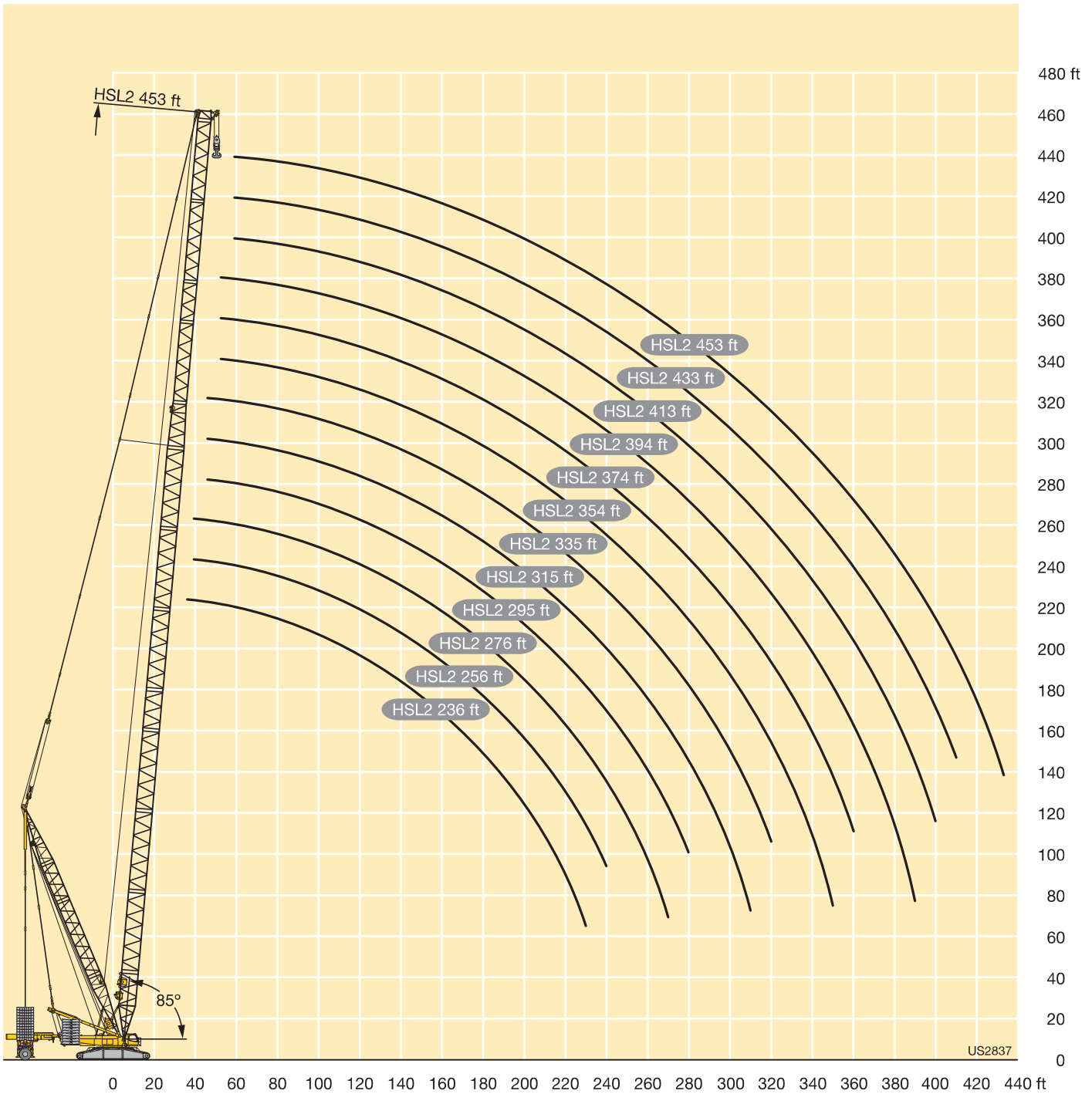


ft		HSL2 236 - 453											
		236	256	276	295	315	335	354	374	394	413	433	453
130	-	93.9	90.8	86.4	80.6	75.1	71.6	67.6	65.7	62.6	60.6	58.3	56.6
	B	427	423	421	389	404	377	357	326	298	259	227	197
	B2	458	454	451	417	435	404	392	359	319	275	222	195
135	BW	433	429	426	411	412	397	382	356	319	275	221	195
	-	87.4	84.2	80.4	75	69.5	66.1	62.1	60.3	57.3	55.4	53.2	51.5
	B	411	406	403	378	391	368	350	320	293	256	224	194
140	B2	441	436	432	406	420	395	385	356	318	271	222	194
	BW	417	412	408	397	397	387	374	351	319	272	221	194
	-	81	77.7	74.6	69.5	64.1	60.7	56.8	55.1	52.2	50.3	48.2	46.6
145	B	395	390	385	367	377	359	343	314	288	254	223	192
	B2	424	419	413	394	405	385	378	352	317	268	223	192
	BW	401	396	389	383	383	375	365	346	318	269	222	192
150	-	69.8	66.6	64.2	59.5	54.2	51	47.2	45.6	42.8	41.1	39.1	37.6
	B	364	361	355	346	348	338	326	302	278	247	219	187
	B2	391	388	381	372	375	363	359	341	315	262	223	189
155	BW	369	366	359	355	354	351	345	333	315	262	223	189
	-	60.6	57.5	55.2	50.7	45.5	42.4	38.7	37.1	34.4	32.8	30.9	29.5
	B	335	334	331	324	321	315	307	289	268	240	214	182
160	B2	360	359	355	350	346	340	337	325	309	256	222	186
	BW	340	339	335	330	326	325	321	316	308	256	222	186
	-	53.2	50	47.7	43	37.8	34.7	31	29.6	27	25.4	23.6	22.3
165	B	314	307	307	304	297	292	288	275	256	230	210	178
	B2	338	331	330	328	321	316	314	307	294	250	220	183
	BW	319	312	311	308	302	299	298	295	290	249	221	183
170	-	46.8	43.7	39.8	36.3	31.1	28	24.4	23	20.5	19	17.3	16
	B	293	289	284	283	278	274	269	260	244	222	200	173
	B2	316	311	306	306	301	297	292	288	280	245	216	178
175	BW	298	293	288	287	283	279	275	274	272	241	217	179
	-	40.3	37.2	33.7	30.2	25	22	18.4	17	15	14	13	12
	B	273	270	266	263	260	257	252	246	233	214	193	166
180	B2	294	292	285	285	282	279	274	270	265	239	212	175
	BW	278	275	270	267	264	262	257	254	254	232	213	176
	-	34.4	31.3	28.7	24.7	19.5							
185	B	253	252	250	245	242	241	237	233	221	206	187	163
	B2	273	273	267	266	263	261	258	254	251	234	208	172
	BW	260	257	254	249	246	245	242	237	237	224	208	172
190	-	30.2	26.9	24	19.7								
	B	233	233	235	232	225	224	222	219	210	198	181	159
	B2	253	253	248	251	245	244	242	240	237	229	204	168
195	BW	245	240	238	235	229	228	227	223	221	216	204	168
	-	26.2	22.5	19.4	15.4								
	B	210	213	218	218	213	210	207	206	199	189	175	154
200	B2	230	233	229	236	232	228	227	225	224	219	199	164
	BW	227	225	222	222	217	213	212	209	209	205	200	164
	-	22.6	18.5	15.3									
205	B	173	193	197	204	200	197	194	192	188	180	168	149
	B2	194	212	210	222	219	216	212	211	211	208	192	160
	BW	193	209	205	208	204	201	198	196	196	194	191	159
210	-		15										
	B	169	174	174	191	188	186	181	180	177	171	161	144
	B2	190	191	191	208	206	204	200	198	198	196	184	156
215	BW	190	188	188	196	192	190	186	183	184	183	180	155
	-			154	179	176	175	171	168	166	162	154	139
	B			171	195	193	193	189	186	185	185	176	153
220	B2			170	186	180	179	175	171	171	171	170	149
	BW												
	-			138	167	166	164	161	159	156	153	146	134
225	B			149	182	182	181	179	176	175	173	167	150
	B2			148	176	170	168	165	162	161	160	159	144
	BW												
230	-			112	154	156	154	151	150	148	145	139	129
	B			121	169	171	171	168	167	165	163	159	146
	B2			121	165	161	158	155	153	152	150	149	139
235	BW												
	-				138	146	145	142	141	139	137	132	124
	B				153	160	161	158	157	157	154	151	143
240	B2				152	152	150	145	144	143	141	139	133
	BW												
	-					136	137	133	132	131	130	125	119
245	B					149	151	149	147	148	146	144	140
	B2					143	142	137	135	135	134	131	128
	BW												
250	-												
	B					120	129	126	124	123	122	119	113
	B2					136	141	141	139	139	138	136	134
255	BW					134	134	130	127	126	126	124	122
	-												
	B					83.6	118	119	117	115	115	113	108
260	B2					104	130	132	131	131	130	129	128
	BW					103	125	123	120	119	118	117	116

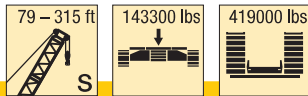


ft		HSL2 236 - 453											
		236	256	276	295	315	335	354	374	394	413	433	453
320	-												
	B						102	111	111	109	107	106	103
	B2 BW						117 114	123 116	124 114	123 112	122 111	122 111	121 110
330	-												
	B							102	104	103	100	100	97.1
	B2 BW							114 109	117 107	116 106	115 104	114 104	114 103
340	-												
	B							90.5	97.1	96.9	94.8	93.6	91.7
	B2 BW							103 102	109 101	110 101	109 98.2	107 96.7	107 97.1
350	-												
	B							58.6	88	91.2	89.3	88.1	86.3
	B2 BW							78.5 78	99.9 95.1	103 95.2	103 92.8	101 91.3	101 90.9
360	-												
	B								62.1	83.6	83.8	82.7	81.2
	B2 BW								84.6 83.2	95.7 89.6	97.2 87.4	95.7 86.2	94.8 85.3
370	-												
	B									74	78.1	77.4	76.4
	B2 BW									87.7 84.2	91.2 82.1	90.3 81.2	89.5 80.3
380	-												
	B									62.2	72	72	71.6
	B2 BW									78.6 78.5	84.7 76.9	84.8 76.1	84.5 75.6
390	-												
	B									33.5	64.4	66.7	66.9
	B2 BW									76.1 40.7	79.3 71	79.6 70.9	
400	-												
	B										43.6	54.6	62.2
	B2 BW										62 60.7	73.1 66.7	74.6 66.2
410	-												
	B											44.2	54.7
	B2 BW											64.9 61.4	69.3 61.8
420	-												
	B												41.4
	B2 BW												63.5 57.8
430	-												
	B												34.8
	B2 BW												56.9 54.5

D



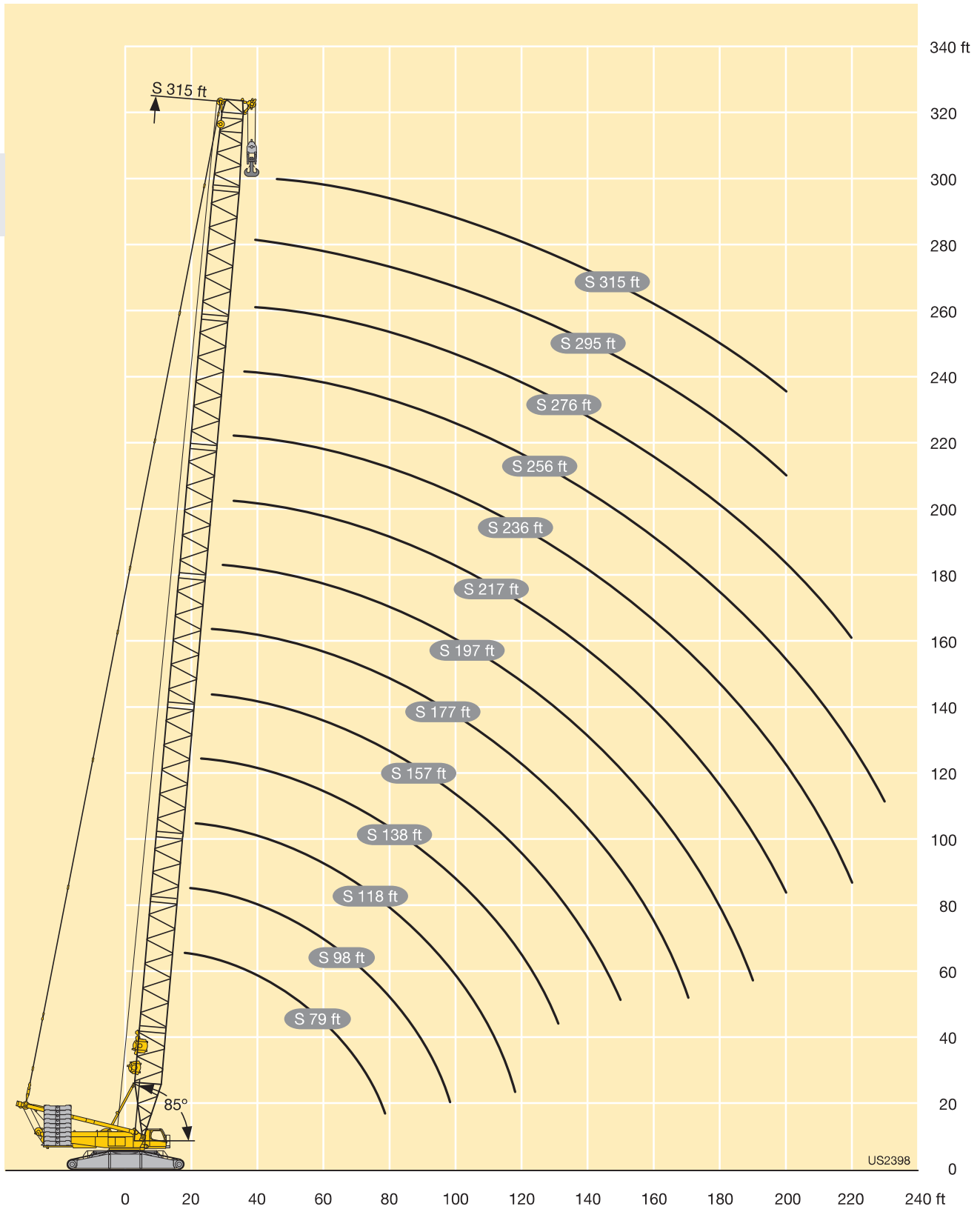
US2837



ft	S 79	S 98	S 118	S 138	S 157	S 177	S 197	S 217	S 236	S 256	S 276	S 295	S 315	ft
18	1323													18
19	1286													19
20	1243	1235												20
21	1194	1183	1150											21
22	1147	1134	1121											22
23	1100	1086	1078	1058										23
24	1059	1047	1039	1021										24
26	977	971	960	947	926	902								26
28	904	902	892	883	870	853								28
30	837	837	827	822	809	798	773							30
32	784	780	770	766	759	742	715	663	637					32
34	734	727	720	714	711	690	663	637	612					34
36	687	676	677	664	665	640	616	593	570	543				36
38	642	641	633	629	621	599	578	556	536	516				38
40	601	606	593	595	581	562	542	523	504	489	454	417		40
45	508	509	505	505	501	485	469	453	437	425	408	376	339	45
50	434	434	432	431	430	423	411	398	384	375	362	344	317	50
55	375	374	373	371	370	369	362	352	340	332	322	311	292	55
60	328	328	326	324	323	321	320	313	304	297	287	277	269	60
65	292	291	289	287	286	284	282	280	273	267	259	249	243	65
70	262	262	259	258	256	254	252	250	247	242	234	226	220	70
75	237	237	234	233	230	229	227	224	222	220	213	205	200	75
80		215	213	211	209	207	205	202	200	200	194	186	182	80
85		197	194	192	190	188	186	184	181	181	178	170	166	85
90		182	179	177	175	172	170	168	165	165	163	156	152	90
95		168	165	163	161	159	156	154	151	151	149	143	139	95
100			153	151	148	146	144	141	139	138	136	131	128	100
105			142	140	137	135	133	130	127	127	125	121	117	105
110			133	130	128	125	123	120	117	117	115	111	108	110
115			124	122	119	117	114	111	109	108	106	103	99.5	115
120				114	111	109	106	103	100	100	97.5	94.5	91.5	120
125				107	104	101	99	96	93	92.5	90	86.5	84	125
130				101	97.5	95	92.5	89	86.5	86	83	79.5	77.5	130
135					91.5	89	86.5	83.5	80	79.5	77	73	71	135
140					86.5	84	81	77.5	74.5	73.5	70.5	67	65	140
150					77	74	71	67.5	63.5	63	59.7	55.9	54.3	150
160						65.5	62	58	54.3	53.5	50.2	46.3	44.7	160
170						58.2	54.1	50.1	46.2	45.4	42	38	36.3	170
180							47.6	43.3	39.4	38.4	35	31	29.2	180
190							41.9	37.4	33.3	32.2	28.7	24.7	22.9	190
200								32.1	27.9	26.7	23.1	19.1	17.2	200
210									23.1	21.8	18			210
220									19	17.5	13.7			220
230										13.7				230

E

E





ft		HS 138 - 472																	
		138	157	177	197	217	236	256	276	295	315	335	354	374	394	413	433	453	472
26	-	933																	
	B	1323																	
	B2 BW	1323 1323																	
28	-	864																	
	B	1323																	
	B2 BW	1323 1323																	
30	-	790	743	702															
	B	1323	1323	1312															
	B2 BW	1323 1323	1323 1323	1321 1319															
32	-	730	688	651	602														
	B	1323	1323	1285	1185	1072													
	B2 BW	1323 1323	1323 1323	1315 1301	1223 1212	1109 1108													
34	-	677	640	607	579														
	B	1323	1314	1259	1173	1066													
	B2 BW	1323 1323	1322 1319	1302 1281	1214 1200	1104 1101													
36	-	629	595	566	542	517	497												
	B	1323	1299	1232	1154	1056	933												
	B2 BW	1323 1323	1321 1312	1284 1260	1197 1181	1096 1090	965 962												
38	-	589	559	532	510	489	470												
	B	1306	1268	1206	1134	1045	932												
	B2 BW	1323 1322	1304 1288	1259 1234	1180 1162	1087 1077	966 964												
40	-	553	525	500	480	461	445	427	411										
	B	1284	1237	1181	1114	1033	928	813	725										
	B2 BW	1315 1311	1285 1261	1234 1209	1161 1142	1077 1064	965 963	843 843	738 737										
45	-	478	455	435	418	403	389	375	362	338	327	315							
	B	1199	1165	1119	1064	996	906	812	717	643	574	510							
	B2 BW	1256 1225	1223 1192	1173 1147	1113 1092	1043 1026	946 949	842 842	737 738	658 659	581 581	456 514							
50	-	419	400	382	369	356	344	332	321	309	299	288							
	B	1120	1096	1062	1016	958	887	795	703	637	572	508							
	B2 BW	1183 1143	1158 1122	1118 1088	1067 1041	1008 988	931 925	832 829	726 732	655 655	580 581	513 514							
55	-	370	354	339	327	316	307	296	287	275	267	257	250	241	231	205			
	B	1044	1027	1005	969	920	864	780	691	631	563	503	446	387	345	300			
	B2 BW	1107 1062	1090 1051	1063 1029	1023 990	971 946	910 897	820 813	718 725	654 653	579 578	513 513	450 450	394 394	349 349	303 303			
60	-	327	316	303	292	282	275	266	257	247	239	231	224	217	208	201	193	188	180
	B	971	959	947	922	882	835	764	683	628	557	497	443	386	344	300	264	231	203
	B2 BW	1031 984	1019 979	1005 968	978 939	934 903	883 864	807 795	716 716	654 655	577 575	512 512	449 449	393 393	348 348	303 303	265 265	231 231	202 202
65	-	289	285	272	263	255	248	240	232	223	216	209	202	195	187	182	174	169	162
	B	904	891	887	873	844	805	740	668	623	556	495	435	385	341	299	262	231	202
	B2 BW	963 915	949 906	942 904	929 887	897 860	854 828	785 771	704 701	653 654	577 578	511 511	445 445	393 393	347 347	302 302	264 264	231 231	201 201
70	-	259	255	247	239	231	225	218	211	202	196	189	183	177	170	164	158	153	146
	B	843	831	826	821	802	774	716	649	608	550	491	431	384	340	297	260	229	201
	B2 BW	898 853	887 844	879 839	874 833	854 815	825 791	763 746	694 689	642 639	574 575	510 510	441 442	392 392	346 347	301 302	262 263	230 230	199 200
75	-	233	229	225	217	210	205	198	192	184	178	172	167	161	154	149	143	139	132
	B	784	778	770	768	758	739	692	638	598	539	485	428	382	339	296	259	228	200
	B2 BW	837 794	830 789	820 780	818 779	808 769	790 753	741 721	683 675	635 629	569 567	506 505	438 439	391 392	346 346	301 301	261 262	229 229	198 199
80	-	211	207	204	198	192	187	181	175	167	162	156	151	146	139	135	129	125	119
	B	730	729	720	716	712	702	666	625	589	531	475	423	379	337	295	258	227	199
	B2 BW	781 740	778 739	767 728	763 726	760 723	750 714	715 694	670 659	630 622	565 557	501 500	435 435	390 390	345 345	300 300	260 261	228 228	198 198
85	-	192	188	185	182	175	171	165	160	153	148	142	138	133	127	123	117	113	107
	B	689	679	679	668	667	663	637	609	577	522	469	417	374	335	294	257	227	198
	B2 BW	737 699	726 689	724 686	712 677	713 676	709 674	683 661	654 640	622 610	564 557	504 504	431 430	386 386	344 345	299 300	260 260	228 228	197 197
90	-	176	172	169	167	161	157	152	147	140	136	130	126	121	115	111	106	103	96.6
	B	649	641	638	633	624	625	607	586	561	514	462	412	370	331	291	255	225	197
	B2 BW	694 657	685 650	681 645	676 642	668 632	668 635	652 627	629 612	606 591	560 550	501 503	427 427	387 388	343 341	298 299	259 259	227 227	196 196
95	-	162	158	155	153	148	145	139	135	128	124	119	115	111	105	101	95.8	93.1	87
	B	609	607	600	600	590	587	578	562	542	502	454	407	366	327	289	253	224	196
	B2 BW	651 619	649 616	640 606	640 607	632 598	628 596	620 594	603 584	586 569	549 537	499 500	423 424	388 388	342 341	298 298	258 258	226 227	195 195
100	-	149	145	142	141	137	133	128	124	117	114	109	105	101	95.2	91.8	86.6	84	78.1
	B	571	574	566	566	562	553	548	538	521	488	446	402	363	325	287	252	222	195
	B2 BW	610 584	615 583	605 572	604 573	601 569	592 561	588 561	577 556	563 544	534 520	493 494	419 420	387 388	342 342	297 297	257 257	226 226	194 194
105	-	138	134	131	129	126	123	118	114	108	104	99.2	95.7	91.8	86.3	83.1	78.1	75.7	69.9
	B	535	542	540	532	533	529	519	513	501	473	436	397	359	322	284	251	221	193
	B2 BW	572 555	580 551	577 546	569 539	571 540	566 536	557 528	552 527	540 520	516 501	481 479	414 416	386 387	341 342	296 296	256 256	225 225	194 194

F



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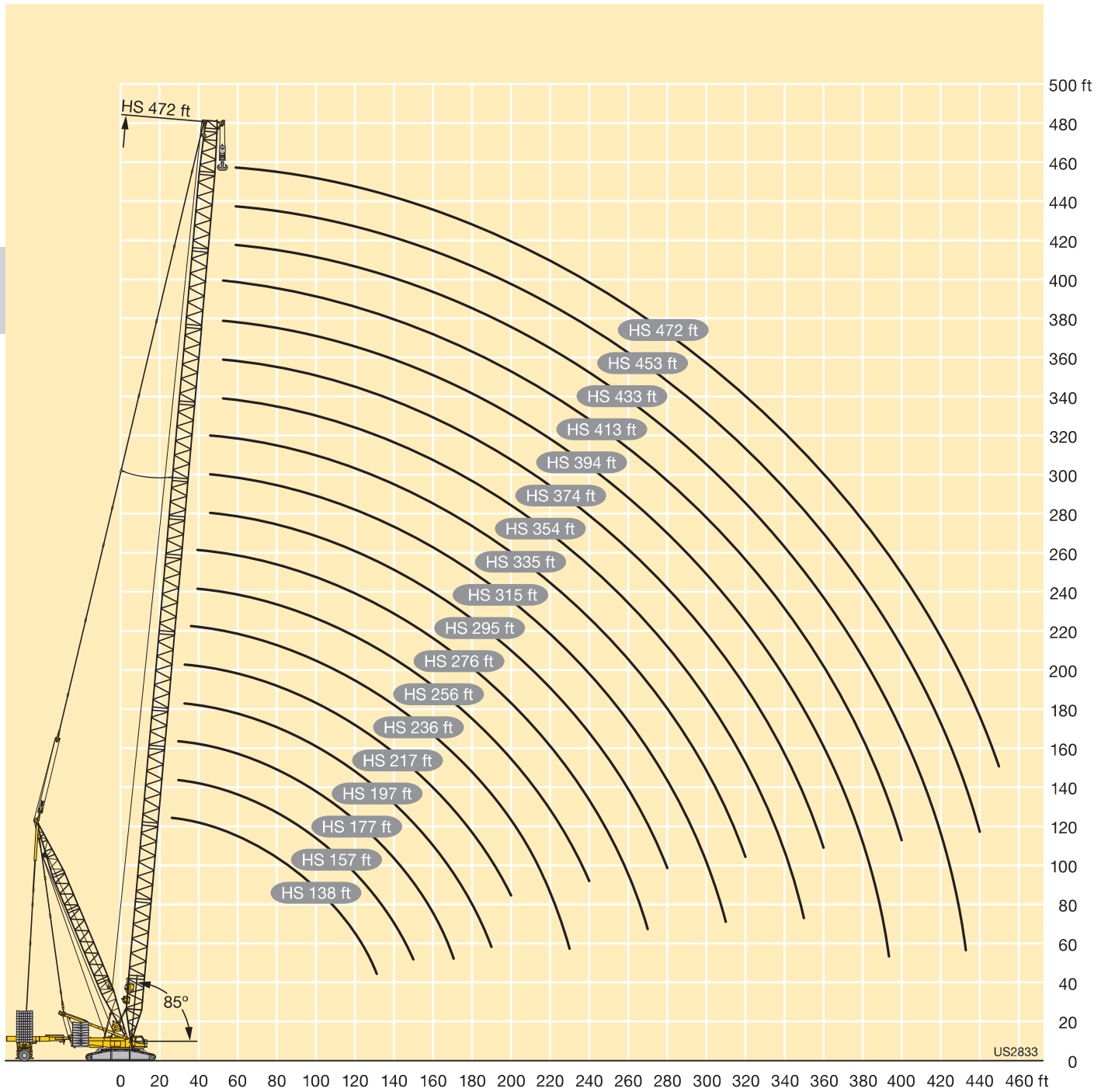
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		138	157	177	197	217	236	256	276	295	315	335	354	374	394	413	433	453	472
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	B2 BW	499	514	513	508	505	504	497	489	480	458	425	386	354	320	282	250	219	192
115	-	533	550	549	543	541	541	533	526	517	498	467	404	382	340	295	255	224	193
	B2 BW	525	524	520	514	511	512	505	499	495	482	463	408	383	341	295	255	224	192
120	-	120	115	112	110	107	105	101	97	90.9	87.5	82.9	79.8	76.2	71	68.1	63.3	61.2	55.7
	B2 BW	464	489	487	485	479	480	476	468	460	443	415	378	347	316	280	248	218	191
125	-	496	523	521	519	513	515	511	503	495	481	454	400	375	337	294	254	224	192
	B2 BW	493	500	493	491	485	487	483	476	471	462	447	400	377	337	294	254	224	192
130	-	112	107	103	101	98.8	97.2	92.9	89.4	83.4	80.1	75.7	72.6	69.2	64.2	61.3	56.6	54.6	49.2
	B2 BW	428	465	463	463	456	456	455	449	440	428	404	372	341	311	276	247	217	190
135	-	459	497	496	496	489	489	489	483	473	463	441	396	369	333	291	253	223	191
	B2 BW	459	477	469	469	462	462	462	456	448	443	430	392	371	332	291	254	223	192
140	-	105	99.9	95.6	93.2	91.1	89.9	85.8	82.4	76.5	73.3	68.9	66	62.6	57.7	55	50.4	48.5	43.2
	B2 BW	396	441	442	441	438	432	434	431	423	413	393	364	335	306	269	246	215	189
145	-	424	471	474	473	469	464	466	463	454	445	427	389	368	328	286	252	222	191
	B2 BW	424	455	449	447	443	438	440	438	429	423	414	384	364	325	285	253	222	191
150	-	98.6	93.4	89.1	86.6	84.4	83.3	79.3	76	70.1	67	62.8	59.9	56.7	51.9	49.2	44.7	42.9	37.7
	B2 BW	374	416	425	419	420	415	413	413	406	399	383	355	328	300	266	240	212	188
155	-	389	445	455	450	450	446	444	444	437	429	414	383	363	330	285	249	221	190
	B2 BW	389	432	431	425	425	420	419	419	413	409	398	376	357	327	285	247	221	190
160	-	87.4	82.8	80.1	77.8	76.8	73.4	70.2	64.4	61.4	57.2	54.4	51.2	46.5	43.9	39.5	37.8	32.6	
	B2 BW	389	408	402	402	399	396	395	390	384	371	347	317	295	263	237	210	186	
165	-	418	436	432	430	429	426	425	420	413	401	376	358	328	282	248	219	189	
	B2 BW	409	413	408	407	404	401	401	396	392	384	367	350	324	283	247	219	190	
170	-	81.5	76.6	73.7	71.2	70.2	67.8	64.7	58.9	56	51.8	49.1	46	41.4	38.8	34.5	32.9	27.7	
	B2 BW	362	390	387	384	383	380	377	374	370	359	338	314	289	259	234	207	184	
175	-	390	417	415	411	412	409	405	403	398	388	369	352	325	279	248	216	189	
	B2 BW	384	395	393	389	388	385	382	380	377	370	359	343	320	279	248	217	189	
180	-	71.6	66.3	63.1	60.5	59.5	57.6	54.7	49	46.1	42.1	39.4	36.5	32	29.6	25.4	23.8	18.8	
	B2 BW	310	351	357	354	352	351	347	343	341	335	320	300	278	251	227	201	180	
185	-	332	376	384	379	379	378	373	370	368	362	350	338	320	272	248	211	187	
	B2 BW	330	361	363	358	357	356	352	349	348	343	338	326	313	272	248	212	187	
190	-	58.2	54.8	52.1	51	48.8	45.8	40.2	37.3	33.4	30.8	28	23.6	21.3					
	B2 BW	307	328	328	324	324	323	315	314	311	300	285	266	243	221	195	176		
195	-	333	353	353	349	350	348	340	339	335	328	321	311	265	246	206	186		
	B2 BW	327	334	333	328	329	327	321	320	317	314	308	302	265	246	206	186		
200	-	51.8	47.9	44.9	43.6	41	38	32.4	29.6	25.7	23.2	20.4	16.2	13.9					
	B2 BW	270	296	304	303	298	299	294	290	286	281	270	254	235	214	190	172		
205	-	288	321	327	327	321	323	318	314	309	306	301	294	257	244	201	184		
	B2 BW	289	309	308	307	302	303	299	296	291	291	287	283	256	244	201	184		
210	-	41.7	37.7	36.2	34	31.3	25.7	22.9	19	16.5	13.9								
	B2 BW	264	279	282	279	276	274	271	267	262	255	241	224	205	183	168			
215	-	289	302	304	302	298	296	294	289	284	281	277	249	236	196	183			
	B2 BW	285	287	286	283	280	278	276	271	267	266	264	244	234	196	183			
220	-	36.5	31.9	30.1	28	25.3	19.6												
	B2 BW	225	254	262	261	258	254	253	250	245	241	228	214	197	176	162			
225	-	247	276	283	283	279	275	274	271	266	262	259	240	228	191	178			
	B2 BW	247	268	266	265	262	258	257	254	249	247	245	229	223	192	180			
230	-	27.2	25	22.6															
	B2 BW	228	242	243	242	236	235	233	230	226	216	204	188	170	156				
235	-	250	262	264	263	256	255	254	251	245	243	231	219	187	174				
	B2 BW	248	249	247	246	240	239	237	234	229	227	220	212	187	176				
240	-	20.2																	
	B2 BW	222	226	226	222	218	216	215	212	211	204	194	180	165	151				
245	-	241	246	246	242	237	236	235	231	227	222	210	182	174					
	B2 BW	235	231	231	226	222	220	219	216	212	207	201	183	171					
250	-	16.2																	
	B2 BW	200	210	211	209	205	202	200	198	192	183	171	159	145					
255	-	13																	
	B2 BW	219	229	230	227	224	221	219	217	214	210	201	177	171					
260	-	217	218	216	212	209	205	204	202	199	196	189	178	166					
	B2 BW	166	194	196	195	193	189	186	185	180	173	163	153	139					
265	-	187	213	214	213	212	208	205	203	202	199	191	172	167					
	B2 BW	187	205	203	198	197	193	190	188	186	184	179	173	162					
270	-	175	182	182	181	178	174	172	168	163	155	146	133	121					
	B2 BW	194	199	199	199	196	193	190	189	187	181	166	163						
275	-	190	192	186	185	182	178	175	174	175	174	168	163	155	146	133			
	B2 BW	167	170	169	167	164	160	156	153	146	138	133	121						
280	-	149	158	158	155	154	151	146	143	138	133	121							
	B2 BW	166	173	175	173	172	168	165	163	160	151	149	147	136	132				
285	-	165	166	163	159	158	154	151	149	147	143	136	134	126	119	109			
	B2 BW	123	145	148	146	143	142	138	134	130	126	122	119	109					
290	-	140	159	164	163	161	159	155	152	149	147	143	139	136	132				
	B2 BW	140	155	154	149	147	145	142	139	136	134	130	127	126	122				
295	-	129	138	137	134	133	130	126	122	119	109								
	B2 BW	143	153	153	151	149	147	143	139	136	134	130	127	126	122				

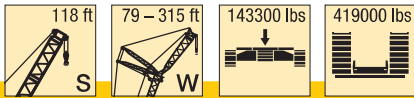


ft		HS 138 - 472																			
		138	157	177	197	217	236	256	276	295	315	335	354	374	394	413	433	453	472		
290	- B B2 BW										128 141 136	129 143 133	126 142 129	124 139 127	121 138 125	119 135 123	115 131 118	112 129 117	104 124 113		
300	- B B2 BW										113 127 125	121 134 125	119 134 122	116 130 118	113 129 117	112 127 115	108 124 112	105 115 109	97.5 116 104		
310	- B B2 BW										89.4 105 105	111 123 116	112 125 115	109 123 112	105 121 109	104 119 108	101 117 105	98.7 115 103	91.8 109 96.8		
320	- B B2 BW													96.6 105 106	105 115 108	103 115 106	98.6 113 102	97 112 100	93.8 109 98	92.2 109 96	86.2 102 90.6
330	- B B2 BW													95.8 107 101	96.9 108 99.2	92.8 107 96	90.1 104 93.3	86.8 102 91.1	85.8 102 89.5	80.7 96.1 84.7	
340	- B B2 BW													84.1 96.6 94.9	90.7 100 92.9	87 101 90	84.6 97.5 87.7	79.8 94.7 84.3	79.3 95.3 82.9	75.1 89.7 78.7	
350	- B B2 BW													62.4 77.4 77.5	80.2 90.3 86.3	81.2 94.1 84	79.2 91.1 82.1	74.8 88.8 79	72.8 88.7 76.4	69.6 83.3 72.8	
360	- B B2 BW														66.5 78.1 76.8	74.3 86.5 78.3	73.7 84.6 76.4	70.2 83.2 74	67.5 82.7 70.9	64.1 77 66.9	
370	- B B2 BW															66.2 77.5 72.7	68.1 78.1 70.9	65.7 77.6 69	63.2 77.3 66.3	58.8 71 61.3	
380	- B B2 BW															56.9 67.2 67.3	62.2 71.5 65.7	61.1 72 64.1	59.2 72.2 62.2	54.2 66.1 56.6	
390	- B B2 BW															39.3 50.6 50.8	54.7 64.2 61.5	56.6 66.4 59.1	55.3 67 58.1	50.1 61.9 52.4	
400	- B B2 BW																43.6 53.7 53.1	50.1 60.2 54.9	51.4 61.9 53.9	46 57.8 48.2	
410	- B B2 BW																	42.1 53.3 50.7	46.8 56.3 49.7	42 53.7 44.1	
420	- B B2 BW																	27.2 45.3 45.2	41 49.9 45.3	37.9 49.6 39.9	
430	- B B2 BW																	20.9 31.7 31.6	33.7 42.3 40.6	33.6 44.9 36.1	
440	- B B2 BW																		19.1 32.8 32.5	28.7 38.9 33	
450	- B B2 BW																			23 31.9 29.3	

F

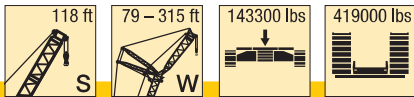
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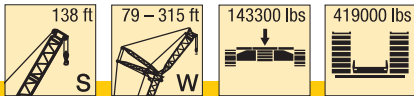
ft	S 118																		ft				
	W 79			W 98			W 118			W 138			W 157			W 177				W 197			
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°		87°	77°	67°	
40	526																						40
45	467			437																			45
50	419			402																			50
55	379			364			352																55
60	345			331			320			312			300										60
65	316			304			294			287			276			265							65
70	293			281			272			265			255			248							70
75	270			261			253			246			237			230				222			75
80	248	223		243			235			229			221			214				207			80
85	228	207		226	199		220			214			206			200				193			85
90	210	191		209	187		206			201			194			188				181			90
95		178		195	175		193	170		190			182			177				171			95
100		166		181	163		180	160		179	155		171			167				161			100
105		154	139	169	152		169	150		169	146		162	139		157				151			105
110		145	130	158	143		158	141		158	139		153	132		149				143			110
115			122	134			149	133		149	131		145	124		141				136			115
120			115	126	112		140	125		140	124		138	118		134	114			129			120
125			108	119	105		132	118		132	117		130	112		127	108			122	103		125
130			102	112	100		125	111	96	125	111		123	106		121	102			116	97		130
135					94			105	92	119	105		117	101		115	97			111	93		135
140					89			100	87	113	100	82	111	96		109	93			106	88		140
150									79			90	78	100	87		99	84		96	80		150
160									71			81	70	90	78	66	90	76		88	72		160
170									64			74	63	82	71	59	82	70	56	80	65	51	170
180																							180
190																							190
200																							200
210																							210
220																							220
230																							230
240																							240

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ft	S 118														ft								
	W 217			W 236			W 256			W 276			W 295			W 315							
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°		87°	77°						
80	200			195																			80
85	187			182						175													85
90	175			171						165													90
95	165			160						155			149				143						95
100	155			151						146			140				137				121		100
105	146			142						137			131				129				120		105
110	138			134						130			124				121				115		110
115	131			127						123			117				115				110		115
120	124			120						116			111				108				103		120
125	117			114						110			104				102				98		125
130	112	91		108						104			99				97				92		130
135	106	88		103						99			94				92				87		135
140	101	83			76					94			89				87				83		140
150	92	75			72					85			80				79				74		150
160	84	68			65					77	61		72	56			71				67		160
170	77	61			58					70	55		65	50			64	48.1			60	43.7	170
180	70	56			53					64	49.4		59	44.7			58	43.1			54	38.9	180
190	65	51	38		62	47.8				58	44.4		54	39.8			52	38.2			48.3	34.1	190
200	59	46.1	33.9		56	43.1	30.9			53	39.9		48.8	35.3			47.2	33.8			43.3	29.7	200
210	54	41.9	30.2		52	38.9	27.2			48.6	35.8	23.9	44.1	31.2			42.6	29.7			38.7	25.7	210
220	49.8	38.2	26.9		47.6	35.2	23.9			44.5	32.1	20.7	40.1	27.6	15.1		38.5	26.1			34.7	22.1	220
230		34.9	23.9		43.7	31.9	20.9			40.7	28.7	17.8	36.3	24.3	13.2		34.7	22.8			30.9	18.8	230
240		31.6	21.2		39.9	28.7	18.1			37.3	25.6	15	32.9	21.2			31.2	19.6			27.4	15.7	240
250			18.7			25.9	15.6			34.1	22.8	12.5	29.7	18.4			27.9	16.8			24.2	12.9	250
260			16.6			23.4	13.3			31.2	20.2	10.2	26.8	15.8			25	14.2			21.2	10.3	260
270							11.2						24.3	13.5			22.3	11.7			18.5		270
280													22.1	11.3			19.8				16		280
290																	17.5				13.7		290
300																	15.5				11.5		300

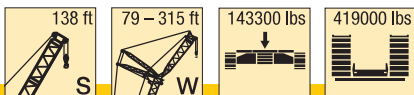
TAB 181047 / 181054 / 181061



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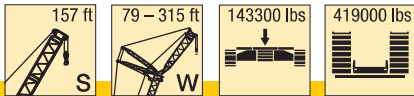
ft	S 138																		ft				
	W 79			W 98			W 118			W 138			W 157			W 177				W 197			
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°		87°	77°	67°	
45	437			419																		45	
50	402			386																		50	
55	364			350			338															55	
60	332			319			309			300												60	
65	305			293			284			276			263			255						65	
70	282			271			263			256			246			239						70	
75	262			252			244			238			229			222				215		75	
80	244	210		235			227			222			213			207				200		80	
85	227	196		220			213			208			199			194				187		85	
90	210	184		206			200			195			187			182				175		90	
95		173		193	165		188			184			176			171				165		95	
100		161		181	155		177	150		173			166			161				155		100	
105		151		169	146		168	141		164	137		157			152				146		105	
110		141		158	138		158	133		155	130		148	121		144				139		110	
115		132		130			148	126		147	123		141	116		136				131		115	
120			109	122			140	120		140	116		134	110		129	106			124		120	
125			102	115	98		132	114		132	111		127	104		123	100			118		125	
130			97	109	93		124	108		125	105		121	99		117	95			112	89	130	
135					88			102		119	100		115	94		112	90			107	85	135	
140					84			97	76	113	96		110	89		107	86			102	81	140	
150					75			87	72		87		99	81		97	78			93	73	150	
160								65	65		79	63	90	74	57	89	70			85	66	160	
170								58			71	57	82	67	51	81	64	47.7		78	60	170	
180															62	46.4	74	59	43.2	72	54	180	
190																56	41.9	54	38.9	66	49.5	34.6	190
200																		49.2	34.9	61	45.1	30.8	200
210																				31.4	41.1	27.3	210
220																				28.3	37.7	24.2	220
230																				25.6	34.4	21.4	230
240																						18.8	240

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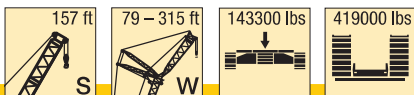
ft	S 138														ft	
	W 217			W 236			W 256			W 276		W 295		W 315		
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	87°	77°	87°		77°
80	193															80
85	180															85
90	169															90
95	159											143				95
100	150											135			116	100
105	141											127			115	105
110	133											119			111	110
115	126											113			106	115
120	120											106			100	120
125	113											101			94	125
130	108											95			89	130
135	103											90			84	135
140	98	73										86			80	140
150	89	69										77			71	150
160	81	62										70			64	160
170	74	56										63	44.1		57	170
180	68	50										57	39.4		51	180
190	62	45.6										51	34.7		46	190
200	57	41.2	26.9									46.5	30.5		41.1	200
210	53	37.2	23.4									42	26.6		36.6	210
220	48.9	33.8	20.4									38	23.2		32.7	220
230		30.6	17.6									34.3	20		29	230
240		27.8	15.1									30.9	17.1		25.6	240
250			12.8									27.8	14.4		22.4	250
260			10.8									25	12		19.6	260
270												22.6			16.9	270
280															14.4	280
290															12.1	290
300															10	300

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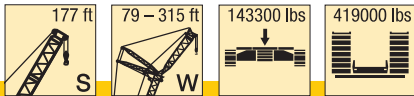
ft	S 157																		ft				
	W 79			W 98			W 118			W 138			W 157			W 177				W 197			
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°		87°	77°	67°	
45	418																						45
50	386																						50
55	350																						55
60	319				337							289											60
65	294				308							266			254								65
70	272				284							266			238								70
75	253				263							247			221								75
80	236				244							230			206			216					80
85	221				228							214			202			202					85
90	208	183			213							201			192			189					90
95		208			201							189			181			177					95
100					189	155						178			170			167					100
105					179	146						168			160			157					105
110					169	138						158			151			148					110
115					158	130						150	118		143			141					115
120					124							143	114		136			133					120
125					117							136	108		129	102		127					125
130					111							131	105		123	96		120	94				130
135					106							124	100		117	91		115	89				135
140												96			112	87		109	85				140
150												91	66		107	82		104	80				150
160												83	63		107	82		104	80				160
170												83	63		80	74		95	73				170
180												56			89	67		87	66				180
190												51			81	61	42.5	80	60				190
200												46.3			56	38.3		74	54				200
210															51	34.2		49.6	32.6				210
220																30.5		45.3	29				220
230																27.2			25.6				230
240																24.4			22.7				240
																			20.1				240

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ft	S 157														ft
	W 217			W 236			W 256		W 276		W 295		W 315		
	87°	77°	67°	87°	77°	67°	87°	77°	87°	77°	87°	77°	87°	77°	
80	188														80
85	176														85
90	165														90
95	155														95
100	146														100
105	138														105
110	131														110
115	124														115
120	117														120
125	111														125
130	106														130
135	101														135
140	96														140
150	87	68													150
160	79	64													160
170	72	58													170
180	66	52													180
190	61	46.6													190
200	56	42													200
210	52	37.8													210
220	47.8	34	18.1												220
230		30.6	15.3												230
240		27.5	12.7												240
250		24.7													250
260															260
270															270
280															280
290															290
300															300

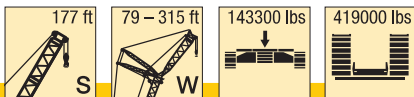
TAB 181047 / 181054 / 181061



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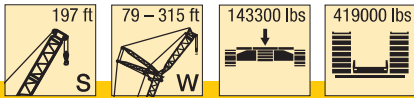
ft	S 177																		ft				
	W 79			W 98			W 118			W 138			W 157			W 177				W 197			
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°		87°	77°	67°	
45	400																						45
50	370																						50
55	336																						55
60	307																						60
65	283																						65
70	263																						70
75	244																						75
80	228																						80
85	214																						85
90	202																						90
95		151																					95
100		142																					100
105		134																					105
110		127																					110
115		120																					115
120		114																					120
125																							125
130																							130
135																							135
140																							140
150																							150
160																							160
170																							170
180																							180
190																							190
200																							200
210																							210
220																							220
230																							230

TAB 181047 / 181054 / 181061



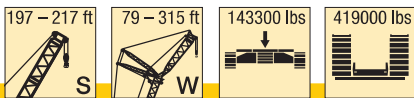
ft	S 177												ft
	W 217		W 236		W 256		W 276		W 295		W 315		
	87°	77°	87°	77°	87°	77°	87°	77°	87°	77°	87°	77°	
80	181												80
85	170												85
90	159												90
95	150												95
100	141												100
105	133												105
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115	119												115
120	113												120
125	107												125
130	102												130
135	97												135
140	92												140
150	84												150
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200	54												200
210	49.3												210
220	45.6												220
230													230
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300													300

TAB 181047 / 181054 / 181061



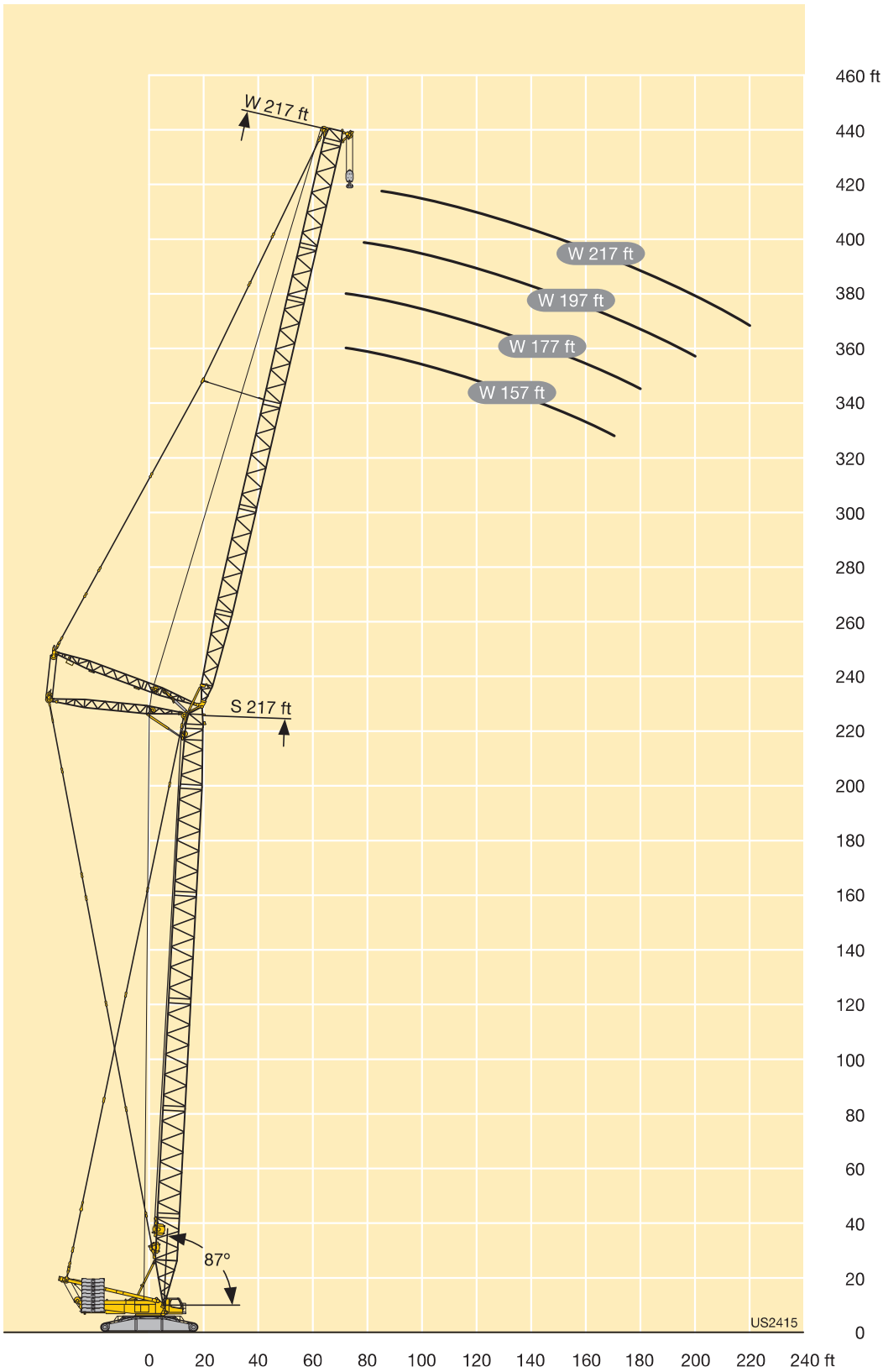
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45	383																					45
50	354																					50
55	323			311																		55
60	296			285				276														60
65	272			263				255			246			237								65
70	253			244				237			231			222								70
75	236			227				220			215			207			201					75
80	220			212				206			201			193			187			181		80
85	206			199				193			189			181			176			169		85
90	194			187				181			177			170			165			159		90
95				176				171			167			160			155			150		95
100				167				161			158			151			146			141		100
105		132		158	119			153			149			143			138			133		105
110		124		150	112			145	105		142			135			131			126		110
115		118																				115
120		111			106			138	101		135			128			124			120		120
125		105			100			131	96		128			122			118			113		125
130		100			95			125	91		122	88		116			112			108		130
135		95			90			119	86		116	84		110	76		107			102		135
140			57		86			82	78		107	76		101	70		97	63		93	59	140
150			54		82			71	71		68	68		92	63		89	59		85	55	150
160								64	64		62	62		84	56		81	53		77	49.3	160
170						43.6		59	59	34.9	56	32.9		78	51		74	47.9		71	44	170
180						34.6				31.2	52	29.3					69	43.2		65	39.4	180
190										27.6		25.8			41.8	20.2		38.9		60	35.2	190
200												22.6			37.9	17.1		35	14.3	55	31.4	200
210																14.3		31.5		28		210
220																11.8		28.5		24.9		220
230																				22.1		230
240																				19.6		240

TAB 181047 / 181054 / 181061



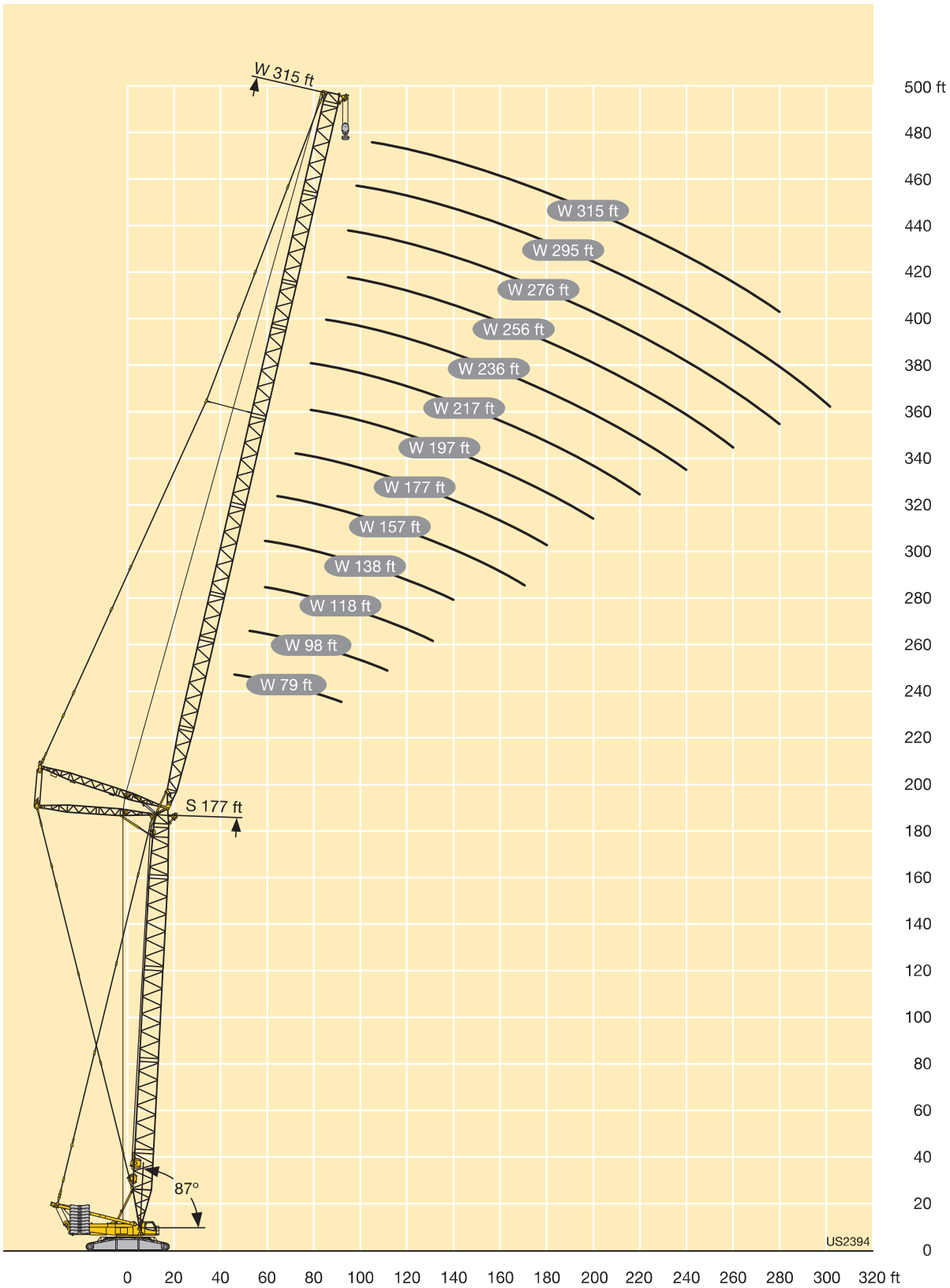
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75																					75	
80																						80
85	163		156																	156		85
90	153		147																	147		90
95	144		138			136														139		95
100	136		130			128			122		112									136		100
105	128		123			120			115		110									128		105
110	121		116			114			108		104									121		110
115	115		110			108			102		98									123		115
120	109		104			102			96		92									117		120
125	103		98			96			91		87									111		125
130	98		93			91			86		82									106	68	130
135	93		89			87			82		78									101	66	135
140	89		84			83			78		74									97	62	140
150	81		76			75			70		66									92	58	150
160	73	45.2	69	40.5		67			63		59									88	55	160
170	67	40.1	62	35.4	61	33.8			57		53									81	49.6	170
180	61	35.6	57	31	56	29.8			51		47.6									74	44.5	180
190	56	31.5	52	27	50	25.8	46	21.2	46	21.2	42.7	17.7								40	67	190
200	51	27.8	46.9	23.4	45.8	22.2	41.4	17.6	38.1	14.2	38.1	14.2								36	34.9	200
210	47	24.4	42.7	20	41.5	18.9	37.2	14.4	33.9		33.9									32.3		210
220	43.3	21.4	38.9	17	37.7	15.9	33.5	11.5	30.2		30.2											220
230		18.6	35.5	14.3	34.2	13.2	30		26.8		26.8											230
240		16	32.5	11.8	31		26.8		23.6		23.6											240
250		13.7			28.1		23.8		20.7		20.7											250
260		11.7			25.4		21.1		18		18											260
270							18.7		15.5		15.5											270
280							16.5		13.2		13.2											280
290									11.1		11.1											290
300									9.2		9.2											300

TAB 181047 / 181054 / 181061



Lifting heights Hauteurs de levage

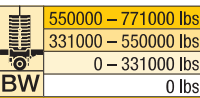
SW



G

HSDWB/B2/BW

HS 138

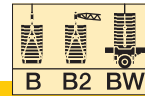


ft		HS 138																												
		W 79				W 98				W 118				W 138				W 157				W 177								
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°					
45	- B B2 BW	423 705 705				405 705 705																								
50	- B B2 BW	389 705 705				373 705 705																								
55	- B B2 BW	352 705 705	341 705 705			337 694 699 698				326 611 618 618																				
60	- B B2 BW	320 700 703 702	311 705 705			307 671 684 682	298 704 705 705			297 594 602 603	287 624 632 633			290 523 527 527							280 452 455 456									
65	- B B2 BW	294 672 692 687	285 705 705			282 645 663 657	273 695 705 705			273 580 587 588	264 610 620 621			266 511 516 517	255 532 533 533						258 445 449 449			249 386 387 387						
70	- B B2 BW	272 628 638 635	263 674 684 684			261 615 626 621	252 660 679 675			252 563 571 571	244 592 607 605			247 500 506 506	238 524 529 529						238 437 441 442			233 381 383 383						
75	- B B2 BW	253 581 583 582	244 628 638 638			242 579 583 580	234 620 638 633			234 545 552 553	226 569 586 582			229 488 493 495	221 514 521 521						221 430 433 434	214 447 451 452			216 375 378 378					
80	- B B2 BW	235 534 533 533	228 578 580 579	199 636 692 697		225 540 537 538	218 577 587 586			217 521 526 527	210 542 558 554			213 476 477 484	206 502 510 510						206 422 425 426	199 440 445 445			202 369 371 371	194 383 384 384				
85	- B B2 BW	220 488 486 488	213 531 532 532	186 600 652 664		210 496 493 494	203 535 533 537	176 589 639 657		203 489 489 490	196 512 526 522			199 464 460 473	192 489 496 497						192 412 417 417	186 433 438 439			188 361 363 363	181 375 377 378				
90	- B B2 BW	205 433 432 431	200 489 489 490	174 567 617 624		197 460 458 459	191 492 492 493	165 560 608 618		191 457 455 456	184 482 490 489			187 443 438 449	180 472 478 478						181 403 408 408	174 425 435 431			177 351 353 354	170 367 369 370				
95	- B B2 BW			163 426 537 425		186 429 427 429	179 458 457 457	155 531 577 581		179 425 423 425	173 453 455 456			176 420 416 423	170 450 454 455						170 392 396 397	163 415 420 420			166 344 344 345	160 358 361 362				
100	- B B2 BW			154 510 554 552		175 397 395 397	169 428 426 427	146 504 547 548		169 395 394 395	163 424 423 424	140 497 541 546			166 396 393 397	160 424 426 427						160 378 382 382	154 404 407 408			156 332 335 335	151 349 352 353			
105	- B B2 BW			145 484 523 518		164 360 359 359	160 399 398 399	137 479 518 516		159 371 371 371	153 473 515 515	131 473 515 515			156 373 396 374	129 470 510 518						151 361 363 364	145 392 394 395			148 323 325 326	142 340 343 344			
110	- B B2 BW			136 462 484 481		154 319 318 319	150 362 362 362	130 457 485 485		151 351 350 350	145 371 370 371	124 452 483 481			148 350 349 351	143 448 485 488						143 345 345 345	137 369 370 371	114 428 434 435			140 313 316 316	134 331 335 335		
115	- B B2 BW			125 400		141 313 311 312	123 436 449 451			143 329 329 329	138 350 349 350	117 431 451 448			141 329 329 331	135 349 349 349						135 327 328 327	130 347 347 347	109 419 429 430			132 304 307 307	127 321 323 324		
120	- B B2 BW			101 404 445 443		116 416 418 422				135 307 306 307	131 329 329 330	111 411 419 417			134 312 312 314	128 329 328 329	109 410 422 422						128 309 310 310	123 326 325 326	103 404 416 416			126 294 298 297	120 311 310 312	101 346 351 352
125	- B B2 BW			94.6 385 425 424		109 395 395 396	88.7 379 417 398			128 283 282 283	124 308 307 308	105 389 389 390			127 297 297 298	122 311 310 310	103 391 392 392						122 291 293 291	117 309 308 308	97.7 388 391 391			119 284 287 286	114 300 296 300	95.3 346 346 346
130	- B B2 BW			89.2 368 406 406		102 369 368 368	84 364 401 383			121 252 249 252	116 286 285 285	99.7 365 364 365			121 282 282 283	116 297 296 296	97.7 366 368 368						116 276 278 276	111 292 290 291	92.6 366 367 367			113 273 274 273	109 289 281 287	90.3 334 339 339
135	- B B2 BW			79.2 351 385 368		79.2 351 385 368				94.7 345 345 345					115 266 266 266	110 282 282 281	93.1 348 347 347						110 264 265 264	106 278 276 277	88 346 346 346			108 262 261 260	104 276 269 274	85.8 328 328 328
140	- B B2 BW			74.4 338 369 354		74.4 338 369 354				89.7 327 328 328	67.3 353 337			108 250 249 249	104 267 267 266	88.6 327 326 326							105 253 252	101 265 264	83.6 326 326 325			103 251 248 248	98.8 263 257 260	81.4 313 316 315
150	- B B2 BW			66 312 340 328		66 312 340 328				79.8 280 281 280	63.3 308 338			93.6 225 225 225	79.5 291 291 292								94.7 227 227 227	91.2 240 239 239	75.4 290 290 290			230 227 227	239 235 237	288 288 288

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 138



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

ft		HS 138																									
		W 79				W 98				W 118				W 138				W 157				W 177					
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°		
160	- B B2 BW												56.7				70.7	55.7	85.4	82.2	67.9	50.9	85	81.6	66.6		
													284				262	282	196	215	261	278	211	219	261		
													311				261	313	196	214	261	308	208	216	258		
													302				263	314	197	214	261	311	208	216	260		
170	- B B2 BW												51				63.6	50.2	76.3	73.1	61.1	45.5	75.9	72.7	60.4	43.3	
													266				240	264	157	186	237	260	190	201	237	257	
													288				239	290	158	186	238	287	187	198	234	283	
													282				240	292	158	186	239	288	188	198	235	273	
180	- B B2 BW																	45.6				55.5	40.9	68.7	65.8	54.8	39
																		249				217	245	167	181	217	242
																		268				217	265	165	178	215	264
																		268				218	265	166	179	215	257
190	- B B2 BW																	40.5				50.5	36.7		60.1	49.8	34.9
																		232				185	228		151	200	225
																		248				185	243		148	199	242
																		247				185	242		149	198	238
200	- B B2 BW																						33			45.4	31.1
																							212			184	211
																							222			183	220
																							221			183	219
210	- B B2 BW																										27.8
																											200
																											201
																											201
220	- B B2 BW																										24.8
																											186
																											185
																											184
230	- B B2 BW																										22.3
																											173
																											172
																											172

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 138



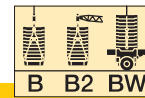
550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

H

ft		HS 138																																	
		W 197				W 217				W 236				W 256				W 276				W 295				W 315									
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°						
75	- B B2 BW	208 321 322 322																																	
80	- B B2 BW	194 317 319 319				189 274 275 275				184 235 235 235																									
85	- B B2 BW	181 313 315 315	173 320 322 322			177 271 272 272	276 277 277			172 233 234 234				166 197 197 197																					
90	- B B2 BW	170 310 312 312	163 318 320 320			166 268 270 270	159 274 275 275			161 231 232 232				156 195 195 195																					
95	- B B2 BW	159 306 308 308	153 315 317 317			156 265 267 267	149 272 273 273			151 229 229 229	145 232 233 233			146 193 193 193			140 167 167 167			137 143 143 143															
100	- B B2 BW	150 302 304 304	144 312 314 315			146 262 263 264	140 269 271 271			142 227 227 227	136 231 231 231			138 190 191 191	131 193 193 194			132 166 166 166			129 141 142 142				118 119 119 119										
105	- B B2 BW	141 298 301 301	135 309 311 312			138 258 260 260	132 266 268 268			134 224 225 225	128 229 229 229			129 188 189 189	124 192 192 192			124 164 164 164	118 166 166 166		121 140 140 140				116 117 117 117										
110	- B B2 BW	133 295 297 297	128 305 307 309			130 254 256 257	125 263 265 265			127 222 223 223	121 227 228 228			122 186 187 186	117 189 190 190			117 162 163 163	111 164 165 165		114 139 139 139	107 140 140 140				109 116 116 116									
115	- B B2 BW	126 289 292 292	121 302 302 306			123 251 252 253	118 260 262 262			120 219 220 220	114 224 226 226			115 184 184 184	110 187 188 188			110 160 161 161	105 163 163 163		108 137 138 138	102 139 139 139				103 114 115 115	93.8 116 115 116								
120	- B B2 BW	120 282 285 285	114 299 297 303			117 247 249 249	112 256 258 259			113 216 217 217	108 222 224 224			109 181 182 182	104 186 186 186			104 159 159 159	98.7 162 162 162		102 136 136 136	96.5 138 138 138				97 113 113 113	91.7 114 114 114								
125	- B B2 BW	113 275 276 277	108 295 291 298			111 243 245 245	106 253 255 255			107 213 215 215	102 220 221 221			103 179 180 180	98.2 184 184 184			103 157 158 158	98.1 160 160 161	93.1 160 160 161	96.1 135 135 135	91.1 137 137 137				91.4 111 112 112	86.4 113 113 113								
130	- B B2 BW	108 268 268 269	103 282 279 285	84.4 303 307 307		105 239 241 241	100 250 252 252			102 211 212 212	96.9 217 219 219			97.9 177 178 178	93 182 182 182			92.9 155 156 156	88 159 159 159		90.9 134 134 134	86 136 136 136				86.3 110 110 110	81.4 112 112 112								
135	- B B2 BW	103 258 258 259	98 270 268 272	80 301 304 305		99.9 235 237 238	95.3 245 247 247			96.8 208 209 209	92.1 211 216 217			93 175 176 176	88.3 180 181 181			88.1 154 154 154	83.3 157 158 158	81.5 157 158 158	86.2 132 132 132	81.5 134 134 134				81.7 109 109 109	76.9 110 110 110								
140	- B B2 BW	97.7 247 247 248	93.2 257 256 259	75.7 298 301 301		95 231 233 234	90.5 240 241 241	69.5 251 253 253		92 205 206 207	87.5 212 214 214	66.4 212 213 213			88.3 173 174 174	83.7 178 179 179			83.5 152 152 153	78.9 155 156 156	81.6 131 131 131	77.1 133 133 133				107 107 107	109 109 109								
150	- B B2 BW	88.8 226 225 225	84.5 234 233 235	68 282 283 284		86.2 219 221 221	81.9 228 228 228	65.5 249 250 252		83.3 199 200 201	79 207 209 209	62.5 211 213 213			79.7 169 170 170	75.4 174 175 175			75 148 149 149	70.7 152 153 153	73.3 128 128 129	69 131 131 131				104 104 104	106 107 107								
160	- B B2 BW	80.6 205 205 205	76.6 215 215 215	61.2 258 257 258		78.3 203 204 204	74.3 214 213 214	58.8 244 243 246		75.5 192 193 194	71.4 202 203 203	55.8 210 212 212			72.1 165 166 166	68 171 172 174	52.3 173 174 174			67.5 145 146 146	63.3 149 150 150	65.8 126 126 126	61.8 128 129 129				101 102 102	104 104 104							
170	- B B2 BW	72.7 190 190 190	69.3 198 196 198	55.1 234 232 234		71.4 187 187 187	67.5 196 196 196	52.8 229 226 230		68.6 181 181 182	64.7 193 195 195	49.9 208 209 210			65.3 161 162 162	61.4 167 168 168	46.5 172 173 173			60.7 142 143 143	56.8 146 147 147	41.8 123 127 127	59.2 126 127 127	39.9 124 124 124				98.4 98.8 98.8	101 101 101						
180	- B B2 BW	65.8 174 174 175	62.9 183 181 183	49.9 214 212 213		64.7 174 174 174	61.6 181 181 181	47.5 211 210 212		62.5 170 170 171	58.9 179 180 180	44.7 204 204 205			59.3 156 157 157	55.6 162 163 163	41.4 170 172 172			54.9 138 139 139	51.2 143 144 144	36.8 145 146 146	53.4 121 124 124	49.7 124 124 124	35.3 123 124 124				94.4 96 96	98.4 98.7 98.7					
190	- B B2 BW	59.9 158 157 159	57.3 167 166 167	45.1 196 195 196	29.6 221 240 235	58.9 161 161 161	56.2 168 168 168	42.8 194 194 195		57.1 159 159 160	53.6 166 166 166	40 193 192 194			53.9 151 151 151	50.4 165 156 156	36.8 169 170 170			49.5 135 136 136	46 140 141 141	32.3 144 145 145	48.1 118 119 119	44.5 122 122 123	30.8 144 145 145				96.7 93.4 93.4	26.7 95.9 96.2					
200	- B B2 BW	54.8 138 137 138	52.3 151 150 151	40.7 181 180 180	25.9 207 219 217	53.7 148 148 149	51.2 156 156 155	38.5 204 214 214	23.6 204 214 214		52.1 148 148 149	48.7 154 154 154	35.7 179 178 179			49 145 145 145	45.6 147 148 148	32.6 165 166 166		44.7 132 132 133	41.3 135 136 136	28.1 143 144 144	43.2 115 116 116	39.8 120 120 122	26.7 142 142 142				90.7 90.9 91	93.6 93.8 94	94.9 95.3 95.3				
210	- B B2 BW			36.4 168 168 168	22.5 196 196 199	49.1 135 135 136	46.6 144 143 143	20.3 164 165 164	20.3 194 200 198		47.5 138 138 139	44.3 144 144 143	31.8 165 164 165	17.5 183 185 185			44.5 136 136 136	41.2 139 139 139	28.7 158 159 158		40.2 130 129 130	36.9 140 131 131	24.3 144 142 142	38.8 113 114 114	35.5 117 118 118	22.9 120 120 121				87.8 88.6 88.5	91.3 91.4 91.7	93.5 94 94			

HSDWB/B2/BW

HS 138



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

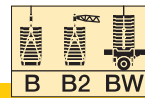
ft		HS 138																															
		W 197				W 217				W 236				W 256				W 276				W 295				W 315							
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°				
220	- B B2 BW			33.1	19.6	45	42.7	31.2	17.4	43.6	40.4	28.4	14.6	40.5	37.4	25.3	11.4	36.2	33.1	21	34.8	31.7	19.6		31	27.9	15.6						
				155	183	120	131	154	182	127	133	151	178	127	130	149	151	122	125	138	122	111	115	119		85	88.8	92.1					
				155	183	120	130	155	183	127	133	152	177	127	131	149	142	122	125	139	107	112	116	120		86.2	89.1	92.7					
				156	183	120	130	154	183	128	133	152	179	127	130	149	153	122	125	138	123	112	116	120		86.1	89.4	92.7					
230	- B B2 BW			30.1	17			38.2	28.1	14.7	38.9	36.3	25.2	11.9	36.6	33.8	22.2	8.7	32.6	29.6	17.8	31.1	28.1	16.5		27.4	24.4	12.5					
				132	169			108	144	169	116	123	141	167	118	122	139	151	114	118	133	124	107	113	119		82.3	86.6	90.7				
				133	169			107	144	168	115	123	141	166	118	122	139	153	114	118	133	125	108	114	119		83.9	86.9	91.3				
				133	169			108	144	168	116	123	141	166	118	122	139	151	114	118	133	125	108	114	119		83.8	87.1	91.3				
240	- B B2 BW				14.6					25.3	12.2	34.6	32.5	22.3	9.4	33.1	30.6	19.3	29.3	26.3	15	27.7	24.8	13.6		24	21.1	9.7					
					157					133	156	101	112	132	155	109	114	129	148	107	110	125	125	103	109	117	102	79.9	84.3	89.3			
					157					132	155	99.8	111	132	155	109	113	129	149	106	110	125	126	103	109	117	103	81.5	84.7	89.9			
					156					133	155	101	111	133	155	109	114	129	146	107	110	125	126	103	110	117	103	81.4	84.8	89.9			
250	- B B2 BW									10				19.6	30.1	27.6	16.6	26.2	23.3	12.3	24.6	21.8	10.9		20.9	18		77.8	82.1	87.8	77.3		
										144				124	143	99.8	106	120	141	99.7	103	116	125	97.9	103	113	104	79.1	82.6	88.4	77.8		
										144				124	143	99.8	105	120	141	98.8	103	115	127	98	103	113	104	79.1	82.6	88.6	77.8		
										143				124	144	100	105	120	139	99.5	103	116	127	98.4	103	113	104	79.1	82.6	88.6	77.8		
260	- B B2 BW									8				17.2	27.4	25	14.2	23.4	20.6	9.9	21.7	19	8.5		18	15.3		75.8	80	86.3	77.4		
										134				115	133	89.4	96.4	112	131	92.7	96.4	108	122	92.9	96.4	107	105	76.7	80.4	87	78.1		
										135				115	133	89	95.8	112	131	92	96.2	107	126	92.6	96.6	106	106	76.8	80.5	87.2	78.1		
										134				115	133	89	96	112	130	92.9	96.3	108	126	93.1	96.6	107	106	76.8	80.5	87.2	78.1		
270	- B B2 BW																	22.9	12	20.9	18.2	7.7		19.1	16.5		15.4	12.7		77.5			
																		77.8	105	121	84.4	89.8	101	116	86.8	90	101	105	73.8	77.9	85.1	77.5	
																		77.2	104	122	84	89.7	101	119	86.4	90.1	100	106	74.3	78.2	85.6	78.2	
																		77.5	105	122	85	89.9	101	118	86.8	90	100	106	74.6	78.4	85.8	78.2	
280	- B B2 BW																			18.7	16			16.6	14.1		12.9	10.4		71.2	75.5	83.1	77.5
																								14.4	11.9		10.7	72.3	80.1	77.3			
																								14.4	11.9		68	72.3	80.1	77.3			
																								12.4	9.9		68.3	72.4	80.5	78			
290	- B B2 BW																							12.4	9.9		68.7	72.7	80.8	78			
																								99			64.9	68.1	75.6	77.2			
																								99.8			65.1	68.2	75.7	77.9			
																								99.7			65.4	68.3	76.1	77.9			
300	- B B2 BW																																
310	- B B2 BW																																
320	- B B2 BW																																
330	- B B2 BW																																
340	- B B2 BW																																
350	- B B2 BW																																
360	- B B2 BW																																

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 157



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

H

ft		HS 157																							
		W 79				W 98				W 118				W 138				W 157				W 177			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
45	- B B2 BW	418 705 705				674 681 681																			
50	- B B2 BW	386 705 705				352 658 666																			
55	- B B2 BW	349 700 705	337 705			337 637 647				325 560 568															
60	- B B2 BW	319 683 699	308 704 705			307 617 628	296 656 671			297 546 555				289 480 485											
65	- B B2 BW	293 644 667	283 698 705			283 596 608	272 638 654			273 532 540	260 559 570			266 471 477	487 496 496			254 411 414					249 358 359		
70	- B B2 BW	271 608 628	262 662 687			262 574 586	252 620 637			253 517 526	243 548 561			246 461 466	229 482 490			238 404 408					233 353 355		
75	- B B2 BW	252 572 585	243 625 649			243 549 562	234 599 616			235 503 512	226 535 547			229 450 456	220 473 482			221 396 402	213 414 418				217 347 351		
80	- B B2 BW	235 536 542	226 588 598			226 523 534	218 574 589			219 486 497	210 516 531			213 439 446	205 464 473			206 389 395	198 407 413				202 342 346		
85	- B B2 BW	220 500 498	212 547 547	180 647 694		212 497 500	203 544 553			205 468 480	197 494 511			200 429 437	192 455 465			193 381 386	185 401 407				189 335 339		
90	- B B2 BW	208 457 453	199 503 504	169 616 660		199 471 468	191 508 512			192 448 459	185 471 488			188 416 422	180 445 457			181 374 379	174 395 402				177 327 331		
95	- B B2 BW	188 461 460	159 585 627			187 442 438	180 474 475	152 573 613		181 426 433	174 448 464			177 404 405	169 434 445			170 366 372	163 387 394				167 320 323		
100	- B B2 BW		149 557 593			177 410 406	170 444 442	143 549 587		171 403 405	164 426 438	137 534 567			166 390 386	159 419 429			161 357 363	154 378 385				157 312 315	
105	- B B2 BW		141 530 558			168 373 371	160 416 414	134 523 560		161 381 380	154 404 411	129 514 551			157 373 368	150 401 406			151 347 352	145 371 377				149 304 307	
110	- B B2 BW		133 505 517			159 334 333	152 380 378	127 500 525		153 360 360	146 383 385	121 493 525			149 354 358	143 381 383	116 465 471			143 338 341	137 359 363				141 296 299
115	- B B2 BW		126 477 479			145 343 340	120 475 489			145 339 339	139 363 363	115 472 489			141 335 333	135 457 458			136 326 327	130 347 349				133 289 291	
120	- B B2 BW					114 449 454	132 449 451	109 510 522		138 317 316	132 343 342	103 449 452			134 318 317	128 339 338	105 443 438			129 311 312	123 333 333	100 393 402			127 281 284
125	- B B2 BW			89.1			108			132 292	126 322	103 420			128 303	122 319	99.8 422			123 296	117 318	94.7 386			120 276
130	- B B2 BW			84.5			103	77.6		125 297	120 298	97.8 393			122 288	116 304	94.7 395			117 281	111 301	89.7 373			114 265
135	- B B2 BW			79.9				74.7		116 272	111 289	93.2 371			116 271	111 288	90.2 371			112 268	106 285	85.2 358			109 258
140	- B B2 BW			75.3				70.8		111 350	106 359	88.8 386	62.7 364		111 255	106 273	85.8 349			107 257	101 271	80.9 346			104 251
150	- B B2 BW							63.7		80 312	77.9 345				96.2 238	77.9 310			97.2 232	92.3 245	73.1 308				95.2 234

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 157



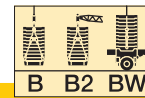
550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

H

ft		HS 157																												
		W 197				W 217				W 236				W 256				W 276				W 295				W 315				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
75	-	210																												
	B	301																												
	B2	302																												
	BW	303																												
80	-	196				190																								
	B	298				257						221																		
	B2	299				258						222																		
	BW	300				258						222																		
85	-	183	175			177						172			166															
	B	294	301			254						219			186															
	B2	296	303			256						220			187															
	BW	296	304			256						220			187															
90	-	172	165			166						162			157															
	B	290	299			252						217			185															
	B2	293	301			253						218			185															
	BW	293	302			253						219			185															
95	-	162	155			156	149					152			147			141												
	B	287	296			249	255					215			183			158												
	B2	289	299			250	257					216			183			159												
	BW	290	299			251	257					217			183			159												
100	-	153	146			147	140					143	136				138	124					130					113		
	B	283	293			245	253					213	218				181	184					135					113		
	B2	285	296			247	255					214	218				181	184					135					113		
	BW	286	297			248	255					214	219				181	184					135					113		
105	-	144	137			139	132					135	128				130	124				125	118					111		
	B	279	291			242	251					211	216				178	182				155	157					111		
	B2	282	294			244	253					212	217				179	182				156	157					111		
	BW	283	294			245	253					212	217				179	183				156	157					112		
110	-	136	130			131	125					128	121				123	117				118	111			115	107	109		
	B	275	287			239	248					208	214				176	180				154	156			132	133	110		
	B2	278	291			241	250					210	215				177	181				154	156			132	133	110		
	BW	279	291			241	250					210	216				177	181				154	156			132	133	110		
115	-	129	123			124	118					121	114				116	110				111	105			109	103	104		
	B	271	284			235	244					205	212				174	178				152	155			131	132	109		
	B2	274	288			237	247					207	213				175	179				153	155			131	132	109		
	BW	275	288			237	247					207	214				175	179				153	155			131	132	109		
120	-	122	116			118	112					114	108				110	104				105	98.8			103	96.7	98	91.8	
	B	266	281			231	241					203	210				172	177				150	154			130	131	107	109	
	B2	271	285			234	244					205	211				173	177				151	154			130	132	107	109	
	BW	270	285			234	244					205	212				173	178				151	154			130	132	108	109	
125	-	116	110			112	106					108	102				104	98.4				99.1	93.2			97.2	91.3	92.5	86.5	
	B	262	277			228	238					200	208				170	175				149	152			129	130	106	108	
	B2	267	282			230	241					202	209				171	176				150	153			129	131	106	108	
	BW	266	282			231	241					202	210				171	176				150	153			129	131	106	108	
130	-	110	105	82.1		106	100					103	97.2				98.9	93.3				93.8	88.2			91.9	86.3	87.4	81.6	
	B	259	271	283		224	235					198	205				168	173				147	151			127	129	105	106	
	B2	263	275	288		226	238					200	207				169	174				148	151			128	130	105	107	
	BW	263	276	288		227	238					200	207				170	174				148	151			128	130	105	107	
135	-	105	99.8	79		101	95.5					97.8	92.4				94	88.6				89.1	83.5			87.2	81.7	82.7	77.2	
	B	252	266	283		221	231					195	203				166	171				146	149			126	128	103	105	
	B2	256	268	289		223	234					197	205				167	173				146	150			126	129	103	105	
	BW	256	269	289		223	235					197	205				168	173				147	150			126	129	104	106	
140	-	100	95.1	74.8		96.1	90.8	67				93.1	87.8				89.3	84				84.4	79.1			82.7	77.3	78.3	72.8	
	B	245	261	283		217	228	235				192	200				164	170				144	148			125	127	102	104	
	B2	248	262	289		220	230	238				194	202				165	171				145	149			125	128	102	104	
	BW	248	262	289		220	232	239				194	203				166	171				145	149			125	128	102	104	
150	-	91.3	86.3	67.2		87.2	82.2	63.1				84.3	79.3				80.7	75.7				76	70.9			74.3	69.3	70.1	64.9	
	B	228	244	276		208	221	234				187	196				160	166				141	145			122	125	99.4	102	
	B2	229	244	285		211	222	238				189	198				162	168				141	146			123	125	99.6	102	
	BW	230	244	283		211	225	238				189	198				162	168				142	146			123	126	99.7	102	
160	-	83.3	78.6	60.5		79.3	74.6	56.5				76.5	71.8	53.6			73.1	68.3	50			68.4	63.6			66.9	62.1	62.7	57.9	
	B	211	224	262		199	212	232				182	191	198			157	163	164			137	142			119	123	96.7	99.1	
	B2	210	223	272		201	211	236				184	194	200			158	164	166			138	143			120	123	97.1	99.6	
	BW	212	223	269		201	216	236				184	193	201			159	164	166			138	143			120	124	97.2	99.5	
170	-	76.3	71.8	54.5		72.3	67.8	50.6				69.6	65.1	47.8			66.2	61.7	44.3			61.7	57.2	39.2		60.2	55.7	56.1	51.5	
	B	196	205	244		189	198	229				176	185	197			153	160	164			134	139	138		117	120	116	94.2	96.7
	B2	196	204	249																										

HSDWB/B2/BW

HS 157



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 157																												
		W 197				W 217				W 236				W 256				W 276				W 295				W 315				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
220	- B B2 BW			33.2	17	47	43.7	29.5	13.4	44.5	40.8	26.8	10.6	41.4	37.7	23.6		37.1	33.4	19.2		35.7	32	17.9		31.9	28.2	13.9		
		165	200	123	134	161	187	130	137	159	172	129	134	154	140	118	126	134		118	126	134		105	110	114	81.2	84.8	88.6	
		164	200	123	133	161	195	130	136	156	175	128	134	151	135	119	127	136		119	127	136		106	111	115	81.8	85.7	89.4	
		164	200	123	134	161	191	129	137	159	175	129	134	154	137	119	127	136		119	127	136		106	111	115	81.9	85.8	89.5	
230	- B B2 BW			30.2	14.4			39.3	26.4	10.9	40.2	37.2	23.6	8.1	37.7	34.2	20.6		33.4	29.9	16.2		32	28.5	14.9		28.2	24.7	10.9	
		150	183			115	150	176	119	126	148	170	120	125	145	143	112	120	132		112	120	132		102	108	113	78.5	82.3	87.5
		150	184			114	150	181	119	126	146	173	120	125	143	145	113	121	134		113	130	118		103	109	114	79.1	83.1	88.3
		149	184			114	150	179	118	126	148	173	120	125	145	145	114	120	134		114	120	134		104	109	115	79.2	83.3	88.3
240	- B B2 BW				12.1			23.6			36.3	33.9	20.8		34.3	30.9	17.7		30	26.6	13.4		28.6	25.2	12.1		24.8	21.4		
		169				140	166	105	115	138	163	111	117	135	145	107	112	128	116		107	112	128	116	99.6	105	112	75.8	79.7	86.2
		169				140	167	104	115	138	166	111	116	134	145	107	113	130	118		107	113	130	118	100	106	114	76.5	80.6	87.1
		169				140	166	105	115	138	166	111	116	135	147	108	113	130	118		108	113	130	118	101	106	114	76.7	80.8	87.1
250	- B B2 BW										18.1			31.2	27.9	15.1		26.9	23.6	10.8		25.4	22.1			21.7	18.4			
		156				154				129	153	102	108	125	146	101	105	120	118		101	105	120	118	97.1	101	111	73.7	77.3	85
		155				154				129	154	102	108	125	146	100	105	121	119		100	105	121	119	97.5	102	112	74.2	78.2	85.7
		156				154				129	154	102	108	125	146	102	106	121	120		102	106	121	120	97.7	102	113	74.5	78.3	85.8
260	- B B2 BW									15.8			28.6	25.3	12.7		24.1	20.9	8.4		22.6	19.4			18.8	15.6				
		147				143				120	142	91.7	99.2	117	140	94.2	98.3	113	119		94.1	96.8	107	97.8	71.9	75.6	83.4	72.1		
		147				143				120	142	91.4	99	117	134	93.9	98.5	113	121		94.1	97	108	98.9	72.4	76.4	84.3	70.3		
		147				143				120	142	91.3	99.4	117	140	94.6	98.7	112	122		94.4	97.3	108	98.9	72.6	76.5	84.5	73		
270	- B B2 BW									13.7			23	10.6		21.6	18.4			19.9	16.8			16.2	13.1					
						134				110	132	83.6	110	131	86.6	91.5	105	118		88.5	91.8	103	99.1	70.1	73.8	81.7	72.7			
						134				110	132	83.4	110	127	86.3	92	105	120		88.4	91.7	104	100	70.6	74.7	82.7	73.6			
						134				110	132	83.6	110	131	86.8	91.9	105	120		88.7	92.1	103	100	70.8	74.8	82.8	73.6			
280	- B B2 BW											123			8.6	19.4	16.2			17.4	14.4			13.7	10.7					
											102	122	75.8	83.4	98.7	115	81.9	86.1	98.1	100		81.9	86.1	98.1	100	68.1	72	79.9	73	
											124				103	120	75	84	98.2	116		81.8	85.8	98.6	101	68.7	72.8	81	74	
											123				103	121	75.3	83.9	98.6	116		82.1	86.1	98.1	102	68.8	72.9	81.1	74	
290	- B B2 BW										116									15.1	12.2			11.4						
											116									92.5	109	75.1	79.6	92.2	101	66.2	69.9	78.1	73.2	
											116									91.8	109	75	79.2	92.2	102	66.9	70.7	79.1	74.3	
											116									92.6	110	75.3	79.3	92.2	103	67	70.7	79.2	74.3	
300	- B B2 BW																			13.1	10.2			9.3						
											109									87.1	102	66.3	72.2	86.3	101	64.8	67.3	75.5	73.3	
											109									86.8	102	66.2	72.2	85.9	101	65.2	67.7	76.4	74.5	
											109									87.4	102	66.8	72.1	86.4	102	65.1	67.7	76.2	74.5	
310	- B B2 BW																													
320	- B B2 BW																													
330	- B B2 BW																													
340	- B B2 BW																													
350	- B B2 BW																													
360	- B B2 BW																													
370	- B B2 BW																													
380	- B B2 BW																													

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 177



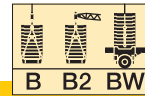
550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

H

ft		HS 177																							
		W 79				W 98				W 118				W 138				W 157				W 177			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
45	-	400																							
	B	703																							
	B2	705																							
	BW	705																							
50	-	369																							
	B	678																							
	B2	689																							
	BW	690																							
55	-	335	322			325				314															
	B	649	697			590				521															
	B2	664	705			598				527															
	BW	666	705			599				527															
60	-	307	294			297	284			287			279												
	B	620	677			570	603			509			448												
	B2	635	699			580	624			515			453												
	BW	636	700			581	624			516			454												
65	-	282	270			273	262			265	250			258			247								
	B	590	650			547	592			496	525			439			384						334		
	B2	607	671			559	608			502	533			445			387					337			
	BW	608	673			559	609			504	533			445			387					337			
70	-	261	250			253	242			245	234			239			231					217			
	B	562	623			525	573			480	513			430			378					331			
	B2	578	644			535	589			489	523			436			382					333			
	BW	580	643			538	590			490	524			436			382					334			
75	-	243	232			236	225			228	218			222	212		215					209			
	B	534	596			503	552			465	500			420	444		372					327			
	B2	549	618			509	569			475	512			426	452		376					329			
	BW	551	614			517	571			476	513			427	452		376					330			
80	-	227	217			220	210			213	203			208	198		201	191				195	185		
	B	506	569			482	531			451	488			411	436		365	382				321	334		
	B2	521	592			482	549			461	501			416	445		369	386				324	337		
	BW	523	583			496	550			461	501			418	445		369	386				325	337		
85	-	213	203			206	196			199	190			194	185		188	179				182	173		
	B	480	541			460	512			435	474			402	429		357	377				316	331		
	B2	494	562			457	529			443	488			408	438		361	383				319	334		
	BW	496	550			472	531			445	489			409	437		362	383				320	334		
90	-	200	191			193	184			187	178			183	174		177	168				171	163		
	B	448	510			438	494			418	458			390	419		350	371				310	326		
	B2	453	516			433	510			424	471			397	428		354	378				313	329		
	BW	453	513			451	510			428	475			398	429		356	378				313	330		
95	-		180	147		182	174			176	168			172	164		166	158				161	153		
	B		472	573		418	475			400	444			377	410		343	365				303	320		
	B2		472	613		411	489			405	452			386	419		348	371				306	324		
	BW		473	585		430	487			412	460			386	421		349	372				307	325		
100	-			138		172	164	133		166	158			162	154		157	149				152	144		
	B			547		397	453	535		384	429			365	400		335	358				296	313		
	B2			585		389	462	573		386	432			374	410		341	364				299	317		
	BW			556		406	459	548		396	444			374	411		342	365				300	318		
105	-			130		163	155	125		157	149	120		153	146		148	140				143	136		
	B			521		369	424	514		368	415	500		352	387		327	352				289	306		
	B2			558		364	424	550		367	413	532		360	398		333	358				291	311		
	BW			529		374	424	522		379	425	514		361	398		333	359				293	311		
110	-			123		155	147	118		149	141	113		145	138	108	140	133				136	128		
	B			497		336	389	491		353	401	482		339	374	437	318	343				281	300		
	B2			533		333	388	526		349	394	516		344	386	452	325	350				284	304		
	BW			505		337	388	499		362	406	493		349	385	452	325	351				285	304		
115	-			117		140	112			142	134	107		138	131	104	133	126				129	122		
	B			475		351	470			337	380	464		326	360	433	308	335				274	293		
	B2			504		349	504			332	374	497		328	372	451	315	341				278	297		
	BW			484		350	478			344	382	473		336	371	452	316	342				278	297		
120	-			111		106				135	128	101		131	124	98.2	126	119				122	115		
	B			455		451				318	356	445		314	346	426	298	327				268	285		
	B2			473		483				312	354	476		313	357	449	304	332				271	290		
	BW			462		458				322	358	454		323	356	445	307	333				271	290		
125	-					101				128	121	95.8		125	118	92.9	120	113	88.1			116	109		
	B					433				293	332	427		302	331	415	289	317	369			261	279		
	B2					463				290	333	457		300	341	446	293	322	380			264	282		
	BW					439				294	334	435		309	341	430	297	323	381			264	283		
130	-				71.6					123	116	90.9		119	113	88.2	114	108	83.4			110	104	78.5	
	B				396					266	305	411		291	316	403	279	307	363			253	272	306	
	B2				427					265	305	436		287	323	429	281	310	375			257	275	313	
	BW				402					266	306	418		295	324	415	287	311	375			258	276	313	
135	-				68.8								86.6	114	108	83.8	109	103	79.1			105	99.2	75.5	
	B				385								395	274	300	390	268	295	352			246	264	303	
	B2				415								411	271	305	408	269	297	368			250	268	310	
	BW				391								400	278	305	398	275	298	368			251	269	310	
140	-				65.2								82.4	109	103	79.7	104	98.1	75.1			101	94.5	71.5	
	B				371								379	256	284	376	258	283	340			240	258	298	
	B2		</																						

HSDWB/B2/BW

HS 177



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 177																							
		W 79				W 98				W 118				W 138				W 157				W 177			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
160	- B B2 BW								48.9				44.7				65.6	87.4	81.8	61.1		83.9	78.5	57.8	
									318				314				305	205	227	295		211	228	277	
									343				339				307	204	225	305		213	229	279	
									322				320				307	204	227	304		213	230	283	
170	- B B2 BW								43.9				39.8				59.8	37.2	80.5	74.7	55.3	77.1	71.8	52.1	
									298				294				273	291	173	197	273	193	211	264	
									321				318				274	315	172	196	275	194	210	261	
									302				299				275	295	173	196	273	194	211	267	
180	- B B2 BW												35.6				55	33.4			50.3	70.3	66.1	47.2	
													276				236	275			248	171	188	245	
													299				237	297			248	170	187	243	
													281				237	279			248	171	189	246	
190	- B B2 BW																	29.7			45.8	25.3	60.6	42.7	22.3
																		259			221	255	163	226	251
																		280			220	276	163	226	265
																		263			222	259	164	226	256
200	- B B2 BW																	26.4			22			38.7	19
																		244			240			206	237
																		264			260			207	257
																		248			245			207	241
210	- B B2 BW																					19		35.1	16.1
																						227		186	224
																						246		186	242
																						231		186	229
220	- B B2 BW																					16.4		32.2	13.5
																						215		159	213
																						226		160	224
																						218		160	217
230	- B B2 BW																								11.2
																									202
																									207
																									204
240	- B B2 BW																								190
																									190
																									190

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 177



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

B B2 BW

ft		HS 177																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
75	-	203																											
	B	285																											
	B2	286																											
	BW	286																											
80	-	189				183																							
	B	282				244																							
	B2	283				245																							
	BW	283				245																							
85	-	177	167			171				166				160															
	B	279	286			241				209				178															
	B2	280	288			243				210				179															
	BW	280	288			243				210				179															
90	-	166	157			160				156				151															
	B	274	284			239				207				177															
	B2	277	286			240				208				177															
	BW	277	286			240				208				177															
95	-	156	148			151	142			147				142			138												
	B	270	282			236	243			205				175			152												
	B2	273	284			237	244			206				175			152												
	BW	274	284			238	244			206				175			152												
100	-	147	139			142	134			138	130			133			130				125					107			
	B	267	279			233	240			203	208			173			151				129				108				
	B2	270	282			234	242			204	208			174			150				129				108				
	BW	270	282			235	242			204	208			174			150				130				108				
105	-	139	131			134	126			130	122			126	118						118					107			
	B	262	275			230	239			201	206			171	175						128				107				
	B2	266	278			231	240			202	207			172	175						128				107				
	BW	266	279			232	240			202	207			172	175						128				107				
110	-	131	124			127	119			123	116			119	111						115	106			105				
	B	259	271			226	236			199	205			169	173						148	150			106				
	B2	262	275			228	238			199	206			170	174						148	150			106				
	BW	262	276			228	238			200	206			170	174						148	150			106				
115	-	124	117			120	113			116	109			112	105						109	102			99.8				
	B	255	268			223	233			196	203			167	171						146	149			104				
	B2	258	272			225	235			197	204			168	172						146	149			104				
	BW	258	273			225	235			197	204			168	172						146	149			105				
120	-	118	111			113	107			110	103			106	99.1						103	96.2			98.8	91.9			
	B	250	265			219	229			193	200			165	170						144	148			103	105			
	B2	254	269			221	232			194	202			166	171						145	148			103	105			
	BW	254	270			222	232			195	202			166	171						145	148			103	105			
125	-	112	105			107	101			104	97.7			100	93.7						97.6	90.8			93.4	86.7			
	B	246	262			216	226			190	198			163	168						142	146			102	103			
	B2	250	266			218	229			192	200			164	169						143	146			102	104			
	BW	251	266			218	229			192	200			164	169						143	147			102	104			
130	-	107	100			102	95.7			99.1	92.6			95.2	88.7						92.4	85.9			88.4	81.8			
	B	242	257			212	224			188	196			162	166						141	145			100	102			
	B2	246	262			214	226			190	197			162	167						141	145			101	103			
	BW	247	263			215	226			190	198			162	168						142	145			101	103			
135	-	102	95.3			97.2	91			94.3	88			90.4	84.2						87.8	81.5			83.8	77.5			
	B	237	254			209	220			185	194			159	165						139	143			121	124			
	B2	242	259			211	223			187	195			160	166						140	144			121	124			
	BW	242	259			212	223			187	196			161	166						140	144			121	124			
140	-	96.8	90.7	64.2		92.5	86.5	60		89.6	83.6			85.9	79.8						83.3	77.2			79.4	73.3			
	B	232	250	268		205	217	223		182	191			157	163						138	142			119	123			
	B2	237	256	266		208	220	227		184	193			159	164						138	143			120	123			
	BW	237	256	274		208	220	227		185	194			159	165						138	143			120	123			
150	-	88	82.3	60.4		83.9	78.2	56.3		81.1	75.4			77.5	71.8						75.1	69.3			71.3	65.5			
	B	220	241	268		198	211	223		178	187			154	160						134	139			117	120			
	B2	225	245	275		201	214	227		179	189			155	161						135	140			117	121			
	BW	226	246	275		202	215	227		180	189			155	161						135	140			117	121			
160	-	80.2	74.8	54.1		76.2	70.8	50.1		73.5	68.1	47.3		70.1	64.7						67.7	62.2			64	58.6			
	B	208	230	268		191	205	222		173	182	189		150	157						131	136			114	118			
	B2	213	231	274		195	208	226		175	185	192		152	158						132	137			115	119			
	BW	213	232	274		195	208	226		175	185	192		152	158						132	137			115	119			
170	-	73.4	68.2	48.5		69.4	64.3	44.6		66.8	61.7	41.8		63.5	58.3	38					61.1	55.9	35.5		57.6	52.4			
	B	195	216	266		184	199	220		167	178	188		147	153	157					128	133	132		112	116			
	B2	198	216	273		189	201	225		170	180	192		148	155	159					129	135	134		112	117			
	BW	198	217	270		189	201	225		170	180	192		149	155	159					129	135	134		112	117			
180	-	67.4	62.5	43.6		63.5	58.6	39.8		60.9	56	37.1		57.6	52.7	33.7					55.3	50.4	31.3		51.9	46.9			
	B	181	198	246																									

HSDWB/B2/BW

HS 177



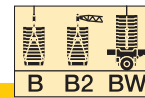
550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 177																												
		W 197				W 217				W 236				W 256				W 276				W 295				W 315				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
220	- B B2 BW			28.3	9.9	45.2	40.9	24.6		42.3	38.1	22		39.2	35	18.9		36.9	32.7	16.6		33.7	29.5	13.3		29.8	25.6	9.2		
				176	209	122	135	175	196	128	142	166	161	124	135	153		112	120	129		99.7	105	110		77.8	81.9	85.9		
				176	223	122	135	175	201	131	141	173	161	127	132	155		113	122	131		101	106	111		78.5	82.8	86.7		
				176	214	122	135	174	201	131	142	171	164	127	137	155		114	123	132		101	106	111		78.4	82.9	86.8		
230	- B B2 BW			25.4						37.5	21.7			38.7	34.6	19.1		35.6	31.6	16		30	26	10.4		26.3	22.2			
				157	199					116	162	192	117	129	157	164		117	129	149		108	117	129		75	79.5	84.9		
				158	206					116	162	197	118	128	161	168		119	124	150		109	117	131		75.7	80.2	85.8		
				158	202					116	163	197	118	129	160	168		110	119	131		110	119	131		75.7	80.3	85.8		
240	- B B2 BW									19.1				35.5	31.5	16.4		32.3	28.4	13.3		29.9	26	11		23	19			
				188						149	184	104	116	148	167		109	122	142	138		104	114	127		72.3	77.1	83.6		
				190						149	187	103	115	150	169		110	116	144	140		105	111	129		73.1	77.6	84.7		
				189						150	187	104	115	149	171		111	122	144	140		105	115	129		73.2	77.7	84.7		
250	- B B2 BW													13.9				29.3	25.5	10.8		26.8	23			19.9	16.1			
				176						134	173			139	168	99.9	111	136	140		99.3	111	126	112		70.2	74.7	81.9		
				175						134	173			140	165	100	107	136	142		100	105	125	113		70.9	75	83.5		
				175						134	173			140	171	101	110	137	142		100	110	125	113		71	75.1	83.5		
260	- B B2 BW													11.6				26.7	22.9	8.6		23.9	20.3			17.1	13.4			
				162						114	160			128	159	89.9	99.1	128	142		92.8	105	124	113		68.4	72.5	80.1		
				162						114	159			129	156	89.4	98.3	128	144		93	98.2	121	115		69	73.3	82.3		
				162						114	160			129	159	89.9	99.1	128	144		93	103	121	115		69.1	73.3	82.4		
270	- B B2 BW													9.6				20.7				21.4	17.8			14.5	10.9			
														116	148			84.6	120	140		85.8	95.9	118	115		66.6	70.7	78.6	
														116	147			84.3	119	141		85.4	91.5	115	117		67.1	71.6	80.8	
														116	148			84.8	120	142		85.2	93.7	115	117		67.2	71.6	80.9	
280	- B B2 BW																					19	15.5			12.1	8.6			
																						76.6	86.1	111	116		64.4	69	77.3	
																						74.3	83.3	108	119		65.2	70	79	
																						74.3	83.8	108	118		65.2	69.8	79.2	
290	- B B2 BW																									9.8				
																										62.2	67.2	76	70	
																										63.2	68.3	77.3	70.9	
																										63.3	68.1	77.6	71.1	
300	- B B2 BW																									7.7				
																										59.8	65.6	74.8	70.3	
																										61.1	66.3	75.9	71.4	
																										61.3	66	76.2	71.5	
310	- B B2 BW																													
																											56.8	64	73.6	70.6
																											60.4	64.4	74.8	71.6
																											60.7	64.4	74.9	71.7
320	- B B2 BW																													
330	- B B2 BW																													
340	- B B2 BW																													
350	- B B2 BW																													
360	- B B2 BW																													
370	- B B2 BW																													
380	- B B2 BW																													

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 197



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

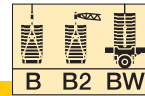
H

ft		HS 197																																	
		W 79				W 98				W 118				W 138				W 157				W 177													
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°										
45	- B B2 BW	385 630 638 640																																	
50	- B B2 BW	356 609 618 619																																	
55	- B B2 BW	324 583 593 594				312 531 538 539							281 471 477 478																						
60	- B B2 BW	296 558 567 569	282 609 624 626			286 512 519 520	272 553 564 565						276 462 467 468				269 409 411 413																		
65	- B B2 BW	273 533 544 545	260 583 600 602			263 491 498 501	250 534 548 548						255 450 455 456	240 478 484 485							238 351 353 354														
70	- B B2 BW	253 509 521 521	241 559 577 578			244 472 480 482	232 516 529 530						237 433 441 441	224 469 477 477							223 392 397 398														
75	- B B2 BW	236 486 498 498	224 537 554 555			227 454 463 464	216 497 510 512						220 420 426 428	209 457 467 467							215 384 388 389	203 406 411 413			208 339 343 343			204 301 302 303							
80	- B B2 BW	220 464 475 475	209 515 532 532			212 436 445 446	201 479 493 494						205 405 412 413	194 442 454 454							200 374 379 380	190 400 405 406			194 334 337 338	183 352 355 355			190 297 298 299						
85	- B B2 BW	206 440 453 452	196 490 507 511			199 418 428 428	188 462 476 477						192 391 398 400	182 429 439 441							188 362 367 369	177 393 399 400			181 328 331 331	171 346 350 351			178 292 294 295	167 305 307 308					
90	- B B2 BW	194 421 431 433	184 466 483 492			187 400 410 411	177 445 460 459						181 378 385 386	171 414 425 426							176 351 357 358	167 382 390 391			171 319 324 325	161 341 345 346			167 287 290 290	158 302 304 305					
95	- B B2 BW		173 444 460 470	137 555 594 573			176 383 393 393	166 428 444 443					170 363 372 373	161 401 412 413							166 340 346 347	157 373 380 382			161 312 317 318	151 335 340 341			158 281 284 284	148 297 300 301					
100	- B B2 BW			129 534 572 546			166 367 375 376	157 413 427 427					161 349 357 358	151 388 400 400							157 330 336 337	148 362 370 372			151 304 309 311	142 328 335 335			149 275 278 278	140 291 295 296					
105	- B B2 BW			122 511 547 520			157 350 358 358	148 396 410 409	116 498 533 512				152 335 343 344	143 376 387 388							148 319 325 326	140 350 360 361			143 296 301 302	134 322 330 330			140 269 272 272	132 286 290 290					
110	- B B2 BW			115 488 523 498			150 337 340 341	141 377 389 389	109 479 514 491				144 323 330 330	136 364 375 376	102 446 480 470						141 308 314 315	132 340 350 351			135 288 293 294	127 315 322 323			133 262 265 266	125 280 284 284					
115	- B B2 BW			109 467 501 477			134 355 360 362	103 460 494 470					137 310 317 317	129 351 363 363	98.1 438 474 459						133 296 303 304	125 330 340 341			128 279 284 286	120 308 315 316			126 256 259 259	118 275 278 278					
120	- B B2 BW			103 448 480 456				97.4 442 474 450					130 297 304 304	122 338 349 351	92.7 425 462 443						127 286 292 293	119 321 331 332			89.8 394 410 411	122 271 276 277	114 300 307 308			120 250 253 253	112 269 272 272				
125	- B B2 BW			94.1 383 362				92.2 424 455 432					124 285 289 290	116 325 336 338	87.6 412 447 427						121 275 282 283	113 312 322 322			84.9 386 409 409	116 262 267 268	108 292 309 309			114 244 247 247	106 262 266 266				
130	- B B2 BW			89.6 367 347				87.5 408 438 415					119 271 271 273	111 307 313 315	83 399 431 411						115 265 271 272	108 303 311 312			80.4 377 406 402	110 253 258 259	103 283 292 292			108 237 241 241	75.7 338 349 349	286 293			
135	- B B2 BW							83.3 391 415 397							78.9 386 396 396						110 255 261 261	103 292 299 300			76.3 368 398 391	105 244 250 251	98.4 276 284 284	71.7 333 345 346			104 231 235 235	96.6 250 254 254			
140	- B B2 BW				52.7			79.3 374 390 379							74.9 373 398 381						105 246 242 242	98.4 281 287 288			72.4 358 389 377	101 236 242 242	93.8 268 276 276	67.9 327 341 342			98.8 225 229 230	92 244 247 248	66.2 282 288 289		
150	- B B2 BW				49.6										67.7 347 359 351											90.2 252 254 255	65.3 338 359 350	91.9 219 224 224	85.4 251 256 256	60.9 310 328 330			90.2 212 217 217	83.8 232 235 235	59.4 275 281 282

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 197



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

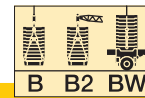
ft		HS 197																										
		W 79				W 98				W 118				W 138				W 157				W 177						
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°			
160	- B B2 BW								39.4				56.9	28.2				59.1	84.3	78.1	54.8				82.5	76.4	53.3	
									310				312	194				317	201	232	290				199	220	266	
									335				311					323	203	232	309				204	223	271	
									316				312					321	203	232	313				204	223	273	
170	- B B2 BW								34.9				51.9	30.9				53.6	28.4	77.8	71.7	49.3				75.7	69.9	47.9
									291				249	285				288	283	177	203	271				186	208	256
									314				252	309				288	306	176	202	286				189	210	257
									295				248	291				288	288	178	202	288				190	211	263
180	- B B2 BW								31				27.1					49	25			44.6				70	64.3	43.2
									273				270					254	267			253				173	191	243
									296				292					254	290			260				173	192	240
									278				274					256	272			261				174	192	248
190	- B B2 BW								23.7				254					21.6			40.3	17.4				59.3	38.9	
									275				273					252			232	248				170	228	
									258				275					256			233	269				170	225	
									258				258					256			234	252				170	232	
200	- B B2 BW								18.6				238					18.6			36.6	14.4				35	13.1	
									258				242					238			203	234				214	232	
									242				242					242			202	254				211	249	
									242				242					242			203	238				215	237	
210	- B B2 BW								11.7				224					11.7			11.7				31.6	10.4		
									221				244					224			221	240				199	219	
									229				229					229			240	224				197	238	
									229				229					229			224	224				199	223	
220	- B B2 BW								9.3				213					9.3			9.3				28.5	8.1		
									209				230					213			209	228				175	208	
									216				216					216			213	213				174	226	
									216				216					216			213	213				176	212	
230	- B B2 BW								199				215					199			199	215				197	215	
									202				202					202			202	215				197	215	
									202				202					202			202	215				197	215	
240	- B B2 BW								187				203					187			187	203				187	203	
									203				203					203			187	203				187	203	
									191				191					191			187	203				187	203	
250	- B B2 BW								177				189					177			177	189				177	189	
									181				181					181			177	189				177	189	
									181				181					181			177	189				177	189	
260	- B B2 BW								160				162					160			160	162				160	162	
									161				161					161			160	162				160	162	
									161				161					161			160	162				160	162	

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 197



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

H

ft		HS 197																															
		W 197				W 217				W 236				W 256				W 276				W 295				W 315							
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°				
75	- B B2 BW	185 262 264 264																															
80	- B B2 BW	182 260 261 261				178 228 228 228																											
85	- B B2 BW	171 256 258 258	264 266 266			167 225 226 226				160 195 195 195				166 167 167																			
90	- B B2 BW	160 253 254 255	147 262 264 264			157 222 224 224				151 193 194 194				142 165 166 166																			
95	- B B2 BW	151 249 251 252	142 260 262 262			148 220 221 221	138 227 228 228			142 191 192 192				137 164 164 164				133 142 143 143															
100	- B B2 BW	142 245 248 248	133 257 260 260			139 217 217 218	130 225 226 226			133 189 190 190	124 194 195 195				129 162 163 163				125 141 141 141					120 122 122 122									
105	- B B2 BW	134 242 244 244	126 255 257 257			131 214 215 215	123 222 224 224			126 187 188 188	117 193 193 194				121 160 161 161	112 164 165 165				118 140 140 140					113 120 120 121			101 101 101 101					
110	- B B2 BW	127 238 241 241	119 251 254 255			124 210 212 212	116 220 221 221			119 185 185 186	110 191 192 192				114 158 159 160	106 163 164 164				111 138 139 139	101 141 141 141				107 119 119 121			99 99.2 99.3 99.4					
115	- B B2 BW	120 235 238 238	112 248 251 252			118 207 209 209	110 217 219 219			112 182 183 183	104 189 190 190				108 157 158 158	100 161 162 162				105 136 137 137				97 140 140 140			95.3 98 98.2 98.3						
120	- B B2 BW	114 231 234 234	106 245 248 249			111 203 206 206	104 214 216 217			106 179 181 181	98.5 187 188 189				102 155 156 156	94.4 160 161 161				99.3 135 136 136	91.5 139 139 139			95.1 117 117 117	87.3 119 119 119			90.3 96.9 97.2 97.2	82.4 98.7 98.6 98.7				
125	- B B2 BW	108 226 228 230	101 242 245 246			106 200 203 203	98.3 211 213 214			101 177 178 179	93.2 185 187 187				96.6 153 154 154	89.1 159 160 160				93.9 133 134 134	86.4 137 138 138			89.8 116 116 116	82.2 118 119 119			85.1 95.8 96.1 96.2	77.5 97.9 97.7 97.8				
130	- B B2 BW	103 222 224 225	95.6 238 242 242			100 197 199 200	93.3 208 211 211			95.5 175 176 177	88.3 183 185 185				91.6 152 152 152	84.3 157 158 158				89 132 133 133	81.7 136 137 137			84.9 114 115 115	77.6 117 117 118			80.3 94.8 95 95.1	72.9 96.8 96.8 96.8				
135	- B B2 BW	98 216 220 220	91 234 239 239			95.7 194 196 197	88.8 205 208 208			90.8 172 174 174	83.8 181 183 183				87 150 150 151	80 156 156 157				84.5 131 131 131	77.4 135 135 135			80.5 114 114 114	73.4 116 117 117			75.9 93.7 93.9 93.9	68.8 95.8 95.8 95.9				
140	- B B2 BW	93.3 211 215 215	86.5 231 235 236	57.3 247 252 252		91.1 191 193 194	84.4 202 205 206			86.3 170 171 172	79.5 179 180 181				82.6 148 149 149	75.8 154 155 155				80.1 129 130 130	73.2 134 134 134			76.2 112 112 112	69.3 115 116 116			71.7 92.7 92.7 92.8	64.8 94.9 94.9 95				
150	- B B2 BW	84.8 200 204 205	78.4 222 227 228	53.8 247 254 254		82.7 184 186 187	76.3 197 200 200			78.1 165 167 167	71.6 174 176 177				74.5 144 145 146	68 151 152 152				72.1 126 127 127	65.6 131 132 132			68.3 109 110 110	61.8 113 114 114			64 90.3 90.5 90.6	57.5 92.9 93.1 93.2				
160	- B B2 BW	77.3 189 192 194	71.2 213 218 219	47.8 247 254 254		75.2 177 179 180	69.2 191 194 195	45.9 208 211 212		70.7 160 162 162	64.6 170 172 172	41.1 177 179 179			67.2 141 142 142	61.1 148 149 149				64.9 123 124 124	58.8 128 129 129			61.3 107 107 108	55.2 111 112 112			57.1 87.9 88.2 88.3	50.8 90.9 91.2 91.3				
170	- B B2 BW	70.6 177 182 183	64.8 203 209 210	42.6 246 253 254		68.6 169 172 173	62.8 185 189 189	40.7 206 210 211		64.1 154 156 157	58.3 166 168 168	36 176 179 180			60.8 138 139 139	55 145 146 146	32.2 148 150 150				58.5 120 121 121	52.7 126 127 127			55 104 105 105	49.2 109 110 110			50.9 85.6 86 86	45 88.8 89 89.3			
180	- B B2 BW	64.8 167 171 172	59.2 192 195 196	38 239 245 246		62.7 160 163 164	57.3 180 183 184	36.2 204 209 209		58.4 148 151 152	52.9 161 164 164	31.6 175 179 179			55.1 134 135 136	49.6 142 143 144	28.1 148 150 150				52.9 117 118 118	47.3 123 124 124			49.5 103 103 103	43.9 108 108 108			45.4 83.2 83.2 83.2	39.8 86.8 87 87.2			
190	- B B2 BW	59.5 156 159 160	54.2 178 179 180	33.8 228 232 233		57.5 151 154 155	52.2 173 176 176	32 202 206 207		53.2 142 144 145	47.9 157 160 160	27.5 175 178 178			50 130 132 133	44.7 139 141 141	24.2 147 150 150				47.8 114 115 115	42.5 120 121 122	21.9 125 126 126			44.4 99.6 101 101	39.1 105 106 106	18.4 104 106 106			40.4 80.3 80.5 80.5	35 84.4 84.7 84.9	
200	- B B2 BW	54.9 144 144 145	49.6 163 162 163	30 214 216 217		52.6 142 145 146	47.6 165 166 167	28.2 198 200 203		48.4 135 137 138	43.3 152 155 155	20.4 173 175 177			45.3 126 128 129	40.2 136 138 139	20.6 147 149 150				43.1 111 112 112	38 117 119 119	18.3 124 126 126			39.8 97.3 98.3 98.4	34.7 103 104 104	14.9 104 106 106			35.8 77.4 77.8 77.8	30.7 81.6 82.3 82.5	10.6 83.4 84.2 84.1
210	- B B2 BW			26.5 198 198 199	210 210 218		133 136 137	156 156 156	192 192 196		128 130 130	146 148 149	171 171 176			120 122 123	134 136 136	146 149 149			108 109 110	115 117 117	124 125 125			95.2 96.3 96.4	100 101 101	104 104 105			74.4 75.2 75.2	79.1 79.8 80	82.8 83.6 83.6

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 197

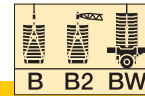


550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 197																												
		W 197				W 217				W 236				W 256				W 276				W 295				W 315				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
220	- B B2 BW			23.5		44.5	39.7	21.7		40.2	35.5	17.4		37.1	32.4	14.3		34.9	30.2	12		31.7	27	8.7		27.9	23.1			
		184	202		123	140	183	172		120	140	167		114	129	145		104	113	123		93.3	98.6	104		72	76.4	81.9		
		184	220		125	140	181	185		122	142	171		116	132	148		106	114	125		94.2	99.7	105		72.9	77.4	82.8		
		184	207		125	140	183	176		123	142	171		117	132	148		106	114	125		94.5	99.8	105		72.9	77.6	82.8		
230	- B B2 BW			20.8		36.4	18.9			36.7	32.1	14.6		33.6	29.1	11.5		31.4	26.8	9.3		28.2	23.6			24.4	19.8			
		167	192		124	171	181			112	130	162		107	125	144		99.8	110	122		90.4	96.8	103		69.8	74.2	80.5		
		167	210		123	170	189			114	131	163		109	128	146		101	112	124		91.5	98	105		70.6	75.2	81.5		
		167	197		123	170	186			115	131	163		110	128	146		102	112	124		92	98.2	105		70.8	75.5	81.5		
240	- B B2 BW					16.3				33.6	29	12.1		30.4	26	9		28.1	23.7			24.9	20.5			21.1	16.7			
		144	182			158	178			102	118	154	154	100	119	142	127	95.1	108	121		86.8	95	103		67.6	72.1	78.8		
		145	199			158	189			104	118	154	158	102	122	143	130	97.1	110	123		88.3	96	104		68.4	73	79.9		
		144	187			158	183			104	118	155	158	103	122	143	130	97.3	110	124		89.2	96.5	104		68.6	73.4	80		
250	- B B2 BW					13.9				9.7				27.5	23.1			25	20.8			21.9	17.6			18.1	13.9			
		172				144	171			145	156			93.6	111	139	130	90.2	106	120	103	83	93.4	102		65.7	70	77.3		
		186				144	185			145	161			95.7	112	139	132	92.4	108	122	104	84.9	93.8	104		66.3	71	78.4		
		177				144	175			145	161			96.4	113	138	133	92.6	108	123	105	86.2	94.9	104		66.6	71.3	78.6		
260	- B B2 BW					11.8				7.6				24.9	20.6			22.3	18.1			19.1	15			15.4	11.3			
		164				128	162			134	154			87.4	101	132	133	84.1	102	118	105	79.2	92.3	101	85.5	64	68.3	76.2		
		173				128	173			134	160			89	101	132	135	86.1	103	121	107	81.4	91.4	103	86.6	64.3	69.3	77.3		
		169				128	167			134	159			89.1	102	131	135	86.5	104	121	107	83.1	93.7	103	86.6	64.9	69.4	77.4		
270	- B B2 BW													18.4				19.7	15.7			16.6	12.6			12.9	8.9			
		156					154			122	149			88.9	124	134		77.9	95.1	115	107	74.4	90.3	101	87.3	62.3	66.7	75		
		160					161			122	155			88.8	124	137		79.9	95.9	118	109	76.6	88.5	103	88.6	62.3	67.6	76.2		
		158					158			122	153			89.3	124	137		80.7	96.3	118	109	78.1	91.7	103	88.7	63.1	67.7	76.2		
280	- B B2 BW																	17.4	13.4			14.2	10.3			10.5				
							146			106	142			115	134			70.9	87.3	110	109	69.3	86.3	99.7	88.9	60.2	65.1	73.8	64.6	
							149			106	147			115	137			72.5	87.2	113	111	71.2	84.5	102	90.3	59.9	66	75.1	65.5	
							148			107	145			115	137			73.6	87.5	113	111	72.3	87.4	102	90.4	61.2	66	75.1	65.7	
290	- B B2 BW																					12.1				57.7	63.5	72.6	65.3	
							137			135				104	131							64.6	80	97.7	90.3	57.7	63.5	72.6	65.3	
							138			136				104	134							65.9	79.2	99.3	91.9	56.9	64.4	73.9	66.3	
							138			136				105	134							66.4	80.6	99.6	92	58.9	64.4	74	66.4	
300	- B B2 BW																					10.1				54.9	62.1	71.4	65.8	
							118			127				93.9	125							59.9	73.6	94.4	91.7	54.9	62.1	71.4	65.8	
							120			127				93.7	124							61	73.7	95.4	93.4	53.6	63.1	72.6	66.9	
							118			127				93.8	125							61.3	74.1	95.6	93.4	56.4	63.2	72.9	67	
310	- B B2 BW																									51.8	60.9	70.2	66.2	
														119								64	90	93		51.8	60.9	70.2	66.2	
													119									91.8	111			64.1	61.8	71.2	67.4	
													119									91.9	112			64.1	61.9	71.8	67.4	
320	- B B2 BW																									47.2	58.6	69	66.5	
														110								79	107			46.1	59	69.6	67.8	
														109								79	106			48.6	59.2	70.7	67.9	
														110								79.1	107			48.6	59.2	70.7	67.9	
330	- B B2 BW																									67.8	66.8			
														102								101				67.6	68.1			
														102								101				67.6	68.1			
														102								101				69.3	68.1			
340	- B B2 BW																										66.5	67		
														88								95.1				66.5	67			
														86.7								95.4				64.3	68.3			
														88								94.9				67.3	68.4			
350	- B B2 BW																										63.9	67.3		
																						90.2				61	68.6			
																						89.9				64	68.5			
																						89.8				64	68.5			
360	- B B2 BW																										55.9	67.6		
																										54.1	69			
																										55.9	68.3			
370	- B B2 BW																											67.7		
																											68.9			
																											67.6			
380	- B B2 BW																											66.8		
							</																							

HSDWB/B2/BW

HS 217



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

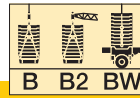
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ft		HS 217																										
		W 79				W 98				W 118				W 138				W 157				W 177						
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°			
45	- B B2 BW	370 561 568 570																										
50	- B B2 BW	343 544 552 553																										
55	- B B2 BW	312 524 532 532				301 474 481 482																						
60	- B B2 BW	286 503 511 511	271 548 559 561			276 459 465 466				268 416 421 422			372 375 375															
65	- B B2 BW	264 480 490 491	250 529 540 542			255 443 449 450	238 481 488 490			247 403 409 410	432 438 439		239 366 368 369				229 320 322 322											
70	- B B2 BW	245 462 469 471	232 507 521 521			237 427 434 435	223 467 476 477			229 391 397 397	209 423 429 431		224 356 360 361				215 315 317 318											
75	- B B2 BW	229 443 450 452	216 487 501 501			221 411 417 418	208 450 461 461			214 379 384 385	201 412 419 420		209 347 352 352	196 370 375 376				200 310 312 313					196 275 277 277					
80	- B B2 BW	214 424 431 434	201 468 480 482			206 395 401 403	194 434 446 446			200 366 372 373	188 400 408 409		195 337 342 342	183 364 369 370				187 303 307 308	175 321 324 324					183 271 273 273				
85	- B B2 BW	200 404 412 414	188 449 463 465			193 380 387 389	181 420 430 431			187 353 360 361	176 389 396 397		183 328 333 333	171 356 361				175 297 301 302	164 317 320 320					172 268 269 269	160 279 281 282			
90	- B B2 BW	189 387 395 396	177 433 447 448			182 365 372 374	171 406 415 417			176 342 347 349	165 375 384 386		172 319 324 324	161 347 353				164 290 294 295	154 310 315 316					161 263 279 265	151 277 279 279			
95	- B B2 BW		167 417 431 432			171 351 358 359	161 391 401 403			166 331 335 337	155 364 373 374		162 308 314 315	152 338 344 345				155 283 287 287	144 305 310 311					152 257 260 261	142 273 276 276			
100	- B B2 BW		151 402 415 416	120 511 549 531			162 337 343 344	152 377 388 389			156 319 324 325	146 353 362 362		153 299 304 305	143 329 336			146 276 280 280	136 199 304 305					143 252 255 256	134 269 272 273			
105	- B B2 BW		113 495 532 510	120 511 549 531			153 323 328 330	143 363 375 376	107 461 491 487			148 307 312 314	138 341 349 351				145 290 294 296	135 318 327 327					138 268 273 272	128 293 298 298				
110	- B B2 BW		106 476 512 488	120 511 549 531			146 311 317 318	136 351 362 363	101 447 482 474			140 295 301 302	131 331 339 340		410			137 281 285 286	128 310 318 318					131 260 265 265	121 286 291 292			
115	- B B2 BW		101 457 491 467	120 511 549 531			129 339 350 351	95.3 434 473 458			133 284 289 290	124 320 329 330	90.7 403 422 422				130 272 276 278	122 301 308 310					124 252 257 258	115 278 284 284				
120	- B B2 BW		95.2 439 471 448	120 511 549 531			123 323 330 331	90 421 460 441			127 273 278 279	118 309 319 320	85.6 394 416 416				124 262 267 268	115 293 299 301					118 245 249 251	109 271 277 278				
125	- B B2 BW		86.7 377 386	120 511 549 531			85.1 408 446 424			121 263 268 270	112 299 309 310	80.8 383 409 410				118 253 257 258	110 285 291 293					78.3 353 365 366	112 238 242 243	103 264 270 271				
130	- B B2 BW		82.2 362 370	120 511 549 531			80.7 395 429 408			116 254 259 261	107 289 298 299	76.5 374 402 399				113 244 248 249	105 276 283 285					74.1 348 362 361	106 231 235 236	98.3 257 263 264	66.7 307 316 316			
135	- B B2 BW						76.7 382 413 393			103 272 278 280	72.6 363 394 386				108 235 240 241	99.9 267 275 276	70.3 341 356 357					102 223 227 228	93.7 250 256 257	64 305 314 315				
140	- B B2 BW				43.4		72.8			98.3	85.8			103	95.4	66.6						88.5	81.2	54				
150	- B B2 BW				40.5						62				87.3	60						201	230	293				

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 217



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

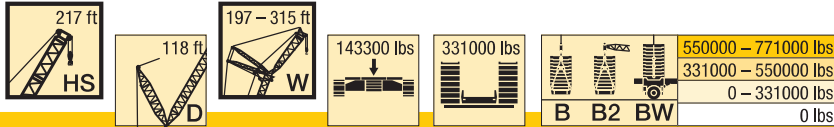
ft		HS 217																							
		W 79				W 98				W 118				W 138				W 157				W 177			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
160	- B B2 BW				35.6				31.1				56				54	81.1	74.1	48.2		79.4	72.6	46.8	
					308				303				312				301	188	216	280		182	207	252	
					333				328				333				310	192	221	295		185	207	259	
					313				309				322				322	192	223	297		186	213	259	
170	- B B2 BW				31.1				27				50.7	23			48.8	74.7	67.9	43		72.8	66.3	41.8	
					287				284				286	278			285	176	201	265		170	196	244	
					311				307				289	303			291	177	203	284		174	193	251	
					292				289				287	284			300	178	203	287		175	203	251	
180	- B B2 BW								23.4				19.8				44.3		62.9	38.6		67.2	60.9	37.4	
									267				263				266		166	248		161	184	235	
									289				285				268		167	267		164	180	241	
									271				268				271		167	269		164	190	242	
190	- B B2 BW												16.6				14.8			34.6			56.1	33.3	
													248				246			232			171	226	
													269				267			246			167	229	
													252				251			245			173	230	
200	- B B2 BW												234				12.1			31				29.7	
													254				232			214	227			215	
													238				252			220	247			216	
																	236			218	231			217	
210	- B B2 BW																							26.4	
																	219							203	212
																	238							205	232
																	223							206	217
220	- B B2 BW																							23.5	
																	208							183	201
																	226							185	220
																	212							185	206
230	- B B2 BW																							190	190
																								210	209
																								196	195
240	- B B2 BW																							182	180
																								200	199
																								187	185
250	- B B2 BW																								171
																									189
																									176
260	- B B2 BW																								163
																									181
																									167

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 217



H

ft		HS 217																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
80	-	176				172																							
	B	238				210																							
	B2	239				210																							
	BW	240				210																							
85	-	164				161				154																			
	B	235				207				181																			
	B2	237				208				181																			
	BW	237				209				181																			
90	-	155				151				145																			
	B	232				205				179																			
	B2	233				206				179																			
	BW	234				206				180																			
95	-	145	135			142				136			134				128												
	B	229	239			202				177			154				133												
	B2	230	241			204				178			154				133												
	BW	231	241			204				178			154				133												
100	-	137	127			134	124			128	111		126				112												
	B	226	237			200	208			175	181		152				131												
	B2	227	238			201	209			176	181		153				132												
	BW	228	239			201	209			176	181		153				132												
105	-	129	120			126	117			121	111		119	109			113				109						94.2		
	B	222	234			197	207			173	179		151	155			130				112						94.2		
	B2	224	236			198	207			174	180		151	155			130				112						94.2		
	BW	224	236			199	207			174	180		151	155			131				112						94.2		
110	-	122	113			120	110			114	105		112	103			107	95.7			102						92.8		
	B	218	232			194	204			171	177		149	154			129	131			111						93		
	B2	220	234			196	205			172	178		150	154			129	131			111						93.1		
	BW	221	234			196	205			172	178		150	154			129	132			111						93.3		
115	-	116	107			113	104			108	99		106	97.3			101	91.9			96.6						90.2		
	B	214	228			191	201			169	176		147	152			128	131			110						92		
	B2	217	231			193	203			170	176		148	153			128	131			110						92.2		
	BW	218	231			193	203			170	177		148	153			128	131			110						92.3		
120	-	110	101			107	98.8			102	93.6		101	91.9			95.4	86.7			91.1	82.4					86.3		
	B	211	225			189	199			167	174		146	151			126	130			109	111					91		
	B2	214	228			190	200			167	175		147	151			127	130			109	112					91.2		
	BW	214	228			191	201			168	175		147	151			127	130			109	112					91.3		
125	-	104	95.8			102	93.6			96.7	88.4		95.2	86.8			90.2	81.7			86	77.6					81.3	72.8	
	B	206	222			186	196			164	172		144	150			125	129			108	111					89.9	92.1	
	B2	209	225			187	198			165	173		145	150			125	129			108	111					90.2	91.9	
	BW	209	225			188	198			165	173		145	150			126	129			108	111					90.3	92	
130	-	98.9	90.9			96.7	88.7			91.8	83.7		90.3	82.2			85.4	77.2			81.3	73.2					76.7	68.5	
	B	202	219			183	193			162	170		143	148			123	128			107	110					89	91.1	
	B2	205	222			184	195			163	172		143	149			124	128			107	110					89.2	91.1	
	BW	205	222			185	196			163	171		144	149			124	128			107	110					89.3	91.3	
135	-	94.3	86.5			92.1	84.4			87.2	79.4		85.8	78			81	73.1			77	69.1					72.5	64.5	
	B	197	215			180	190			159	168		141	147			122	126			105	109					88	90.2	
	B2	200	218			182	193			161	170		142	148			123	127			106	109					88.2	90.3	
	BW	200	218			182	193			161	170		142	148			123	127			106	109					88.2	90.4	
140	-	89.8	82.2	50.1		87.7	80.1			82.9	75.3		81.5	73.9			76.8	69.1			72.9	65.2					68.4	60.7	
	B	191	210	226		177	188			157	167		140	146			120	125			104	108					87	89.3	
	B2	195	214	231		179	190			159	168		140	146			121	126			105	108					87.2	89.5	
	BW	195	214	231		179	191			159	168		140	146			121	126			105	108					87.2	89.6	
150	-	81.5	74.3	46.9		79.5	72.4			74.9	67.7		73.6	66.5			69	61.8			65.3	58					60.9	53.6	
	B	182	201	227		170	183			153	162		136	143			117	123			102	106					84.4	87.5	
	B2	185	206	232		172	186			154	164		137	144			118	123			103	106					84.8	87.8	
	BW	186	206	233		172	186			154	164		137	144			118	124			103	106					84.8	87.8	
160	-	74.2	67.4	41.3		72.2	65.5	39.5		67.7	60.9		66.6	59.8			62	55.2			58.4	51.5					54.2	47.3	
	B	172	193	227		162	178	193		148	158		133	140			114	120			99.5	104					81.6	85.6	
	B2	175	197	233		164	180	196		150	160		134	141			115	121			100	104					82.3	85.9	
	BW	176	198	233		165	181	196		150	160		134	141			115	121			100	104					82.2	85.8	
170	-	67.7	61.2	36.4		65.8	59.3	34.7		61.3	54.9	29.6		60.3	53.8	28.5		55.8	49.3			52.3	45.8				48.2	41.6	
	B	162	185	224		154	171	192		142	154	164		130	137	140		111	117			97.3	102				79	83.3	
	B2	165	187	231		157	175	196		144	156	167		131	138	142		112	118			97.7	102				79.6	83.5	
	BW	166	190	231		158	175	196		144	156	167		132	139	142		113	119			98	103				79.6	83.6	
180	-	62	55.8	32.1		60.1	54	30.4		55.7	49.6	25.8		54.7	48.6	24.7		50.4	44.2			46.9	40.7				42.8	36.6	
	B	152	176	220		146	165	190		136	149	164		125	134	140		108	115			94.9	99.9				76.6	80.9	
	B2	155	175	227		149	169	195		138	152	167		127	136	142		109	116			95.6	101				77	81.1	
	BW	156	181	228		150	169	195		139	152	167		127	136	142		110	116			96	101				77.1	81.3	
190																													

HSDWB/B2/BW

HS 217



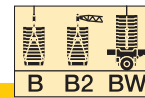
550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 217																													
		W 197				W 217				W 236				W 256				W 276				W 295				W 315					
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°		
230	- B B2 BW		16 174 175	183 203 190		33.8 124 123 125	14.2 173 175 173	167 167 173	102 104 105	122 121 126	156 157 160		33.5 99.4 101 101	28.5 116 118 120	9 137 140 140		29.4 92.1 93.3 93.9	24.3 103 104 104	114 116 117		26.2 84 85 85.1	21.1 90.4 91.6 91.7	96.8 98 98.4	22.4 65.3 65.9 66.2	17.3 69.6 70.5 70.5	75 76 76					
240	- B B2 BW		157 156 157	175 194 180			11.8 163 164 164	166 166 174	95.7 114 96.8	115 151 117	153 145 145	141	30.3 93.5 94.7 95.3	25.4 111 112 115	136 136 139 140		26.2 87.4 88.9 89.5	21.3 99.8 101 102	113 116 116		23 80.5 81.4 81.8	18.1 88.7 89.9 90.2	96.5 96.5 97.6 98.1	19.2 63.3 63.9 64.1	14.3 67.5 68.6 68.5	74 75.2 75.3					
250	- B B2 BW			166 185 171			9.5 151 151 151	162 179 169		106 106 107	148 144 148	144	27.3 87.4 88.6 89.4	22.6 105 106 109	135 138 139	121 124		82.5 84.3 84.9	97.3 98.4 100	112 115 115		20.1 76.3 77.5 77.8	15.3 86.8 88.3 88.8	96 97.6 97.7	16.3 61.5 62.1 62.2	11.5 65.6 66.6 66.6	73.2 74.4 74.4				
260	- B B2 BW				158 176 163			7.5 135 136 135	155 173 161		21.6 85 137 85.3	139 143 150 151	143	24.7 81.3 82.5 83.4	20 98.9 99.8 102	133 133 136	124 124 127		77 78.5 79	93.8 94.9 97.1	111 114 115	96 87.5	72.1 73.6 73.9	85.3 86.7 87.6	95.4 97.2 97.3	59.8 60.6 60.6	63.8 64.9 64.9	72.1 73.3 73.4			
270	- B B2 BW			150 167 155				148 166 153			128 127 128	141 153		17.7 91.8 92.1 93.6	13.5 129 129 130	126 129 129		71.5 72.7 73.1	88.3 90.4 91.9	110 113 113	98.4 101 100	67.6 69.1 69.6	83.6 85 86.2	94.8 96.8 96.9	58.2 59.1 59.1	62.3 63.4 63.4	70.8 72.2 72.3				
280	- B B2 BW			143 154 147				141 157 145			115 115 115	136 151 141			122 121 122	127 131 131		65.8 66.8 67.2	82.3 85.1 85.6	109 111 110	100 103 103	63 64.3 65	80.1 81.8 82.9	94.2 96.4 96.4	81.8 83.7 83.8	56.3 57.2 57.1	60.9 62 62	69.7 71.2 71.2	60.8		
290	- B B2 BW							135 147 138			130 143 134				113 112 112	125 133 131			75.5 77.9 77.8	107 107 105	102 105 105		58.5 59.6 60.4	74.5 76.7 77.2	93.4 95.7 95.6	83.7 85.4 85.4	53.5 54.6 54.5	59.6 60.6 60.6	68.7 70.1 70.1	60.8 61.7 61.8	
300	- B B2 BW							128 137 132			124 134 128				102 101 101	121 131 127			61.5 62.3 61.7	103 103 99.5	104 106 106		8.5 54.3 55.3	68.8 71.6 71.5	92.6 92.3 93.3	85.2 87 87	50.3 51.5 51.4	58.3 59.4 59.4	67.7 69.1 69	61.4 62.4 62.6	
310	- B B2 BW										118 125 123					117 125 121				95.7 95.7 93.7	104 107 107		63.2 65.6 65.5	91.8 92.3 91.1	86.4 88.4 88.5	46.9 48.3 48.2	57.2 58.2 58.2	66.4 67.8 68	61.9 63 63.2		
320	- B B2 BW										112 114 114				111 118 116					86.2 85.9 85.3	104 107 107			87.7 87.8 86.9	87.7 89.8 89.9	43.1 44.5 44.4	55.2 56.4 56.5	65.3 66.7 67.1	62.4 63.5 63.7		
330	- B B2 BW														106 110 110						102 105 105			80.8 80.4 80.6	89 91.3 91.2		50.9 52.3 52.5	64.5 65.8 66.3	62.7 64 64.1		
340	- B B2 BW														101 104 105						97.2 99.1 99.6			73.4 72.6 73.3	90.5 92.8 92.5		41.1 41 41.5	64 65.3 65.9	63 64.3 64.5		
350	- B B2 BW																				93.2 94.3 94.9				88.1 89.6 89.3			63.8 65 65.6	63.2 64.6 64.8		
360	- B B2 BW																					86.3 86.3 86.7			84.6 85.6 85.1			60 60.4 60.9	63.5 65 65.1		
370	- B B2 BW																								80.4 80.9 80.4				63.9 65.4 65.5		
380	- B B2 BW																								75.1 75.5 75.1				64.3 65.7 65.8		
390	- B B2 BW																													64.5 64.4 65.6	
400	- B B2 BW																													61.1 60.6 61.3	

H

HSDWB/B2/BW

HS 236



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

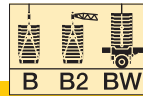
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ft		HS 236																									
		W 79				W 98				W 118				W 138				W 157				W 177					
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°		
45	- B B2 BW	502 505 508																									
50	- B B2 BW	314 487 492 493																									
55	- B B2 BW	302 469 474 476				291 427 429 430																					
60	- B B2 BW	277 451 457 459	260 494 501 502			267 413 416 417				259 374 376 377																	
65	- B B2 BW	256 434 440 441	240 476 484 485			247 398 402 404	229 431 437 437			240 364 366 367				230 326 329 329						222 291 293 293							
70	- B B2 BW	238 417 423 424	223 459 467 469			230 383 389 390	215 418 425 427			223 352 355 357				216 320 322 322						209 286 288 288							
75	- B B2 BW	222 401 408 408	208 442 451 452			214 370 376 376	200 405 412 414			208 340 345 346	194 368 374 374			201 311 314 315						195 281 282 283				189 250 252 252			
80	- B B2 BW	207 383 392 392	194 426 435 436			200 357 363 363	187 392 400 401			194 330 334 335	181 359 365 365			188 303 306 307	175 324 328 329					182 275 276 277	169 290 292 293			177 246 248 248			
85	- B B2 BW	195 367 375 376	182 409 420 420			188 345 350 351	175 380 387 388			182 320 324 325	170 350 355 356			176 295 298 299	164 317 321 322					171 269 270 271	158 285 288 288			165 242 244 244	152 254 256 256		
90	- B B2 BW	183 352 356 360	171 395 405 405			177 331 338 339	165 368 374 376			171 310 314 314	160 339 345 346			166 285 289 291	154 310 314 314					160 262 264 265	149 280 283 283			156 237 239 239	144 250 253 253		
95	- B B2 BW	174 339 338 347	161 381 390 392			167 319 325 326	155 355 362 363			162 300 304 304	150 329 336 336			156 277 281 282	145 303 306 307					151 255 258 259	140 270 278 278			147 232 234 234	135 246 249 249		
100	- B B2 BW		153 367 374 379			158 306 312 314	147 342 351 351			153 290 294 295	142 320 326 327			148 269 273 274	137 295 299 300					143 248 252 252	132 268 272 272			138 228 229 230	127 242 245 245		
105	- B B2 BW			105 457 481 482		149 294 297 301	139 331 339 340			144 279 285 285	134 310 316 317			140 262 265 266	129 287 292 292					135 242 246 246	124 253 266 266			131 223 224 225	120 238 241 241		
110	- B B2 BW			98.8 442 470 470		142 284 283 290	131 321 328 330	91.8 405 419 420		137 269 274 275	127 299 307 308			132 254 258 258	122 280 285 285					128 236 239 240	118 257 260 261			124 217 220 220	114 234 237 237		
115	- B B2 BW			93.3 428 457 455		135 274 269 280	125 310 316 319	88.2 399 414 415		130 259 263 265	120 291 298 298			126 246 251 251	116 272 278 278					121 230 233 233	112 250 254 255			117 212 215 215	108 229 232 232		
120	- B B2 BW			88.2 414 445 439		119 300 302 310	83.3 390 406 406			124 249 252 255	114 282 289 290	79.1 353 365 366		120 237 243 243	110 264 270 271					115 223 226 227	105 245 248 249			111 207 210 210	102 224 227 228		
125	- B B2 BW			83.5 401 432 422			78.7 379 396 398			118 241 246	109 274 282	74.6 347 359 360		114 229 234 235	105 256 263 263	70.4 311 320 321				109 217 220 220	100 239 243 243			106 202 205 205	96.8 220 222 223		
130	- B B2 BW			79.1 389 415 406			74.5 368 384 388			113 233 231 238	104 266 271 273	70.6 341 353 354		109 221 225 227	99.8 249 256 256	66.5 308 317 318				104 211 214 214	95.5 233 237 237			101 197 200 200	91.9 215 218 219		
135	- B B2 BW						70.8 357 371 378				99.3 257 261 265	66.9 333 346 347		104 214 217 219	95.3 242 249 249	63 304 313 313				99.5 204 208 208	91 227 232 232			96.1 192 195 195	87.6 210 214 214		
140	- B B2 BW						67.1 347 358 368				95 249 250 257	63.4 325 339 340		99.4 207 208 211	90.9 236 242 243	59.5 299 308 309				95 197 201 202	86.7 221 226 226	52.4 266 273 274			91.6 187 190 190	83.4 206 209 210	49 236 242 242
150	- B B2 BW						60.5 328					56.9 306 324 326		91.4 192 191 196	83.1 222 226 229	53.3 288 298 299				86.8 184 187 189	78.9 210 215 216	49.2 262 269 270			83.5 176 179 180	75.7 196 201 201	45.9 234 240 240

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 236



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

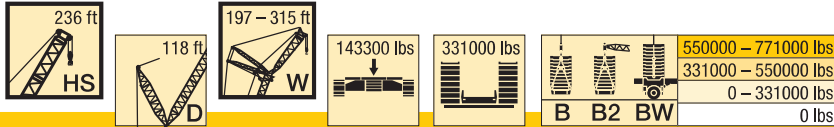
ft		HS 236																																	
		W 79				W 98				W 118				W 138				W 157				W 177													
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°										
160	- B B2 BW				28 301 326 306								51.2 286 307 312								47.7 277 287 287					79.5 173 173 177	72 199 204 205	43.8 254 262 262					76.3 165 168 169	68.8 187 192 192	40.6 229 236 236
170	- B B2 BW				24 282 305 287				19.7				46.1 276 300 282								42.8 264 275 276					73.1 163 160 167	65.8 188 192 194	38.9 246 253 253					69.9 155 157 158	62.8 178 183 183	35.9 223 230 230
180	- B B2 BW								16.7												38.5 248 265 265						60.7 176 177 178	34.7 237 244 245					64.4 146 146 149	57.5 169 174 174	31.8 217 223 224
190	- B B2 BW												10.4								34.7 233 245 245							30.9 226 237 234					59.7 134 133 136	52.8 160 164 165	28 211 216 217
200	- B B2 BW												228 249 233								225 245 230						27.4 214 226 220	217 241 225					24.6 204 209 210		
210	- B B2 BW																				213 232 217							209 229 213					21.5 196 202 202		197 210 210
220	- B B2 BW																				202 220 206							197 217 203					18.8 185 190 190		190 212 199
230	- B B2 BW																				191 210 195							187 206 192					170 171 171		182 203 189
240	- B B2 BW																											177 196 182							174 193 179
250	- B B2 BW																																		165 184 170
260	- B B2 BW																																		157 175 161
270	- B B2 BW																																		149 167 154

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 236



H

ft		HS 236																												
		W 197				W 217				W 236				W 256				W 276				W 295				W 315				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
80	- B B2 BW	171 219 220 220				192 193 193																								
85	- B B2 BW	161 216 217 217				154 190 191 191				148 166 166 166																				
90	- B B2 BW	151 213 214 214				146 188 189 189				139 164 165 165																				
95	- B B2 BW	142 209 211 211	131 219			137 185 187 187				131 163 163 163			129 143 143 143																	
100	- B B2 BW	134 206 207 207	123 216 218 219			129 183 185 185	118 191			123 161 162 162			121 141 141 142			116 122 122 122			105 105 105 105											
105	- B B2 BW	127 202 203 204	116 213 216 216			122 181 182 182	111 189 190 191			116 159 160 160	106 165		114 140 140 140	143 144		109 121 121 121			104 104 104 104					88 88 88 88						
110	- B B2 BW	120 198 199 200	110 210 213 213			115 178 179 179	105 187 188 189			110 157 158 158	99.6 164 164 164		108 139 139 139	96 143 143 143		103 119 119 120	90.6 122 122 123		98 103 103 103					86.7 86.8 86.9 87.1						
115	- B B2 BW	114 194 196 196	104 207 209 209			109 175 176 176	99.3 184 186 187			104 155 156 156	93.9 162 163 163		102 137 137 138	92.3 142 142 142		96.8 118 118 118	87 122 122 122		92.5 102 102 102					85.2 85.8 85.9 86.2						
120	- B B2 BW	108 190 192 192	98.4 204 206 206			103 172 173 173	93.9 182 184 184			98.1 153 154 154	88.7 161 161 162		96.6 135 136 136	87.1 141 141 141		91.4 117 117 117	81.9 121 121 121		87.2 101 101 101	77.7 103 103 104			82.4 84.8 85 85.2							
125	- B B2 BW	102 186 188 189	93.2 200 202 203			97.9 169 170 170	88.9 180 182 182			92.8 151 151 152	83.7 159 160 160		91.4 134 134 135	82.3 139 140 140		86.4 115 116 116	77.2 120 120 120		82.3 99.9 100 100	73.1 103 103 103			77.6 83.8 84.1 84.2	68.3 86.2 85.9 86						
130	- B B2 BW	97.3 182 185 185	88.5 196 199 199			93 166 167 167	84.3 177 179 179			88 149 149 149	79.2 157 158 158		86.7 132 133 133	77.8 138 138 139		81.8 114 114 114	72.8 118 119 119		77.7 98.8 99 99.2	68.8 102 102 102			73.1 82.9 82.9 82.9	64.1 85.3 85.3 85.3						
135	- B B2 BW	92.7 178 181 181	84.2 193 195 196			88.6 163 164 164	80 174 176 176			83.7 146 147 147	75.1 155 156 156		82.4 131 132 132	73.8 137 137 137		77.5 112 113 113	68.9 117 118 118		73.6 97.4 98 98.1	64.9 101 101 101			69 81.3 81.5 81.6	60.3 84.5 84.5 84.6						
140	- B B2 BW	88.3 174 177 177	80 189 192 192			84.2 159 161 161	76 171 173 173			79.4 144 145 145	71.1 153 154 154		78.2 130 130 130	69.9 135 136 136		73.4 111 112 112	65 116 116 117		69.6 96.4 97 97.1	61.1 100 100 100			65.1 80.7 80.2 80.3	56.6 83.6 83.8 83.8						
150	- B B2 BW	80.3 166 169 169	72.5 182 185 185			76.3 153 155 155	68.5 166 167 168			71.7 139 140 140	63.8 148 150 150		70.6 126 127 127	62.7 133 134 134		65.9 108 109 109	58 114 114 114		62.2 94.3 94.9 95.1	54.2 98.5 98.6 98.7			57.8 77.5 77.7 77.9	49.8 81.6 81.7 81.7						
160	- B B2 BW	73.1 158 160 160	65.7 174 178 178	37.3 204 209 209		69.3 147 149 149	61.9 160 162 162	33.4 177 181 181		64.7 133 135 135	57.3 144 145 146		63.7 122 123 124	56.2 130 131 131		59.2 105 106 106	51.6 112 112 112		55.5 92.3 92.9 93	48 96.6 96.8 97.1			51.3 75.2 75.5 75.7	43.7 79.1 79.2 79.3						
170	- B B2 BW	66.7 149 151 152	59.6 167 171 171	32.6 201 206 206		63 140 142 142	55.9 154 156 157	28.9 177 181 181		58.5 128 130 130	51.4 140 141 141	23.8 151 154 154	57.6 119 120 120	50.5 127 128 128		53.1 103 104	46 109 110		49.6 90.3 90.6 90.9	42.4 94.9 95.2 95.4			45.5 72.9 73.3 73.6	38.2 76.7 76.9 77.1						
180	- B B2 BW	61.1 139 142 143	54.4 159 164 164	28.6 198 202 202		57.5 133 135 135	50.7 148 151 151	24.9 174 179 179		53.1 123 125 125	46.3 135 136 137	20.3 151 154 154	52.2 114 116 116	45.4 123 125 125		47.8 101 101	41 107 108		44.4 88.4 88.6 88.8	37.5 92.9 93.5 93.6			40.3 70.7 71.2 71.4	33.4 74.8 75.1 75.1						
190	- B B2 BW	56.1 131 133 135	49.6 152 157 157	24.9 192 197 198		52.4 125 128 128	46 142 145 145	21.3 172 176 176		48.1 117 119 119	41.7 130 132 133	16.7 150 153 154	47.3 110 112 112	40.8 119 121 122	15.8 130 133 133		43 97.1 98.1 98.4	36.4 104 105 105	11.2 108 109 109			35.6 68.6 69 69.3	29 72.8 73.2 73.2							
200	- B B2 BW	51.5 124 125 127	45.2 145 149 149	21.5 187 192 192		47.9 118 120 121	41.7 136 140 140	18 168 173 173		43.6 111 113 113	37.4 126 128 128	13.5 148 152 152	42.8 106 107 107	36.5 116 118 118	12.6 130 133 133		38.5 94.5 95.6 95.8	32.3 102 103 103		35.2 83.8 84.5 84.7	28.9 89.3 90 90.1	91.1 92.2	31.2 66.4 66.9 67	24.9 70.7 71.2 71.3	71.4 72.1 72.2					
210	- B B2 BW	41.3 137 141 141	18.4 182 186 187			43.7 111 113 114	37.7 130 134 134	14.9 165 169 169		39.5 104 107 107	33.5 121 123 124	10.5 147 150 150	38.6 101 103 103	32.7 113 114 114		34.4 91.9 93.1 93.4	28.4 98.8 100 100		34.2 81.4 82.3 82.4	25.1 87.6 88.3 88.4	91.1 92.2	27.2 64.3 64.7 64.8	21.2 68.6 69.2 69.3	71 72 72.1						
220	- B B2 BW	38 124 126 127	15.7 177 182 182	174 179 188		40.1 104 105 107	34.3 124 128 127	12.3 165 165 165		35.8 98.4 101 101	30.1 116 119 119	7.9 144 147 148	34.9 95.7 97.6 97.7	29.2 109 111 111		30.8 88.2 89.6 89.9	25 96.6 97.9 98.2	107 109 109		27.5 79.1 80.1 80.2	21.8 85.6 86.5 86.8	90.8 92.2 92.3	23.7 62.3 62.8 63	17.9 66.7 67.3 67.4	70.6 71.5 71.5					

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 236



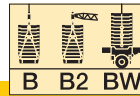
550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 236																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
230	B		13.1			37	31.1	9.8		32.5	26.9			31.5	26			27.4	21.8			24.2	18.6			20.4	14.8		
	B2		171	171		95.4	117	157		92.7	110	141		90.4	105	127			83.7	94.2	106		76.4	83.8	90.5		60.5	64.8	
	BW		177	190		96.3	120	161		95.2	114	144		92.4	107	130			85.4	95.6	108		77.4	84.8	92.1		61	65.5	
			176	184		97.4	121	161		95.3	114	145		92.6	107	130			85.6	95.9	108		77.5	85.2	92.2		61.2	65.6	
240	B		10.8							29.5	24			28.4	23			24.3	18.9			21.1	15.7			17.3	11.9		
	B2		162	167				154	152	87.2	104	137		84.9	100	125			78.8	91.4	105		73.1	81.8	90.1		58.6	63.1	
	BW		167	188				158	161	89.5	108	141		86.9	103	128			80.7	93.2	108		74.2	83.2	91.8		59.2	63.8	
			166	176				158	160	89.6	108	141		87.1	103	128			80.8	93.5	108		74.2	83.4	91.9		59.4	64	
250	B									21.4				25.5	20.3			21.3	16.1			18.2	13			14.4			
	B2			161				150	150	97.9	134	130		79.1	95.8	122			74	88.5	105		69.2	79.4	89.8		56.8	61.4	
	BW			180				155	164	101	137	135		80.9	99.1	126			76.1	90.6	107		70.5	81.3	91.4		57.5	62	
				167				155	161	101	139	135		81.3	99	126			76.1	91	107		70.4	81.3	91.6		57.8	62.3	
260	B									19.1				22.9	17.8			18.7	13.7			15.6	10.6			11.8			
	B2			153				140	146	87.1	132	131		73.6	90.5	120	113		69.4	85.2	104	87.8	65.4	76.9	89.3		55.4	59.6	
	BW			172				142	164	88.7	132	138		75.3	93.6	123	110		71.2	87.7	106	82.1	66.8	79.1	90.9		56.1	60.4	
				159				142	154	88.9	136	138		75.6	93.6	123	116		71.1	88.1	106	83.5	66.5	79	91.2		56.3	60.6	
270	B									20.6	15.5			27.9	15.5			16.3	11.4			13.2	8.3			9.4			
	B2			146				123	141	67.9	84.7	118	115	64.8	80.4	118	115		64.8	80.4	103	90.1	61.4	74.3	88.6		54	58.2	
	BW			164				125	159	68.7	88.2	120	119	66.2	82.8	105	92		66.2	82.8	105	92	62.7	76.9	90.5		54.6	59	
				151				125	147	69.2	88.1	121	119	66.1	83.2	105	92.2		66.1	83.2	105	92.2	62.5	76.8	90.7		54.8	59.2	
280	B																	14.1	9.2			10.9							
	B2			139														60.4	75.1	102	91.9	57.4	71	88.1	73.1		52.1	56.8	
	BW			156														61.6	77.4	104	94.1	58.5	73.7	90	74.8		52.7	57.6	
				144														61.5	77.7	104	94.3	58.4	73.6	90.2	74.8		52.9	57.9	
290	B																					8.8							
	B2																					53.3	66.6	87.6	74.9		49.4	55.4	
	BW																					54.2	69.2	89.5	76.9		50.1	56.3	
300	B																					6.9							
	B2																					49.4	62.2	86.6	76.6		45.9	53.7	
	BW																					50.3	64.5	88.7	78.9		46.8	54.9	
310	B																					61.5	98.4	95.2	49.4		47	54.9	
	B2																					63	101	97.8	50.3		47	54.9	
	BW																					62.9	101	97.9	50.6		47	54.9	
320	B																												
	B2																												
	BW																												
330	B																												
	B2																												
	BW																												
340	B																												
	B2																												
	BW																												
350	B																												
	B2																												
	BW																												
360	B																												
	B2																												
	BW																												
370	B																												
	B2																												
	BW																												
380	B																												
	B2																												
	BW																												
390	B																												
	B2																												
	BW																												
400	B																												
	B2																												
	BW																												

H

HSDWB/B2/BW

HS 256



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

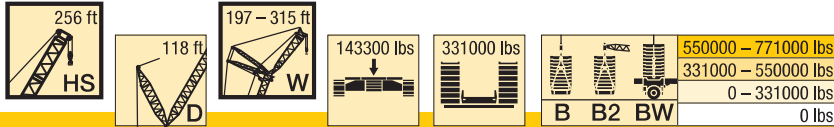
ft		HS 256																																			
		W 79				W 98				W 118				W 138				W 157				W 177															
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°												
180	- B B2 BW				258 281 263				9.9 255 277 259				35.7 237 232 239				34.4 215 216 217				57.1 160 164 164				28.9 196 198 199				63.3 134 136 136				55.9 152 153 153				28 180 182 183
190	- B B2 BW								240 261 244				235 255 240				30.7 209 209 211				25.3 190 191 191				58.5 127 128 128				51.3 145 147 148				24.5 175 176 177				
200	- B B2 BW												222 242 226				215 230 224				22 184 187 184												21.3 169 171 171				
210	- B B2 BW												209 229 213				207 226 212				180 182 178				192 200 200								18.3 164 166 166				
220	- B B2 BW												197 217 203				196 215 201				168 169 166				186 197 194								15.7 162 164 164				169 175 175
230	- B B2 BW																185 205 191								179 193 185								13.3 157 158 157				167 174 174
240	- B B2 BW																								170 187 175												164 172 171
250	- B B2 BW																								162 180 166												159 168 165
260	- B B2 BW																								154 171 158												152 165 157
270	- B B2 BW																																				145 160 149

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 256

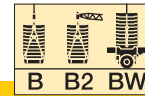


H

ft		HS 256																												
		W 197				W 217				W 236				W 256				W 276				W 295				W 315				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
80	- B B2 BW	165 188 189 189																												
85	- B B2 BW	154 185 186 186				148 164 165 165						144 146 146 146																		
90	- B B2 BW	145 182 183 183				140 162 162 162						136 144 144 144																		
95	- B B2 BW	137 179 179 180	124 187 188 188			132 159 160 160						128 142 142 143				123 126 126 126														
100	- B B2 BW	129 176 176 176	117 184 186 186			124 157 157 158	112 163 164 164					121 140 140 141				116 124 125 125				107 108 108 108				93.9 93.9 93.9 93.9						
105	- B B2 BW	122 173 173 173	110 181 182 183			117 154 155 155	106 161 162 162					114 138 138 139	102 143 144 144				110 123 123 123				104 106 107 107				93.2 93.2 93.2 93.2		78.2 78.2 78.2 78.1			
110	- B B2 BW	115 170 170 170	104 179 180 180			111 152 152 152	99.6 159 160 160					108 136 136 137	96.7 141 142 142				104 121 122 122	90.7 105 125 125				98.2 105 105 105				92.1 92.1 92.1 92.2		77.3 77.3 77.3 77.3		
115	- B B2 BW	109 165 166 166	98.6 176 177 177			105 149 150 150	94.1 157 157 158					102 134 134 135	91.3 140 141 141				97.8 119 120 120	87.2 124 124 124				92.6 104 104 104				88.3 90.9 91 91.1		76 76.2 76.4 76.4		
120	- B B2 BW	104 162 163 163	93.3 173 174 174			99.1 146 147 147	88.9 154 155 155					96.5 132 132 133	86.2 138 139 139				92.5 117 118 118	82.2 122 123 123				87.4 102 103 103	77 106 106 106			83.2 89.9 90 90.1	68.7 92.1 92.3 92.3	74.9 75.2 75.4 75.6		
125	- B B2 BW	98.3 158 159 160	88.4 170 171 171			94 144 144 144	84.1 152 152 153					91.4 130 130 130	81.5 136 137 137				87.6 116 116 116	77.6 121 121 121				82.5 101 101 101	72.5 105 105 105			88.9 89 89 89	68.4 91.3 91.6 91.6	73.8 74.3 74.5 74.7	63.6 76.6 76.3 76.4	
130	- B B2 BW	93.4 155 156 156	83.8 167 167 168			89.2 140 141 141	79.6 150 150 151					86.7 128 128 128	77.1 134 135 135				83 114 114 114	73.3 120 120 120				78.1 99.9 99.9 99.9	68.3 104 104 104			74.1 88 88 88	64.3 90.5 90.8 90.8	69.4 73.3 73.5 73.6	59.6 75.9 75.7 75.7	
135	- B B2 BW	89 152 153 153	79.7 164 164 165			84.9 138 139 138	75.6 147 147 148					82.5 126 126 126	73.1 133 133 133				78.8 112 113 112	69.4 118 118 118				74 98.5 98.5 98.6	64.5 103 103 103			70 86.9 86.9 86.9	60.6 89.7 89.9 90	65.5 72.4 72.6 72.6	55.9 75.1 74.9 75	
140	- B B2 BW	84.7 149 149 150	75.7 161 161 161			80.7 135 136 136	71.7 145 145 145					78.4 123 124 124	69.3 131 131 131				74.8 111 111 111	65.7 116 117 117				70 96.9 97.1 97.2	60.8 101 102 102			66.2 85.5 85.7 85.8	57 88.8 89.1 89.1	61.7 71.4 71.6 71.6	52.4 74.1 74.1 74.2	
150	- B B2 BW	77 143 143 144	68.4 154 155 155			73 130 130 130	64.5 140 140 140					70.8 119 119 119	62.2 127 127 127				67.4 107 107 107	58.8 113 113 114				62.7 94.2 94.4 94.5	54 98.8 99.2 99.2			59 83 83.2 83.2	50.3 87.1 87.3 87.3	54.6 69.5 69.6 69.7	45.9 72.3 72.6 72.7	
160	- B B2 BW	70 138 137 138	61.9 148 149 149	30.9 168 171 171		66.2 125 125 125	58.1 135 135 135					64 114 114 114	55.9 123 123 123				60.7 103 103 103	52.6 110 110 110				56.2 91.4 91.6 91.7	48 96.2 96.5 96.7			52.2 80.3 80.4 80.4	44.3 85 85.2 85.2	48.3 67.6 67.8 67.8	40 70.6 71 71.1	
170	- B B2 BW	63.8 131 132 132	56.1 142 143 143	26.6 166 168 168		60.1 121 120 121	52.4 130 130 130	22.6 146 148 148				58 110 110 110	50.3 119 119 119	20.3 128 130 130				54.8 99.6 99.6 99.7	47 107 107 107			50.3 88.4 88.8 88.9	42.5 93.9 94.2 94.1			46.8 77.7 77.6 77.7	39 82.3 82.6 82.7	42.7 65.7 65.9 66	34.8 68.9 69.4 69.4	
180	- B B2 BW	58.4 124 126 126	51 138 138 138	22.8 162 164 164		54.7 115 116 116	47.4 125 126 126	19.2 144 146 146				52.7 106 106 106	45.3 115 115 115	16.9 127 129 129				49.5 96.5 96.3 96.5	42.2 103 103 104			45.2 85.7 85.8 86.2	37.7 91.5 91.7 91.6			41.7 75.3 75.1 75.2	34.3 79.7 80.1 80.3	37.7 63.6 64.1 64.2	30.1 67.2 67.6 67.8	
190	- B B2 BW	53.5 118 120 120	46.4 134 134 134	19.4 158 160 160		49.8 110 111 111	42.8 121 122 122	15.8 141 143 143				47.8 102 102 102	40.8 110 111 111	13.6 126 127 127				44.8 93.6 93.1 93.4	37.7 100 100 100	10.4 110 111 111			40.5 82.9 82.7 83.2	33.3 89.1 89 89			37.1 72.6 72.7 72.7	29.9 77.4 77.8 77.9	33.1 61.8 62.3 62.4	25.8 65.4 65.9 66.1
200	- B B2 BW	49 112 114 114	42.2 129 130 131	16.3 153 155 155		45.4 105 106 107	38.6 118 118 118	12.7 138 140 140				43.4 98.2 98.6 98.6	36.6 107 107 107	10.6 124 125 126				40.4 90.5 89.9 90.3	33.6 97 96.9 97.1	10.6 108 110 110			36.1 80 79.6 80.1	29.3 86.5 86.3 86.3			32.8 69.8 69.7 70.2	26 75.3 73.2 73.2	28.9 60 60.5 60.6	21.9 63.6 64.3 64.4
210	- B B2 BW	38.3 123 125 126	34.3 149 150 150			41.3 99.8 101 102	34.8 115 115 115	9.9 134 136 136				39.3 93.9 95.1 95.2	32.8 104 104 104				36.4 87 86.8 86.9	29.8 93.6 93.8 94				32.2 77.1 76.6 76.9	25.6 83.6 83.3 83.4			28.9 67.9 67.9 70.2	22.3 73.3 73.2 73.2	25 58.3 58.7 58.7	18.3 62 62.8 62.8	
220	- B B2 BW	35.1 116 120 121	10.9 144 146 146			37.8 94.5 96 96.4	31.5 110 111 111	7.4 131 132 132				35.7 89.5 90.9 91.1	29.4 102 101 101				32.8 83 83.7 83.9	26.5 91.3 91.2 91.4				28.6 74.2 73.8 74	22.3 80.4 80.3 80.4			25.4 65.8 65.5 65.7	19.1 71.1 71.1 71	21.5 56.6 57 57	15.1 60.4 61.1 61.3	63.7 64.8 64.8 64.6

HSDWB/B2/BW

HS 256

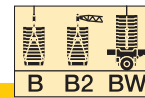


550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 256																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
230	- B B2 BW			8.5		34.7	28.4			32.3	26.2			29.5	23.4			25.3	19.2			22.1	16			18.3	12.1		
				141		89.8	104	127		84.7	98.5	115		79.1	89.4	103		71.2	77.8	90		63.6	69	76.7		54.9	58.8	63.3	
				144		91.3	107	128		86.1	98.6	117		80.5	89.1	105		71.5	77.6	90.9		63.4	68.7	77.7		55.3	59.5	64.3	
				144		91.4	107	129		86.2	98.4	117		80.7	89.3	104		71.6	77.7	91		63.5	68.7	77.7		55.4	59.6	64.3	
240	- B B2 BW			137	146			125		29.3	23.3			26.4	20.5			22.3	16.4			19.1	13.2			15.3	9.4		
				141	150			126	129	79.5	94.5	112		75.1	87.4	101		68.2	75.7	88.8		61.4	66.9	75.7		53.1	57.1	62.8	
				141	151			126	129	81	95.7	113		76.6	87.1	102		69.3	75.4	89.5		61.5	66.5	76.7		53.7	57.8	63.8	
								126	129	80.9	95.5	114		76.8	87.3	102		69.3	75.5	89.7		61.4	66.6	76.7		53.8	58	63.8	
250	- B B2 BW			131	145			124	126		20.7			23.5	17.9			19.4	13.7			16.3	10.6			12.5	6.6		
				135	150			125	130		90.4	109	107	70.4	84.7	98.3		65.5	74.1	87.3		59	64.7	74.7		51.1	55.5	62.2	
				135	150			125	130		92.5	111	110	71.8	84.7	99.5		66.9	73.8	88		59.7	64.6	75.6		52	56.1	63.3	
								125	130		92.3	111	111	72.1	85	99.9		67	73.9	88		59.7	64.8	75.6		52	56.4	63.3	
260	- B B2 BW			121	143			120	126		18.3			21	15.4			16.9	11.3			13.8	8.2			10			
				124	148			122	130		84.9	108	108	65.7	80	96.1	91.5	61.6	72.4	84.8		56.7	63.7	73.3		49.4	54.1	61.3	
				125	149			122	130		86.8	109	112	67.2	81.2	97.2	78.6	63	72.1	86.3		57.8	63.4	74.3		50.4	54.6	62.5	
								122	130		86.9	109	112	67.4	81.7	97.6	93.9	63	72.4	86.3		57.9	63.6	74.3		50.5	54.8	62.6	
270	- B B2 BW			139				114	125		18.8	13.2		14.5	9.1			11.4				9.2				7.1			
				145				117	129		61.7	75.8	94.5	93	57.6	69.2	82.5		53.9	62.6	71.9		47.7	52.8	60.4				
				144				118	129		63.1	77.3	95.3	95.4	58.9	69.8	84.4		55	62.2	72.8		48.8	53.3	61.6				
								107	112		63.1	77.9	95.7	95.7	58.9	70.1	84.6		55.1	62.5	72.9		48.9	53.6	61.7				
280	- B B2 BW			133				124			103	109		93.2	93.9			53.6	65.5	80.5	76.5	50.6	60.7	70.4		45.6	51.5	59.7	
				142				128			105	112		93.8	96.3			54.9	67.1	82.5	79	51.7	60.5	71.3		46.8	52.1	60.6	
				138				128			105	113		94.1	96.6			54.9	67.4	82.6	78.7	51.8	60.7	71.4		47	52.4	60.7	
290	- B B2 BW			127				121			98.9	108		91.9	94.2			62.5	78.7	77.5		46.8	57.7	69	63.4	42.9	50.2	58.9	
				139				126			101	112		92.4	96.8			64.2	80.4	81		48	58.4	69.7	64.9	44.2	50.8	59.6	
				131				126			101	112		92.8	96.9			64.5	80.6	80.1		48.1	58.6	69.8	65	44.2	51.1	59.7	
300	- B B2 BW			121				117			91.1	107		89.9	94.1			58.4	77.2	78.1		42.8	54.6	67.6	64.4	39.2	48.2	58	46.7
				136				124			92.3	111		90.7	96.8			59.8	78.2	82		44.5	56.1	68.1	66.1	40.5	49.2	58.5	49.8
				126				121			92.8	111		90.8	96.9			59.9	78.6	81.5		44.7	56.2	68.3	66.2	40.4	49.5	58.6	50.4
310	- B B2 BW							112			105			87.1	93.6			75.9	78.3			38.8	51.4	66.1	65	35.6	46.2	57	51.3
								123			109			88.3	96.2			76.5	82.4			40.6	53	66.7	66.9	36.9	47.4	57.4	52.6
								116			109			88.5	96.3			77	82.2			40.7	53.2	66.9	66.9	36.7	47.7	57.4	52.6
320	- B B2 BW										103			92.9				74.8	78.3			64.9	65.4			32.4	43.9	55.9	51.9
											107			95.3				75.1	82.2			65.3	67.5			33.5	45.1	56.3	53.4
											106			95.6				75.6	82.2			65.7	67.5			33.4	45.4	56.3	53.4
330	- B B2 BW										99.1			91.9				72.6	78			64	65.7			41.1	54.7	52.4	
											107			94.1				72.8	81.6			64.3	67.8			42.2	55.1	54	
											103			94.5				73.2	81.6			64.7	67.9			42.5	55.2	54.1	
340	- B B2 BW										94.8			90.7				65.7	77.6			63.7	65.8			36.5	53.7	52.9	
											107			92.8				66.1	80.3			63.8	67.9			38	54.1	54.5	
											98.4			93.4				66.3	80.3			64.1	68.1			38	54.1	54.7	
350	- B B2 BW													87.9								76.9				53.5	53.2		
														92.6								79.2				53.9	55		
														90.9								79.4				53.9	55.1		
360	- B B2 BW																					75.7				53.3	53.5		
																						78.8				53.6	55.4		
																						78.3				53.7	55.5		
370	- B B2 BW																					73.8				52.1	53.7		
																						78.8				52.3	55.7		
																						76.8				52.4	55.7		
380	- B B2 BW																					71.1				47.9	53.9		
																						78.8				47.8	55.9		
																						74.7				48.1	55.9		
390	- B B2 BW																												
																	</												

HSDWB/B2/BW

HS 276



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

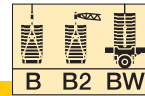
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ft		HS 276																									
		W 79				W 98				W 118				W 138				W 157				W 177					
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°		
55	- B B2 BW	280 371 374 375				251 332 335 335																					
60	- B B2 BW	258 360 363 363				248 324 326 327				240 292 293 294																	
65	- B B2 BW	239 349 350 352	219 376 381 382			229 314 317 318	338 340 341			222 286 286 287				213 256 257 257													
70	- B B2 BW	223 337 339 340	206 367 372 372			214 306 308 309	190 332 334 334			207 278 279 280				201 252 253 253													
75	- B B2 BW	208 325 327 329	192 357 362 362			199 297 298 299	183 323 326 326			194 270 272 273	177 292 293 294			187 246 247 247					181 222 222 222					176 198 199 199			
80	- B B2 BW	195 313 316 318	179 346 351 351			187 288 289 290	171 313 318 318			181 263 265 265	166 286 287 288			175 240 241 241	160 258 258 259				170 218 218 218					165 196 195 196			
85	- B B2 BW	183 302 305 307	168 334 340 340			175 278 280 281	161 305 309 310			170 256 257 258	155 278 281 281			165 234 236 236	150 254 254 254				159 214 213 213	144 227 227 227				155 193 192 192			
90	- B B2 BW	173 290 294 296	159 323 329 330			165 269 272 273	151 297 301 302			160 249 250 251	146 271 274 275			155 229 229 230	141 248 249 249				150 208 209 209	136 223 224 224				146 189 189 189			
95	- B B2 BW	163 280 285 285	150 313 318 319			156 261 264 264	142 288 293 293			151 242 243 244	138 264 268 268			146 223 223 224	133 242 244 244				142 203 204 204	128 220 220 220				137 185 185 186	124 198 198 198		
100	- B B2 BW	141 302 309 310				147 252 255 256	134 280 284 285			143 235 237 238	130 258 261 261			138 217 217 218	125 236 239 239				134 199 199 199	121 216 216 216				130 181 182 182	117 195 195 195		
105	- B B2 BW					140 242 246 247	127 271 275 277			135 228 230 231	123 252 255 255			131 211 212 213	119 231 233 234				126 195 194 195	114 211 212 212				122 178 178 178	110 192 192 192		
110	- B B2 BW			81.2 355 369 370		133 234 238 239	121 264 267 269			128 221 224 225	117 244 248 248			124 206 207 207	112 225 228 228				120 190 190 190	108 206 208 208				116 174 174 174	104 188 188 189		
115	- B B2 BW			78 348 364 365		126 227 230 231	114 256 260 261			122 214 216 217	111 238 241 242			118 200 202 202	106 220 223 223				114 185 185 186	102 201 203 204				110 171 170 171	98.6 185 185 186		
120	- B B2 BW			73.6 340 356 357		109 248 253 254	67.3 310 321 322			116 206 209 210	105 232 235 236			112 195 197 197	101 215 218 218				108 181 181 181	97 197 199 199				105 167 166 167	93.5 181 182 182		
125	- B B2 BW			69.5 331 347 348			63.3 305 316 317			111 199 202 203	99.9 225 229 230			107 189 191 192	96 210 213 213				103 176 177 177	92.1 193 195 195				99.3 163 163 163	88.6 177 179 179		
130	- B B2 BW			65.7 322 339 340			59.7 299 309 311			106 193 196 197	95.2 219 222 224	55.2 270 280 280			102 183 185 186	91.4 205 207 208				97.9 172 172 173	87.5 189 191 191				94.5 159 159 160	84.2 173 175 175	
135	- B B2 BW			62.2 315 331 332			56.4 290 303 304				90.9 213 217 218	52.9 267 275 276			97.4 177 179 180	87.2 199 202 203				93.5 167 168 169	83.4 184 187 187				90.2 156 156 156	80.2 170 172 172	
140	- B B2 BW			58.8 307 323 324			53.3 282 297 297				86.8 207 211 212	49.9 262 271 272			93.1 171 174 175	83.2 194 197 198	43.6 235 243 243				89.2 163 163 164	79.4 181 183 183	39.8 211 217 217			86 152 152 153	76.3 166 168 168
150	- B B2 BW						47.5 268 283 283				44.3 252 261 262			85.4 161 164 165	75.8 184 188 188	40.8 231 238 239				81.4 153 154 155	72.2 173 175 175	37 208 214 214			78.4 145 145 146	69.1 160 162 162	
160	- B B2 BW										39.3 239 251 251				36 223 231 232				74.5 143 145 146	65.7 164 167 167	32.3 204 210 210				71.5 137 139 139	62.7 153 155 155	29.3 183 188 188
170	- B B2 BW				267 290 272						34.8 227 240 240				31.7 215 223 224				68.4 135 137 138	59.9 156 159 160	28.2 197 204 204				65.4 129 130 131	57.1 147 148 149	25.3 179 185 185

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 276



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

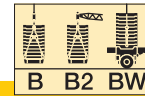
ft	B B2 BW	HS 276																								
		W 79				W 98				W 118				W 138				W 157				W 177				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
180	-				252								30.9				28			54.9	24.5			60.2	52.1	21.7
	-				274								219				205			148	191			121	140	174
	-				257								231				216			151	198			123	142	180
	-												231				216			152	198			124	143	180
190	-																24.5				21.2			55.5	47.6	18.5
	-																197				184			115	133	170
	-																208				191			117	136	175
	-																208				192			117	136	176
200	-																				18.1					15.5
	-																				175					165
	-																				184					171
	-																				184					171
210	-																									12.8
	-																									160
	-																									166
	-																									166
220	-																									10.4
	-																									152
	-																									159
	-																									142
230	-																									8.1
	-																									144
	-																									155
	-																									158
240	-																									150
	-																									157
	-																									157
250	-																									147
	-																									155
	-																									155
260	-																									143
	-																									153
	-																									150
270	-																									138
	-																									150
	-																									143
280	-																									132
	-																									146
	-																									136

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 276



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

H

ft		HS 276																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
80	-	158																											
	B	173																											
	B2	173																											
	BW	173																											
85	-	148				144						134																	
	B	171				153						134																	
	B2	170				152						134																	
	BW	171				152						134																	
90	-	139				136						129																	
	B	169				151						133																	
	B2	168				150						132																	
	BW	168				151						132																	
95	-	131	112			128						122					115												
	B	166	174			149						132					116												
	B2	165				148						131					115												
	BW	165				149						131					116												
100	-	123	110			121	102					115					111					99.2							
	B	163	173			147	154					130					115					99.6							
	B2	162	173			146	153					129					114					98.8							
	BW	163	173			146	154					129					114					98.9							
105	-	116	104			114	102					109	96.2				104					98.3			86.1		71		
	B	161	171			145	152					129	134				113					98.3			86.1		71		
	B2	160	170			144	152					128	133				113					97.6			85.9		71		
	BW	160	171			144	152					128	133				113					98			85.9		71		
110	-	110	98.2			108	96.1					103	90.7				98.6	84.9				93.1			85		70.3		
	B	157	168			143	151					127	133				112	116				97.2			85		70.3		
	B2	157	168			142	151					126	132				111	116				96.6			84.9		70.3		
	BW	157	168			142	151					126	132				111	116				96.8			85.1		70.3		
115	-	104	92.8			102	90.8					97.2	85.6				93.1	81.5				87.9			82.5		69.5		
	B	154	166			141	149					126	131				111	116				96.3			84.2		69.5		
	B2	154	166			140	149					124	131				110	115				95.6			84		69.5		
	BW	154	166			140	149					124	131				110	115				95.6			84.1		69.5		
120	-	98.9	87.7			97	85.9					91.9	80.7				88	76.8				82.9	71.6		78.7		68.1		
	B	151	163			138	147					124	130				110	115				95.3	98.7		83.3		68.6		
	B2	151	163			137	147					122	130				108	114				94.5	98.4		83.1		68.6		
	BW	151	164			137	147					123	130				109	114				94.6	98.4		83.1		68.7		
125	-	93.8	83			92	81.3					87.1	76.2				83.2	72.3				78.2	67.3		74.2	63.2	67.2		
	B	148	160			135	145					122	129				108	114				94.3	98		82.4	84.8	67.4	69.3	
	B2	148	161			135	145					121	128				107	113				93.5	97.7		82	85.2	67.6	69.5	
	BW	148	161			135	145					121	128				107	113				93.5	97.7		82.1	85.2	67.9	69.5	
130	-	89.1	78.7			87.4	77					82.6	72.1				78.8	68.3				73.9	63.3		69.9	59.3	64.8	53.6	
	B	145	157			133	143					119	127				107	112				93.3	97.3		81.1	84.2	66.6	68.6	
	B2	144	158			133	143					119	127				106	112				92.4	96.9		80.6	84.7	66.8	68.8	
	BW	145	158			133	143					119	127				106	112				92.4	96.8		80.7	84.7	66.9	68.9	
135	-	84.8	74.7			83.2	73.1					78.4	68.3				74.8	64.6				70	59.7		66.1	55.7	61.5	51.1	
	B	142	154			131	141					117	126				105	111				92.2	96.3		79.9	83.6	65.8	68	
	B2	141	155			130	141					117	125				104	111				91.3	96		79.3	84	66	68.2	
	BW	142	156			130	141					117	125				104	111				91.2	96		79.4	84	66	68.3	
140	-	80.7	70.9			79.2	69.4					74.5	64.6				70.9	61				66.1	56.1		62.3	52.3	57.8	47.7	
	B	139	151			129	139					115	124				103	110				91.1	95.3		78.8	82.9	64.9	67.3	
	B2	139	152			127	139					115	124				103	110				90.1	95.2		78.1	83.3	65.2	67.5	
	BW	139	153			128	139					115	124				103	110				90.1	95.2		78.1	83.3	65.2	67.6	
150	-	73.2	63.9			71.7	62.5					67.2	57.9				63.8	54.4				59.1	49.7		55.4	45.9	51.1	41.5	
	B	133	146			124	134					111	121				100	108				88.7	93.4		76.7	80.9	63.3	65.9	
	B2	133	147			122	135					111	120				99.6	107				87.8	93.3		75.8	81.4	63.5	66.2	
	BW	134	147			123	135					111	120				99.6	107				87.7	93.4		75.9	81.4	63.6	66.3	
160	-	66.5	57.7	21.3		65.1	56.3					60.7	51.8				57.4	48.5				52.8	43.8		49.2	40.2	45	35.9	
	B	127	140	162		119	129					107	117				97.1	105				85.9	91.7		74.7	78.6	61.7	64.4	
	B2	128	142	165		118	130					106	117				96.5	104				85.3	91.3		73.8	79.2	61.8	64.8	
	BW	128	142	165		119	130					107	117				96.6	105				85.3	91.6		73.9	79.2	61.9	64.9	
170	-	60.5	52.1	19.9		59.1	50.8	18.4				54.8	46.4				51.6	43.2				47.2	38.6		43.7	35.1	39.5	30.9	
	B	121	135	160		114	125	142				104	112				94.1	102				83	89.8		72.5	77	60	63	
	B2	122	136	164		113	126	144				103	113				93	102				82.5	89.4		71.8	77.2	60.2	63.5	
	BW	122	136	164		114	126	145				103	113				93.5	102				82.4	89.7		71.9	77.4	60.2	63.5	
180	-	55.3	47.2	16.5		53.9	45.9	15.3				49.7	41.6				46.6	38.5				42.2	34		38.7	30.6	34.7	26.4	
	B	114	129	157		109	120	140				99.6	109				91.1	98.6				80.1	87.8		70.3	75.4	58.3	61.6	
	B2	115	131	161		108	121	143				98.9	110				90.1	98.8				79.6	87.3		69.8	75.5	58.5	62.1	
	BW	115	131	161		109	121	143				99.2	109</																

HSDWB/B2/BW

HS 276



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

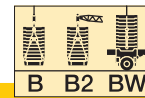
ft		HS 276																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
230	B B2 BW		137 142 142		34 82.7 84.4	27.3 97.1 98.9	127 131 131		29.9 77.1 78	23.3 90.2 92.1	113 117 117		27.1 72.2 72.6	20.5 83.6 84.3	101 104 104		22.9 65.8 65.5	16.3 74.2 74.4	87.8 89.7 89.8		19.8 60 59.1	13.1 66 66.1	73.2 74.9 74.9		15.9 50.1 50.3	9.2 54.1 54.6	58 58.9 58.9		
240	B B2 BW		130 137 137	130 136 136			123 127 128		27 71.9 73.3	20.5 86.3 88.5	110 114 115		24.1 67.9 68.6	17.7 80 81.4	99.4 102 102		20 62.6 62.8	13.5 71.3 71.8	86.8 88.9 89.1		16.8 57.6 56.9	10.4 64 64.1	73.1 74.8 74.8		48.4 48.8 49	52.5 53.2 53.3	57.7 58.6 58.7		
250	B B2 BW		126 133 133	130 137 137			119 123 124	114 118 119		17.9 81.7 84.3	108 112 112		21.4 63.9 64.6	15.1 76.5 78.2	97.5 100 101		17.3 59.3 60	11 68.6 69.7	85.7 87.9 88		14.1 54.8 54.6	62 62.1 62.3	72.8 74.7 74.7		46.4 47.2 47.4	51.1 51.8 51.8	57.2 58.3 58.3		
260	B B2 BW		124 130 132	128 136 136			115 119 119	114 119 119		15.6 77.6 79.7	105 109 109	89.8 94.4		18.9 59.9 60.7	12.8 72.8 74.5	95.3 98.4		14.8 55.9 56.5	8.7 86.7 86.7		11.6 52 52.3	59.9 72 74	72 74		44.1 45.5 45.7	49.7 50.3 50.4	56.8 57.9 57.9		
270	B B2 BW		127 134 134				109 117 115	113 119 120			102 106 106	97.6 102 102		56.5 57 57.5	69 70.7 71	93.4 96.4 96.7		12.4 32.5 53	8.7 63.4 64.8	82.2 85.3 85.4		9.4 48.7 49.3	57.8 57.1 59.1	71 73.2 73.3		42 43.8 44	48.5 49.1 49.2	56.1 57.3 57.3	
280	B B2 BW		124 132 131				112 119 119			98.4 103 103	97.7 103 103				91.3 94.3 94.6	84.8 88 88.1		10.3 49.1 49.5	80.1 83.8 84		44.9 45.8 46.2	55.8 57.1 57.4	69.8 72.2 72.4		39.7 41.9 42	47.3 47.9 48	55.4 56.6 56.7		
290	B B2 BW		120 130 126				111 118 118			95.4 101 101	97.3 103 103				88.9 92.1 92.3	85 89 89.2		57.3 58.4 59	78.2 82.1 82.4	69.1 72 72.1		40.9 42 42.4	53.2 54.5 54.9	68.4 71 71.2	56.7 58.5 58.5	37.2 39.4 39.5	46 46.6 46.8	54.8 56 56	
300	B B2 BW		115 127 120				109 116 116			94.6 99.7 100	96.5 102 102				85.2 90.3 90.1	85.3 89.4 89.6		53.3 54.9 55.5	76.5 79.8 80.2	70 73.1 73.3		37.5 38.4 38.9	50.1 51.5 51.9	67.2 69.8 70	57.8 59.9 59.8	34.3 36 36.1	43.9 44.8 45	54 55.3 55.4	37.3 42.6 44.3
310	B B2 BW						107 114 112				95.6 101 101				82.1 88.7 87.8	84.9 89.5 89.5			74.3 77.7 78	70 73.9 73.9		34.7 46.9 35.6	46.9 66 48.8	58.8 60.9 61		31.5 32.7 32.8	41.5 42.4 42.7	53.3 54.6 54.7	44.8 46.1 46.1
320	B B2 BW						103 111 107			94.6 100 99.9					84.4 89.2 89.2				71.4 75.9 76.2	70.1 74.4 74.4			64.7 67.4 67.5	59.5 60.9 62		29 29.6 29.7	38.8 39.9 40.2	52.6 54 54.1	45.8 47.3 47.3
330	B B2 BW						92.9 98.8 97.2								83.8 88.6 88.8				69.8 74.6 74.9	70 74.5 74.6			63.2 66.2 66.2	59.6 62.5 62.6		36 37.2 37.5	51.9 53.4 53.4	46.7 48.3 48.2	
340	B B2 BW						89.8 96.4 93.7								83.1 87.9 88				69.3 74.3 74.6	69.7 74.4 74.6			60.8 64.9 64.7	59.7 62.8 62.9		32.9 34.2 34.5	51.3 52.7 52.8	47.5 49.1 49.1	
350	B B2 BW														81.2 86.6 86.3					69.2 74.1 74.3			58.5 64 63	59.6 62.9 63			50.6 52.6 52.5	48.1 49.8 49.8	
360	B B2 BW														78.1 85.1 83.1					68.6 73.7 73.7				59.5 62.9 63.1			50.1 52.4 52.4	48.6 50.4 50.5	
370	B B2 BW																			67.7 72.8 72.4				59.2 62.9 63.1			49.8 52.4 52.2	49 50.9 51	
380	B B2 BW																			65.8 70.8 69.5				58.8 62.8 63			49.7 52 51.2	49.2 51.3 51.4	
390	B B2 BW																							57.8 61.8 62				49.2 51.9 52	
400	B B2 BW																							56.6 61.2 60.3				49 52.2 52.4	
410	B B2 BW																											48.5 52 52.2	

TAB 181391 / 181393 / 181397

H

HSDWB/B2/BW

HS 295



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

H

ft		HS 295																									
		W 79				W 98				W 118				W 138				W 157				W 177					
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°		
55	- B B2 BW	268 337 339 339																									
60	- B B2 BW	247 326 330 330				239 296 297 297				230 265 265 266																	
65	- B B2 BW	229 317 320 320	207 341 345 347			222 287 290 290				213 259 260 260			206 233 234 234														
70	- B B2 BW	213 307 309 310	195 333 338 339			207 279 282 282				198 252 254 254			194 229 229 230														
75	- B B2 BW	199 297 298 300	182 324 329 330			193 272 274 274	175 294 297 297			185 245 247 248			182 224 225 225				174 201 201 201					160 180 180 180					
80	- B B2 BW	187 288 289 290	170 315 320 320			181 264 266 266	164 287 290 290			174 239 241 241	157 259 260 260			170 220 220 220	153 234 234 234			163 197 197 197					157 177 177 177				
85	- B B2 BW	176 278 279 281	160 305 310 310			170 256 257 258	154 279 283 283			163 233 235 235	147 254 254 255			160 215 215 215	144 230 230 230			153 193 193 193	136 205 205 205				148 174 174 174				
90	- B B2 BW	166 267 270 271	150 296 301 301			160 248 249 251	145 272 276 276			154 227 228 229	138 248 249 249			151 209 210 210	136 226 226 226			144 189 189 189	128 202 202 202				139 171 171 171				
95	- B B2 BW	157 259 262 263	142 286 292 292			151 241 242 243	137 265 268 269			145 221 222 223	130 241 243 244			142 203 205 205	128 222 221 222			135 185 184 185	121 199 198 199				131 168 167 167	117 179 179 178			
100	- B B2 BW	134 277 283 283	127 269 273 275			143 232 234 235	129 257 261 261			137 215 216 217	123 235 238 238			135 199 200 200	121 218 217 218			128 180 180 181	114 196 195 195				124 165 164 164	110 176 176 176			
105	- B B2 BW	127 269 273 275	120 269 273 275			136 224 227 228	122 250 254 254			130 209 210 211	116 229 232 232			127 194 194 195	114 212 212 213			121 176 176 177	107 193 191 192				117 162 161 161	104 174 173 173			
110	- B B2 BW	120 263 268 269	120 263 268 269			129 217 220 221	116 241 247 247			123 203 204 205	110 224 227 227			121 189 189 190	108 207 208 208			115 172 172 173	102 189 187 188				111 158 157 157	97.9 171 170 170			
115	- B B2 BW					123 211 213 214	110 235 239 240			117 196 198 199	104 218 221 221			115 184 185 186	102 202 204 204			109 168 168 169	96.3 185 184 184				105 154 154 154	92.6 168 167 167			
120	- B B2 BW			63.5 322 339 340			104 228 232 233			111 190 192 193	99.1 212 215 216			109 180 180 181	97.3 198 199 199			103 164 164 165	91.2 180 180 180				99.8 151 151 151	87.7 166 164 164			
125	- B B2 BW		59.8 314 333 333				99.4 223 227 228	55.6 286 300 300		106 184 185 187	94.1 205 210 210			104 175 176 177	92.5 193 195 195			98.2 160 161 161	86.5 176 176 177				94.8 148 147 147	83.1 163 161 161			
130	- B B2 BW		56.4 306 325 326				94.8 218 222 223	52.3 281 296 297		101 178 180 181	89.6 200 204 205	46 254 262 262		99.4 169 171 172	88 188 191 191			93.5 156 157 157	82.2 172 173 173				90.2 145 144 144	78.8 158 158 158			
135	- B B2 BW		53.2 298 318 319				49.3 275 291 292			85.5 195 199 199	43.9 251 260 260			95.1 164 166 167	84 183 187 187			89.3 152 153 154	78.2 168 169 169				86 141 141 141	75 155 155 155			
140	- B B2 BW		50.1 291 311 312				46.4 270 286 286			81.6 191 194 194	41.1 247 257 258			90.9 159 161 162	80.1 178 182 182	37.3 223 229 229			85.2 148 149 150	74.4 165 166 166				82 138 138 138	71.3 152 152 152		
150	- B B2 BW						41.1 258 274 275				36.1 237 251 251			83.3 150 152 153	73 170 173 174	34.7 219 226 227			77.6 140 141 142	67.5 157 159 159				74.6 131 132 132	64.5 146 146 146		
160	- B B2 BW						36.3 246 262 264				31.6 229 242 243				66.7 162 165 165	30.4 212 222 222			70.9 132 133 134	61.2 150 152 152	24.7 191 197 197				68 125 126 126	58.4 140 141 141	21.7 171 174 174
170	- B B2 BW						31.8 235 252 253				27.5 219 233 233				61.1 155 158 158	26.5 205 216 217			65 125 126 127	55.7 142 145 145	20.9 186 193 194				62.1 117 119 119	52.9 133 135 135	18 169 173 173

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 295



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft	-	HS 295																								
		W 79				W 98				W 118				W 138				W 157				W 177				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
180	B B2 BW											23.9				23				50.9	17.6			57	48.2	14.8
190	B B2 BW			228												19.8				14.6				52.5	43.9	11.9
200	B B2 BW			250																11.8				40		9.2
210	B B2 BW			233								210				196				168				116		157
220	B B2 BW											232				226				179				119		163
230	B B2 BW											217				212				179				119		164
240	B B2 BW															190				161						151
250	B B2 BW											215				202				173						159
260	B B2 BW											200				198				173						160
270	B B2 BW															182				156	157					145
280	B B2 BW											204				199				165	165					155
												189				187				167	175					155
																173										140
												192				192				154						150
												179				177				170						150
																161				150						136
																182				173						144
																168				162						153
																				144						150
																				167						153
																				154						150

HSDWB/B2/BW

HS 295



550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

H

ft		HS 295																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
80	- B B2 BW	153 158 158 158																											
85	- B B2 BW	143 156 156 156				138 139 139 139																							
90	- B B2 BW	135 154 153 153				130 137 137 137																							
95	- B B2 BW	127 152 151 151				122 135 135 135				116 119 119 119				105 106 105 105															
100	- B B2 BW	120 106 149 158 148 157 148 157				115 134 132 133				110 118 117 117				103 104 104 104			91.1 91.1 90.4 90.5												
105	- B B2 BW	114 99.9 147 156 145 155 146 155				109 95.4 132 139 130 138 131 138				103 116 122 115 121 115 121				99.2 103 102 102			90.1 90.1 89.3 89.5			77.4 77.4 76.7 76.7					65 65.1 64.7 64.8				
110	- B B2 BW	108 94.4 144 154 143 153 143 153				103 90 130 137 128 136 128 136				97.8 83 115 121 113 119 114 120				93.6 78.9 102 105 101 105 101 105			87.4 88.8 88.1 88.3			76.6 76.6 75.7 75.7					64.5 64.6 64.1 64.1				
115	- B B2 BW	102 89.3 141 152 140 150 140 150				97.6 85 127 135 126 134 126 134				92.4 79.7 113 119 112 118 112 118				88.4 75.7 100 105 99.1 104 99.3 104			83.2 87.8 87 87.1			75.5 75.6 74.7 74.8					64 64 63.5 63.4				
120	- B B2 BW	96.7 84.5 138 149 137 148 137 148				92.5 80.3 125 133 124 132 124 133				87.4 75.1 111 118 110 117 110 117				83.5 71.2 99.1 104 97.7 103 97.8 103			78.4 66 86.8 90.2 85.8 89.5 85.9 89.5			73.6 74.5 73.6 73.8					63.2 63.2 62.7 62.7				
125	- B B2 BW	91.8 80 135 147 134 146 134 146				87.7 75.9 123 132 121 130 121 131				82.7 70.8 110 117 108 115 108 115				78.9 67 97.8 103 96.3 102 96.4 102			73.9 61.9 85.8 89.6 84.7 88.7 84.8 88.7			69.9 57.8 73.6 76.5 72.7 75.8 72.8 75.8					62.2 62.3 61.9 62				
130	- B B2 BW	87.3 75.8 133 145 132 143 132 143				83.2 71.8 120 130 119 128 119 129				78.4 66.9 108 115 106 114 106 114				74.7 63.1 96.4 102 94.8 101 95 101			69.7 58.1 84.8 88.8 83.6 87.8 83.6 87.8			65.8 54.1 72.6 75.9 71.6 75.1 71.7 75.1					60.6 48.5 61.5 63.3 61.1 63.2 61.3 63.2				
135	- B B2 BW	83.1 72.1 130 142 129 141 129 141				79.2 68.1 118 128 117 127 117 127				74.4 63.3 106 113 104 112 104 112				70.8 59.6 95 101 93.4 99.7 93.6 99.5			65.9 54.7 83.5 88.1 82.2 86.9 82.3 87			62.1 50.7 71.7 75.3 70.5 74.3 70.6 74.4					57.5 46.1 60.7 62.8 60.3 62.8 60.5 62.8				
140	- B B2 BW	79.2 68.4 127 140 126 138 127 138				75.3 64.5 115 126 114 125 115 125				70.6 59.8 104 112 103 110 103 110				67.1 56.2 93.7 99.5 91.9 98.5 92.2 98.4			62.3 51.3 82.2 87.3 80.7 86 80.8 86.1			58.5 47.5 70.7 74.7 69.5 73.6 69.6 73.6					54 42.9 60 62.3 59.6 62.2 59.6 62.3				
150	- B B2 BW	71.9 61.7 122 134 121 133 122 133				68.1 58 111 123 110 121 110 121				63.6 53.3 100 109 98.9 107 99 107				60.2 49.9 90.6 97 88.9 95.9 89.3 95.9			55.5 45.2 79.5 85.2 77.7 84 77.9 84.1			67.4 72 68.7 73.4 67.7 71.9 67.4 72					47.5 37 58.5 61.1 58 61 58 61.1				
160	- B B2 BW	65.3 55.7 117 129 116 128 116 129				61.7 52 107 118 106 116 106 117				57.3 47.5 96.4 106 95.3 104 95.5 104				54 44.2 87.5 94.7 85.8 93.3 86.1 93.4			49.4 39.6 76.6 82.7 74.7 81.7 74.9 81.8			45.8 36 66.8 71.8 65.3 70.2 65.3 70.3					41.6 31.6 57 59.8 56.3 59.8 56.4 59.8				
170	- B B2 BW	59.5 50.3 14.9 111 124 149 111 124 151 111 124 151				56 46.8 11.3 103 114 131 102 112 131 102 113 131				51.6 42.4 93 103 91.8 101 92.1 101				48.4 39.2 84.6 92.4 82.4 90.7 82.7 90.8			44 34.6 73.5 80.2 72 78.6 72.1 78.9			40.5 31.1 64.8 69.7 63.2 68.4 63.2 68.4					36.3 26.8 55.4 58.3 54.6 58.5 54.8 58.5				
180	- B B2 BW	54.4 45.6 12 105 119 148 106 119 150 106 120 151				50.9 42.1 8.4 98.3 109 130 97.7 108 131 97.8 109 131				46.7 37.8 89.8 99 88.6 97.4 89 97.5				43.6 34.7 81.5 89.9 79.1 88.2 79.4 88.3			39.2 30.2 70.9 77.8 69.5 76.1 69.4 76.3			35.7 26.8 62.8 68 61.3 66.4 61.3 66.4					31.6 22.6 53.9 56.9 52.9 57.1 53.1 57.1				
190	- B B2 BW	49.7 41.2 9.1 99.7 114 145 100 115 149 101 115 149				46.3 37.9 93.7 105 129 93.6 105 131 93.8 105 131				42.1 33.7 86.3 95.7 112 85.3 94.5 113 85.8 94.5 113				39.1 30.6 78.3 87.1 76.2 85.6 76.4 85.6			34.8 26.2 68.5 75.7 66.9 73.7 66.9 73.8			31.4 22.8 60.8 66.3 59.3 64.6 59.5 64.6					27.4 18.7 52.1 55.5 51.3 55.7 51.5 55.7				
200	- B B2 BW	45.4 37.3 94.5 109 142 95.4 110 147 96.1 111 147				42 34 89 101 128 89.4 101 130 89.8 101 130				37.9 29.8 82.3 92.3 111 81.7 91.6 112 82.3 91.6 112				35 26.8 75.1 84.1 96.8 73.4 82.8 97.2 73.6 82.7 97.2			30.7 22.5 66.1 73.4 80.3 64.5 71.4 82.6 64.6 71.5 82.6			27.4 19.2 58.8 64.6 55.4 61.1 68.2 57.6 62.9					23.4 15.1 50.5 54.2 49.8 54.1 49.8 54.3				
210	- B B2 BW	33.7 104 139 106 144 106 145				38.1 30.4 84.1 96.6 126 84.9 97.8 128 85.5 98.2 128				34.1 26.3 77.7 89 110 77.8 88.7 112 78.3 88.8 112				31.2 23.4 71.8 80.9 96.3 70.6 79.8 97.2 70.8 79.7 97.2			27 19.1 63.8 71.1 82.1 62.3 69.2 82.9 62.4 69.2 82.9			23.7 15.8 56.9 62.9 66.8 55.5 61.3 68.2					19.8 11.8 49 52.8 54.1 48.2 52.7 55 48.1 52.8 55				
220	- B B2 BW	30.5 99.4 135 101 141 101 141				34.7 27.2 79.1 92.7 123 80 94.1 127 80.5 94.5 127				30.7 23.2 73.2 85.6 109 73.8 86.1 111 74.4 86.3 111				27.8 20.3 68.3 77.4 95.6 67.8 76.8 96.6 68 76.8 96.7			23.6 16.1 61.4 68.8 82.2 60.1 67 82.8 60.2 67.2 82.8			20.4 12.8 55.1 61.1 67.4 55.6 59.4 68.5 53.8 59.5 68.4					16.5 8.9 47.3 51.4 54.1 46.5 51.3 55 46.5 51.3 55				

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 295



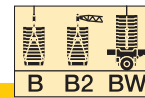
550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

ft		HS 295																																							
		W 197				W 217				W 236				W 256				W 276				W 295				W 315															
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°												
230	B B2 BW		131 138 138			31.6 74.9 75.8 76.2	24.3 88.8 90.2 90.7	120				27.5 69.2 69.9 70.3	20.3 82.1 83.2 83.4	107				24.7 64.9 65 65.2	17.4 74.4 74.3 74.5	94.7				20.5 58.8 58.2	13.2 66.4 65 65.1	81.4				17.4 53.2 51.8 52	10.1 59.4 57.8 57.8	67.5				13.5 45.8 44.9 44.9	49.8 49.9 49.9	53.8 54.8 54.9			
240	B B2 BW		126 134 134				85 86.5 87.1	117 121 122				24.6 65.4 66.1 66.3	17.6 78.3 79.7 80.1	104				21.8 61.5 62 62.3	14.8 71.5 72.1 72.3	93.4				17.7 56.2 55.9 56.1	10.6 64.1 63.2 63.3	80.2				14.6 51.2 50 50.2	11.9 57.6 56.2 56.1	67.2				10.7 44.3 43.3 43.3	48.4 48.5 48.5	53.5 54.6 54.7			
250	B B2 BW		122 130 133	123 133				113 119 119				15.1 74.3 75.4 76.1	102					19.1 58.1 58.5 59	12.3 68.5 69.8 70.2	91.8				15 53.5 53.7 54	61.8 61.6 61.8	78.9				11.9 48.9 48.3 48.4	55.8 55.8 54.5	67				42.7 41.6 41.7	47.1 47.1 47.2	53.1 54.3 54.3			
260	B B2 BW		119 127 127	121 134 134				109 116 116	108 114 112			12.9 70.4 71.6 72.3	100					16.7 54.8 55.1 55.8	10.1 65.6 66.7 67.1	90.3				12.6 50.5 50.7 51.1	61.8 61.6 61.8	81.1				9.5 46.6 46.5 46.6	53.9 53.9 53.3	66.5				40.4 39.7 39.8	45.7 45.7 45.8	52.7 54 53.9			
270	B B2 BW		118 133 131					105 113 113	107 116 116				96.9					51.4 51.8 52.3	62.7 63.5 64	88.7				10.4 47.3 47.5 47.9	57 57.7 58.2	76.4				43.8 44 44.1	52 51.9 52.2	66				38.1 37.8 37.9	44.5 44.7 44.6	52.1 53.4 53.4			
280	B B2 BW		115 133 126					103 110 110	105 116 116				93.8 99.6 99.8	93.2					59.5 60.3 60.8	86.8 90.1 90.4	78.4				8.3 43.7 43.9 44.2	54.5 55.2 55.7	75.1				40.6 40.9 41.1	50 50.3 50.7	65.2				35.7 35.8 35.9	43.3 43.7 43.7	51.6 52.9 52.8		
290	B B2 BW		111 131 120					103 116 115					91.1 97.5 97.6	92.6						84.4 88.8 88.9	79.8				51.8 52.5 53	73.7 76.3 76.4	64.8				37.1 37.3 37.6	47.7 48.3 48.8	64.3				33.2 33.5 33.7	42.1 42.7 42.8	50.9 52.2 52.2		
300	B B2 BW		108 126 115					100 116 111					89.6 95.3 95.5	91.1						81.8 87.4 87.3	80.6				48.7 49.4 49.7	71.7 75.3 75.4	65.6				33.8 45.2 34.3	45.2 45.8 46.2	63.3	51.9 38.5 54.8				30.6 30.8 30.9	40.4 41.1 41.3	50 51.5 51.6	
310	B B2 BW		104 120 109					97.4 113 106					89.2							78.8 85.6 85.5	79.9					69.9 74.4 74.3	66.4 70.5 70.6				30.8 42.1 43.1	42.1 64.2 64.3	54.8				28 28 28.1	37.8 38.4 38.6	49.4 50.8 50.9		
320	B B2 BW							94.6 110 101					87.1							76.7 82.5 82.8	78.2					68 73.1 73	66.6				38.5 38.9 39.5	61 63.5 63.7	55.9				25.3 25.3 25.8	35 35.4 35.7	48.6 50.1 50.2	40.5 43.1 43.1	
330	B B2 BW												84.9							75.9						66 71.5 71.3	66.2					59.7 62.8 62.9	56.6					32.2 32.5 33	47.9 49.5 49.5	42.5 44.2 44.2	
340	B B2 BW												82.6							74						64.9 69.7 69.8	65					58.2 61.9 61.9	56.9					29.5 29.7 30.1	47.3 48.8 48.9	43.4 45.1 45	
350	B B2 BW												78.8							71.9							63.8 72.7 72.3					56.6 60.9 60.9	56.8						46.8 48.4 48.6	44.1 45.8 45.8	
360	B B2 BW																			69.8							62.5 72.8 70.4					55.7 59.3 59.1	56.1						46.5 48.2 48.3	44.6 46.4 46.5	
370	B B2 BW																										60.9 72.4 67.3					55.1 61.7 61.6							46.5 48.1 48.1	45.1 47 47	
380	B B2 BW																										59.4 71.3 64.1					54 61.9 60.4								46.5 48.1 47.4	45.5 47.5 47.5
390	B B2 BW																											57.8 68.6 61.5					52.9 62.1 58.3								45.4 48 48
400	B B2 BW																																51.7 61.5 55.8								44.8 48.4 48.5
410	B B2 BW																																							44 49.2 48.5	
420	B B2 BW																																							43.1 50.4 47.3	
430	B B2 BW																																							40.5 50.8 45.3	

H

HSDWB/B2/BW

HS 315



550000 – 771000 lbs
 331000 – 550000 lbs
 0 – 331000 lbs
 0 lbs

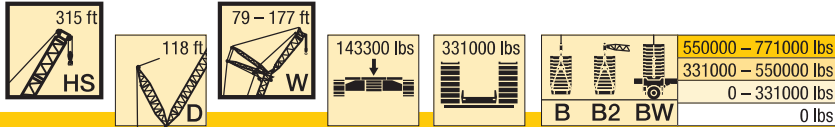
H

ft		HS 315																								
		W 79				W 98				W 118				W 138				W 157				W 177				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
55	- B B2 BW	258 298 299 300																								
60	- B B2 BW	239 290 291 292				229 261 262 262				231																
65	- B B2 BW	222 281 284 284	199 301 303 303			212 255 255 256				204 229 230 230				198 206 207 208												
70	- B B2 BW	207 273 276 276	187 294 296 297			198 247 249 249				225 225 226				192 203 204 204												
75	- B B2 BW	194 265 268 268	175 287 288 289			185 240 242 243	167 258 260 260			180 220 220 221				174 199 200 200				166 178 178 179								
80	- B B2 BW	181 258 260 260	164 280 280 281			174 233 236 236	156 252 253 254			169 214 215 215	151 228 230 230			163 195 195 196	136			156 175 175 175					153 158 158 158			
85	- B B2 BW	171 250 252 252	154 273 272 273			163 227 229 229	146 247 246 247			159 208 209 209	142 224 224 224			153 191 191 191	136 202 203 203			146 180 180 181					144 156 155 155			
90	- B B2 BW	161 243 244 245	145 264 264 265			154 221 222 223	138 241 240 240			150 202 204 204	133 219 219 219			145 185 186 187	128 199 199 199			138 168 168 168	119 177 178 178					136 153 152 152		
95	- B B2 BW	152 235 237 238	137 256 257 257			145 214 216 216	130 234 233 234			141 197 198 199	126 214 213 214			137 180 182 182	121 195 194 195			130 164 164 165	114 174 175 175					128 150 149 149	113 158 157 157	
100	- B B2 BW	129 249 251 251	116 249 251 251			138 208 209 210	123 227 227 227			134 191 193 193	119 210 208 208			129 176 177 178	114 191 190 191			123 160 160 161	108 172 171 171					121 147 146 146	106 156 155 155	
105	- B B2 BW	122 243 246 246	116 243 246 246			130 203 204 205	116 222 221 221			127 186 188 188	112 205 203 203			122 171 173 173	108 187 186 186			116 156 156 157	101 169 167 168					115 144 143 143	100 154 152 152	
110	- B B2 BW	116 237 240 240	116 237 240 240			124 197 198 199	110 216 215 215			120 181 182 183	106 199 197 198			116 167 168 168	102 183 181 182			110 152 153 153	95.9 165 164 164					109 141 140 140	94.7 151 149 149	
115	- B B2 BW					118 192 192 193	104 210 210 210			114 176 177 178	101 194 192 193			110 163 164 164	96.9 179 177 177			104 148 149 149	90.8 162 160 161					103 138 137 137	89.7 149 146 146	
120	- B B2 BW			56.8			99			109 172 173 173	95.8 189 187 188			105 158 160 160	92 175 172 173			99 144 145 146	86 158 157 157					98 135 134 134	85 146 143 143	
125	- B B2 BW			53.4			94.1			104 168 168 169	91 185 182 183			99.9 155 156 156	87.4 171 168 169			94 141 142 142	81.4 155 153 154					93.1 132 131 131	80.6 143 140 140	
130	- B B2 BW			50.2			89.7	43.5		98.9 163 164 165	86.7 180 179 179			95.3 151 152 152	83.1 166 164 165			89.5 138 139 139	77.3 151 150 150					88.7 128 128 128	76.5 140 137 138	
135	- B B2 BW			47.3			41.5				82.7			91.1 147 148 148	79.3 163 161 161			85.4 134 135 135	73.5 148 146 147					84.6 126 125 125	72.8 137 134 135	
140	- B B2 BW			44.5			38.9				78.8	33.5		87.1 143 144 145	75.6 159 157 158	30		81.4 131 132 132	69.9 145 143 143					80.7 123 122 122	69.2 135 132 132	
150	- B B2 BW			39			34				31.1			79.7 136 137 138	68.7 152 151 151	27.7		74.1 125 126 126	63.2 139 137 137					73.5 117 116 116	62.7 129 126 126	
160	- B B2 BW						29.6				26.9				62.6 145 145 145	23.7		67.6 119 120 120	57.2 133 131 131	18				67.1 112 110 111	56.8 125 120 121	
170	- B B2 BW						25.5				23.2				57.3 139 140 140	20.1		61.9 113 113 114	51.9 127 127 126	14.6				61.3 107 106 106	51.5 120 115 115	14.1 148 146 147

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 315



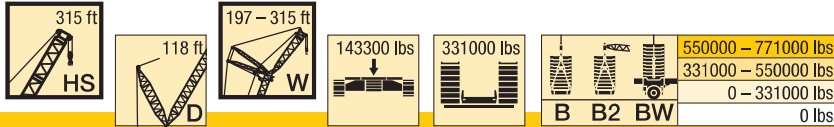
ft	B B2 BW	HS 315																							
		W 79				W 98				W 118				W 138				W 157				W 177			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
180	- B B2 BW											19.8 191 193 194				17 177 175 176				47.3 122 121 121	11.6 159 158 159		56.3 102 100 101	46.8 114 111 111	11.2 146 144 144
190	- B B2 BW			216 242 227								184 188 188				14.1 171 169 170				8.8 155 153 154		51.7 96.8 95.7 96.4	42.6 110 107 107	8.5 142 140 140	
200	- B B2 BW			206 227 214				193 222 209								165 164 165				151 149 149			38.7 105 103 103	138 136 136	
210	- B B2 BW							186 208 197				173 207 193								146 144 145				135 132 132	
220	- B B2 BW							178 196 186				167 195 183				154 183 176				141 141 142				131 128 129	
230	- B B2 BW											161 184 173				151 179 170				137 138 138				128 126 126	
240	- B B2 BW											155 173 164				147 171 161						134 158 154		125 123 123	
250	- B B2 BW															141 161 152						131 156 147		122 139 139	
260	- B B2 BW															136 153 145						127 148 139		119 139 136	
270	- B B2 BW																					122 140 132		116 136 130	
280	- B B2 BW																					118 133 126		112 131 124	
290	- B B2 BW																							109 123 117	
300	- B B2 BW																							105 117 111	

H

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 315



H

ft		HS 315																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
80	-	140																											
	B	141																											
	B2	141																											
	BW	141																											
85	-	137				124																							
	B	139				124																							
	B2	139				124																							
	BW	139				124																							
90	-	129				121																							
	B	136				122																							
	B2	137				122																							
	BW	137				123																							
95	-	122				116				105				92.6															
	B	134				120				106				93															
	B2	134				120				106				93.7															
	BW	135				121				106																			
100	-	115	99.9			110				103				92.1			79.3												
	B	132	139			118				104				92.5			79.3												
	B2	132	139			118				104				92.6			79.3												
	BW	132	139			118				104				92.6			79.3												
105	-	109	94.1			104	89.6			98.7				90.8			78.5				67.5								
	B	129	138			116	123			102				90.9			78.5				67.5								
	B2	130	137			116	121			102				91.2			78.5				67.5								
	BW	130	137			116	122			103				91.4			78.3				67.5								
110	-	103	88.8			98.5	84.4			93.2	77.5			88.2			77.1				66.6					56.8			
	B	127	135			114	121			100	105			89.6	92.6		77.1				66.6					56.8			
	B2	127	134			114	119			101	105			89.9			77.2				66.6					56.8			
	BW	127	134			114	120			101	105			90.1			77.2				66.6					56.8			
115	-	97.5	83.9			93.2	79.7			88	74.4			84	67.6		75.7				65.8					56.3			
	B	124	133			111	119			98.7	105			88.3	92.1		75.8				65.8					56.3			
	B2	125	132			112	118			99	104			88.6			76				65.8					56.3			
	BW	125	132			112	118			99.1	104			88.8			76.1				65.7					56.3			
120	-	92.4	79.3			88.2	75.2			83.2	70			79.3	66.1		73.7	60.9			64.6					55.6			
	B	122	131			109	117			97.2	103			87	91.6		74.5	78			64.7					55.6			
	B2	122	130			110	116			97.3	102			87.3	90.7		74.8	77.3			64.8					55.6			
	BW	122	130			110	116			97.4	102			87.4	90.9		74.8	77.4			64.8					55.6			
125	-	87.7	75.1			83.6	70.9			78.7	65.9			74.9	62.1		69.9	57			63.8	53				54.8			
	B	119	129			107	115			95.6	102			85.8	90.7		73.3	77.4			63.8	66.3				54.9			
	B2	119	127			107	114			95.6	101			86	89.6		73.6	76.4			63.7	65.6				54.9			
	BW	119	128			108	114			95.8	101			86	89.8		73.5	76.5			63.9	65.7				54.9			
130	-	83.3	71.1			79.3	67.1			74.5	62.1			70.8	58.4		65.9	53.4			61.5	49.4				54.1	43.8		
	B	117	127			105	114			94	101			84.4	89.8		72.2	76.6			62.8	65.7				54.1	55.8		
	B2	117	125			105	112			94	99.4			84.5	88.5		72.3	75.4			62.8	64.9				54.1	55.3		
	BW	117	125			106	112			94.2	99.5			84.5	88.7		72.2	75.5			63	64.9				54.2	55.3		
135	-	79.4	67.5			75.4	63.5			70.7	58.7			67.1	55		62.2	50.1			58.4	46.2				52	41.5		
	B	114	124			103	112			92.4	99			82.8	88.6		71.1	75.6			62	65.1				53.3	55.4		
	B2	114	122			103	110			92.4	97.8			82.8	87.3		71	74.4			61.9	64.2				53.3	54.8		
	BW	114	123			104	110			92.6	97.9			82.8	87.5		71	74.5			62	64.3				53.4	54.8		
140	-	75.5	64			71.7	60.1			67	55.3			63.5	51.7		58.7	46.9			54.9	43.1				49.6	38.5		
	B	111	122			101	110			90.8	97.4			81.2	87.6		70	74.7			61.1	64.5				52.4	54.9		
	B2	111	120			101	108			90.8	96.3			81.1	86.1		69.8	73.3			61	63.6				52.5	54.2		
	BW	112	120			101	108			91	96.3			81.1	86.3		69.8	73.4			61	63.6				52.5	54.2		
150	-	68.5	57.6			64.8	53.8			60.2	49.2			56.8	45.7		52.2	41			48.5	37.3				44.1	32.8		
	B	106	117			97	106			87.7	94.5			78.1	84.8		67.7	72.9			59.4	63.3				51	53.8		
	B2	107	115			97.2	104			87.6	93.2			77.8	83.4		67.3	71.2			59.4	63.3				50.9	52.9		
	BW	107	116			97.3	104			87.8	93.1			77.8	83.4		67.4	71.3			59.1	62				50.9	53		
160	-	62.2	51.8			58.6	48.2			54.1	43.7			50.8	40.3		46.3	35.7			42.7	32.1				38.4	27.7		
	B	102	113			93	102			84.4	91.6			75.1	81.8		65.4	70.8			57.6	61.9				49.5	52.8		
	B2	102	110			93.3	100			84.3	90.1			74.6	80.2		64.8	69			57.2	60.4				49.2	51.6		
	BW	102	111			93.2	100			84.4	90.1			74.7	80.3		65	69.2			57.2	60.3				49.3	51.7		
170	-	56.5	46.7			53	43.1			48.7	38.7			45.5	35.5		41	31			37.5	27.4				33.3	23.1		
	B	97.4	108	130		89.6	98.3			80.7	88.7			72.2	78.8		63.2	68.3			55.9	60.4				48	51.7		
	B2	97.7	106	130		89.6	96.2			80.9	87.1			71.7	76.9		62.5	66.8			55.3	58.7				47.6	50.3		
	BW	97.8	106	130		89.6	96.4			80.9	87.2			71.7	77.1		62.8	66.9			55.4	58.7				47.6	50.3		
180	-	51.5	42.1			48.1	38.7			43.9	34.3			40.8	31.2		36.4	26.8			32.9	23.3				28.8	19.1		
	B	93.2	104	129		85.8	95			77.1	85.7			69	76		61	66.2			54.1	58.4				46.5	50.4		
	B2	93.8	101	128		85.7	92.7			77	84			68.8	74.1		60.3	64.5			53.4	57				45.8	48.9		
	BW	94.1	102	129		85.9	92.9			77	84.1			68.8	74.2		60.5	64.7			53.5	56.9				45.8	48.9		
190	-	47	37.9			43.6	34.6			39.5	30.4			36.4	27.3		32.1	22.9			28.7	19.5				24.7	15.4		
	B	89																											

HSDWB/B2/BW

HS 315



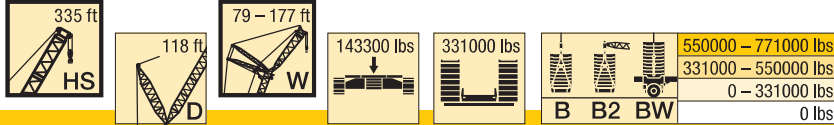
550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

ft		HS 315																											
		W 197				W 217				W 236				W 256				W 276				W 295				W 315			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
230	- B B2 BW		115 113 113		29.3 66.5 66.9 67.3	21.5 78 76.6 76.6	103 102 102		25.3 61.3 61.6 62.1	17.5 70.2 68.6 68.5	92.4 91.1 91.4		22.5 56.5 56.9 57	14.6 63.6 61.6 61.4	81.4 80.3 80.7		18.3 50.1 49.9 50.1	10.4 56.4 54.3 54.3	68.7 67.9 67.9		15.2 44.4 44.3 44.2	50.2 48.2 48.2	58.8 58.3 58.2		11.3 37.7 36 36	42.9 41.1 41.1	47.7 48.3 48.4		
240	- B B2 BW		112 110 111		74.3 73.9 73.8	101 99.2 99.7		22.5 58.2 58.5 58.9	14.9 67.3 66.2 66.2	90.6 89.1 89.3		19.7 54.3 54.7 54.9	12.1 61.6 59.8 59.7	79.8 78.3 78.6		15.6 48.2 48.4 48.5	54.6 51 52.5 52.5	67.9 66.9 66.9		12.4 42.5 42.3 42.3	48.5 46.5 46.4	58.5 57.8 57.7		35.6 34.5 34.5	41.1 39.3 37.8	48 48.2 48.2			
250	- B B2 BW		110 108 109	107 117		98.4 96.6 97		12.5 64.5 63.7 63.8	88.5 86.9 87.2		17.1 51.5 51.9 52.2	9.7 59.5 58 58	78.2 76.6 76.7		13 46.3 46.8 46.9	52.8 51 51	67.1 65.9 65.9		9.9 40.4 40.1 40.4	46.8 44.8 44.7	57.9 57.2 57.2		33.6 33.1 33.1	39.2 37.3 36.5	47.7 47.8 48				
260	- B B2 BW		107 106 106	106 120 120		96.7 95.3 95.5	93.9 92 99.6		10.3 61.7 61.5 61.4	86.6 84.8 85		14.7 48.7 49 49.4	7.6 57 56.2 56.1	76.1 74.8 74.9		10.6 43.5 43.9 44.2	51 49.5 49.5	65.9 64.6 64.6		7.5 38.3 38.2 38.5	44.6 42.8 42.8	57.2 56.4 56.5		32.3 32 32	37.3 35.3 35.1	47 47.3 47.5			
270	- B B2 BW		104 103 103	104 121 121		94.6 93.5 93.6	93.5 102 103		8.5 83.2 83.2		45.7 45.9 46.4	54.8 54.3 54.3	74.3 72.8 72.9		40.2 40.7 41	48.8 48 47.9	64.5 63.3 63.3		36 36.2 36.5	43.3 40.8 40.9	56.4 55.5 55.5		31 30.9 30.9	35.6 33.9 33.9	46.5 46.8 46.9				
280	- B B2 BW			102 121 119		92.3 91.3 91.4	92.5 104 104		83.4 81.7 81.7	79.8 86.9 87		52.3 52.4 52.4	72.8 71 71.1		37 37.4 37.8	47 46.4 46.3	63.1 61.8 62		33.7 33.9 34.2	41.8 39 39	55.4 54.4 54.5		29.5 29.6 29.8	34.1 32.8 32.8	46 46.1 46.2				
290	- B B2 BW			99.2 119 114		91.1 105 105		81.5 79.8 79.9	79.1 88.8 88.9		71.5 69.5 69.5	68.6 72.2 72.3		44.8 44.7 44.5	61.8 60.4 60.5		31.3 31.5 31.7	39.9 37.2 37.2	54.3 53.2 53.3		27.9 28.1 28.4	32.9 31.7 31.8	45.4 45.3 45.3						
300	- B B2 BW			96.6 115 108		89.4 105 104		78.6 76.7 76.9	78.1 89.8 90.1		70.4 68.1 68.3	68.3 74.3 74.3		41.3 43.1 42.9	60.7 59 59.2	49.8 58.1 53.8		28.8 29.1 29.3	37.5 35.9 35.9	53.3 52.1 52.1		25.4 25.8 26	31.8 30.6 30.7	44.7 44.4 44.4					
310	- B B2 BW			93.6 110 103		87.2 104 99.3		76.9 75.2 75.3	76.7 90.3 90.6		68.7 66.6 66.8	67.8 75.7 75.7		59.7 57.9 58	57.7 60.8 60.9		26.3 26.5 26.8	35 34.4 34.5	52.3 51 51		23.1 23.4 23.7	30.2 29.3 29.5	44 43.4 43.5						
320	- B B2 BW			91.1 105 98.2		84.9 102 94.8		75 90.2 89.4		66.7 65.2 65.3	66.8 76.5 76.6		58.7 56.8 56.9	57.5 62.3 62.3		32.3 32.5 32.8	51.4 50 49.9	48.7 50.5 50.5		20.8 21 21.4	28.4 28 28.3	43.2 42.5 42.5	34.1 35.5 35.6						
330	- B B2 BW					82.4 97.7 90.8		72.9 89.6 86.3		65.5 65.5 65.5	66.8 76.9 76.8		57.6 55.8 55.9	57 63.4 63.4		50.5 48.8 48.8	49.2 51.8 51.8		26.6 26.5 27	42.2 41 41.2	35 36.6 36.7								
340	- B B2 BW					78.5 93.2 87.2		70.8 87.2 81.8		64.2 77.1 75.6	64.2 75.7 75.6		56.6 54.9 55.1	56.2 63.9 64.1		49.7 47.8 47.9	49 52.9 52.9		24.2 24.9 25.1	40.7 39.2 39.4	35.7 37.4 37.4								
350	- B B2 BW							68.8 83.5 77.4		62.7 76.1 73.2	62.7 76.1 73.2		55.8 54.4 54.5	55.1 64.1 64.1		48.9 47.2 47.3	48.5 53.7 53.7		39.3 37.5 37.6	36.4 38 38.2									
360	- B B2 BW							67.1 79.5 73.5		61.2 74.3 70	61.2 74.3 70		54 64.1 63.6		48 46.4 46.5	47.8 54.3 54.3		38.4 36.6 36.7	36.7 39.2 38.8										
370	- B B2 BW									59.6 71.7 66.6	59.6 71.7 66.6		52.9 64 62.2		47 54.6 54.7		37.8 36.3 36.4	36.7 40.8 39.4											
380	- B B2 BW									58.3 68.6 63.6	58.3 68.6 63.6		51.7 63.9 59.6		46 54.7 54.8		37.1 35.8 36	36.4 42 40.2											
390	- B B2 BW												50.5 61.6 57		45 54.8 53.1		37.1 35.7 35.9	35.8 42.4 41.7											
400	- B B2 BW												49.6 59.2 54.6		44 54.3 51.2		35.1 42.8 41.8												
410	- B B2 BW														42.7 53.1 49.2		34.4 43.1 40.9												
420	- B B2 BW																33.6 43.1 39.4												
430	- B B2 BW																32.9 41.2 37.5												
440	- B B2 BW																32.4 39.5 36												

H

HSDWB/B2/BW

HS 335



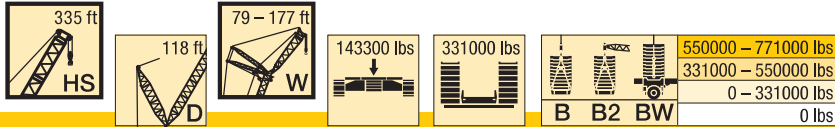
H

ft		HS 335																									
		W 79				W 98				W 118				W 138				W 157				W 177					
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°		
55	- B B2 BW	247 262 263 263																									
60	- B B2 BW	228 256 257 257				221 230 231 231																					
65	- B B2 BW	212 249 249 250	261 264 264			205 225 226 226				195 202 202 203				181 182 182 183													
70	- B B2 BW	198 241 242 242	171 256 258 258			192 219 220 220				184 198 198 199				175 178 179 179													
75	- B B2 BW	185 234 235 235	165 250 251 251			179 213 213 214	159 227 227 228			172 193 193 194				166 175 175 175							156 157 156 157						
80	- B B2 BW	174 227 228 228	155 244 244 244			168 207 207 208	149 222 222 222			161 187 188 188	142 199 200 200			156 171 171 171							151 154 153 154			138 139 140 140			
85	- B B2 BW	163 220 221 221	145 237 237 237			158 201 201 202	140 216 216 216			152 182 183 183	133 196 196 196			147 166 167 167	128 176 177 177						142 151 150 150			136 137 137 138			
90	- B B2 BW	154 214 216 216	137 231 230 231			149 195 195 196	132 211 210 210			143 178 178 178	126 191 191 191			138 162 163 163	121 174 174 174						134 148 147 147			129 134 135 135			
95	- B B2 BW	146 209 211 211	129 226 223 224			141 189 190 190	124 206 204 205			135 173 173 173	118 186 186 186			131 158 159 159	114 171 170 169						126 144 143 143	110 154 152 152			122 131 132 132		
100	- B B2 BW	122 220 217 218	115 220 213 214			134 184 185 185	118 201 198 199			128 168 168 168	112 182 180 181			123 154 155 155	107 167 166 165						119 141 140 140	103 151 149 149			116 129 129 129	99.4 136 136 136	
105	- B B2 BW	115 215 213 214	115 215 213 214			127 179 181 181	111 196 192 193			121 163 164 164	106 178 176 176			117 150 151 151	101 163 162 162						113 137 136 136	97.5 148 146 146			109 126 126 126	93.7 134 134 134	
110	- B B2 BW	109 210 208 209	109 210 208 209			120 175 177 176	106 191 187 187			115 159 159 159	100 174 171 171			111 146 146 147	95.9 159 157 157						107 134 133 133	92.2 146 142 143			104 123 123 123	88.6 132 131 131	
115	- B B2 BW	115 171 172 172	100 186 183 183			115 171 172 172	100 186 183 183			109 155 155 156	94.8 170 167 167			105 143 143 143	90.9 155 153 153						102 131 129 130	87.3 142 139 139			98.3 120 120 120	83.8 130 128 128	
120	- B B2 BW	95.1 182 179 179	95.1 182 179 179			95.1 182 179 179	95.1 182 179 179			104 151 152 152	90 166 162 162			100 139 139 139	86.2 152 149 149						96.7 128 126 126	82.7 139 135 136			93.4 117 117 117	79.4 127 126 126	
125	- B B2 BW	44 240 237 237	44 240 237 237			44 178 175 175	90.4 196 192 193			99 148 149 149	85.4 162 158 158			95.4 136 135 135	81.8 149 145 146						91.9 125 123 123	78.4 136 132 132			88.7 114 114 114	75.2 125 123 123	
130	- B B2 BW	41.2 236 232 233	41.2 236 232 233			41.2 236 232 233	86.1 211 209 209	36.8 211 209 209		94.4 144 146 145	81.3 158 154 155			90.9 133 132 132	77.8 145 142 142						87.6 122 120 120	74.5 133 129 129			84.4 112 111 111	71.3 122 120 120	
135	- B B2 BW	38.6 232 227 228	38.6 232 227 228			38.6 232 227 228	35 209 206 206			77.5 155 151 151	77.5 155 151 151			86.9 130 130 130	74.1 142 138 138						83.6 119 117 117	70.8 130 126 126			80.5 109 109 109	67.8 119 117 117	
140	- B B2 BW	36 227 222 223	36 227 222 223			36 227 222 223	32.6 205 202 202			73.8 152 148 148	25.4 182 179 179			83 127 127 127	70.6 139 135 135						79.7 116 114 114	67.3 127 122 123			76.8 107 106 106	64.4 116 114 114	
150	- B B2 BW	31.3 218 213 213	31.3 218 213 213			31.3 218 213 213	28.2 198 194 194			19.5 179 176 176	19.5 179 176 176			75.9 121 122 122	64.1 133 130 130						72.7 111 109 109	60.9 121 116 117			69.8 102 101 101	58.1 111 108 109	
160	- B B2 BW	20.5 191 186 186	20.5 191 186 186			20.5 191 186 186	24.2 191 186 186			16.1 173 169 169	16.1 173 169 169			53 128 125 125	13 157 154 155						66.3 106 105 104	55.2 116 111 111	13 141 138 138			63.6 97.7 96.6 96.7	52.5 107 103 103
170	- B B2 BW	20.5 186 181 181	20.5 186 181 181			20.5 186 181 181	20.5 186 181 181			16.1 167 162 162	16.1 167 162 162			119 124 119 119	148 152 148 149						60.6 101 99.7 99.8	9.9 50 107 107			58 93.3 93.3	47.5 102 98.5 98.7	

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

HS 335

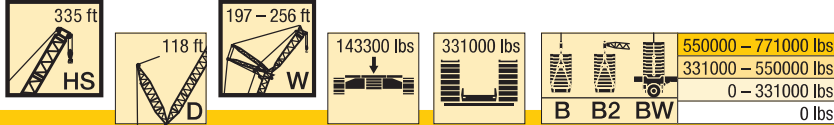


ft		HS 335																							
		W 79				W 98				W 118				W 138				W 157				W 177			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
180	- B B2 BW											13.1 161 157 157				10.2 148 143 143				45.5 108 102 102	134 129 129		53.2 89.5 89.8 89.7	43 98.8 95.3 95.6	121 119 119
190	- B B2 BW											157 151 152				142 137 137					130 124 125		48.7 85.9 86.3 86.3	39 95.6 91.8 92.2	118 115 115
200	- B B2 BW			187 213 206												137 132 132					125 120 120		35.2 92.5 88.2 88.5	114 111 111	
210	- B B2 BW								168 193 190												121 115 115				111 107 107
220	- B B2 BW								162 185 179			148 167 167				76.2 147					118 112 113				107 102 103
230	- B B2 BW								156 176 170			145 165 163				134 146 147					114 108 109				104 99.5 100
240	- B B2 BW											140 160 156				130 145 146							118 127 127		102 97.2 97.5
250	- B B2 BW															127 143 143							116 126 126		105 111 111
260	- B B2 BW															122 139 137							113 124 124		103 111 111
270	- B B2 BW															118 133 130							110 121 122		101 110 110
280	- B B2 BW																						106 118 118		98.5 108 108
290	- B B2 BW																								95.8 106 106
300	- B B2 BW																								92.9 104 104
310	- B B2 BW																								90.6 103 101

H

HSDWB/B2/BW

HS 335



H

ft		HS 335																
		W 197				W 217				W 236				W 256				
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	
80	B B2 BW	122																
85	B B2 BW	122 122 122 123				108 108 108 108												
90	B B2 BW	119 120 120 120				107 107 107 107												
95	B B2 BW	115 117 118 118				104 105 105 105				92.7 92.7 92.7 92.7								
100	B B2 BW	109 115 115 115	93.2 121			102 103 103 103				90.8 91.3 91.4 91.4				80.3 80.2				
105	B B2 BW	103 112 113 113	87.7 119 119 119			98.9 101 101 101	83.2 106 106 106			89.5 89.6 89.9 90.1				78.8 78.7				
110	B B2 BW	97.8 110 110 110	82.7 117 117 117			93.5 98.7 99.1 99.1	78.4 104 104 104			87.2 88 88.3 88.6	71.6 91.6 91.8 91.9			77.4 77.5				
115	B B2 BW	92.7 107 108 108	78.1 115 115 115			88.4 96.8 97 97.2	73.8 103 103 103			83.3 86.5 86.8 87	68.6 90.7 90.9 91			76 76.2				
120	B B2 BW	87.8 105 105 105	73.7 114 112 113			83.7 94.9 95.1 95.2	69.6 101 101 101			78.7 84.9 85.1 85.3	64.5 89.3 89.6 89.7			74.6 74.8	78.1 78.2			
125	B B2 BW	83.3 103 103 103	69.6 112 110 110			79.2 93.1 93.1 93.3	65.6 99.7 98.8 99			74.3 83.1 83.3 83.5	60.6 88.3 88.2 88.2			73.1 73.2	76.9 77.1			
130	B B2 BW	79.1 100 100 101	65.9 110 108 108			75.1 91.2 91.1 91.3	61.9 98.2 96.9 97.2			70.3 81 81.2 81.4	57 87.1 86.7 86.8			71.7 71.7	75.6 75.9			
135	B B2 BW	75.3 98.4 98.1 98.4	62.5 107 105 105			71.4 89.3 89.3 89.2	58.5 96.7 95.2 95.4			66.6 79.1 79.1 79.3	53.7 85.8 85.1 85.2			70.2 70.2	74.3 74.5			
140	B B2 BW	71.6 96.3 95.9 96.1	59.1 105 103 103			67.8 87.6 87.4 87	55.3 95 93.4 93.5			63.1 77.1 77 77.3	50.5 84.5 83.5 83.7			68.7 68.7	72.9 73.1			
150	B B2 BW	64.8 92.4 91.6 91.8	53 101 98.4 98.4			61.1 84.2 83.8 82.7	49.3 91.5 89.6 89.7			56.6 73.8 73.3 73.6	44.7 81.3 79.7 79.9			65.7 65.7	70.2 70.3			
160	B B2 BW	58.7 88.8 87.7 87.7	47.5 96.5 93.9 94.1			55.1 80.6 79.9 78.4	43.9 87.8 85.5 85.9			50.7 70.7 70 70.2	39.4 77.8 75.7 75.9			62.9 62.9	67.5 67.5			
170	B B2 BW	53.3 85 83.8 83.7	42.6 92.8 89.9 89.9	108 107 107		49.8 76.7 75.5 74.8	39.1 84.4 80.7 82.3			45.4 67.6 66.7 66.8	34.7 74.2 72.1 72.2			60.3 60.4	64.8 64.7			
180	B B2 BW	48.5 81 80.3 80.2	38.3 89.3 86.1 86	106 105 105		45 72.9 71.4 71.4	34.8 80.8 76.9 78			40.8 65 63.7 63.9	30.5 71.1 68.7 68.8			57.8 57.8	62.2 62.1			
190	B B2 BW	44.1 77.1 76.8 76.7	34.3 86.2 82.4 82.5	104 102 102		40.7 69.7 68.4 68.6	30.9 77.1 73.4 73.8	92.8 91.2 91.4		36.5 62.4 60.8 61	26.7 68.3 65.6 65.6			55.3 55.4	59.5 59.6			
200	B B2 BW	40.1 73.2 73.4 73.3	30.6 83.3 78.8 79.2	102 99.3 99.1		36.7 66.8 66 66.1	27.4 73.8 70.3 70.1	90.8 89.2 89.4		32.6 59.9 58.4 58.5	23.2 65.7 62.7 62.8	79.4 77 77.1		53 53	56.8 57.1	66.9 66.9		
210	B B2 BW		27.3 80.1 75.3 75.8	98.9 95.8 96.1		33.1 63.9 63.5 63.6	24.1 71.3 67.8 67.7	88.9 86.9 87.1		29 57.6 56.5 56.6	20 63 59.8 59.9	77.6 75.3 75.5		50.7 50.6	54.5 54.6	65.7 65.8		
220	B B2 BW		24.3 76.7 71.9 72.2	96.1 92.7 92.8		29.8 60.9 60.9 61	21.1 68.8 65.3 65.3	86.8 83.8 84.3		25.8 55.3 54.7 54.7	17.1 61 58.1 58.2	75.3 73 73.2		49.1 49	52.3 52.2	64.3 64.4		

TAB 181391 / 181393 / 181397

HSDWB/B2/BW

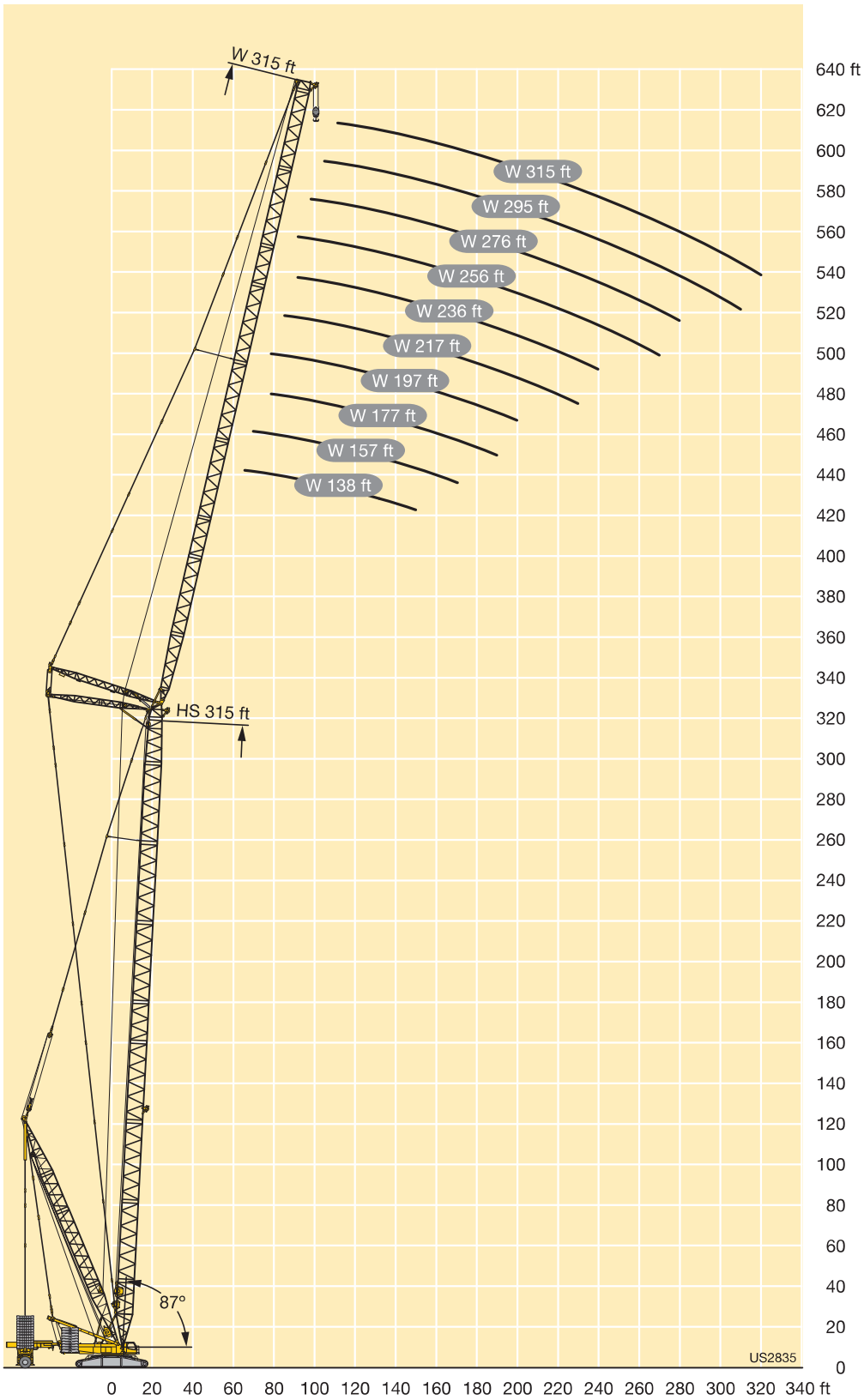
HS 335

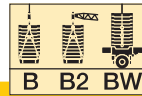


550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

ft		HS 335															
		W 197				W 217				W 236				W 256			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
230	- B B2 BW			93.4 89.4 89.7		26.9 58.3 58.5 58.6	18.4 66.4 62.7 62.7	84.6 80.3 80.9		22.9 52.5 52.7 52.6	14.4 59.1 56.4 56.4	73.3 70.6 70.9		47.4 47.3	50.5 50.4	62.7 62.8	
240	- B B2 BW			91 86.7 87.2			64.3 60.2 60.2	81.9 77 77.4		20.1 50.2 50.5 50.6	11.9 57.2 54.5 54.4	71.2 68.2 68.6		45.4 45.2	48.9 48.9	61 61.1	
250	- B B2 BW			88.8 85 85.4				78.7 74.4 74.5			9.6 55.4 52.2 52.2	69.1 65.8 66.1		42.7 42.7	47.3 47.4	59.2 59.3	
260	- B B2 BW			86.9 82.5 82.7	91.4 88.4 95.1			76.2 72.6 72.6			53.7 50 50.1	67 63.6 63.8		39.9 39.9	44.6 45.6	57.3 57.6	
270	- B B2 BW			84.5 78.8 79	90.6 95.2 95.3			74.5 70.9 70.9				65.2 61.8 61.9		37.8 37.9	41.5 43.7	55.4 55.7	
280	- B B2 BW				89.1 94.7 94.8			72.7 68.7 68.7	78.1 82.7 82.7			63.6 60.3 60.5			39.1 41	53.7 54	
290	- B B2 BW				87.2 93.6 93.7				76.8 82.4 82.6			62.3 59.1 59.3	66.3 68.2 68.1			52.2 52.5	
300	- B B2 BW				85.2 92.1 92.4				75.3 81.3 82.1			60.7 57.2 57.5	65.7 68.3 68.4			51.2 51.3	57.2 52.1
310	- B B2 BW				82.2 90.5 90.7				73.5 79.6 80.7			59.2 55.2 55.5	64.7 68 68.1			49.9 50	58.3 58.4
320	- B B2 BW				79.2 89.7 89.2				71.6 78 78.7				63.5 67.4 67.5			48.5 48.5	58.3 58.3
330	- B B2 BW								69.5 76.6 76.7				62.1 66.5 66.6				58.1 58.1
340	- B B2 BW								67.3 76.1 75.4				60.5 65.4 65.6				57.6 57.7
350	- B B2 BW								65.6 76 74.1				59 64.2 64.6				56.9 56.9
360	- B B2 BW												57.5 63.7 64.2				56 56.1
370	- B B2 BW																55.2 55.5
380	- B B2 BW																55.2 55.5
390	- B B2 BW																55.2 55.1

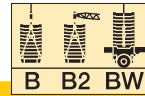
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550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft	Diagram	HS 138				HS 157				HS 177				HS 197			
		D 98				D 118				D 118				D 118			
		W 39		W 59		W 39		W 59		W 39		W 59		W 39		W 59	
		12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°
45	-	425				421				404							
	B	1049				1001				936							
	B2	1120				1045				977							
50	BW	1091				1028				962							
	-	382				379				364							
	B	995				968				912							
55	B2	1067				1016				955							
	BW	1048				995				938							
	-	336	343	335		334	342	332		320	328	320		308			
60	B	927	931	824		928	919	812		881	866	793		816			
	B2	1000	1004	839		978	967	821		926	909	803		853			
	BW	994	992	837		953	946	818		906	894	806		846			
65	-	297	303	297	307	295	302	295	305	283	290	284		272	280	274	
	B	859	859	809	839	886	882	809	820	846	838	786		794	784	714	
	B2	931	931	847	886	937	931	825	858	895	885	808		831	823	745	
70	BW	938	941	848	880	910	907	817	845	872	864	810		823	811	738	
	-	264	270	266	275	263	269	264	273	252	259	253	260	242	249	244	251
	B	793	796	784	790	840	844	797	796	811	809	765	748	769	762	700	675
75	B2	860	864	846	852	892	894	831	841	861	858	798	786	813	805	734	704
	BW	880	882	850	857	861	866	817	820	836	833	792	772	798	789	721	700
	-	237	242	239	247	236	242	237	246	226	232	228	237	217	223	220	229
80	B	736	736	736	736	793	796	770	770	771	773	740	729	739	738	681	665
	B2	800	799	797	798	844	846	814	817	820	822	783	771	785	784	719	698
	BW	824	821	807	817	809	814	793	788	791	793	769	752	766	766	704	688
85	-	213	218	216	223	212	217	214	222	203	208	205	214	194	200	197	206
	B	686	685	685	687	748	748	735	738	729	732	710	707	706	707	660	650
	B2	745	744	742	746	798	798	782	786	778	781	756	753	753	755	702	687
90	BW	770	766	758	767	760	762	755	753	744	749	736	728	728	733	684	673
	-	192	196	195	202	191	196	194	201	182	187	185	193	174	180	178	186
	B	640	641	638	643	704	703	694	700	689	691	676	681	671	673	638	632
95	B2	696	698	692	699	752	752	741	748	736	739	721	730	718	718	681	671
	BW	718	716	711	712	714	713	709	713	700	703	696	700	688	692	660	654
	-	173	177	177	183	172	177	175	182	164	168	167	174	157	161	160	168
100	B	594	598	601	601	661	662	655	658	652	651	641	646	637	638	614	612
	B2	646	652	653	654	707	708	701	704	696	697	685	692	683	682	656	651
	BW	666	667	670	662	671	672	666	669	661	661	656	662	648	651	633	632
105	-	157	161	161	167	156	160	159	166	148	152	152	158	141	146	145	152
	B	557	559	565	567	618	621	621	621	615	616	609	611	604	605	590	588
	B2	607	611	614	617	662	665	665	664	657	659	651	654	649	648	631	627
110	BW	622	622	629	625	627	631	631	631	623	625	620	623	615	616	605	604
	-	143	146	147	152	142	145	145	151	134	138	138	144	127	131	131	138
	B	523	525	529	534	581	583	587	587	578	580	578	579	572	574	565	564
115	B2	570	574	575	581	622	624	629	629	618	621	619	620	615	614	604	602
	BW	581	582	588	588	589	592	596	597	586	588	587	589	582	583	577	577
	-	130	132	134	139	128	132	132	137	121	124	125	130	115	118	119	125
120	B	491	493	496	502	548	550	553	556	543	546	548	549	540	543	540	539
	B2	535	541	540	546	588	589	593	596	581	584	587	588	581	582	577	576
	BW	541	543	550	553	556	558	561	565	550	553	557	558	550	551	550	549
125	-	117	119	122	126	116	119	120	125	109	112	113	118	103	106	107	113
	B	458	461	469	473	520	521	519	525	512	513	518	521	508	512	513	514
	B2	500	507	511	515	558	559	557	562	549	550	555	559	546	549	549	550
130	BW	501	504	518	520	527	529	526	533	519	520	526	530	517	519	522	524
	-	105	107	111	115	106	108	109	114	98.5	101	103	107	92.5	95.6	96.8	102
	B	432	435	443	448	491	493	494	497	488	489	488	494	480	482	487	489
135	B2	471	477	482	488	527	529	531	532	523	524	524	529	517	518	521	524
	BW	471	474	487	490	498	500	502	504	494	495	496	501	488	489	495	498
	-	95.2	96.9	101	104	95.8	98.2	99.6	104	88.8	91.4	92.9	97.5	82.9	85.8	87.3	92.2
140	B	408	410	417	424	465	466	471	473	463	464	464	467	456	458	461	465
	B2	443	448	453	460	499	500	506	507	496	498	498	501	492	493	493	498
	BW	443	445	456	461	471	473	478	479	469	470	471	474	464	465	468	472
145	-	86.3	87.7	91.9	94.8	86.7	88.8	90.6	94.4	79.8	82.3	84	88.2	74.1	76.8	78.5	83.1
	B	384	386	393	401	441	442	448	450	438	440	442	444	435	437	437	440
	B2	415	419	426	434	475	475	481	483	470	472	475	477	469	470	467	472
150	BW	416	418	427	433	447	449	454	457	444	446	449	450	443	443	443	447
	-	78.1	79.3	83.7	86.3	78.2	80.1	82.2	85.8	71.5	73.7	75.7	79.7	65.9	68.3	70.3	74.6
	B	360	362	373	379	422	423	425	428	414	416	422	424	414	415	416	417
155	B2	388	391	403	410	454	454	456	460	444	447	454	456	446	447	446	448
	BW	388	390	403	407	427	429	431	434	419	421	429	430	421	422	422	424
	-	69	70.2	74.8	77.4	69.9	71.5	74.6	77.9	64	66	68.2	71.9	58.4	60.7	62.9	66.9
160	B	339	341	354	360	402	403	404	406	396	397	402	405	392	394	398	400
	B2	364	366	381	388	433	434	434	437	426	428	432	435	423	425	427	430
	BW	364	366	381	386	407	409	410	411	401	403	408	410	399	400	404	406
165	-	62.2	63.2	67.9	70.2	63.2	64.5	67.8	70.9	57.2	59.1	61.5	64.9	51.7	53.8	56.2	59.9
	B	320	322	335	341	383	385	386	38								



550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

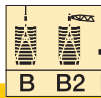
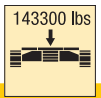
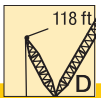
ft		HS 138				HS 157				HS 177				HS 197			
		D 98								D 118							
		W 39		W 59		W 39		W 59		W 39		W 59		W 39		W 59	
		12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°
140	-	56.2	57	61.7	63.6	57	58.1	61.3	64.1	50.7	52.4	55	58.2	45.3	47.2	49.7	53.2
	B	302	304	316	322	365	367	370	372	362	363	366	368	358	359	362	365
	B2 BW	320	322	338	345	393	395	399	401	390	391	395	397	387	388	390	393
150	-	44.7	45.2	50.3	51.9	45.2	46	49.4	51.8	39	40.3	43.2	45.9	33.6	35.2	38	41.1
	B	265	267	282	288	331	334	339	340	331	331	335	337	327	328	331	334
	B2 BW	278	279	299	305	357	360	366	368	357	358	362	363	354	355	357	359
160	-	34.2	34.3	40.1	41.6	34.3	34.8	39	40.9		29.6	32.8	35.1			27.6	30.3
	B	227	228	252	257	299	303	308	311	302	303	307	309	300	300	304	306
	B2 BW	237	238	264	269	322	326	333	336	326	328	333	335	324	325	329	330
170	-	25.1	24.8	30.8	31.9	25	25.3	29.8	31.4		20.3	23.6	25.5			18.5	20.8
	B	194	195	221	226	266	268	281	285	278	278	281	283	274	275	279	281
	B2 BW	198	198	229	234	287	290	304	308	301	302	305	307	298	299	303	304
180	-			22.9	23.4			21.8	23								
	B			187	193	229	230	254	257	253	252	260	262	253	254	257	258
	B2 BW			198	203	251	252	274	279	274	274	282	285	276	276	279	280
190	-			162	163	198		225	227	224	224	240	241	233	232	238	239
	B			165	168	212		244	248	245	244	260	263	254	254	258	260
	B2 BW			166	167	211		242	243	235	237	246	246	238	238	242	243
200	-							194	195	193	194	218	219	211	210	220	221
	B							214	216	214	214	237	239	232	231	240	241
	B2 BW							213	215	210	213	225	226	218	219	224	225
210	-											192	194	187	189	203	202
	B											211	214	207	209	221	221
	B2 BW											205	207	200	203	207	207
220	-											165	167	163	163	183	183
	B											185	187	182	183	200	201
	B2 BW											184	185	181	181	190	193
230	-											142		136		162	164
	B											156		154		179	181
	B2 BW											156		154		174	178
240	-															140	142
	B															157	158
	B2 BW															156	159

Further lengths on request - Autres longueurs sur demande

TAB 181470 / 181472 / 181476

HSDWVB/B2/BW

S 217 - 295

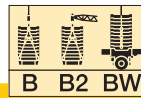
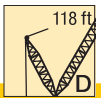


550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		S 217				S 236				S 256				S 276				S 295	
		D 118				D 118				D 118				D 118				D 118	
		W 39		W 59		W 39		W 59		W 39		W 59		W 39		W 59		W 59	
		12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°
55	-	298				288													
	B	733				652													
	B2 BW	764 761				673 674													
60	-	263	271	264		254	262	255		246				236					
	B	723	706	636		646	623	567		562				502					
	B2 BW	757 750	735 729	661 661		672 673	646 650	580 581		573 574				515 515					
65	-	234	241	236	243	226	234	228		219	222	217		210	214	209		199	
	B	703	694	634	601	640	625	562		558	545	482		500	488	436		392	
	B2 BW	740 730	727 716	661 662	617 623	668 666	650 651	580 581		567 569	557 557	489 489		515 516	497 501	429 443		399 399	
70	-	210	216	211	221	203	209	204		195	202	198		188	194	190		181	
	B	682	677	626	603	631	617	553		551	540	478		492	487	435		391	
	B2 BW	724 710	713 701	655 652	626 627	662 656	647 644	575 573		563 563	553 551	487 486		508 514	501 501	446 446		398 399	
75	-	188	194	190	199	181	187	184	193	175	181	177	187	168	174	170	180	162	
	B	660	658	616	598	620	609	550	527	545	535	473	459	488	481	432	417	388	
	B2 BW	703 686	696 682	648 640	625 623	654 643	643 636	574 572	549 551	557 558	549 547	482 482	467	467	506 511	499 499	445 444	427 428	398 398
80	-	168	174	171	179	162	168	165	173	156	162	159	168	150	155	153	162	144	
	B	637	636	604	588	605	599	551	523	537	530	467	456	486	477	429	416	386	
	B2 BW	680 658	676 658	638 625	621 614	642 627	635 624	574 574	547 551	543 550	543 543	477 478	463 464	457	507 507	496 497	441 441	427 427	397 398
85	-	151	156	154	161	145	151	148	156	140	145	143	151	134	139	137	145	129	
	B	614	612	586	579	586	582	546	527	522	521	462	452	480	473	425	410	385	
	B2 BW	656 629	653 629	622 605	616 603	624 605	620 603	570 569	552 553	538 534	536 534	473 474	460 460	460	503 502	493 494	439 440	423 426	397 397
90	-	136	141	139	146	131	135	134	141	125	130	129	136	119	124	123	131	115	
	B	589	588	567	561	567	563	533	523	517	513	455	448	468	462	421	409	383	
	B2 BW	631 601	629 601	603 582	600 582	606 583	602 581	560 552	549 548	536 533	530 528	467 466	456 457	456	497 488	486 483	436 437	424 424	396 397
95	-	122	126	125	132	117	122	120	127	112	117	115	123	107	111	110	117	102	
	B	563	562	547	542	546	544	519	512	509	504	449	441	461	452	411	406	379	
	B2 BW	603 572	603 572	585 560	581 559	586 560	584 558	549 535	541 535	531 527	524 521	462 461	452 451	451	491 485	482 480	432 431	420 421	393 395
100	-	110	114	113	119	105	109	108	115	100	104	104	110	94.8	99.1	98.3	105	90.8	
	B	535	535	526	523	524	524	505	499	497	494	444	435	454	447	404	399	374	
	B2 BW	573 543	574 544	564 536	561 536	563 535	563 518	538 518	529 517	521 516	516 511	455 457	447 445	447	484 486	478 478	427 425	417 417	391 393
105	-	98.2	102	101	107	93.6	97.4	96.9	103	89.1	93	92.5	98.8	83.9	88	87.5	94	80.2	
	B	506	508	503	503	500	500	490	485	480	482	438	432	446	441	397	390	368	
	B2 BW	544 514	545 516	541 513	540 512	537 510	538 501	527 499	518 499	506 499	505 498	449 451	443 443	443	478 480	472 473	422 423	414 409	393 394
110	-	88	91.3	91.3	96.8	83.6	87.1	87	92.7	79.2	82.9	82.7	88.6	74.3	78.1	77.9	84	70.8	
	B	478	481	480	481	475	476	470	470	460	462	430	427	433	431	392	384	362	
	B2 BW	514 485	516 488	516 489	517 490	511 484	512 485	506 480	504 481	486 476	486 477	442 443	438 438	438	464 462	461 461	417 418	409 408	392 393
115	-	78.6	81.7	81.9	87.1	74.3	77.6	77.8	83.1	70.1	73.5	73.6	79.2	65.3	68.8	69	74.8	61.9	
	B	452	455	457	459	451	452	450	451	440	442	417	418	418	417	385	379	356	
	B2 BW	486 458	487 461	491 465	494 467	485 459	487 460	484 459	485 461	467 454	468 455	431 430	431 429	431	448 444	448 444	411 410	405 405	391 392
120	-	69.8	72.7	73.2	78.1	65.7	68.7	69.2	74.2	61.6	64.8	65.2	70.4	56.9	60.3	60.7	66.1	53.7	
	B	429	431	433	437	426	428	429	432	420	422	403	406	402	402	377	373	350	
	B2 BW	462 435	462 437	467 441	470 444	459 434	461 436	462 437	464 440	448 431	449 433	420 415	421 417	421	433 424	432 425	402 400	399 398	387 388
125	-	61.7	64.3	65.1	69.7	57.7	60.5	61.2	65.9	53.7	56.7	57.3	62.3	49.2	52.3	52.9	58.1	46	
	B	410	412	410	415	403	405	409	412	400	402	389	392	387	388	366	364	342	
	B2 BW	442 416	443 417	443 417	447 422	435 410	436 411	440 416	443 420	428 409	430 411	408 399	409 402	409	417 405	417 406	392 386	391 387	380 379
130	-	54.3	56.7	57.8	62	50.4	53	53.9	58.4	46.5	49.3	50.1	54.8	42.1	45	45.8	50.7	39	
	B	392	393	391	394	387	388	388	392	380	382	375	378	372	373	356	355	334	
	B2 BW	422 397	423 398	422 398	424 400	417 393	419 394	418 395	422 399	409 387	412 389	396 384	398 387	398	401 385	402 387	381 373	381 374	370 365
135	-	47.6	49.9	51.1	55.1	43.8	46.3	47.4	51.6	40	42.6	43.6	48.1	35.7	38.4	39.4	44.1	32.7	
	B	373	375	374	377	370	372	371	375	364	366	361	363	357	359	345	345	326	
	B2 BW	402 378	403 379	405 381	406 383	399 376	401 377	400 377	404 377	392 381	392 370	395 372	386 369	386	386 368	387 369	371 360	371 361	359 352
140	-	41.2	43.3	44.7	48.5	37.5	39.8	41	45	33.7	36.2	37.3	41.5	29.5	32.1	33.2	37.6	26.5	
	B	354	356	359	361	354	355	355	358	349	351	347	349	343	344	335	335	317	
	B2 BW	382 359	383 360	388 365	390 367	382 359	383 360	383 361	386 364	377 355	379 357	372 354	374 357	374	371 351	373 353	361 347	361 349	349 339
150	-	29.6	31.4	33.1	36.4	26	27.9	29.5	33.1	24.5	25.9	29.7		22	25.9				
	B	323	325	327	330	322	323	325	328	319	321	321	322	315	317	313	315	301	
	B2 BW	349 328	350 328	354 333	357 335	348 327	350 328	352 331	354 333	346 325	348 326	347 327	349 329	342	344 323	339 321	341 323	329 313	330 316
160	-	297	298	298	301	294	295	298	300	291	293	295	297	289	290	291	294	283	
	B	322	323	323															

HSDWVB/B2/BW

S 217 - 295

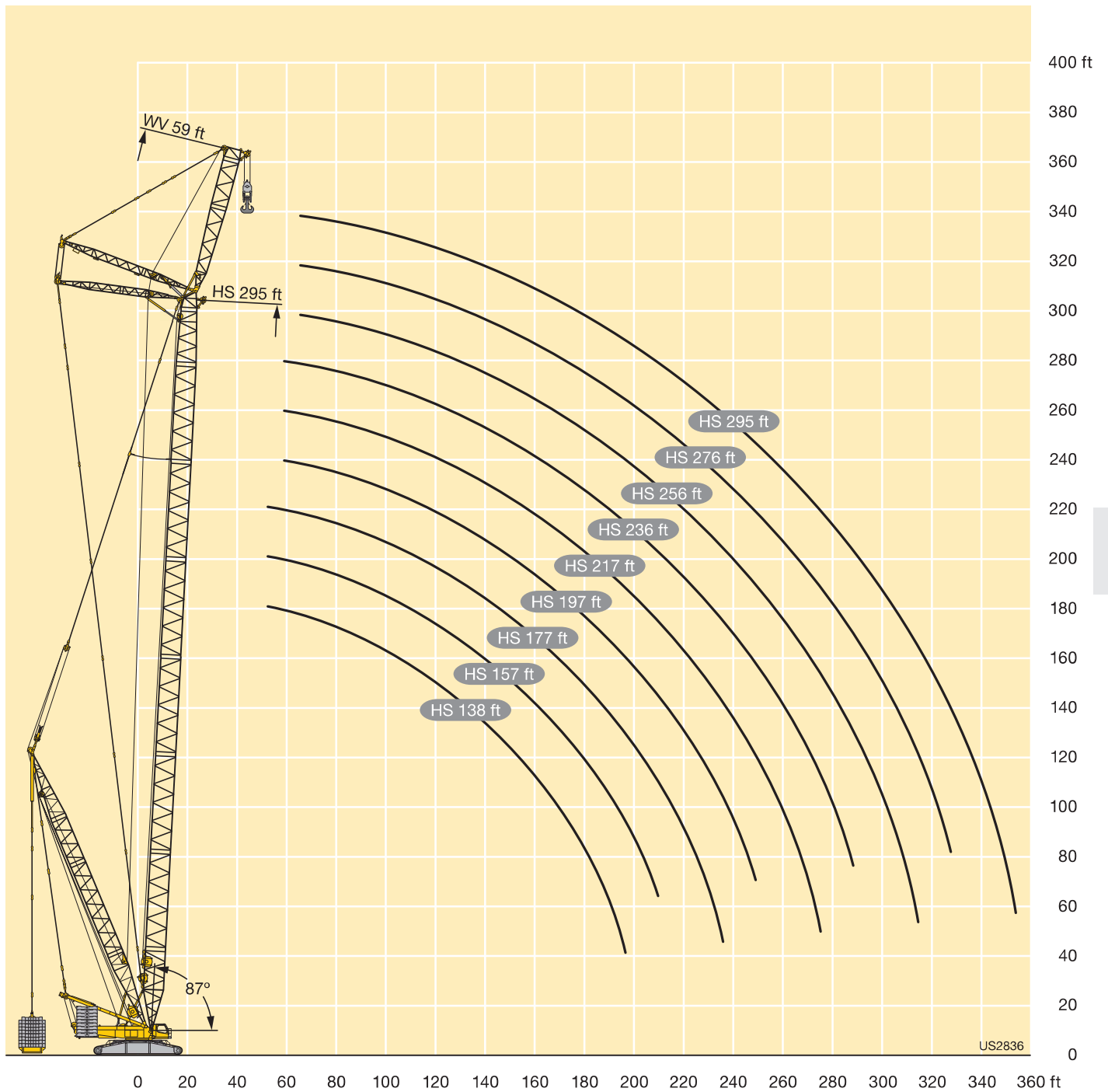


550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft	Diagram	S 217				S 236				S 256				S 276				S 295	
		D 118				D 118				D 118				D 118				D 118	
		W 39		W 59		W 39		W 59		W 39		W 59		W 39		W 59		W 59	
		12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°
170	B B2 BW	272 295 275	272 295 276	276 300 281	278 302 283	271 294 275	272 295 276	271 296 277	274 298 279	267 290 271	268 292 273	270 294 275	272 296 277	262 287 267	264 288 269	269 292 273	271 295 276	262 286 267	265 288 269
180	B B2 BW	250 272 253	251 273 255	254 277 259	256 278 260	248 271 253	248 271 253	252 275 257	254 276 259	246 269 251	247 270 252	248 271 253	250 273 255	242 265 247	244 267 249	246 268 250	248 271 252	241 264 246	244 266 248
190	B B2 BW	231 252 234	231 252 235	233 256 239	236 257 240	228 250 233	229 250 233	232 254 237	234 256 238	226 248 231	226 248 231	229 251 234	231 253 236	224 245 228	225 247 229	226 247 230	228 250 232	221 242 225	223 245 227
200	B B2 BW	213 233 216	213 233 217	215 236 220	217 238 222	211 231 215	211 232 216	214 234 218	215 236 219	208 228 212	207 228 212	212 233 216	214 234 218	206 226 210	207 227 211	209 229 213	211 231 215	202 223 206	205 225 208
210	B B2 BW	195 214 198	195 213 199	200 220 205	202 221 206	195 215 199	195 215 199	197 217 201	199 218 203	192 211 196	192 212 197	195 214 199	196 215 200	188 207 192	188 208 192	193 212 197	195 214 199	187 208 192	190 210 193
220	B B2 BW	176 195 184	178 195 185	185 204 189	186 204 190	180 198 183	179 198 184	183 202 187	184 204 188	178 197 182	177 197 182	180 199 184	182 200 185	174 193 178	175 194 179	177 195 182	179 197 183	173 193 177	175 194 178
230	B B2 BW	158 175 170	159 176 170	169 187 175	170 188 176	164 182 170	165 182 170	169 188 174	170 189 174	164 182 168	163 182 167	167 185 170	168 186 172	161 179 165	161 181 165	163 180 167	165 182 169	158 178 162	159 179 163
240	B B2 BW	137 154 153	138 154 152	153 170 161	155 171 163	149 166 157	151 167 157	155 173 160	156 174 161	150 168 154	150 167 154	154 172 158	155 173 159	148 167 152	148 167 152	151 167 155	152 170 156	145 164 149	146 165 150
250	B B2 BW			136 153 148	140 155 151	133 149 145	136 151 144	142 159 148	144 160 149	137 154 143	139 154 143	142 160 145	142 160 146	136 154 139	135 153 139	140 156 143	140 158 145	133 152 137	134 153 138
260	B B2 BW			118 134 133	119 136 134	115 131 130	115 132 130	128 144 138	132 146 138	124 141 132	128 141 131	130 147 134	131 147 135	124 141 128	125 141 129	128 145 132	128 146 133	123 141 126	124 142 127
270	B B2 BW			94,8 112 112		92 110 110		115 130 127	117 131 126	111 127 121	113 126 121	119 134 124	121 135 125	113 128 118	114 128 118	117 134 121	118 135 122	112 130 116	113 130 116
280	B B2 BW							99,4 114 114	99,4 114 112	95,7 110 108	94,8 110 108	108 122 114	110 123 115	102 116 109	103 116 108	106 123 111	108 124 113	102 119 106	102 120 106
290	B B2 BW											96,4 109 105	98,2 110 105	90,3 102 98,6	90 102 98,6	96,3 112 103	99,5 113 103	92,6 109 95,8	93,1 110 96,8
300	B B2 BW											80,7 95 94,2	82,1 95 93,4	74 87,5 86,4	74,2 86,7 86	86,2 101 94,8	90,2 102 94,3	84,4 98,5 88	84,9 101 88,4
310	B B2 BW											62,3 77,2 77,6		56 70,3 70,3		74,8 88,4 85,1	76,3 89,2 86,5	76,1 88,6 80,2	76,6 92,5 80
320	B B2 BW														61,4 74,6 73,4			67,7 78,6 72,4	67,9 82 72,2
330	B B2 BW																	58,5 68,5 64,7	57,9 69,7 64,9
340	B B2 BW																	46,7 58 57,5	44,9 57,3 56,3
350	B B2 BW																	31,6 43,3 43,4	

Further lengths on request - Autres longueurs sur demande

TAB 181470 / 181472 / 181476





ft	S 138																				ft	
	W 157										W 177											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
80	204																					80
85	191	143																				85
90	179	139																				90
95	168	136	160																			95
100	159	132	153			123																100
105	150	128	147	98		118		105														105
110	142	125	141	95.5		113		100		89												110
115	134	122	135	93.5		108		95.5		86												115
120	128	120	129	91		104	78.5	91.5		82											85	120
125	121	117	123	89		99.5	77	87.5	65.5	78.5											81.5	125
130	115	115	117	87		96	75	84.5	63.5	75											88	130
135	110	112	112	85		93	73	81	61.5	72											85	135
140	105	108	107	83.5		89.5	71.5	78.5	60	69	48.1										82	140
150	95.5	100	98	80		84	68.5	73	57	64	44.5										78.5	150
160	87.5	91.5	89.5	77.5		78.5	65.5	68	54.2	59.7	37.7										75	160
170	80	83.5	82.5	75		74	63	63.5	51.6	55.3	30.3										73.5	170
180	74		76	73.5		70	61	59.8	49.3	51.5	21										71.5	180
190	68		70			66.5	59.2	56.5	47.3	46.9											70.5	190
200			65			63.5	57.7	53.4	45.1	40.1											68	200
210						60.5		50.3	42.3	29.5											67	210
220						56.7		48.1	38.9	19.3											65.5	220
230								45.9	32.7												60.5	230
240								43.1													62	240
250																					57.1	250
260																					52.9	260

TAB 181198

J



ft	S 138																				ft	
	W 197										W 217											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
85	177																					85
90	167																					90
95	157																					95
100	148	138	150																			100
105	139	134	142			125																105
110	132	131	134	98.5		120																110
115	125	128	127	97		116																115
120	118	123	121	95		112		98		87.5												120
125	112	117	115	93		108	79	94.5		84												125
130	106	111	109	91		105	78	91		81												130
135	101	106	104	89.5		101	76.5	88.5		78												135
140	96.5	101	99	88		98	75	85.5	61.5	75.5												140
150	87.5	91.5	90	85		90	72	80	59.9	70.5												150
160	79.5	83.5	82	82		82.5	69.5	75	57.3	65.5	44.4											160
170	72.5	76	75	78.5		75.5	67	70.5	54.9	61.5	38.8											170
180	66	69.5	69	72		69	64.5	66.5	52.7	57.8	33											180
190	60.5	63.5	63	66		63.5	62.5	63	50.6	54.1	25.9											190
200	55.5		58	60.5		58.4	60.5	59.3	48.6	50.5	18.3											200
210	50.9		53.3	55.7		53.7	57.8	54.6	47.1	46.9												210
220	46.8		49.1	51.2		49.5	53.3	50.5	45.4	41.3												220
230			45.2			45.7	49	46.6	43	33.4												230
240			41.6			42.1	45.1	43	40.4	24.3												240
250						38.7		39.7	37.6	15.6												250
260						35.7		36.6	31.5	10.9												260
270								33.8														270
280								31.2														280
290																						290
300																						300

TAB 181198



ft	S 138																				ft	
	W 236										W 256											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
100	138																					100
105	130																					105
110	122	126	122								119	121	113									110
115	116	121	118								112	117	112									115
120	109	114	111			107					106	110	108									120
125	103	108	105	95.5		105		91			100	104	103		94							125
130	98	103	100	94		101		89.5		79	95	99	97.5	94	92.5			81				130
135	93	97.5	95	92.5	96.5			88		78.5	90.5	94	92.5	92	90			80				135
140	88.5	92.5	90.5	91	91.5	76		86.5		77.5	85.5	89	88	90	87	76	79			70.5		140
150	79.5	83.5	82	85.5	83	74.5	81.5			75.5	77	80	79.5	83.5	79.5	75	76			69.5		150
160	72	75.5	74	78.5	75.5	72	75	59.6		72.5	69.5	72	71.5	75.5	72	72.5	72	60.5		67.5		160
170	65	68.5	67	71.5	68.5	69.5	68.5	57.3		68.5	62.5	65	65	68.5	65.5	70.5	65	58.1		65.5	45.3	170
180	59	62	61	65	62.5	66.5	62.5	55.3	63	39.4	56.7	58.9	58.9	62	59.5	64.5	59.4	56.1	59.9	41.2		180
190	53.5	56.3	55.6	59.2	57.2	61.5	57.1	53.4	57.7	34.5	51.3	53.2	53.5	56.3	54	58.8	54	54.2	54.6	36.7		190
200	48.5	51	50.5	53.9	52.1	56.3	52.1	51.5	52.8	29.1	46.3	48.1	48.5	51	49.1	53.5	49.1	52.2	49.8	32		200
210	43.9	46.2	45.9	49	47.5	51.4	47.5	49.7	48.3	22.7	41.7	43.3	43.9	46.2	44.5	48.7	44.5	49.6	45.3	27		210
220	39.8	41.9	41.8	44.6	43.3	46.9	43.5	47.3	44.2	16	37.7	39	39.8	41.8	40.4	44.3	40.5	45.2	41.3	20.9		220
230	36.1	37.9	38	40.5	39.5	42.8	39.7	43.8	40.5		33.9	35.1	36	37.8	36.6	40.2	36.8	41.2	37.6	14.8		230
240	32.6		34.4	36.7	36	39	36.1	40	37		30.4	31.4	32.4	34.1	33.1	36.4	33.3	37.4	34.2			240
250	29.4		31.1		32.6	35.4	32.9	36.4	33.6		27.2		29.2	30.5	29.8	32.9	30	33.9	30.9			250
260	26.5		28.1		29.6	32.1	29.9	33.1	28.4		24.3		26.1	27.4	26.8	29.6	27	30.7	28			260
270			25.4		26.8	29	27.1	30.1	21.2		21.6		23.4	24.4	24	26.6	24.3	27.6	25.3			270
280			22.8		24.2		24.5	27.2	14.9		19.1		20.7		21.4	23.7	21.7	24.8	21.4			280
290					21.7		22	24.4					18.3		18.9		19.2	22.1	16.1			290
300					19.4		19.7	21.9					16		16.7		17	19.5	11.7			300
310							17.6								14.6		14.9	17.1				310
320							15.6								12.6		12.9					320
330																11						330
340																	9.2					340

TAB 181198



ft	S 138																				ft	
	W 276										W 295											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
105	120																					105
110	113																					110
115	107																					115
120	101	106	99.5																			120
125	95.5	101	97.5			85.5					92.5	93.5	86									125
130	90	95	92.5	88	84.5						87.5	91	85		74.5							130
135	85.5	90.5	88	86.5	83						82.5	86.5	82		74							135
140	81	85.5	83	85	81	73.5	73			65	78	82	78.5	76	73				56.5			140
150	72.5	77	75	79	75.5	73	72			64	70	73.5	71.5	74	70			63		55.7		150
160	65	69	67.5	71.5	68	71	69	61	63		62.5	65.5	64	69.5	65.5	63	61		54.4			160
170	58.2	62	60.5	64.5	61	67	62.5	59.1	61.5	48.3	55.8	58.7	57.2	62.5	59.2	61.5	58.9	52.7	53.1			170
180	52.3	55.8	54.7	58.1	55.3	61	56.6	57.1	56	44	50	52.6	51.4	56.2	53.3	57.4	53.4	51.9	51.4			180
190	46.9	50.2	49.3	52.4	50	55.2	51.3	54.5	50.8	39.6	44.7	47.1	46.1	50.5	48	52.3	48.1	50.7	47.6	41.3		190
200	42	45.1	44.4	47.2	45.1	49.9	46.4	50.9	46	35.3	39.8	42	41.2	45.3	43.1	47.1	43.3	48.1	42.9	37.3		200
210	37.5	40.3	39.8	42.4	40.5	45.1	41.9	46.1	41.6	31	35.4	37.3	36.7	40.6	38.6	42.3	38.8	43.4	38.5	33.2		210
220	33.5	36.1	35.8	38.1	36.5	40.7	37.9	41.8	37.6	25.7	31.4	33.1	32.7	36.3	34.6	38	34.9	39.1	34.6	29.1		220
230	29.8	32.2	32	34.1	32.7	36.7	34.1	37.8	33.9	20.2	27.6	29.2	28.9	32.3	30.9	34	31.2	35.1	30.9	24.2		230
240	26.3	28.5	28.5	30.4	29.3	33	30.7	34	30.5	14.7	24.2	25.6	25.5	28.6	27.4	30.2	27.7	31.3	27.5	18.9		240
250	23.1	25.2	25.3	26.9	26	29.4	27.4	30.5	27.3		21	22.2	22.2	25.2	24.1	26.7	24.5	27.8	24.4			250
260	20.2	22	22.3	23.8	23	26.2	24.5	27.3	24.4		18.1	19.2	19.3	22	21.2	23.5	21.5	24.6	21.5			260
270	17.5	19.2	19.5	20.8	20.3	23.2	21.7	24.3	21.6		15.4	16.3	16.5	19.1	18.4	20.6	18.8	21.7	18.8			270
280	15		16.9	18	17.7	20.4	19.1	21.5	19.1		12.8	13.6		14	16.3	15.8	17.7	16.2	18.8	16.2		280
290	12.7		14.5		15.2	17.7	16.6	18.8	16.6				11.5	13.6	13.4	15.1	13.8	16.2	13.8			290
300	10.5		12.3		13	15.2	14.4	16.3	14.4				9.3	11.2	11.1	12.6	11.5	13.7	11.6			300
310			10.2		10.8	12.8	12.2	13.9	12.3							10.3						310
320								11.7														320

TAB 181198

J



ft	S 157																				ft	
	W 157										W 177											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
80	197																					80
85	184																					85
90	173																					90
95	163	136	162																			95
100	153	132	154			124																100
105	145	129	147	98.5		119		106														105
110	137	126	139	96	114			101		89.5												110
115	130	123	132	93.5	109			96.5		86.5												115
120	123	120	125	91.5	105	78.5		92.5		83												120
125	117	118	119	89.5	100	77		88.5		79												125
130	111	115	114	87.5	97	75		85	63.5	75.5												130
135	106	111	109	85.5	93.5	73.5		82	62	72.5												135
140	101	106	104	83.5	90.5	72		79	60.5	69.5	48.8											140
150	92.5	97	94.5	80.5	84.5	68.5		73.5	57.2	64.5	45.2											150
160	84.5	88.5	86.5	77.5	79	66		68.5	54.4	60	38.5											160
170	77.5	81	79.5	75.5	74.5	63		64	51.8	55.7	31.4											170
180	71		73.5	73.5	70.5	61		60	49.5	51.7	22.1											180
190	65.5		67.5		67	59.3		56.7	47.4	47.7	13.9											190
200			62.5		63	57.8		53.6	45.3	41.3												200
210						58.9		50.6	42.6	30.2												210
220						54.7		48.3	39.7	19.1												220
230						50.8		46.1	33.6													230
240								43.3														240
250																						250
260																						260
270																						270

TAB 181198



ft	S 157																				ft	
	W 157										W 177											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
95	151																					95
100	142	138	145																			100
105	134	135	137																			105
110	127	132	129	98.5	119																	110
115	120	126	123	97	117																	115
120	114	119	116	95	113			98.5														120
125	108	113	111	93.5	109	79		95		84.5												125
130	102	107	105	91.5	105	78		92		81.5												130
135	97.5	102	100	89.5	100	76.5		89		78.5												135
140	93	97.5	95.5	88	95.5	75		86	61.5	76												140
150	84	88.5	87	85	87	72		80.5	60	71												150
160	76.5	80.5	79	81.5	79.5	69.5		75.5	57.5	66	45											160
170	69.5	73	72.5	76	72.5	67		71	55.1	62	39.4											170
180	63.5	67	66.5	69.5	66.5	64.5		66.5	52.9	58.1	33.7											180
190	58.1	61	60.5	64	61	62.5		62	50.7	54.4	26.7											190
200	53.1	55.9	55.7	58.4	56.1	60		57	48.8	50.8	19.1											200
210	48.6		51.1	53.5	51.5	55.7		52.4	47.2	47.2												210
220	44.6		47	49.1	47.4	51.3		48.4	45.6	42.3												220
230	41		43.2		43.7	47.1		44.6	43.3	34.5												230
240			39.7		40.1	43.3		41.1	40.6	25.4												240
250					36.9			37.9	37.8	16.6												250
260					33.9			34.9	32.1	11.4												260
270								32.2														270
280								29.6														280
290																						290
300																						300

TAB 181198



ft	S 157																				ft		
	W 236										W 256												
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118				
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°			
100	134																					100	
105	126																						105
110	119	121	118																				110
115	112	116	113																				115
120	106	110	107			105																	120
125	101	104	101	95.5		103		89															125
130	95.5	99	96.5	94		97.5		87.5		79													130
135	90.5	94	91.5	92		93		86		78													135
140	86	89	87	90		88.5	76	85		76.5													140
150	77.5	80.5	78.5	83.5		80	74.5	79.5		74													150
160	70	72.5	71	75.5		72.5	72	72.5	59.8	71	50												160
170	63.5	65.5	64.5	68.5		66	70	65.5	57.5	66	44.8												170
180	57.4	59.5	58.5	62.5		60	64.5	60	55.4	60.5	40												180
190	52	53.9	53.1	56.8		54.7	59.3	54.7	53.5	55.3	35												190
200	47.1	48.7	48.2	51.6		49.8	54.1	49.8	51.7	50.5	29.7												200
210	42.6	44	43.7	46.8		45.3	49.2	45.4	49.9	46.1	23.5												210
220	38.6	39.8	39.7	42.5		41.3	44.9	41.4	45.8	42.2	16.8												220
230	34.9	35.9	35.9	38.5		37.5	40.9	37.7	41.8	38.6													230
240	31.5		32.5	34.8		34.1	37.2	34.3	38.1	35.2													240
250	28.3		29.3			30.8	33.7	31.1	34.6	32													250
260	25.4		26.4			27.9	30.4	28.1	31.4	28.9													260
270			23.7			25.1	27.4	25.4	28.4	22.3													270
280			21.1			22.6		22.8	25.6	15.7													280
290						20.1		20.4	22.9														290
300						17.9		18.2	20.4														300
310								16.1															310
320								14.2															320

TAB 181198



ft	S 157																ft						
	W 276								W 295														
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79			F 98					
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°					
105	114																					105	
110	110																						110
115	104																						115
120	98	102	95																				120
125	92.5	96.5	94																				125
130	87.5	91.5	89			81																	130
135	83	86.5	84.5			79.5																	135
140	78.5	82	80	80.5		78		70		62													140
150	70.5	73.5	71.5	76		72		69		61.5													150
160	63	66	64.5	68.5		65	68.5	66	59.5	60													160
170	56.6	59.3	57.9	61.5		58.5	64.5	59.7	58.5	58.7	48.8												170
180	50.9	53.3	52.2	55.5		52.8	58.4	54.1	57	53.5	44.6												180
190	45.6	47.8	46.9	50		47.5	52.8	48.9	53.4	48.4	40.2												190
200	40.8	42.8	42.1	44.9		42.8	47.7	44.1	48.7	43.7	35.9												200
210	36.4	38.2	37.7	40.2		38.4	42.9	39.7	44	39.4	31.5												210
220	32.5	34.1	33.7	36		34.4	38.7	35.8	39.7	35.5	26.4												220
230	28.8	30.2	30.1	32.1		30.8	34.8	32.2	35.8	32	20.9												230
240	25.4	26.7	26.6	28.5		27.3	31.1	28.8	32.1	28.6	15.2												240
250	22.3	23.4	23.5	25.1		24.2	27.7	25.6	28.7	25.5													250
260	19.4	20.3	20.6	22		21.3	24.5	22.7	25.6	22.6													260
270	16.8	17.5	17.9	19.1		18.6	21.6	20	22.6	20													270
280	14.3		15.3	16.4		16	18.8	17.5	19.9	17.5													280
290	11.9		12.9			13.7	16.2	15.1	17.2	15.1													290
300	9.8		10.7			11.4	13.7	12.9	14.8	12.9													300
310							11.4	10.8	12.5	10.9													310

TAB 181198

J



ft	S 177																				ft		
	W 157										W 177												
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118				
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°			
80	190																					80	
85	177																					85	
90	167																					90	
95	157	137	159																			95	
100	148	133	150			125							144	136	145							100	
105	140	130	142	99		120							136	133	137			124				105	
110	132	126	134	96.5	115			100		90.5			129	130	130	97.5	119		104			110	
115	125	123	128	93.5	110			97.5		87.5			122	126	124	96	114		101			115	
120	119	121	121	91.5	106	78.5		93.5		83.5			116	121	117	94	110		97		86.5	120	
125	113	118	115	89.5	102	77.5		89.5		80			110	115	111	92	106	79	93		83	125	
130	107	113	110	87.5	97.5	75.5	86	63.5	76.5				105	109	106	90	102	77.5	89.5		79.5	130	
135	103	108	105	85.5	94	74	82.5	62.5	73				99.5	104	101	88	99	75.5	86.5		76.5	135	
140	97.5	103	100	84	91	72	79.5	60.5	70.5	49.5			95	99.5	96.5	86.5	95.5	74	83	61	74	52	140
150	89	93.5	91.5	80.5	85	69	74	57.5	65	45.9			86.5	90.5	88	83	88.5	71	77.5	59.2	68.5	48.8	150
160	81	85.5	83.5	78	79.5	66	69	54.7	60.5	39.4			78.5	82.5	80.5	80	81.5	68	72.5	56.4	63.5	42.9	160
170	74.5	78	76.5	75.5	75	63.5	64.5	52.1	56.1	32.5			72	75.5	73.5	77.5	74.5	65.5	68	53.8	59.5	36.8	170
180	68.5		70.5	73	71	61	60.5	49.7	52.1	23.2			66	69	67.5	71.5	68.5	63	64	51.5	55.5	29.7	180
190	63		65	68.5	66	59.4	57.1	47.6	48.2	14.8			60.5		62	66	63.5	61	60.5	49.4	51.7	21.5	190
200			60		61.5	57.9	53.9	45.5	42.3				55.6		57.2	60.5	58.4	59.3	57.2	47.5	48		200
210					56.7		50.9	42.9	32.1						52.6		53.8	57.6	54.4	45.7	44.2		210
220					52.6		48.5	39.9	21.3						48.6		49.8	53.2	50.6	43.2	34.3		220
230					48.8		46.2	34.2	13.7						44.9		46		46.9	40.5	24.4		230
240							43.5										42.5		43.4	36.5	16		240
250																			40.2				250
260																			37.3				260
270																			34.5				270

TAB 181198

J



ft	S 177																				ft			
	W 157										W 177													
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118					
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°				
95	147																					95		
100	138	139												133									100	
105	130	136	132											125	131	127							105	
110	123	128	125											119	124	120							110	
115	117	122	118			118								112	117	114							115	
120	111	115	112	95.5	113			98.5						106	111	108	97	109					120	
125	105	109	107	93.5	108			96		85				100	105	102	95	103		93			125	
130	99.5	104	101	91.5	102	78	93			81.5				95	99.5	97	93.5	98.5	79	91.5		80.5	130	
135	95	99	96.5	90	98	77	89.5			79				90.5	94.5	92.5	91.5	93.5	78	89.5		79	135	
140	90.5	94	92	88.5	93.5	75.5	86.5	62	76.5					86	90	88	90	89	76.5	87	63	77.5	140	
150	82	85.5	83.5	84.5	85	72.5	81	60.5	71					77.5	81.5	79.5	84.5	81	74	80.5	61.5	73.5	150	
160	74.5	77.5	76	80	77.5	69.5	75.5	57.7	66.5	45.6				70.5	73.5	72.5	76.5	74	71	73.5	59	69	48.3	160
170	67.5	70.5	69.5	73	71	67	70.5	55.3	62	40.1				63.5	67	66	70	67	68.5	67	56.7	64.5	43.2	170
180	62	64.5	63.5	67	65	65	65	53.1	58.5	34.4				58	61	60	63.5	61.5	65	61.5	54.5	60	37.9	180
190	56.5	58.7	58.3	61.5	59.7	62	59.5	50.9	54.8	27.6				52.7	55.3	54.7	58.1	56.2	60.5	56.1	52.5	55.4	32.3	190
200	51.6	53.6	53.4	56.2	54.8	58.4	54.7	49	51.1	20				47.9	50.2	49.8	52.9	51.3	55.3	51.3	50.5	50.7	26.1	200
210	47.1		48.9	51.4	50.3	53.6	50.3	47.3	47.5					43.5	45.6	45.4	48.2	46.9	50.5	46.9	48.6	46.4	18.9	210
220	43.2		44.9	47.1	46.3	49.3	46.3	45.7	43.4					39.6	41.5	41.4	44	42.9	46.3	43	46.5	42.6	12.3	220
230	39.6		41.2		42.6	45.3	42.7	43.5	35.8					36		37.8	40.1	39.3	42.3	39.4	43.2	39		230
240			37.8		39.1	41.5	39.2	40.9	26.7					32.7		34.4		35.9	38.6	36	39.5	34.8		240
250					35.9		36.1	38	17.8							31.2		32.7	35.1	32.8	36.1	29.1		250
260					33		33.2	32.8	12							28.3		29.8	31.9	29.9	32.9	20.6		260
270							30.5	26.9										27.1		27.3	29.9	14.3		270
280							27.9											24.5		24.7	27.1			280
290																				22.4				290
300																				20.2				300
310																				18.2				310

TAB 181198



ft	S 177																				ft	
	W 236										W 256											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
100	129																					100
105	121																					105
110	114	117	113								117											110
115	108	112	109								110											115
120	102	106	103			101					104											120
125	96.5	100	97.5	95.5	99						98	103	99.5									125
130	91.5	95	92.5	94	94			85			76.5											130
135	87	90.5	88	91	89.5			83.5			75.5											135
140	82.5	85.5	83.5	88	85	76		82			74.5											140
150	74.5	77	75.5	80.5	77	74.5		76.5			72											150
160	67	69.5	68	73	69.5	72		69.5	60	69												160
170	60.5	63	61.5	66	63	68.5	63	57.7	63.5	45.1												170
180	54.8	56.9	55.9	59.9	57.5	62.5	57.4	55.6	58	40.6												180
190	49.6	51.4	50.7	54.4	52.3	56.9	52.3	53.7	53	35.7												190
200	44.8	46.4	45.9	49.3	47.5	51.8	47.5	51.3	48.3	30.3												200
210	40.4	41.8	41.5	44.7	43.2	47.1	43.2	48	44	24.3												210
220	36.5	37.7	37.6	40.5	39.2	42.9	39.3	43.8	40.2	17.6												220
230	32.9	33.9	33.9	36.6	35.6	39	35.7	39.9	36.6													230
240	29.6		30.6	33	32.2	35.3	32.4	36.3	33.3													240
250	26.5		27.4		29	31.9	29.2	32.9	30.2													250
260	23.7		24.6		26.2	28.8	26.4	29.7	27.4													260
270	21.1		21.9		23.5	25.8	23.7	26.8	22.3													270
280			19.5		20.9		21.2	24	16.6													280
290					18.6		18.9	21.4														290
300					16.4		16.7	19														300
310							14.7															310
320							12.7															320

TAB 181198



ft	S 177																ft					
	W 276								W 295													
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79							
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°						
110	104																	110				
115	100																	115				
120	94	97	90															120				
125	89	93	89															125				
130	84	88	85			78												130				
135	79.5	83	81			77												135				
140	75	78.5	76.5	78.5	75.5			67			59.2			71.5	75	73	69.5	65.5			140	
150	67.5	70.5	68.5	74	70.5			66			58.6			63.5	67	66.5	67.5	64			150	
160	60	63	61.5	67	63.5	65.5	63				57.5			56.7	59.8	59.4	63.5	60	57.8		160	
170	53.9	56.6	55.2	60	57.1	61.5	57	56.3	56	48.5	50.5	53.3	53.2	57	53.8	56.9					170	
180	48.3	50.7	49.6	54.2	51.5	55.8	51.5	55.1	50.9	45	45	47.5	47.6	51.1	48.3	52.4					180	
190	43.2	45.4	44.5	48.8	46.5	50.4	46.5	51.4	46	40.9	39.9	42.3	42.6	45.8	43.3	47.5					190	
200	38.6	40.5	39.8	43.8	41.8	45.4	41.9	46.4	41.5	36.5	35.3	37.4	37.9	40.9	38.7	42.5					200	
210	34.3	36	35.5	39.2	37.5	40.8	37.6	41.8	37.3	32.1	31.1	33	33.6	36.3	34.4	38					210	
220	30.4	32	31.7	35.1	33.6	36.7	33.8	37.7	33.5	27.2	27.3	29	29.8	32.3	30.6	33.9					220	
230	26.9	28.3	28.1	31.3	30	32.8	30.3	33.9	30	21.7	23.7	25.3	26.2	28.5	27	30.1					230	
240	23.6	24.8	24.7	27.8	26.7	29.2	26.9	30.3	26.8	15.9	20.5	21.9	22.9	25	23.7	26.5					240	
250	20.5	21.6	21.6	24.4	23.6	25.9	23.9	26.9	23.7		17.4	18.7	19.8	21.7	20.6	23.2					250	
260	17.7	18.6	18.8	21.4	20.7	22.8	21	23.9	20.9		14.6	15.7	17	18.7	17.8	20.1					260	
270	15.1	15.8	16.2	18.5	18	19.9	18.4	21	18.3		12	13	14.3	15.8	15.1	17.3					270	
280	12.6		13.7	15.8	15.5	17.2	15.9	18.3	15.9				11.9	13.1	12.7	14.6					280	
290			11.4		13.2	14.6	13.6	15.7	13.6						12							290
300			9.2		11	12.2	11.4	13.3	11.4						9.7							300

TAB 181198

J



ft	S 197																				ft			
	W 197										W 217													
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118					
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°				
95	141																					95		
100	133																					100		
105	126	131	127																			105		
110	119	124	120			115																110		
115	112	117	114			113																115		
120	106	111	108	95.5		109		97								105						120		
125	101	105	103	93.5	104		95			83.5				97.5	101	98.5	95	99.5		90.5		125		
130	96	100	97.5	92	98.5	78.5	92.5			82				92.5	96	93.5	93.5	94.5		89	79	130		
135	91	95	93	90	94	77	89.5			79.5				88	91	89	91	90		86.5	78.5	135		
140	87	90.5	88.5	88.5	90	75.5	87	62.5		76.5				83.5	86.5	84.5	88	86	75.5	84	77.5	140		
150	78.5	82	80.5	83.5	81.5	72.5	81	60.5	71.5					75.5	78	76.5	81	78	74	77.5	74.5	150		
160	71.5	74.5	73	77.5	74.5	70	74	58	67	46.3				68.5	70.5	69.5	73.5	71	71.5	70.5	59.3	71	49.1	160
170	65	67.5	66.5	70.5	68	67.5	68	55.5	62.5	40.8				62	64	63	67	64.5	69	64	56.8	64.5	43.8	170
180	59.1	61.5	61	64.5	62.5	65	62	53.3	58.8	35.1				56.3	58.2	57.3	61	58.8	63.5	58.6	54.6	59.2	38.6	180
190	53.9	56.2	55.8	58.9	57.2	61	57.1	51.1	55.2	28.4				51.2	52.8	52.2	55.6	53.7	58	53.6	52.6	54.2	33.2	190
200	49.1	51.2	51	53.8	52.5	56.1	52.4	49.1	51.4	21				46.5	47.9	47.4	50.6	49	53	48.9	50.7	49.7	27.1	200
210	44.8		46.6	49.2	48.1	51.4	48.1	47.4	47.5					42.2	43.3	43.1	46	44.7	48.4	44.7	48.8	45.5	19.8	210
220	41		42.7	45	44.2	47.2	44.2	45.9	43.8					38.3	39.3	39.3	41.9	40.8	44.2	40.9	44.9	41.7	12.8	220
230	37.5		39.1		40.6	43.3	40.6	43.5	36.8					34.8		35.7	38	37.3	40.3	37.3	41.2	38.2		230
240			35.8		37.2	39.6	37.3	40.5	28					31.5		32.4		33.9	36.7	34	37.6	34.8		240
250					34.1		34.2	37.1	19							29.3		30.8	33.4	30.9	34.3	30.9		250
260					31.2		31.4	33.3	12.7							26.5		28	30.2	28.1	31.2	22.4		260
270					28.5		28.7	27.7								23.9		25.3		25.5	28.3	15.6		270
280							26.3											22.9		23.1	25.5			280
290																				20.8				290
300																				18.7				300
310																				16.7				310

TAB 181198

J



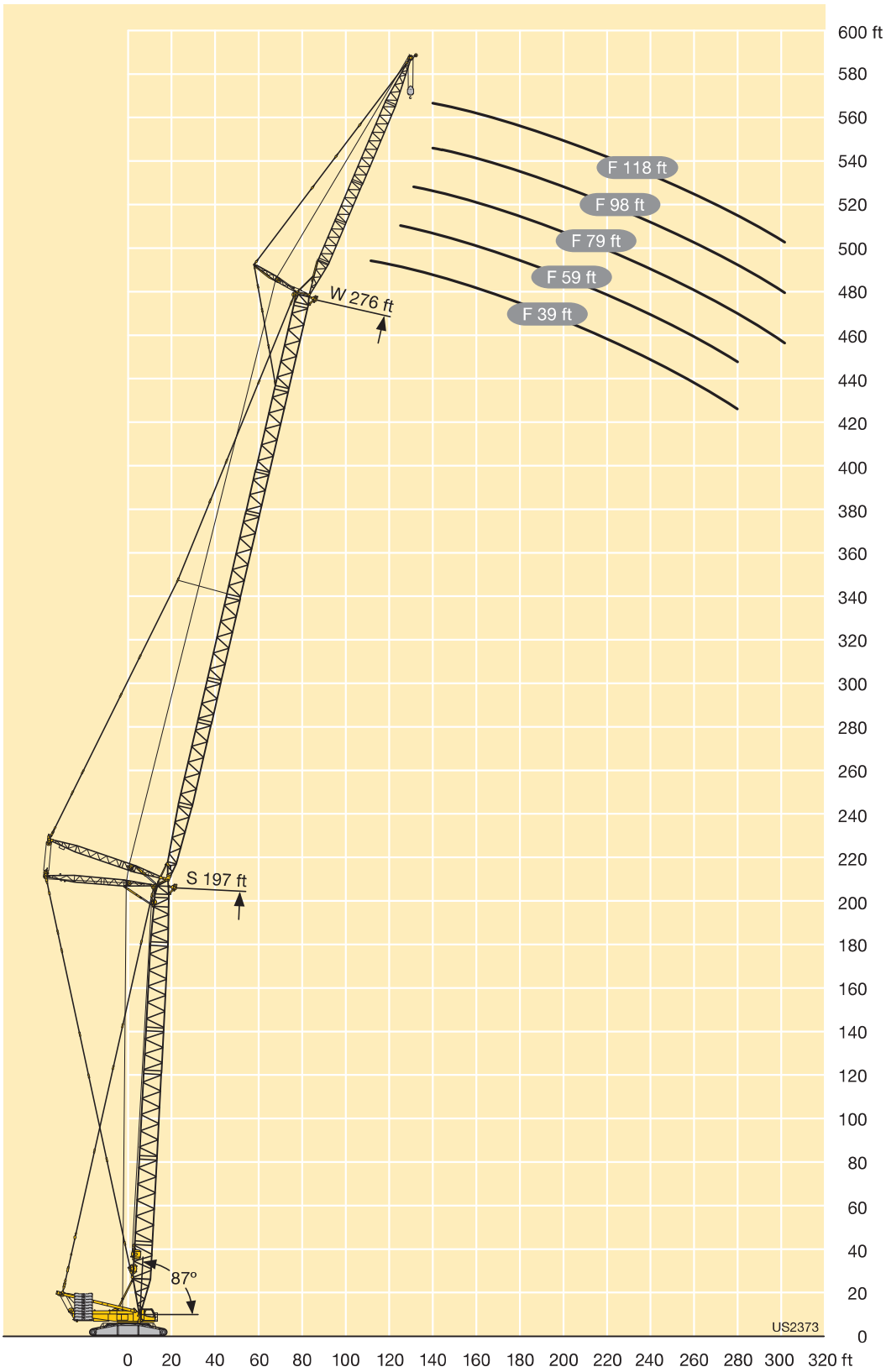
ft	S 197																				ft			
	W 236										W 256													
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118					
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°				
105	116																						105	
110	110	112	110																				110	
115	104	108	106																				115	
120	98	102	100																				120	
125	92.5	96.5	95		94.5																		125	
130	88	91.5	90	93.5	90		81.5																130	
135	83.5	86.5	85.5	90	86		80.5																135	
140	79	82	81.5	85.5	81.5	76	78.5		71													62.5	140	
150	71	74	73.5	77.5	73.5	74.5	73.5		70													61.5	150	
160	64	66.5	66.5	70	66.5	71.5	66.5	60	67													59.9	160	
170	57.7	60	60	63	60.5	65.5	60	57.9	61	45.9												57.4	48.1	170
180	52.2	54.2	54.4	57.3	54.9	59.9	54.8	55.8	55.5	41.3												52.3	43.3	180
190	47.1	48.9	49.3	51.9	49.8	54.5	49.8	53.5	50.5	36.3												47.5	38.5	190
200	42.4	44	44.7	47	45.2	49.5	45.2	50.4	46	31												43	33.8	200
210	38.2	39.6	40.4	42.4	40.9	44.9	41	45.8	41.8	25.3												38.9	29.1	210
220	34.4	35.6	36.5	38.4	37.1	40.8	37.2	41.7	38.1	18.5												35.2	23.2	220
230	30.8	31.9	32.9	34.6	33.6	37	33.7	37.9	34.6	12.6												31.7	17.1	230
240	27.6		29.6	31	30.2	33.4	30.4	34.4	31.4													28.5		240
250	24.6		26.5	27.7	27.2	30.1	27.4	31.1	28.4													25.6		250
260	21.8		23.7	24.7	24.4	27	24.6	28	25.6													22.8		260
270	19.3		21.1		21.7	24.1	22	25.1	22.1													20.3		270
280			18.6		19.3		19.5	22.4	17.3													17.9		280
290					16.9		17.2	19.8														15.5		290
300					14.8		15.1	17.4														12.3		300
310							13.1															11.5		310
320							11.2															10.7		320

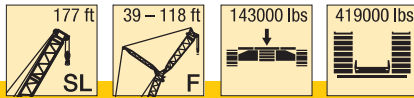
TAB 181198



ft	S 197										ft	
	W 276											
	F 39		F 59		F 79		F 98		F 118			
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°		
110	99.5										110	
115	95.5										115	
120	90										120	
125	85	89	84								125	
130	80.5	84	81			73.5					130	
135	76	79.5	77			73					135	
140	72	75.5	73	75.5		72		63.5		56.1	140	
150	64	67.5	65.5	71		67.5		62.5		55.5	150	
160	57.3	60	58.6	64		60.5	62.5	60.5		54.4	160	
170	51.1	53.8	52.4	57.3		54.3	58.8	54.3	53.6	53.3	170	
180	45.7	48.1	47	51.6		49	53.2	48.9	52.5	48.3	180	
190	40.8	42.9	42	46.4		44	47.9	44.1	48.9	43.5	42.2	190
200	36.2	38.2	37.5	41.5		39.5	43.1	39.6	44.1	39.1	37.3	200
210	32	33.8	33.3	37.1		35.3	38.6	35.4	39.6	35	32.7	210
220	28.3	29.9	29.5	33.1		31.5	34.6	31.7	35.6	31.4	28	220
230	24.9	26.3	26.1	29.3		28	30.8	28.3	31.9	28	22.5	230
240	21.6	22.9	22.8	25.9		24.8	27.3	25	28.4	24.8	16.7	240
250	18.6	19.7	19.8	22.6		21.7	24.1	22	25.1	21.9		250
260	15.9	16.8	17	19.6		18.9	21.1	19.3	22.1	19.2		260
270	13.4	14.1	14.5	16.8		16.3	18.3	16.7	19.3	16.6		270
280	11		12	14.2		13.9	15.6	14.3	16.6	14.2		280
290						11.6	13.1	12	14.1	12		290
300						9.5	10.7	9.9	11.8	9.9		300

TAB 181198

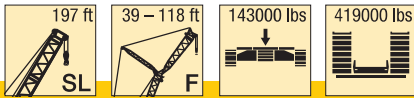




ft	SL 177															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
32	303															32
34	303															34
36	303															36
38	303															38
40	303	302														40
45	303	301	167	246	204											45
50	303	288	162	235	195											50
55	303	272	157	221	186		173			151						55
60	299	258	152	209	177	113	164	139		142	121		132			60
65	282	247	147	198	169	109	155	133		135	115		124	105		65
70	260	236	143	188	162	106	147	127		128	110		117	100		70
75	239	226	139	179	155	103	140	122	86.5	121	105		111	95.5		75
80	220	216	135	170	149	101	134	116	84	115	100	72.5	105	91		80
85	202	203	132	163	142	98	127	112	81.5	110	95.5	70	100	86.5	62	85
90	186	187	129	156	138	95.5	122	108	79	105	92	68	95.5	83	59.9	90
95	171	173	126	150	133	93	117	104	77	100	88.5	66	91	79.5	57.8	95
100	159	160	123	144	129	90.5	113	100	75	95.5	85	64	86.5	76	55.8	100
105	147	148	120	138	124	88.5	108	97	73	92	81.5	62	82.5	73	54	105
110	137	139	118	133	120	86.5	104	93.5	71	88.5	79	60	79	70	52.2	110
115	128	129	115	129	116	84.5	99.5	90.5	69.5	85	76.5	58.3	76	67.5	50.6	115
120	120	121	113	123	113	83	96	87	68	81.5	73.5	56.7	73	65	49.2	120
125	113	114	110	116	110	81.5	93	84.5	66.5	78	71	55.2	70	62.5	47.7	125
130	106	107	108	109	106	80	90.5	82	65	75.5	68.5	53.9	67	60.5	46.1	130
135	100	101	103	103	102	78.5	87.5	80	63.5	73	66.5	52.6	64.5	58.2	44.2	135
140	94.5	95	97	97.5	97.5	77	84.5	77.5	62.5	71	64.5	51.2	62.5	56	42.3	140
150	84	84.5	86	87	88	74.5	79.5	73.5	60	66.5	60.5	48.9	58.1	52.4	38.4	150
160	75	75.5	77	78	78.5	72.5	75.5	70	58	62	57.2	46.9	54.1	49.3	33.6	160
170	67.5	68	69	70	70.5	70.5	71.5	66.5	56.2	58.9	54.1	44.9	50.1	46.3	25.9	170
180	60.5	61		63.5	64	65	65	63.5	54.5	55.7	51.6	43.3	46.7	40.5	17.7	180
190	54.4	54.7		57.2	57.7	59	59.2	59.1	53.1	52.6	49.2	41.8	43.3	33.5	11.3	190
200				51.5	51.9		53.6	54.2	51.7	49.9	46.9	40.4	39.5	25.8		200
210				46.2			48.3	48.9	50.4	47.8	45.1	38.9	34.8	18.1		210
220				41.6			43.7	44.2	45.4	44.7	43.4	35.4	25.1	13.3		220
230							39.4	39.8		40.8	40.8	32				230
240										36.9	37.5					240
250										33.3						250
260										30.1						260

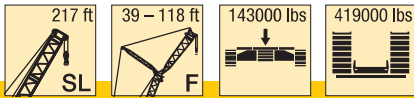
TAB 181118

K



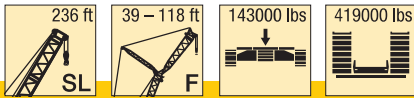
ft	SL 197															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
36	303															36
38	303															38
40	303	303														40
45	303	303		249												45
50	303	293		238												50
55	303	280	158	226	189		176									55
60	298	266	154	215	180	114	166	141		145			133			60
65	272	254	149	203	173	110	159	135		137	116		126	106		65
70	250	244	146	194	166	107	151	130		130	111		119	102		70
75	230	230	142	185	159	105	144	124	87	124	107		114	97.5		75
80	212	214	138	177	153	102	138	119	84.5	118	102	72.5	108	93		80
85	197	199	135	169	147	99.5	132	115	82	113	98	70.5	102	89		85
90	182	184	132	163	142	97	126	111	80	108	94	68.5	98	84.5		90
95	169	170	129	157	138	94.5	121	107	78	104	90.5	66.5	94	81	58.2	95
100	156	157	126	151	133	92.5	117	103	76	99	87.5	64.5	89.5	78	56.3	100
105	145	146	123	145	129	90.5	113	99.5	74	95	84	62.5	85.5	75	54.6	105
110	135	136	121	138	125	88.5	109	96.5	72.5	92	81	61	82	72	52.9	110
115	126	127	118	129	121	86.5	105	93.5	71	88.5	78.5	59.4	79	69.5	51.3	115
120	117	118	116	121	117	85	101	90.5	69.5	85.5	76	57.8	76	67	49.9	120
125	110	111	113	113	114	83	97	88	68	82	74	56.1	73.5	65	48.5	125
130	103	104	106	107	108	81.5	94	85	66.5	79	71.5	54.9	70.5	62.5	47.1	130
135	97	98	100	100	102	80.5	91.5	83	65	76.5	69	53.7	68	60.5	45.5	135
140	91.5	92	94.5	94.5	96	79	89	81	64	74	67	52.4	65	58.4	43.8	140
150	81	82	83.5	84	85	76.5	83.5	76.5	61.5	69.5	63	50.1	60.5	54.6	40.2	150
160	72	73	74.5	75	76	73.5	77	73	59.5	65.5	59.8	47.9	56.9	51.3	36.3	160
170	64.5	65	66.5	67	68	69.5	69	69.5	57.5	61.5	56.4	46.1	53.2	48.5	31.4	170
180	57.3	57.7	59	60.5	61	63	62.5	63	55.9	58.6	53.8	44.3	49.7	45.6	24	180
190	50.9	51.3	52.4	53.9	54.6	56.2	56.1	57	54.4	55.5	51.4	42.8	46.4	40.5	16.4	190
200	45.1	45.4		48.1	48.6	50.1	50.3	51.1	51.9	51.7	49.1	41.5	43.2	33.7	10.1	200
210	39.9			42.8	43.2		44.9	45.6	47.5	46.4	46.9	40.3	40	26.7		210
220	35.3			38.1	38.5		40.3	40.9	42.5	41.7	42.4	38.8	35.4	19.6		220
230				33.9	34.2		36	36.5	37.9	37.4	38.2	36.2	27.8	14.5		230
240							32	32.5		33.5	34.1	33				240
250							28.4			29.8	30.4	29.9				250
260							25.1			26.6	27.1	27.2				260
270										23.6	24					270

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ft	SL 217															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	303		251												45
50	303	296		241												50
55	299	286	160	230	192		178									55
60	288	273	155	219	184		169	143		147			135			60
65	262	261	151	209	177	111	161	137		139	118		128			65
70	240	242	147	199	170	108	154	132		133	113		121			70
75	221	223	144	191	163	105	148	127	87.5	127	108		116	98.5		75
80	204	206	141	183	157	103	141	122	85	121	104		110	94		80
85	189	191	137	176	152	101	136	117	83	116	100	71	105	90.5		85
90	175	177	134	168	147	98.5	131	113	80.5	111	96	69	101	86.5		90
95	163	165	131	162	142	96	125	110	78.5	107	92.5	67	96.5	83	58.8	95
100	152	154	129	154	137	94	120	106	76.5	103	89.5	65	92.5	79.5	57	100
105	142	143	126	144	133	91.5	116	102	75	98	86.5	63.5	88.5	77	55.3	105
110	132	133	124	136	129	90	113	99.5	73.5	94.5	83.5	62	84.5	74	53.6	110
115	123	124	121	127	125	88.5	109	96.5	72	91.5	80.5	60.5	81.5	71.5	51.9	115
120	115	116	117	118	120	86.5	105	94	70.5	88.5	78	58.7	78.5	69	50.4	120
125	107	108	111	111	112	85	102	91	69	85.5	76	57.2	76	66.5	49.1	125
130	100	101	104	104	105	83.5	98	88.5	67.5	82.5	74	55.7	73.5	64.5	47.8	130
135	94.5	95	98	98	99	82	94.5	86	66.5	80	71.5	54.5	70.5	62.5	46.4	135
140	88.5	89.5	92	92	93	80.5	91.5	83.5	65	77	69.5	53.4	68	60.5	45	140
150	78	79	81	81.5	82.5	78	83.5	79.5	62.5	72.5	65.5	51.1	63.5	56.6	41.8	150
160	69	70	71.5	72	73	74.5	74.5	75	60.5	68.5	62	48.9	59.4	53	38.4	160
170	61	61.5	63.5	64.5	65	67.5	66.5	67.5	58.7	64.5	58.9	47.1	55.9	50.3	34.9	170
180	53.7	54.3	55.9	57	57.9	60	59.3	60.5	56.9	60	55.8	45.4	52.5	47.7	29	180
190	47.3	47.8	49.2	50.5	51.2	53.3	52.8	53.9	54.3	54.4	53.1	43.8	49.2	44.7	22.3	190
200	41.5	41.9	43.1	44.6	45.3	47.1	46.9	47.8	50.4	48.4	49.6	42.4	46.1	40.5	15.4	200
210	36.3	36.6		39.2	39.8	41.4	41.5	42.3	44.6	43	44.1	41.2	43	33.9		210
220	31.7	32		34.6	35.1	36.4	36.8	37.5	39.5	38.3	39.3	40.1	38.9	27.3		220
230	27.6	27.8		30.3	30.7		32.5	33.1	34.9	34	34.9	37	34.8	20.7		230
240				26.4	26.8		28.5	29.1	30.6	30	30.8	33	29.4	15.1		240
250				22.8			24.9	25.4		26.3	27.1	29	21.8	11.3		250
260				19.6			21.6	22		23.1	23.7	25.4	13.5	7.6		260
270							18.6	18.9		20.1	20.6	22				270
280										17.3	17.7					280
290										14.7						290
300										12.3						300

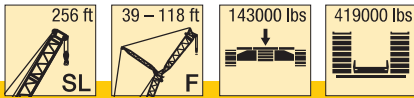
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K

ft	SL 236															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	303														45
50	303	298														50
55	295	289	160	231	194											55
60	277	276	156	222	186		172	144		148						60
65	253	255	152	213	179	111	164	139		141	118		128			65
70	232	235	149	204	173	108	157	133		135	114		123			70
75	213	216	145	196	166	106	151	129		129	110		117	99		75
80	197	199	142	188	160	104	145	124	85	124	106		113	95		80
85	182	184	139	181	155	101	139	119	83	119	102	71	108	91.5		85
90	169	171	136	170	150	99	134	115	81	114	98	69	103	88		90
95	157	159	133	159	145	97	129	112	79	110	94.5	67.5	98.5	84.5	58.9	95
100	146	148	131	149	141	95	124	108	77.5	106	91	65.5	95	81	57.2	100
105	136	138	128	139	137	93	119	105	75.5	102	88.5	64	91	78.5	55.5	105
110	128	129	126	130	131	91	116	102	74	97.5	85.5	62.5	87.5	76	54	110
115	120	121	123	122	124	89.5	112	99	72.5	94	82.5	61	84	73	52.4	115
120	112	113	117	115	116	88	109	96.5	71	91	80	59.4	80.5	70.5	50.9	120
125	105	106	109	108	109	86.5	106	94	69.5	88.5	78	58	78	68	49.5	125
130	98	99	102	101	103	85	102	91.5	68.5	85.5	75.5	56.5	75.5	66	48.3	130
135	92	93	96	95.5	97	83.5	96.5	89	67.5	83	73.5	55.3	73.5	64	47.1	135
140	86.5	87.5	90	89.5	91	82	91	86.5	66	80	71.5	54.1	71	62.5	45.9	140
150	76	77	79	79	80.5	78.5	81	80.5	64	75.5	67.5	52	66	58.6	43.1	150
160	66.5	67.5	69.5	70	71	74	72	73.5	61.5	70.5	64	49.9	61.5	55.1	39.9	160
170	58.2	59.1	61	61.5	63	65.5	64	65.5	59.8	65	61	47.8	58.3	51.9	36.7	170
180	51.1	51.9	53.7	54.4	55.4	58	56.8	58.1	58	58.2	58.2	46.2	55	49.4	33.1	180
190	44.7	45.4	47	47.8	48.8	51.1	50.2	51.4	53.8	51.7	53.1	44.7	51.1	46.9	27.6	190
200	38.9	39.5	40.9	41.9	42.8	44.8	44.2	45.3	48.1	45.7	47.1	43.2	46.4	44.1	21	200
210	33.7	34.2	35.4	36.6	37.4	39.2	38.8	39.8	42.4	40.3	41.6	41.8	41	40.3	14.5	210
220	29.1	29.6	30.6	32	32.6	34.2	34.1	35	37.3	35.5	36.7	39	36.3	34.3	9.4	220
230	25	25.4		27.7	28.3	29.6	29.8	30.6	32.6	31.2	32.3	35	32	28.3		230
240	21.2	21.5		23.8	24.3	25.4	25.8	26.6	28.3	27.2	28.2	30.7	28	22.3		240
250	17.7			20.2	20.6		22.2	22.8	24.4	23.6	24.5	26.7	24.4	16.4		250
260	14.5			17	17.3		18.9	19.5	20.8	20.3	21.1	23.1	21.1	12.8		260
270				14	14.3		15.9	16.4		17.3	18	19.7	15.6	9.3		270
280							13.1	13.5		14.4	15.1	16.6				280
290										11.8	12.4					290
300										9.5	10					300
310											7.7					310

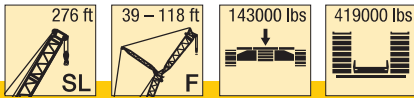
TAB 181118



ft	SL 256															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	301	269														45
50	294	263														50
55	283	256	159	207												55
60	268	250	155	201	181		164									60
65	244	243	152	195	176	110	159	137		136			123			65
70	224	226	148	190	171	108	154	132		132			120			70
75	206	209	145	184	166	105	149	128		127	109		115	97.5		75
80	190	193	142	179	161	103	144	124	84.5	123	105		111	94		80
85	176	178	139	175	156	101	139	120	82.5	118	101	70.5	107	90.5		85
90	164	166	137	165	152	99	134	116	80.5	113	98	68.5	102	87.5		90
95	152	154	134	154	147	97	130	112	79	109	94.5	67	98	84.5	58.4	95
100	142	143	131	144	142	95	126	109	77	106	91.5	65.5	94.5	81.5	56.8	100
105	132	134	129	134	137	93.5	121	106	75.5	102	88.5	64	91.5	78.5	55.2	105
110	124	125	127	126	128	92	117	103	74	99	86	62.5	88.5	76	53.8	110
115	116	117	121	118	120	90	114	100	72.5	95.5	83.5	61	85	73.5	52.3	115
120	108	110	114	111	113	88.5	110	97	71	92	81	59.5	82	71.5	50.9	120
125	102	103	107	104	106	87	105	95	70	89.5	78.5	58.2	79	69	49.5	125
130	95.5	96.5	100	97.5	99.5	86	98.5	92.5	68.5	87	76.5	56.9	77	66.5	48.3	130
135	89.5	91	94.5	92	93.5	84.5	93	90	67.5	84.5	74.5	55.6	74.5	65	47.2	135
140	84.5	85.5	88.5	86.5	88.5	83	88	87.5	66.5	82	73	54.4	72.5	63	46.1	140
150	74.5	75.5	78	77	78.5	79	78	80	64.5	76.5	69	52.3	68	59.7	43.6	150
160	65.5	66.5	68.5	68	69.5	73	69.5	71	62	69.5	65.5	50.4	63.5	56.3	40.8	160
170	57	57.9	60	60	61.5	64.5	61.5	63	60.5	62	62.5	48.5	59.6	53	37.5	170
180	49.8	50.7	52.6	53	54.1	56.9	55	56.4	58.2	55.4	56.8	46.8	54.6	50.4	34.3	180
190	43.4	44.2	45.9	46.5	47.5	49.9	48.6	49.9	53.3	49.4	51	45.3	49.1	48.1	30	190
200	37.7	38.3	39.9	40.6	41.5	43.7	42.7	43.9	46.9	43.8	45.3	43.9	43.7	45.1	24.7	200
210	32.5	33.1	34.4	35.3	36.1	38.1	37.3	38.4	41.1	38.7	40	42.5	38.7	40.4	18.5	210
220	28	28.5	29.6	30.6	31.4	33.1	32.6	33.6	36.1	33.9	35.2	38.2	34.4	35.9	12.3	220
230	23.8	24.3	25.3	26.4	27.1	28.6	28.3	29.2	31.5	29.6	30.8	33.7	30.2	31.7		230
240	20	20.4		22.5	23.1	24.4	24.4	25.2	27.2	25.6	26.7	29.4	26.4	27.4		240
250	16.5	16.9		18.9	19.4	20.6	20.7	21.5	23.3	22	23	25.4	22.7	22.8		250
260	13.4	13.7		15.7	16.2	17.1	17.5	18.2	19.7	18.7	19.6	21.8	19.4	17.1		260
270	10.6	10.8		12.7	13.1		14.5	15.1	16.4	15.7	16.5	18.5	16.4	13.3		270
280				10	10.3		11.7	12.2	13.4	12.9	13.7	15.4	13.6	10.1		280
290								9.6		10.3	11	12.5				290
300								7.2		8	8.5	9.9				300

TAB 181118

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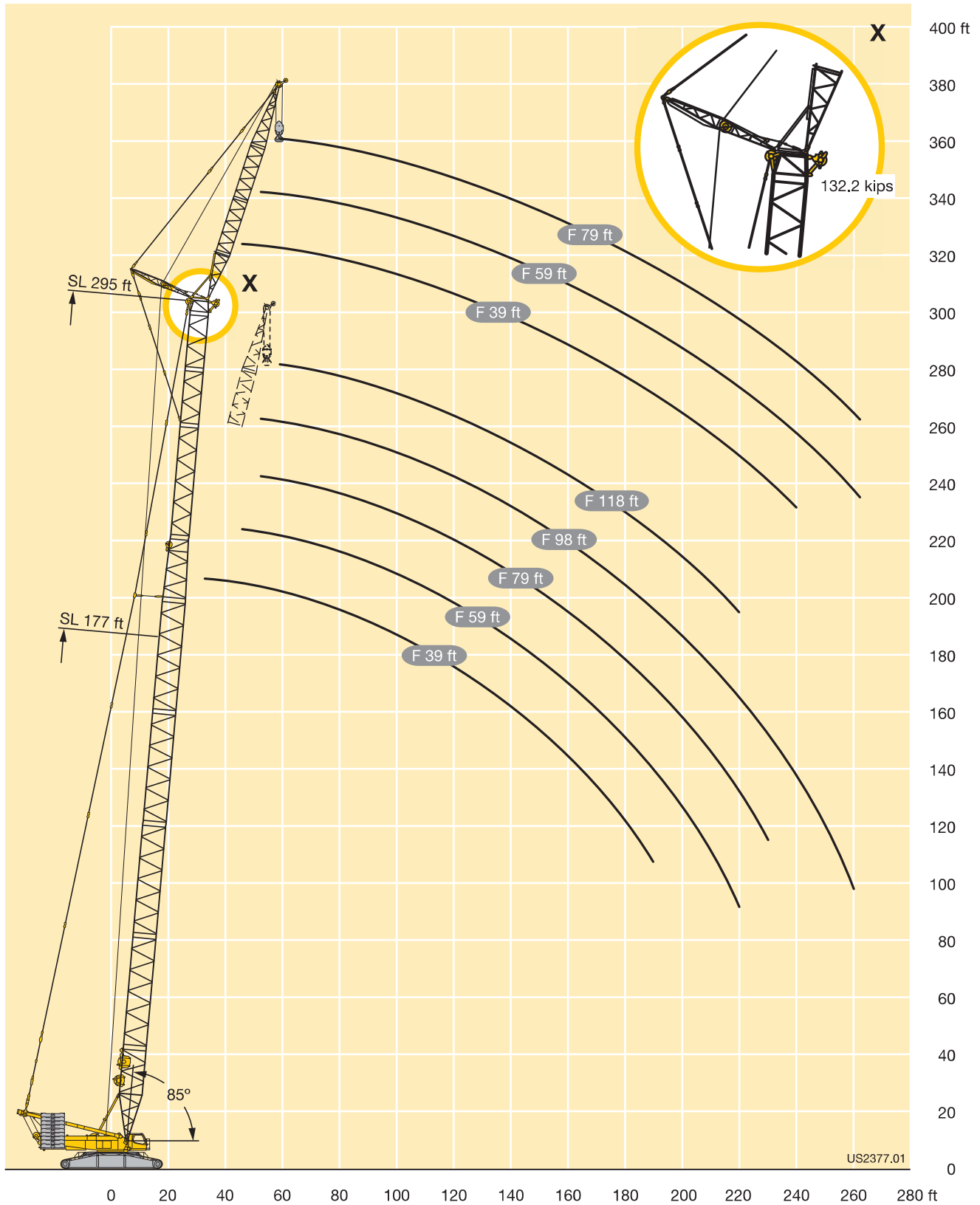


ft	SL 276															SL 295									ft	
	F 39			F 59			F 79			F 98			F 118			F 39			F 59			F 79				
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°		
45	301	270														294										45
50	295	265														289										50
55	280	259		209												274	257		207							55
60	258	252	157	203	182		165									249	249	157	203	182		164				60
65	235	237	153	198	178		161	138		138				124			227	230	154	198	179		160	139		65
70	216	218	150	194	174		156	134		134				120			208	211	151	194	175		157	135		70
75	198	201	147	189	169	106	151	130		129	110		116	98.5		191	194	148	188	171	106	153	131		75	
80	182	185	144	182	164	104	147	126	84.5	125	106		112	95		176	179	146	178	166	104	148	127		80	
85	169	171	141	171	159	102	142	122	83	120	103		108	91.5		162	165	143	165	162	102	144	124	83	85	
90	156	159	138	159	155	100	137	118	81	116	99.5		104	88.5		150	153	140	153	154	101	140	120	81.5	90	
95	145	147	136	148	148	98	133	115	79.5	112	96.5	67.5	100	86		140	142	138	142	145	99	135	117	80	95	
100	135	137	134	137	140	96	129	111	78	108	93	65.5	96.5	83	57	130	132	134	132	135	97	131	113	78.5	100	
105	126	127	131	128	131	94.5	125	108	76	105	90.5	64.5	93.5	80	55.6	120	122	128	123	126	95.5	124	110	77	105	
110	117	119	123	120	122	93	120	105	74.5	102	88	63	90.5	77.5	54.1	112	114	119	115	117	94	116	108	75.5	110	
115	109	111	116	112	114	91	113	102	73.5	98	85.5	61.5	87.5	75	52.8	105	106	111	107	110	92.5	108	105	74	115	
120	102	104	108	105	107	89.5	106	99.5	72	95	83	60	84.5	73	51.4	97.5	99	104	100	102	90.5	101	102	72.5	120	
125	95.5	97	101	98	100	88	99.5	97	71	91.5	80.5	58.8	82	71	50.1	91	92.5	96.5	93.5	95.5	89	95	97.5	71.5	125	
130	89.5	91	94.5	92	94	87	93.5	94.5	69.5	89.5	78	57.6	79	68.5	48.8	85	86.5	90.5	87.5	89.5	88	89	91.5	70.5	130	
135	84	85.5	89	86.5	88.5	85.5	88	90	68.5	86	76.5	56.4	76.5	66.5	47.7	79.5	81	84.5	82	84	85	83.5	86	69	135	
140	78.5	80	83.5	81	83	84	82.5	84.5	67.5	81.5	74.5	55.2	74.5	64.5	46.7	74.5	75.5	79.5	77	78.5	81.5	78.5	80.5	68	140	
150	69	70	73.5	71.5	73	77.5	73	75	65.5	73	71	53	70	61.5	44.5	64.5	66	69.5	67.5	69	73.5	69	71	66	150	
160	60.5	61.5	64	63	64.5	68	64.5	66	63.5	64.5	66.5	51.2	64	58.1	42.2	56.3	57.4	60.5	58.8	60.5	64.5	60.5	62	63.5	160	
170	52.8	53.8	56.3	55.2	56.5	60	56.6	58.3	61.5	57.1	59.2	49.4	56.8	55	39.2	48.8	49.8	52.5	51.3	52.7	56.3	52.7	54.5	59	170	
180	46.1	47	49.2	48.5	49.8	52.9	50	51.6	55.3	50.5	52.4	47.6	50.3	51.4	36.1	42.2	43.2	45.6	44.7	46	49.3	46.2	47.8	52.1	180	
190	39.8	40.6	42.6	42.5	43.6	46.5	43.9	45.4	49.1	44.5	46.3	46.1	44.4	46.5	33.1	36.3	37.2	39.4	38.7	39.9	42.9	40.2	41.7	45.7	190	
200	34	34.8	36.5	36.9	37.9	40.5	38.4	39.8	43.2	39.1	40.7	43.8	39	40.9	29.2	30.9	31.7	33.7	33.2	34.3	37.1	34.7	36.1	39.8	200	
210	28.8	29.4	31	31.7	32.6	34.9	33.4	34.6	37.8	34.1	35.6	39.5	34.1	35.9	23.4	25.9	26.7	28.5	28.2	29.2	31.8	29.7	31	34.4	210	
220	24.2	24.8	26.2	27	27.9	29.9	28.9	30.1	33	29.6	31.1	34.7	29.7	31.4	17.6	21.6	22.2	23.9	23.8	24.7	27.1	25.3	26.5	29.6	220	
230	20.1	20.6	21.8	22.8	23.5	25.4	24.7	25.8	28.4	25.5	26.9	30.2	25.6	27.2	11.8	17.5	18.1	19.5	19.7	20.6	22.7	21.2	22.3	25.2	230	
240	16.2	16.7	17.8	18.8	19.5	21.2	20.8	21.8	24.1	21.8	23	26.1	21.9	23.4		13.7	14.2	15.5	16	16.8	18.6	17.4	18.4	21	240	
250	12.7	13.2	14	15.2	15.9	17.3	17.2	18	20.1	18.2	19.4	22.2	18.4	19.8			10.7	11.8	12.5	13.2	14.9	13.9	14.8	17.2	250	
260	9.6	10	10.7	12	12.6	13.8	13.9	14.7	16.5	15.1	16.1	18.7	15.3	16.6			7.5	8.4	9.3	10	11.5	10.7	11.6	13.8	260	
270				9	9.5	10.6	10.9	11.6	13.2	12.1	13.1	15.4	12.4	13.6						8.3			8.6	10.6	270	
280									10.1	9.3	10.2	12.3	9.7	10.8											280	

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Lifting heights Hauteurs de levage

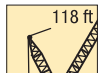
SLF



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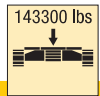
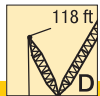
HSL2DFB/B2/BW

HSL2 236 - 335



550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		SL2 236					SL2 256					SL2 276					SL2 295					SL2 315					SL2 335					
		39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	
45	- B B2 BW	302 302 302					302 302 302																									
50	- B B2 BW	302 302 302					302 302 302																									
55	- B B2 BW	296 228 302 236 302 236 302 236					292 302 302 302					288 302 302 302					278 302 302 302					269 302 302 302										
60	- B B2 BW	281 226 302 227 302 226 302 226					271 228 302 228 302 228 302 228					262 228 302 228 302 228 302 227					252 223 302 223 301 222 301 223					244 301 301 301					234 294 289 290					
65	- B B2 BW	256 217 173 152 302 217 173 152 302 217 172 152 302 217 172 152					247 221 175 302 217 176 302 221 175 302 221 175					238 223 178 302 223 178 302 222 177 302 223 177					229 216 302 217 175 296 217 175 297 218 175			175		222 213 297 213 297 213 296 213					213 205 290 210 283 209 284 209					
70	- B B2 BW	235 207 166 146 302 207 166 146 302 207 166 146 302 207 166 146					226 212 169 302 212 169 302 212 169 302 212 169					218 216 172 302 216 172 302 216 171 302 217 171					209 204 169 297 213 171 288 212 171 289 212 171					203 203 291 210 292 210 291 210					194 194 285 207 276 205 277 205					
75	- B B2 BW	216 198 159 140 127 299 199 159 140 127 300 198 159 140 127 300 198 159 140 127					208 203 163 142 129 299 203 163 142 129 299 203 162 142 129 299 203 162 142 129					200 204 165 144 131 298 210 165 144 130 298 210 165 144 130 299 210 165 144 130					192 192 166 145 209 209 166 145 280 206 166 145 280 206 166 145					186 191 167 142 286 206 167 144 286 206 166 144 286 206 166 144					178 183 164 279 204 165 270 201 164 270 201 164					
80	- B B2 BW	199 190 153 134 121 294 191 153 134 121 294 190 152 134 121 294 190 153 134 121					191 193 156 136 123 293 195 156 136 123 294 195 156 136 123 294 196 156 137 123					184 189 159 139 125 292 204 159 139 126 292 204 159 139 125 293 204 159 138 125					176 181 161 140 126 284 204 161 140 126 284 204 161 140 126 272 200 161 140 126					170 176 163 141 126 282 202 163 141 126 280 202 163 141 126 280 203 163 141 126					163 141 126 275 201 161 141 125 263 196 160 140 125 264 196 160 140 125					
85	- B B2 BW	184 183 146 128 116 283 183 146 128 116 284 183 146 128 116 284 183 146 128 116					177 180 150 131 118 286 188 150 131 118 287 188 149 131 118 287 188 149 131 118					170 174 153 134 120 286 197 153 134 121 286 197 153 133 120 287 197 153 133 120					162 167 156 135 122 277 199 156 135 122 264 194 156 135 122 264 194 156 135 122					157 162 157 137 123 277 199 158 137 123 273 199 157 137 123 274 199 158 137 123					150 155 153 138 122 269 197 158 138 122 257 191 156 137 122 258 191 156 137 122					
90	- B B2 BW	170 173 141 123 111 273 176 141 123 111 273 176 141 123 111 273 176 141 123 111					164 167 144 126 114 278 181 144 126 114 278 181 144 126 114 279 181 144 126 114					157 162 148 129 115 280 190 148 129 116 280 190 148 129 116 280 190 147 128 116					150 155 149 130 117 268 193 150 131 117 268 193 150 131 117 257 189 150 131 117					145 150 150 133 119 273 194 153 133 119 266 194 152 132 119 267 195 153 133 119					138 144 144 133 120 269 197 158 138 122 251 187 153 133 119 252 187 153 133 119					
95	- B B2 BW	158 162 135 118 107 262 170 135 118 107 262 170 135 118 107 263 170 135 118 107					152 156 139 121 109 269 175 139 121 109 269 175 139 121 109 270 175 139 121 109					145 150 142 124 111 273 184 143 124 112 273 183 143 124 111 273 183 142 124 111					139 144 143 126 113 260 187 146 126 113 249 184 144 126 113 250 185 145 126 113					134 139 142 128 115 269 189 148 128 115 260 189 148 128 115 260 190 148 128 115					127 133 136 128 116 256 190 150 130 116 245 182 149 129 116 246 182 149 129 116					
100	- B B2 BW	147 151 130 113 102 252 164 130 114 102 252 164 130 113 102 252 164 130 114 102					141 145 134 117 105 261 169 134 117 105 261 169 134 117 105 261 169 134 117 105					135 140 137 120 107 266 177 138 120 108 266 177 138 120 107 266 177 138 120 107					129 136 122 109 112 253 181 141 122 109 243 179 140 121 109 243 180 140 122 109					124 129 132 124 111 264 184 144 124 111 253 184 143 124 111 254 185 144 124 111					117 123 126 123 112 249 186 146 126 113 239 178 145 125 112 240 178 145 125 112					
105	- B B2 BW	137 141 126 109 98.2 243 159 126 109 98.2 242 159 126 109 98.2 242 159 126 109 98.2					131 135 129 112 101 252 164 129 112 101 252 164 129 112 101 253 164 129 112 101					126 130 133 116 103 259 172 133 116 104 259 172 133 116 103 259 172 133 116 103					119 124 127 118 105 247 175 137 118 106 237 174 135 118 105 237 175 136 118 105					114 120 122 119 107 257 179 139 120 108 247 179 139 120 107 248 179 139 120 108					107 118 117 118 108 243 181 142 122 109 233 174 141 122 109 235 174 141 122 109					
110	- B B2 BW	128 132 122 105 94.1 235 153 122 105 94.1 235 153 122 105 94 235 153 122 105 94					122 126 125 108 97.3 244 159 126 108 97.3 244 159 125 108 97.3 244 159 125 108 97.3					117 122 124 112 99.6 252 167 129 112 99.6 252 166 129 112 99.6 252 167 129 112 99.6					111 116 119 113 102 240 170 132 114 102 230 169 131 114 102 230 170 131 114 102					106 111 114 115 104 252 175 135 117 104 241 175 135 117 104 242 174 135 117 104					99.9 106 109 110 104 238 177 138 119 106 228 170 138 118 105 230 170 137 118 105					
115	- B B2 BW	120 123 118 102 90.6 228 148 118 102 90.6 227 148 118 102 90.6 227 148 118 102 90.6					114 118 120 104 93.6 237 154 122 104 93.6 237 154 122 104 93.6 237 154 122 105 93.5					109 114 116 108 96.1 235 162 125 108 96.2 235 162 125 108 96.2 235 162 125 108 96.2					103 110 111 109 98.1 233 165 128 110 98.5 236 165 127 110 98.1 224 165 127 110 98.2					98.2 104 107 108 100 246 171 131 113 101 236 170 131 113 101 237 170 131 113 101					92.3 98.1 101 103 100 232 173 134 115 103 223 166 134 115 102 225 166 133 115 102					
120	- B B2 BW	112 116 114 98.3 87.5 220 143 114 98.3 87.5 220 143 114 98.3 87.5 220 143 114 98.2 87.5					107 111 114 101 90.3 239 157 121 104 90.3 239 157 121 104 90.2 238 157 121 104 90.2					101 106 109 104 92.7 235 157 121 104 92.7 235 157 121 104 92.7 238 157 121 104 92.7					95.4 101 103 104 94.6 225 161 124 107 95 218 160 123 106 94.8 218 161 124 106 94.9					91 96.4 99.4 101 96.7 240 166 127 110 97.8 230 165 127 109 97.4 231 165 127 109 97.4					85.3 91 94.1 95.8 95.2 227 169 130 112 99.5 219 163 130 112 99.2 220 163 129 111 99.2					
125	- B B2 BW	105 109 110 95 84.6 213 139 110 95 84.6 212 139 110 94.6 84.6 213 139 110 94.7 84.6					99.6 103 107 98.1 87.4 223 144 114 98.5 87.4 223 144 114 98 87.3 223 144 114 98.4 87.4					91 102 101 89.6 232 152 118 101 89.6 231 152 118 101 89.6 232 152 118 101 89.6					88.6 93.8 96.7 98.3 91.3 219 156 121 104 91.6 215 120 103 91.6 215 156 120 103 91.7					89.7 92.7 94.4 93.4 88.3 233 162 124 106 94.7 225 161 124 106 94.4 225 161 124 106 94.2					87.7 84.3 87.5 89.4 88.8 222 165 127 109 96.5 214 159 126 108 96.2 214 159 126 108 96.1					
130	- B B2 BW	98.4 102 105 91.7 81.6 206 135 107 91.7 81.6 205 135 107 91.3 81.6 206 135 106 91.3 81.6					93.2 97 100 95 84.5 216 141 110 95 84.4 216 140 110 95 84.4 216 140 110 95.3					87.8 92.8 95.5 96.6 86.9 226 148 114 98.1 86.9 225 147 114 98 86.9 225 147 114 98.1 86.9					82.4 87.6 90.5 92.1 88.5 215 118 101 88.8 206 151 117 100 88.8 206 152 117 100 88.9					78.2 83.6 86.6 88.3 87.8 227 157 121 103 91.6 219 156 121 103 91.3 219 156 121 103 90.9					78.3 81.5 83.4 82.9 93.6 216 160 124 106 93.6 209 156 123 105 93.2 209 156 123 105 93.2					
135	- B B2 BW	92.5 96.2 99.3 88.8 78.8 200 131 104 88.8 78.8 200 131 104 88.4 78.8 200 131 103 88.4 78.8					91.2 94.6 91.8 81.7 210 137 107 92.2 81.7 210 137 107 92 81.6 210 136 107 92.3					87 89.8 91.4 84.3 219 144 111 95.1 84.3 218 144 111 95.1 84.2 219 144 111 95.2					76.8 81.9 84.9 86.6 84.5 207 147 114 97.8 207 147 114 97.5 207 147 114 97.5					72.6 78 81 82.8 221 153 117 100 89 214 152 117 100 88.7 214 152 117 100 88.2					67.2 72.8 76 78 77.6 211 156 121 103 90.9 204 153 120 102 90.5 205 152 120 102 90.3					
140	- B B2 BW	86.9 90.5 93.7 86.1 75.9 195 128 101 86.1 75.9 195 127 101 85.7 75.9 195 127 101 85.7 75.9					81.8 85.6 89 88.6 204 133 105 89.2 204 133 104 89.1 204 133 104 89.3					78.8 81.5 84.3 86 81.7 213 140 108 92.2 212 140 108 92.2 212 140 108 92.3					71.4 74.2 76 75 61.5 207 147 114 95.8 207 147 114 95.8 207 147 114 95.8					67.3 72.6 75.7 77.5 215 149 114 97.6 209 148 114 97.6 209 148 114 97.4					61.9 67.5 70.7 72.8 72.5 206 152 118 100 88.3 209 149 117 99.7 88 209 149 117 99.8 87.9					
150	- B B2 BW	76.6 80.2 83.4 81 71.1 184 121 95.2 81 71.1 184 120 94.7 80.7 71.1 184 121 95.1 80.7 71.1					71.9 71.6 75.4 78.9 194 126 99 84 73.8 193 126 98.7 83.9 73.7 193 126																									

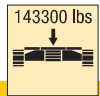
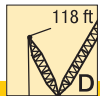


550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		SL2 236					SL2 256					SL2 276					SL2 295					SL2 315					SL2 335				
		39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118
160	-	67.3	71	74.3	75.5	66.9	62.5	66.3	69.8	71.6	68.9	57.5	62.4	65.3	67.2	67.2	52.7	57.7	60.7	62.7	62.8	48.8	53.9	57.1	59.2	59.2	43.6	49	52.3	54.5	54.7
	B	175	115	90.1	76.3	66.9	184	120	93.8	79.4	69.4	192	126	97	82.3	71.8	180	130	100	84.5	73.9	193	135	103	87.1	76.7	186	138	106	89.8	78.8
	B2 BW	174	115	89.4	76.1	66.9	183	120	93.4	79.3	69.2	192	126	96.9	82.2	71.7	177	129	100	84.5	73.8	189	134	103	87.3	76.5	182	137	105	89.7	78.7
170	-	58.6	62.7	66.2	67.8	62.8	54.5	58.3	61.8	63.6	63.6	49.6	54.4	57.3	59.3	59.4	44.9	49.8	52.8	54.9	55.1	41	46.1	49.3	51.4	51.6	36	41.3	44.6	46.9	47.1
	B	167	109	85.8	71.8	62.8	174	114	89.2	74.9	65.4	183	121	92.2	78	68.1	173	124	94.9	80.5	69.8	183	128	98.3	82.9	72.2	176	132	101	85	74.2
	B2 BW	167	109	85.4	71.8	62.8	174	114	88.9	74.8	65.3	182	121	91.8	77.9	68	171	123	95.2	80.5	69.8	181	128	98.2	83.1	72.1	173	131	101	85.2	74.2
180	-	51.1	55.2	58.7	60.8	59.3	47.6	51.3	54.8	56.7	56.9	42.7	47.4	50.3	52.3	52.6	38.1	42.9	46	48.1	48.4	34.3	39.3	42.4	44.6	44.9	29.3	34.5	37.8	40.2	40.5
	B	159	105	81.5	68.4	59.3	167	109	85.1	71.2	61.6	175	115	88.3	74.1	64.4	167	119	90.4	76.4	66.3	173	123	93.7	79.2	68.7	166	126	96.8	81.5	70.5
	B2 BW	159	105	81.4	68.3	59.2	167	109	85	71.1	61.4	174	116	88	73.7	64.3	165	118	90.7	76.6	66.3	175	123	93.7	79.1	68.6	167	125	96.5	81.3	70.5
190	-	44.4	48.4	51.9	54.1	54.5	41.2	44.8	48.3	50.3	50.7	36.5	41	44	46	46.4	31.9	36.6	39.7	41.8	42.2	28.1	33	36.2	38.4	38.8	23.2	28.3	31.6	34	34.4
	B	153	100	77.8	65.1	56.1	160	104	81.3	67.9	58.4	168	111	84.5	70.7	61	159	114	86.6	72.8	62.8	168	118	89.6	75.3	65.4	161	121	92.4	77.9	67.1
	B2 BW	152	100	77.8	64.8	56	160	104	81.1	67.8	58.3	167	111	84.3	70.3	60.9	159	114	86.9	72.9	62.8	169	118	89.7	75.1	65.2	162	121	92.1	77.5	67.1
200	-	38.3	42.3	45.7	47.9	48.8	35.3	39	42.5	44.5	45	30.7	35.2	38.1	40.3	40.8	26.3	30.9	33.9	36.1	36.6	22.5	27.3	30.5	32.7	33.2	17.6	22.7	26	28.4	28.9
	B	146	96.3	74.5	61.9	53.2	154	100	77.7	64.8	55.6	161	106	81	67.6	57.9	153	109	83.3	69.5	59.7	162	114	86	71.8	62.1	155	117	88.5	74.2	64
	B2 BW	146	96.2	74.4	61.7	53.1	153	101	77.5	64.7	55.5	161	106	80.7	67.3	57.8	154	109	83.5	69.6	59.5	164	113	86.1	71.5	61.9	157	117	88.2	74	63.9
210	-	32.8	36.7	40.1	42.3	43.2	29.8	33.7	37.1	39.2	39.7	25.5	29.9	32.8	35	35.5	21.1	25.7	28.7	30.9	31.5	17.4	22.1	25.2	27.5	28.1	12.5	17.6	20.8	23.2	23.8
	B	141	92.2	71.5	59.3	50.2	148	96.6	74.7	61.8	53	155	102	77.6	64.7	55.3	149	105	79.9	66.7	57	157	109	82.8	68.9	58.9	150	113	85.3	70.7	60.9
	B2 BW	141	92.4	71.4	59	50.1	147	96.6	74.4	61.6	52.8	155	102	77.2	64.4	55.2	150	105	80.2	66.8	56.8	159	109	82.9	68.7	58.8	151	113	85.2	70.6	60.5
220	-	28.1	31.8	35.2	37.3	38.3	24.9	28.8	32.2	34.5	35	20.9	25.2	28.1	30.3	30.9	16.6	21	24	26.2	26.9	12.9	17.5	20.5	22.9	23.5	7.6	12.9	16.1	18.6	19.2
	B	136	89	68.5	56.9	46.1	143	93.1	71.9	59.3	50.3	150	98.7	74.8	61.8	52.8	145	102	76.8	63.9	54.6	153	105	79.7	66.3	56.5	145	108	82.3	68.2	58.3
	B2 BW	136	89.3	68.3	56.7	45.9	142	92.9	71.6	59.2	49.9	149	98.3	74.5	61.5	52.5	146	102	77.1	64	54.3	155	105	79.6	66	56.4	148	109	82.2	68.1	58.2
230	-	23.2	26.5	30.6	32.8	33.8	20.5	24.3	27.7	30	30.7	16.7	20.8	23.7	25.9	26.6	16.7	19.6	21.9	22.6	16.7	19.6	21.9	22.6	16.2	18.6	19.3	14.3	16.2	18.2	
	B	131	85.9	66	54.5	41.8	138	89.9	69.2	57	46.6	145	95.3	72	59.3	50	142	98.2	74.1	61.3	52.1	149	102	76.8	63.7	54.2	142	105	79.2	65.7	55.9
	B2 BW	131	86.2	65.7	54.3	41.5	138	89.8	68.9	56.8	46.2	144	94.8	71.8	59.1	49.6	143	97.9	74.4	61.3	51.8	151	101	76.6	63.4	54.1	144	105	79.1	65.6	55.9
240	-	18.3	21.5	25.2	27.1	27.7	16.4	20.1	23.6	25.8	26.7	16.8	19.6	21.8	22.6	16.8	19.6	21.8	22.6	15.6	17.9	18.6	14.6	15.3	13.8	15.3	12.9	14.6	16.2		
	B	131	83.1	63.7	52.3	37.5	133	87.1	66.6	54.7	42.5	140	92.1	69.4	57	46.8	139	94.8	71.7	58.9	49.4	146	98.7	74.2	61.2	51.9	138	102	76.4	63.3	53.7
	B2 BW	131	83.2	63.5	52.2	37.1	133	86.9	66.4	54.4	42.1	139	91.7	69.1	56.9	46.1	140	94.5	71.9	59	49.1	147	98.2	74.1	60.9	51.7	140	102	76.3	63	53.8
250	-	22.6	24.8	25.8			16.3	19.8	21.9	23				15.8	18	18.9						14.3	16.2	17.8	19.4	20.1	13.5	15.4	17.1	18.8	
	B	131	81.3	61.3	50.3	32.9	133	84.4	64.4	52.5	38.5	135	89.1	66.9	54.9	43	137	91.7	69.2	56.9	46.3	143	95.5	71.8	58.9	49.6	135	98.6	74	60.8	51.5
	B2 BW	131	81.3	61.3	50.2	32.5	133	84.1	64.2	52.1	38	134	89.1	66.5	54.8	42.1	137	91.3	69.3	56.9	45.8	144	95.1	71.8	58.6	49.3	137	98.5	73.9	60.6	51.6
260	-	19.1	21.5	22.1			12.8	16.2	18.6	19.6				12.4	14.6	15.5						14.0	16.2	17.8	19.4	20.1	13.3	15.4	17.1	18.8	
	B	131	81.3	61.3	50.3	32.9	133	84.4	64.4	52.5	38.5	135	89.1	66.9	54.9	43	137	91.7	69.2	56.9	46.3	143	95.5	71.8	58.9	49.6	135	98.6	74	60.8	51.5
	B2 BW	131	81.3	61.3	50.2	32.5	133	84.1	64.2	52.1	38	134	89.1	66.5	54.8	42.1	137	91.3	69.3	56.9	45.8	144	95.1	71.8	58.6	49.3	137	98.5	73.9	60.6	51.6
270	-	15.2	18.3	20.1	21.5	22.1						12.9	15.4	16.4						14.0	16.2	17.8	19.4	20.1	13.3	15.4	17.1	18.8			
	B	131	81.3	61.3	50.3	32.9	133	84.4	64.4	52.5	38.5	135	89.1	66.9	54.9	43	137	91.7	69.2	56.9	46.3	143	95.5	71.8	58.9	49.6	135	98.6	74	60.8	51.5
	B2 BW	131	81.3	61.3	50.2	32.5	133	84.1	64.2	52.1	38	134	89.1	66.5	54.8	42.1	137	91.3	69.3	56.9	45.8	144	95.1	71.8	58.6	49.3	137	98.5	73.9	60.6	51.6
280	-	12.9	15.4	16.4			10.3	12.8	14.6	15.5				10.3	12.4	13.3						14.0	16.2	17.8	19.4	20.1	13.3	15.4	17.1	18.8	
	B	131	81.3	61.3	50.3	32.9	133	84.4	64.4	52.5	38.5	135	89.1	66.9	54.9	43	137	91.7	69.2	56.9	46.3	143	95.5	71.8	58.9	49.6	135	98.6	74	60.8	51.5
	B2 BW	131	81.3	61.3	50.2	32.5	133	84.1	64.2	52.1	38	134	89.1	66.5	54.8	42.1	137	91.3	69.3	56.9	45.8	144	95.1	71.8	58.6	49.3	137	98.5	73.9	60.6	51.6
290	-	10.3	12.8	14.6	15.5			8.8	10.3	11.2	12.1				8.8	10.3	11.2						14.0	16.2	17.8	19.4	20.1	13.3	15.4	17.1	18.8
	B	131	81.3	61.3	50.3	32.9	133	84.4	64.4	52.5	38.5	135	89.1	66.9	54.9	43	137	91.7	69.2	56.9	46.3	143	95.5	71.8	58.9	49.6	135	98.6	74	60.8	51.5
	B2 BW	131	81.3	61.3	50.2	32.5	133	84.1																							

HSL2DFB/B2/BW

HSL2 354 - 453

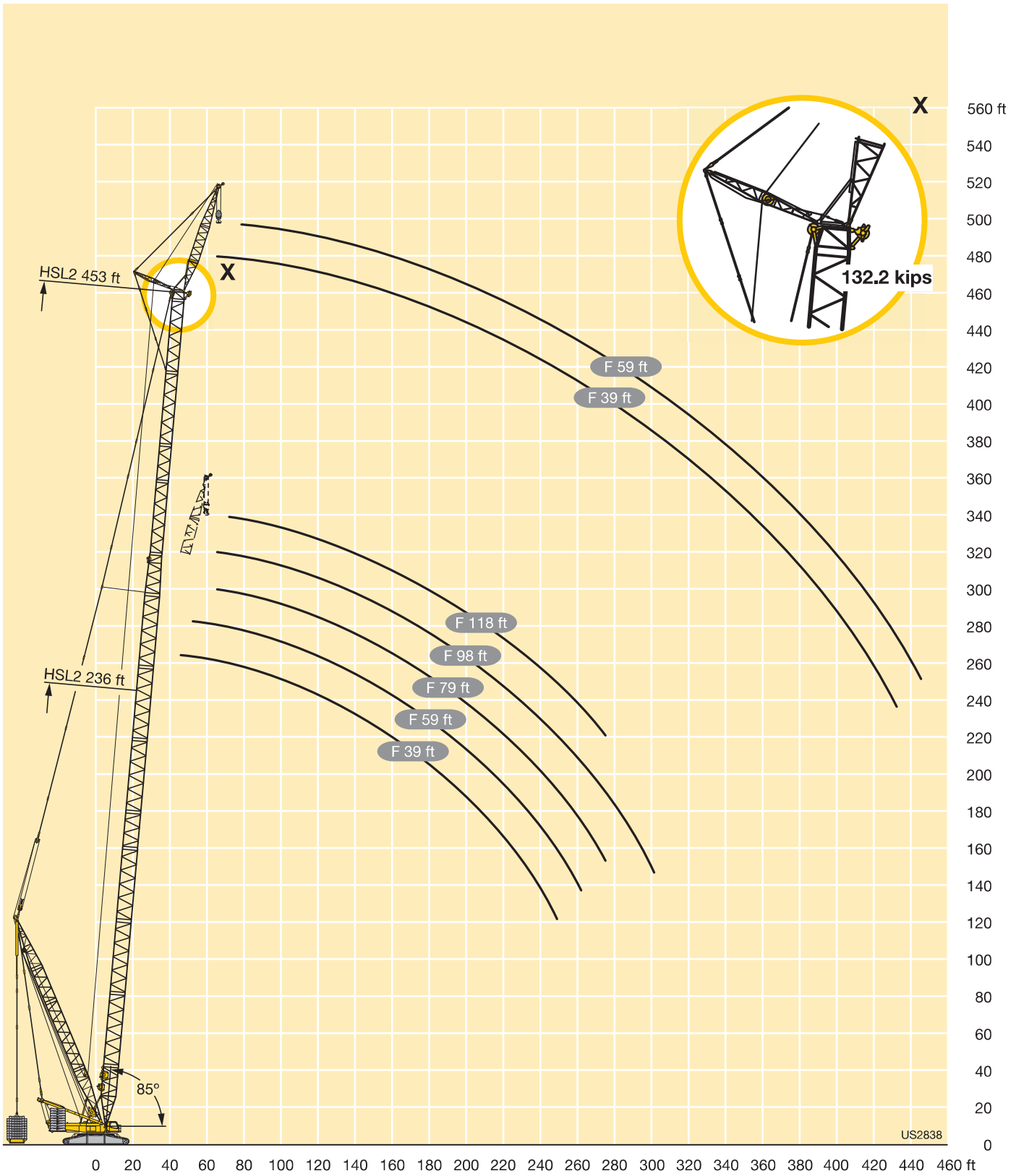


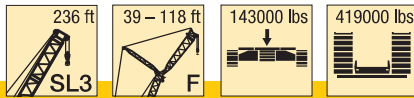
550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

B B2 BW

ft		SL2 354					SL2 374					SL2 394					SL2 413					SL2 433					SL2 453	
		39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59	79	98	118	39	59
220	B B2 BW	153 157 156	112 112 113	85.1 85 84.9	14.3 70.2 70.4	15 60.3 60.3	152 156 156	116 116 116	89.3 89.3 89.3	72.2 71.9 72.1	13.3 64.5 64.3	151 157 155	116 117 117	91.4 91.5 91.6	74.4 74.2 74.4	66.7 66.3 66.3	136 141 140	108 107 107	90.2 87.9 88.1	78.2 76.3 76.4	67.5 66.6 66.5	127 131 131	107 105 105	89.6 87.5 87.5	78.1 76 75.9	68.2 66.4 66.4	112 111 111	92.1 92.3
230	B B2 BW	148 153 152	108 108 109	82.2 82 82.1	67.8 67.8 67.9	57.8 57.8 57.7	147 152 152	112 112 113	86.4 86.3 86.4	69.5 69.2 69.4	61.6 61.4 61.3	147 152 151	113 114 114	88.3 88.5 88.5	71.3 71.2 71.4	63.7 63.5 63.4	133 137 137	104 105 105	87.2 85.1 85.3	75.2 73.7 73.7	64.6 64.1 64	123 128 128	103 102 102	86.7 84.6 84.7	75.5 73.6 73.6	65.8 64.3 64.3	106 108 108	88.9 88.9
240	B B2 BW	145 149 149	105 105 105	79.4 79 79.3	65.4 65.5 65.5	55.6 57.8 55.5	143 148 148	109 109 110	83.5 83.4 83.6	67.2 66.9 67.1	59.1 58.9 58.8	142 149 147	110 112 111	85.6 85.7 85.7	68.7 68.6 68.7	61 60.8 60.8	129 133 133	101 102 102	84.7 82.8 82.9	72.4 71.2 71.2	61.8 61.5 61.5	120 124 124	97.6 99.2 99.3	83.7 82 82.1	72.8 71.2 71.2	63.4 62.1 62.3	104 105 105	86.1 86.2
250	B B2 BW	142 145 146	102 102 102	76.6 76.1 76.5	63 63.2 63.1	53.5 53.5 53.4	141 145 145	106 106 106	80.6 80.5 80.9	64.9 64.6 64.9	57 56.8 56.7	139 145 144	107 109 108	82.9 82.9 82.9	66.5 66.5 66.6	58.6 58.5 58.5	126 130 129	98.8 99.7 99.8	82.6 80.8 81	69.9 69 68.9	59 59 59.1	117 121 121	95.2 96.8 96.8	80.8 79.9 80.1	70.2 68.8 68.9	61 60 60.2	101 103 103	84 84.1
260	B B2 BW	139 142 142	99.1 98.8 98.9	74.3 74 74.3	60.7 60.8 60.8	51.5 51.3 51.3	138 142 142	103 103 104	77.8 77.7 78.1	62.6 62.4 62.6	54.9 54.8 54.8	137 143 141	104 106 106	80.3 80.1 80.2	64.3 64.3 64.4	56.7 56.4 56.4	122 127 127	96.3 97.2 97.3	80.5 78.9 79.1	67.9 67 67	57.2 57.1 57.1	114 118 118	92.8 94.3 94.4	78 78 78.2	68.3 67.2 67.2	58.8 58 58.9	98.1 99.8 99.9	81.8 82
270	B B2 BW	136 139 139	96.3 96 96.1	72.2 72 72.2	58.8 58.8 58.8	49.3 49 49	135 139 139	101 100 101	75.7 75.5 75.9	60.3 60.2 60.4	52.9 52.7 52.6	134 140 138	102 103 103	77.7 77.6 77.6	62.2 62.2 62.3	54.7 54.4 54.3	120 124 124	93.4 95 95	78.4 77 77.2	65.8 65.1 65.2	55.3 55.2 55.3	110 115 115	90.4 91.9 92	75.3 76.1 76.3	66.5 65.6 65.6	56.9 56.3 56.2	94.8 97.1 97.1	79.6 79.8
280	B B2 BW	133 136 136	93.6 93.3 93.3	70.1 69.9 70.1	57.1 57.2 57.1	46.7 46.3 46.3	132 136 135	98 97.6 97.9	73.6 73.5 73.9	58.3 58.3 58.5	50.7 50.4 50.4	132 137 135	99.4 101 100	75.6 75.3 75.4	60.2 60.1 60.2	52.8 52.4 52.3	118 121 121	91.5 93.1 93.1	75.7 75.1 75.3	63.7 63.1 63.4	53.5 53.3 53.5	108 113 113	87.5 89.7 89.8	73.4 74.2 74.5	64.6 64.1 64	55.1 54.5 54.5	91 94.8 94.8	77.5 77.7
290	B B2 BW	130 135 133	91 90.9 90.8	68 67.9 68.1	55.5 55.2 55.4	43.5 43.1 43.2	128 134 130	95 94.9 95.2	71.6 71.5 71.9	56.6 56.7 56.8	48.1 47.7 47.8	129 134 132	97.1 98.2 97.9	73.7 73.4 73.6	58.2 58.2 58.2	50.7 50.3 50.2	116 119 119	89.9 91.4 91.4	72.8 73.4 73.6	61.6 61.2 61.5	51.7 51.5 51.7	106 110 111	85.4 87.9 87.9	71.6 72.6 72.6	62.7 62.5 62.3	53.3 52.8 52.7	88.6 92.8 92.8	75.5 75.7
300	B B2 BW	127 133 130	88.7 88.8 88.8	66.1 66.1 66.1	53.8 53.5 53.7	40.4 39.9 40.2	123 131 126	92.6 92.4 92.7	69.6 69.5 69.9	55 55.1 55.2	44.9 44.3 44.5	124 130 126	94.8 95.6 95.4	71.8 71.4 71.7	56.7 56.7 47.5	48.1 47.5 47.5	113 116 116	88.2 89.7 89.7	71.4 71.9 72	59.7 59.5 59.8	49.9 49.5 49.8	104 108 108	83.9 86.3 86.3	69.9 70.8 71.1	60.9 60.7 60.7	51.6 51.1 51	87 90.8 90.9	74 74.1
310	B B2 BW	121 130 124	86.4 86.6 86.8	64.5 64.5 64.5	52.1 51.8 52	37.3 36.4 37.2	118 129 121	90.5 90.3 90.6	67.7 67.7 67.9	53.4 53.5 53.5	41.8 40.8 41.2	118 126 120	92.5 93.2 93	69.9 69.5 69.9	55.1 55.1 55.2	44.3 44.3 44.6	110 114 112	86.5 88 88	69.9 70.4 70.5	58.1 58 58.2	47.2 46.8 47.1	102 106 106	82.3 84.6 84.6	68.3 69.6 69.6	59.2 59.2 59.2	49.8 49.4 49.3	85.3 88.9 88.9	72.5 72.6
320	B B2 BW	115 127 118	84.3 84.5 84.7	62.9 63 63	50.5 50.3 50.5	33.9 32.8 33.7	113 126 116	88.4 88.2 88.6	66 66 66.2	51.8 52 51.9	38.6 37.4 38	112 122 114	90.5 91.1 90.9	68 67.7 68.1	53.5 53.6 53.7	42 41 41.6	105 112 108	84.7 86.3 86.4	68.4 68.9 68.9	56.6 56.6 56.7	44.1 43.7 44	99.4 104 103	80.8 82.8 82.9	66.8 68.2 68.2	57.7 57.9 57.8	47.3 47 46.8	83.7 86.7 87	71.1 71.1
330	B B2 BW		82.3 82.6	61.4 61.5	49.1 49.1	29.5 29.3	107 110	86.3 86.6	64.6 64.7	50.3 50.4	35.3 34.6	105 118 108	88.6 89.3 88.8	66.3 66.1 66.4	51.9 52 52.2	38.9 37.7 38.6	101 110 104	83.5 84.9 85	67 67.4 67.4	55 55.1 55.2	41 40.3 40.7	95.8 99.4 99.4	78.9 81.3 81.3	65.3 66.8 66.8	56.3 56.4 56.5	44.2 44.2 43.9	81.9 84.8 85.1	69.6 69.6
340	B B2 BW		80.6 80.8	59.8 59.8	47.8 47.8	22.8 22.2	102 114	84.3 84.2	63.2 63	49.2 49.3	31.4 29.7	112 110 103	87.3 86.8 86.8	64.8 64.9 64.9	50.4 50.7 50.7	35.8 35.6 35.6	96.6 107 99.8	82.5 83.8 83.8	65.7 65.9 65.9	53.5 53.7 53.7	37.8 36.9 37.4	92.1 101 95.8	77.8 79.9 80	64.1 65.6 65.4	54.8 54.9 55.1	41 40.8 40.8	79.8 83.5 83.5	68.1 68.1
350	B B2 BW		58.7 58.3	46.6 46.5	16.1 15.8		82.7 82.5	61.8 61.6	48.1 48	25.4 23.9	94 107 96.9	84.8 85.5 84.9	63.3 63.4 63.5	49.3 49.4 49.5	31.9 30.5 31.8	91.9 104 95.1	81.6 82.8 82.7	64.5 64.4 64.6	51.9 52.3 52.3	34.7 33.5 34	88.5 99.2 92.2	77 78.8 78.9	62.7 64.7 64.1	53.4 53.4 53.7	37.8 37.6 37.8	77.8 82.1 82	66.9 66.8	
360	B B2 BW		57.5 57	45.4 45.4			81.4 81.2	60.3 60.3	47 46.8	19.2 18		83.1 83.7	61.9 62	48.2 48.3	26.9 25.6	86.8 99.2	80.7 81.7	63.2 63	50.7 51	31.1 29.8	84.6 96.9	76.1 77.6	61.8 61.8	51.9 52	34.7 34.4	75.8 80.8	65.9 65.8	
370	B B2 BW			44.4 44.4				59.1 59.1	45.9 45.7				81.5 82.1	60.6 60.7	47.2 47.1	21 20.1	81.8 94	79.6 80.8	62 61.6	49.7 49.9	26.9 25.6	80.5 93.5	75.3 76.5	61.4 62.5	50.8 50.7	31.1 31.5	73.7 78.8	64.9 64.8
380	B B2 BW			43.5 43.4				57.9 58.1	44.8 44.6				80 80.6	59.5 59.4	46.1 46	15.1 14.6	76.9 89.2	78 80	60.8 60.2	48.7 48.7	21.6 20.5	75.9 88.6	74.4 75.7	60.8 61.4	49.7 49.9	27.7 27.3	71.1 78.4	64 63.9
390	B B2 BW							43.8 43.6						58.3 58.1	45.1			74.8 79.4	59.3 59.3	47.6 47.6	16.2 15.5	71.4 83.9	71.7 74.8	60.2 60.6	48.7 48.6	22.7 22.5	67.3 77.6	63
400	B B2 BW													44 44.2				58.5 58.4	46.6 46.6				68.5 74.3	59.4 59.6	47.7 47.6	17.8 17.7	63.4 67.4	62.2
410	B B2 BW													43 43.3				57.6 57.3	45.6 45.6				58.4 58.5	46.7 46.8			61.5 61.3	
420	B B2 BW																	44.8 44.7					57.3 57.6	45.7 45.5			61 60.1	
430	B B2 BW																	43.9 43.9					56.3 56.8	44.9 44.7			60.6 57.2	
440	B B2 BW																							44.2 43.9				

TAB 181450 / 181452 / 181456

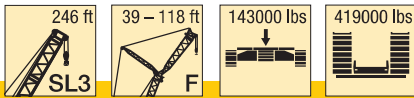




ft	SL3 236															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	303														45
50	303	298														50
55	295	289	160	231	194											55
60	277	276	156	222	186		172	144		148						60
65	253	255	152	213	179	111	164	139		141	118		128			65
70	232	235	149	204	173	108	157	133		135	114		123			70
75	213	216	145	196	166	106	151	129		129	110		117	99		75
80	197	199	142	188	160	104	145	124	85	124	106		113	95		80
85	182	184	139	181	155	101	139	119	83	119	102	71	108	91.5		85
90	169	171	136	170	150	99	134	115	81	114	98	69	103	88		90
95	157	159	133	159	145	97	129	112	79	110	94.5	67.5	98.5	84.5	58.9	95
100	146	148	131	149	141	95	124	108	77.5	106	91	65.5	95	81	57.2	100
105	136	138	128	139	137	93	119	105	75.5	102	88.5	64	91	78.5	55.5	105
110	128	129	126	130	131	91	116	102	74	97.5	85.5	62.5	87.5	76	54	110
115	120	121	123	122	124	89.5	112	99	72.5	94	82.5	61	84	73	52.4	115
120	112	113	117	115	116	88	109	96.5	71	91	80	59.4	80.5	70.5	50.9	120
125	105	106	109	108	109	86.5	106	94	69.5	88.5	78	58	78	68	49.5	125
130	98	99	102	101	103	85	102	91.5	68.5	85.5	75.5	56.5	75.5	66	48.3	130
135	92	93	96	95.5	97	83.5	96.5	89	67.5	83	73.5	55.3	73.5	64	47.1	135
140	86.5	87.5	90	89.5	91	82	91	86.5	66	80	71.5	54.1	71	62.5	45.9	140
150	76	77	79	79	80.5	78.5	81	80.5	64	75.5	67.5	52	66	58.6	43.1	150
160	66.5	67.5	69.5	70	71	74	72	73.5	61.5	70.5	64	49.9	61.5	55.1	39.9	160
170	58.2	59.1	61	61.5	63	65.5	64	65.5	59.8	65	61	47.8	58.3	51.9	36.7	170
180	51.1	51.9	53.7	54.4	55.4	58	56.8	58.1	58	58.2	58.2	46.2	55	49.4	33.1	180
190	44.7	45.4	47	47.8	48.8	51.1	50.2	51.4	53.8	51.7	53.1	44.7	51.1	46.9	27.6	190
200	38.9	39.5	40.9	41.9	42.8	44.8	44.2	45.3	48.1	45.7	47.1	43.2	46.4	44.1	21	200
210	33.7	34.2	35.4	36.6	37.4	39.2	38.8	39.8	42.4	40.3	41.6	41.8	41	40.3	14.5	210
220	29.1	29.6	30.6	32	32.6	34.2	34.1	35	37.3	35.5	36.7	39	36.3	34.3	9.4	220
230	25	25.4		27.7	28.3	29.6	29.8	30.6	32.6	31.2	32.3	35	32	28.3		230
240	21.2	21.5		23.8	24.3	25.4	25.8	26.6	28.3	27.2	28.2	30.7	28	22.3		240
250	17.7			20.2	20.6		22.2	22.8	24.4	23.6	24.5	26.7	24.4	16.4		250
260	14.5			17	17.3		18.9	19.5	20.8	20.3	21.1	23.1	21.1	12.8		260
270				14	14.3		15.9	16.4		17.3	18	19.7	15.6	9.3		270
280							13.1	13.5		14.4	15.1	16.6				280
290										11.8	12.4					290
300										9.5	10					300
310											7.7					310

TAB 181111

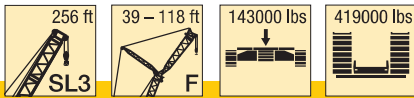
M



ft	SL3 246															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	301														45
50	303	296														50
55	295	289	161	231	194											55
60	279	277	157	223	187		173			148						60
65	254	257	153	215	180	111	165	139		142	119		129			65
70	234	236	150	206	174	109	159	134		136	115		124			70
75	216	218	146	198	168	106	153	129		130	110		118	99.5		75
80	199	201	143	190	162	104	147	125	85.5	125	106		113	95.5		80
85	185	187	140	184	157	102	141	121	83.5	120	102	71	109	92		85
90	172	174	137	173	152	99.5	136	116	81.5	115	98.5	69	104	88.5		90
95	160	162	134	162	147	97.5	131	113	79.5	111	95	67.5	100	85.5	59	95
100	150	152	132	151	143	95.5	126	110	77.5	107	92	66	96	82	57.3	100
105	140	142	129	142	138	93.5	121	106	76	103	89	64	92.5	79	55.7	105
110	132	133	127	133	134	91.5	117	103	74.5	99	86.5	62.5	89	76.5	54.2	110
115	124	125	125	125	127	90	114	100	73	95.5	83.5	61	85.5	74	52.6	115
120	116	117	121	118	120	88.5	111	97.5	71.5	92.5	81	59.7	82	71.5	51.1	120
125	109	110	113	111	113	87	107	95	70	89.5	78.5	58.3	79	69	49.8	125
130	102	103	106	105	106	85.5	104	92.5	69	87	76.5	57	77	67	48.6	130
135	96	97	99.5	99	100	84	99.5	90	67.5	84.5	74.5	55.7	74.5	65	47.4	135
140	90	91	93.5	93	94.5	82.5	94	87.5	66.5	82	72.5	54.5	72	63	46.2	140
150	80	80.5	83	82.5	83.5	80	84.5	82.5	64.5	77	69	52.4	67.5	59.6	43.6	150
160	71	71.5	73.5	73.5	74.5	76.5	75	76.5	62	72	65	50.3	63	56.1	40.6	160
170	62.5	63.5	65.5	65.5	66.5	68.5	67	68.5	60.5	68	62	48.3	59.4	52.7	37.6	170
180	55.6	56.3	58	58.3	59.3	61.5	60	61.5	58.6	61.5	59.2	46.7	56.2	50.2	34.5	180
190	49.2	49.9	51.4	51.9	52.7	54.9	53.7	54.9	55.7	54.9	55.2	45.2	53	47.8	29.6	190
200	43.4	44	45.4	46	46.8	48.7	47.8	48.8	51.5	48.9	50.2	43.7	49.2	45.4	23.6	200
210	38.2	38.7	39.9	40.6	41.4	43.1	42.4	43.4	45.8	43.5	44.7	42.2	44	43	17.2	210
220	33.7	34.1	35.1	36	36.7	38.2	37.7	38.6	40.8	38.8	39.9	41.2	39.3	37.2	10.9	220
230	29.6	29.9	30.8	31.8	32.3	33.7	33.4	34.2	36.2	34.5	35.5	38	35	31.5		230
240	25.7	26.1		27.9	28.4	29.5	29.5	30.2	31.9	30.5	31.5	33.8	31	25.7		240
250	22.2	22.5		24.3	24.7		25.8	26.5	28	26.9	27.8	29.9	27.4	19.9		250
260	19.1	19.4		21.1	21.5		22.6	23.2	24.5	23.6	24.4	26.3	24.2	15.3		260
270				18.1	18.5		19.6	20.1	21.2	20.6	21.3	23.1	19.8	11.6		270
280				15.4			16.8	17.3		17.8	18.5	20				280
290							14.3	14.6		15.2	15.8	17.1				290
300							11.9	12.2		12.9	13.4	14.5				300
310										10.7	11.1					310
320										8.7						320

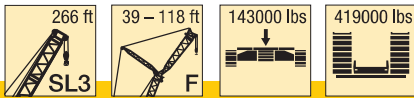
M

TAB 181111



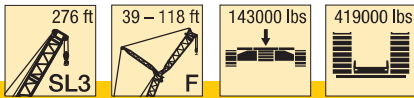
ft	SL3 256															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	301	269														45
50	294	263														50
55	283	256	159	207												55
60	268	250	155	201	181		164									60
65	244	243	152	195	176	110	159	137		136			123			65
70	224	226	148	190	171	108	154	132		132			120			70
75	206	209	145	184	166	105	149	128		127	109		115	97.5		75
80	190	193	142	179	161	103	144	124	84.5	123	105		111	94		80
85	176	178	139	175	156	101	139	120	82.5	118	101	70.5	107	90.5		85
90	164	166	137	165	152	99	134	116	80.5	113	98	68.5	102	87.5		90
95	152	154	134	154	147	97	130	112	79	109	94.5	67	98	84.5	58.4	95
100	142	143	131	144	142	95	126	109	77	106	91.5	65.5	94.5	81.5	56.8	100
105	132	134	129	134	137	93.5	121	106	75.5	102	88.5	64	91.5	78.5	55.2	105
110	124	125	127	126	128	92	117	103	74	99	86	62.5	88.5	76	53.8	110
115	116	117	121	118	120	90	114	100	72.5	95.5	83.5	61	85	73.5	52.3	115
120	108	110	114	111	113	88.5	110	97	71	92	81	59.5	82	71.5	50.9	120
125	102	103	107	104	106	87	105	95	70	89.5	78.5	58.2	79	69	49.5	125
130	95.5	96.5	100	97.5	99.5	86	98.5	92.5	68.5	87	76.5	56.9	77	66.5	48.3	130
135	89.5	91	94.5	92	93.5	84.5	93	90	67.5	84.5	74.5	55.6	74.5	65	47.2	135
140	84.5	85.5	88.5	86.5	88.5	83	88	87.5	66.5	82	73	54.4	72.5	63	46.1	140
150	74.5	75.5	78	77	78.5	79	78	80	64.5	76.5	69	52.3	68	59.7	43.6	150
160	65.5	66.5	68.5	68	69.5	73	69.5	71	62	69.5	65.5	50.4	63.5	56.3	40.8	160
170	57	57.9	60	60	61.5	64.5	61.5	63	60.5	62	62.5	48.5	59.6	53	37.5	170
180	49.8	50.7	52.6	53	54.1	56.9	55	56.4	58.2	55.4	56.8	46.8	54.6	50.4	34.3	180
190	43.4	44.2	45.9	46.5	47.5	49.9	48.6	49.9	53.3	49.4	51	45.3	49.1	48.1	30	190
200	37.7	38.3	39.9	40.6	41.5	43.7	42.7	43.9	46.9	43.8	45.3	43.9	43.7	45.1	24.7	200
210	32.5	33.1	34.4	35.3	36.1	38.1	37.3	38.4	41.1	38.7	40	42.5	38.7	40.4	18.5	210
220	28	28.5	29.6	30.6	31.4	33.1	32.6	33.6	36.1	33.9	35.2	38.2	34.4	35.9	12.3	220
230	23.8	24.3	25.3	26.4	27.1	28.6	28.3	29.2	31.5	29.6	30.8	33.7	30.2	31.7		230
240	20	20.4		22.5	23.1	24.4	24.4	25.2	27.2	25.6	26.7	29.4	26.4	27.4		240
250	16.5	16.9		18.9	19.4	20.6	20.7	21.5	23.3	22	23	25.4	22.7	22.8		250
260	13.4	13.7		15.7	16.2	17.1	17.5	18.2	19.7	18.7	19.6	21.8	19.4	17.1		260
270	10.6	10.8		12.7	13.1		14.5	15.1	16.4	15.7	16.5	18.5	16.4	13.3		270
280				10	10.3		11.7	12.2	13.4	12.9	13.7	15.4	13.6	10.1		280
290								9.6		10.3	11	12.5				290
300								7.2		8	8.5	9.9				300

TAB 181111



ft	SL3 266															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	303	273														45
50	298	268														50
55	287	261		210												55
60	270	254	156	205	183		166									60
65	247	247	152	199	178	110	161	137		138			125			65
70	227	229	149	194	173	108	156	133		133			121			70
75	209	211	146	189	168	106	151	129		128	109		116	98		75
80	193	196	143	184	163	103	146	125	84.5	124	106		112	94.5		80
85	179	181	140	179	158	101	140	121	82.5	119	102	70.5	108	91		85
90	167	169	138	168	153	99.5	136	117	81	115	99	69	104	88		90
95	156	158	135	157	149	97.5	131	114	79	111	95.5	67	99.5	85		95
100	145	147	132	147	144	95.5	127	110	77.5	107	92.5	65.5	95.5	82	57	100
105	136	138	130	137	140	94	123	107	76	104	89.5	64	92.5	79.5	55.4	105
110	128	129	128	129	131	92	119	104	74.5	100	87	62.5	89.5	77	54	110
115	120	121	124	121	123	90.5	115	101	73	97	84.5	61	86.5	74.5	52.6	115
120	113	114	118	114	116	89	112	98.5	71.5	93.5	82	59.8	83.5	72	51.2	120
125	106	107	111	107	109	87.5	108	96	70.5	90.5	79.5	58.5	80.5	70	49.8	125
130	99.5	101	104	101	103	86	102	94	69	88.5	77.5	57.3	78	67.5	48.6	130
135	94	95	98	96	97.5	85	96.5	91.5	68	86	75.5	56	75.5	66	47.5	135
140	88.5	90	92.5	90.5	92	83.5	91	89.5	67	83.5	73.5	54.8	73.5	64	46.4	140
150	79	79.5	82	81	82	80.5	81.5	83	65	78.5	70	52.7	69	60.5	44.1	150
160	69.5	70.5	72.5	72	73.5	76	73	74.5	63	73	66.5	50.8	65	57.3	41.5	160
170	61.5	62.5	64.5	64.5	65.5	67.5	65.5	67	61	65.5	63	48.9	60.5	54	38.4	170
180	54.5	55.3	57.1	57.1	58.1	60.5	58.7	60	59.2	58.8	59.4	47.2	57.1	51.3	35.3	180
190	48.1	48.8	50.4	50.6	51.6	53.9	52.4	53.6	55.5	52.8	54.3	45.7	52.2	48.9	31.6	190
200	42.4	43	44.4	44.7	45.6	47.7	46.4	47.6	50.4	47.3	48.7	44.3	46.9	46.5	27	200
210	37.2	37.7	39	39.5	40.2	42.1	41.1	42.1	44.7	42.1	43.4	43	42	43.5	21	210
220	32.6	33.1	34.3	34.8	35.5	37.2	36.4	37.4	39.7	37.4	38.6	40.7	37.6	39.1	15	220
230	28.5	29	29.9	30.6	31.2	32.7	32.1	33	35.1	33.1	34.2	36.9	33.5	34.8	9.7	230
240	24.7	25.1	25.9	26.7	27.3	28.6	28.2	29	30.9	29.1	30.2	32.7	29.6	30.5		240
250	21.2	21.6		23.1	23.7	24.8	24.6	25.3	27	25.5	26.4	28.7	25.9	26		250
260	18.1	18.4		19.9	20.4	21.4	21.3	22	23.5	22.3	23.1	25.2	22.7	20.5		260
270	15.3	15.5		17	17.4		18.4	19	20.3	19.3	20	22	19.7	16		270
280	12.7			14.3	14.6		15.6	16.1	17.3	16.5	17.2	18.9	16.9	12.2		280
290				11.8	12.1		13	13.5		13.9	14.5	16				290
300				9.5	9.7		10.7	11.1		11.5	12.1	13.4				300
310							8.5	8.9		9.4	9.9	11				310

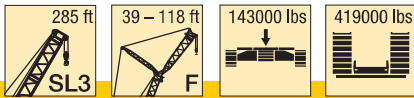
TAB 181111



ft	SL3 276															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	301	270														45
50	295	265														50
55	280	259		209												55
60	258	252	157	203	182		165									60
65	235	237	153	198	178		161	138		138			124			65
70	216	218	150	194	174		156	134		134			120			70
75	198	201	147	189	169	106	151	130		129	110		116	98.5		75
80	182	185	144	182	164	104	147	126	84.5	125	106		112	95		80
85	169	171	141	171	159	102	142	122	83	120	103		108	91.5		85
90	156	159	138	159	155	100	137	118	81	116	99.5		104	88.5		90
95	145	147	136	148	148	98	133	115	79.5	112	96.5	67.5	100	86		95
100	135	137	134	137	140	96	129	111	78	108	93	65.5	96.5	83	57	100
105	126	127	131	128	131	94.5	125	108	76	105	90.5	64.5	93.5	80	55.6	105
110	117	119	123	120	122	93	120	105	74.5	102	88	63	90.5	77.5	54.1	110
115	109	111	116	112	114	91	113	102	73.5	98	85.5	61.5	87.5	75	52.8	115
120	102	104	108	105	107	89.5	106	99.5	72	95	83	60	84.5	73	51.4	120
125	95.5	97	101	98	100	88	99.5	97	71	91.5	80.5	58.8	82	71	50.1	125
130	89.5	91	94.5	92	94	87	93.5	94.5	69.5	89.5	78	57.6	79	68.5	48.8	130
135	84	85.5	89	86.5	88.5	85.5	88	90	68.5	86	76.5	56.4	76.5	66.5	47.7	135
140	78.5	80	83.5	81	83	84	82.5	84.5	67.5	81.5	74.5	55.2	74.5	64.5	46.7	140
150	69	70	73.5	71.5	73	77.5	73	75	65.5	73	71	53	70	61.5	44.5	150
160	60.5	61.5	64	63	64.5	68	64.5	66	63.5	64.5	66.5	51.2	64	58.1	42.2	160
170	52.8	53.8	56.3	55.2	56.5	60	56.6	58.3	61.5	57.1	59.2	49.4	56.8	55	39.2	170
180	46.1	47	49.2	48.5	49.8	52.9	50	51.6	55.3	50.5	52.4	47.6	50.3	51.4	36.1	180
190	39.8	40.6	42.6	42.5	43.6	46.5	43.9	45.4	49.1	44.5	46.3	46.1	44.4	46.5	33.1	190
200	34	34.8	36.5	36.9	37.9	40.5	38.4	39.8	43.2	39.1	40.7	43.8	39	40.9	29.2	200
210	28.8	29.4	31	31.7	32.6	34.9	33.4	34.6	37.8	34.1	35.6	39.5	34.1	35.9	23.4	210
220	24.2	24.8	26.2	27	27.9	29.9	28.9	30.1	33	29.6	31.1	34.7	29.7	31.4	17.6	220
230	20.1	20.6	21.8	22.8	23.5	25.4	24.7	25.8	28.4	25.5	26.9	30.2	25.6	27.2	11.8	230
240	16.2	16.7	17.8	18.8	19.5	21.2	20.8	21.8	24.1	21.8	23	26.1	21.9	23.4		240
250	12.7	13.2	14	15.2	15.9	17.3	17.2	18	20.1	18.2	19.4	22.2	18.4	19.8		250
260	9.6	10	10.7	12	12.6	13.8	13.9	14.7	16.5	15.1	16.1	18.7	15.3	16.6		260
270				9	9.5	10.6	10.9	11.6	13.2	12.1	13.1	15.4	12.4	13.6		270
280									10.1	9.3	10.2	12.3	9.7	10.8		280

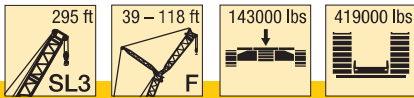
TAB 181111





ft	SL3 285															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	303															45
50	298															50
55	283	263		212												55
60	260	255	157	207	184		167									60
65	237	239	154	202	180		162	138		139			125			65
70	218	221	151	197	175		158	135		135			121			70
75	201	203	148	193	171	106	153	131		130	110		117			75
80	186	188	145	186	166	104	148	127	85	126	107		113	95.5		80
85	172	174	142	173	161	102	143	123	83	122	103		109	92.5		85
90	160	162	139	162	156	100	139	119	81.5	117	100		106	89.5		90
95	149	151	137	151	151	98.5	134	116	79.5	113	97	67.5	102	86.5		95
100	139	141	135	141	143	96.5	130	112	78	109	94	66	98	83.5	57.1	100
105	130	131	132	131	134	95	127	109	76.5	106	91	64.5	94.5	81	55.7	105
110	121	123	126	123	125	93.5	122	107	75	103	88.5	63	91.5	78	54.3	110
115	114	115	119	116	118	91.5	116	104	73.5	99.5	86.5	61.5	88.5	76	53	115
120	107	108	112	108	110	90	109	101	72.5	96.5	84	60.5	86	73.5	51.6	120
125	100	101	105	102	104	88.5	103	98	71	93.5	81.5	59.1	83	71.5	50.3	125
130	94	95	98.5	96	97.5	87.5	96.5	96	70	90.5	79	57.9	80	69.5	49	130
135	88.5	89.5	93	90.5	92	86	91	92	69	87.5	77.5	56.7	78	67.5	47.9	135
140	83	84.5	87.5	85	86.5	85	86	87.5	67.5	84	75.5	55.6	75.5	65.5	46.9	140
150	73.5	74.5	77.5	75.5	77	79.5	76.5	78.5	65.5	76.5	72	53.4	71.5	62	44.9	150
160	65	66	68.5	67	68.5	72	68	69.5	64	68	68	51.5	66.5	59	42.7	160
170	57.5	58.4	61	59.4	60.5	64	60.5	62	62	60.5	62.5	49.8	59.8	55.9	39.9	170
180	50.8	51.6	53.7	52.8	53.9	56.9	53.8	55.2	58	54	55.8	48	53.5	52.8	37	180
190	44.5	45.3	47.1	46.8	47.8	50.5	47.8	49.1	52.7	48	49.7	46.5	47.6	48.8	34.1	190
200	38.7	39.4	41.1	41.2	42.2	44.6	42.3	43.6	46.8	42.6	44.2	44.8	42.2	44.1	30.5	200
210	33.5	34.1	35.6	35.9	36.8	38.9	37.3	38.5	41.5	37.7	39.1	42.8	37.4	39.1	25.7	210
220	28.9	29.5	30.9	31.3	32.1	34	32.9	34	36.6	33.3	34.6	38.1	33	34.6	20	220
230	24.8	25.3	26.5	27	27.8	29.5	28.7	29.6	32	29.2	30.5	33.7	29	30.5	14.4	230
240	21	21.4	22.5	23.1	23.8	25.3	24.7	25.6	27.8	25.5	26.6	29.6	25.3	26.7		240
250	17.5	17.9	18.8	19.5	20.1	21.5	21.1	21.9	23.9	22	23.1	25.7	21.9	23.2		250
260	14.3	14.7	15.5	16.3	16.9	18.1	17.8	18.6	20.3	18.8	19.7	22.2	18.8	20		260
270	11.4	11.8		13.3	13.8	14.9	14.8	15.5	17.1	15.8	16.7	18.9	15.9	17		270
280	8.8	9.1		10.6	11	11.9	12	12.6	14	13	13.8	15.8	13.2	14.3		280
290							9.4	10	11.2	10.3	11.1	12.9	10.7	11.7		290
300							7	7.5	8.6	7.9	8.6	10.3	8.4	9.3		300
310												7.8				310

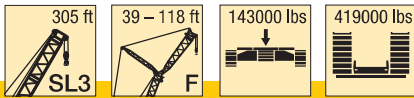
TAB 181111



ft	SL3 295															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	294															45
50	289															50
55	274	257		207												55
60	249	249	157	203	182		164									60
65	227	230	154	198	179		160	139		137			122			65
70	208	211	151	194	175		157	135		134			120			70
75	191	194	148	188	171	106	153	131		130	111		117			75
80	176	179	146	178	166	104	148	127		126	107		113	96		80
85	162	165	143	165	162	102	144	124	83	122	104		110	92.5		85
90	150	153	140	153	154	101	140	120	81.5	118	101		106	89.5		90
95	140	142	138	142	145	99	135	117	80	114	98	67.5	102	87		95
100	130	132	134	132	135	97	131	113	78.5	110	95	66	99	84	57.1	100
105	120	122	128	123	126	95.5	124	110	77	107	92.5	64.5	95	81.5	55.8	105
110	112	114	119	115	117	94	116	108	75.5	104	89.5	63	92.5	79	54.4	110
115	105	106	111	107	110	92.5	108	105	74	101	87.5	62	89.5	76.5	53.1	115
120	97.5	99	104	100	102	90.5	101	102	72.5	97.5	85	60.5	87	74.5	51.8	120
125	91	92.5	96.5	93.5	95.5	89	95	97.5	71.5	94.5	82.5	59.3	84	72.5	50.5	125
130	85	86.5	90.5	87.5	89.5	88	89	91.5	70.5	89	80.5	58.2	81.5	70	49.2	130
135	79.5	81	84.5	82	84	85	83.5	86	69	83.5	78.5	57	78.5	68	48.2	135
140	74.5	75.5	79.5	77	78.5	81.5	78.5	80.5	68	78.5	76.5	55.9	76	66	47.1	140
150	64.5	66	69.5	67.5	69	73.5	69	71	66	69	70.5	53.8	68.5	62.5	45.1	150
160	56.3	57.4	60.5	58.8	60.5	64.5	60.5	62	63.5	60.5	63	51.8	60.5	59.4	43	160
170	48.8	49.8	52.5	51.3	52.7	56.3	52.7	54.5	59	53.3	55.4	50.1	52.9	55.2	40.5	170
180	42.2	43.2	45.6	44.7	46	49.3	46.2	47.8	52.1	46.7	48.7	48.4	46.5	48.8	37.7	180
190	36.3	37.2	39.4	38.7	39.9	42.9	40.2	41.7	45.7	40.8	42.7	45.7	40.6	42.8	34.9	190
200	30.9	31.7	33.7	33.2	34.3	37.1	34.7	36.1	39.8	35.4	37.1	41.6	35.3	37.3	31.8	200
210	25.9	26.7	28.5	28.2	29.2	31.8	29.7	31	34.4	30.4	32	36.2	30.4	32.3	27.9	210
220	21.6	22.2	23.9	23.8	24.7	27.1	25.3	26.5	29.6	26	27.5	31.4	26	27.8	22.4	220
230	17.5	18.1	19.5	19.7	20.6	22.7	21.2	22.3	25.2	21.9	23.3	27	22	23.7	16.9	230
240	13.7	14.2	15.5	16	16.8	18.6	17.4	18.4	21	18.1	19.5	22.8	18.3	19.9	11.5	240
250		10.7	11.8	12.5	13.2	14.9	13.9	14.8	17.2	14.7	15.9	19	14.8	16.3	6.5	250
260		7.5	8.4	9.3	10	11.5	10.7	11.6	13.8	11.5	12.6	15.5	11.7	13.1	5.2	260
270						8.3		8.6	10.6	8.6	9.6	12.3	8.8	10.1		270
280											6.8	9.2		7.3		280

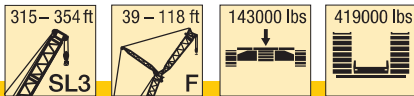
TAB 181111





ft	SL3 305															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	294															45
50	289															50
55	275	259								258	236					55
60	251	252	158	205	184					246	230	156	187			60
65	229	232	155	201	180		162	139		225	225	153	182	164		65
70	211	214	152	197	177		159	136		207	209	150	178	161		70
75	194	197	149	190	172	107	155	132		190	193	148	174	158	106	75
80	179	182	146	181	168	105	151	128		175	178	145	169	155	104	80
85	166	168	144	168	164	103	146	124	83.5	162	165	142	164	151	102	85
90	154	156	141	156	157	101	141	121	81.5	151	153	140	153	148	100	90
95	143	145	139	145	148	99.5	137	118	80	140	142	137	142	143	98.5	95
100	134	135	136	136	138	97.5	132	114	78.5	130	132	134	132	135	97	100
105	125	126	131	126	129	96	127	111	77	121	123	128	123	126	95	105
110	116	118	123	118	121	94.5	119	109	75.5	113	115	120	115	118	94	110
115	109	111	115	111	113	93	112	106	74.5	106	108	112	108	110	92.5	115
120	102	103	108	104	106	91.5	105	103	73	99	101	105	101	103	91	120
125	95.5	97	101	97.5	99.5	90	98.5	100	72	92.5	94	98	94.5	96.5	89.5	125
130	89.5	91	94.5	91.5	93.5	88.5	92.5	94.5	70.5	86.5	88	92	89	90.5	88.5	130
135	84	85.5	89	86	88	86.5	87	89	69.5	81.5	82.5	86.5	83.5	85	85.5	135
140	79	80	83.5	81	82.5	84.5	82	84	68.5	76	77.5	81	78.5	80	82.5	140
150	69.5	70.5	73.5	71.5	73	77	72.5	74.5	66.5	66.5	68	71	69	70.5	74.5	150
160	61	62	65	63	64.5	68	64	66	64.5	58.4	59.5	62.5	60.5	62	66	160
170	53.6	54.6	57.1	55.6	56.9	60.5	56.6	58.3	62.5	51	52	54.6	53	54.4	57.9	170
180	47.1	48	50.3	49.1	50.3	53.4	50.1	51.6	55.7	44.5	45.4	47.8	46.5	47.8	51	180
190	41.2	42.1	44.2	43.1	44.2	47.1	44.2	45.6	49.3	38.6	39.5	41.7	40.6	41.8	44.8	190
200	35.9	36.6	38.5	37.7	38.7	41.4	38.7	40.1	43.5	33.3	34.1	36.1	35.2	36.3	39	200
210	31	31.7	33.4	32.8	33.7	36.1	33.8	35	38.2	28.4	29.1	30.9	30.3	31.3	33.8	210
220	26.5	27.1	28.7	28.4	29.2	31.4	29.4	30.6	33.5	24.1	24.8	26.4	25.9	26.8	29.1	220
230	22.4	22.9	24.3	24.3	25.1	27.1	25.4	26.4	29.1	20.1	20.7	22.2	21.9	22.7	24.8	230
240	18.5	19	20.2	20.6	21.3	23.1	21.6	22.6	25.1	16.4	17	18.3	18.1	18.9	20.8	240
250	15	15.5	16.5	17.1	17.8	19.4	18.1	19	21.3	13	13.6	14.8	14.7	15.4	17.2	250
260	11.9	12.3	13.2	13.9	14.5	15.9	15	15.8	17.9	9.9	10.4	11.4	11.6	12.2	13.8	260
270	9	9.3	10.1	10.9	11.4	12.7	12.1	12.9	14.8			8.3	8.7	9.3	10.7	270
280						9.7	9.4	10.1	11.8							280

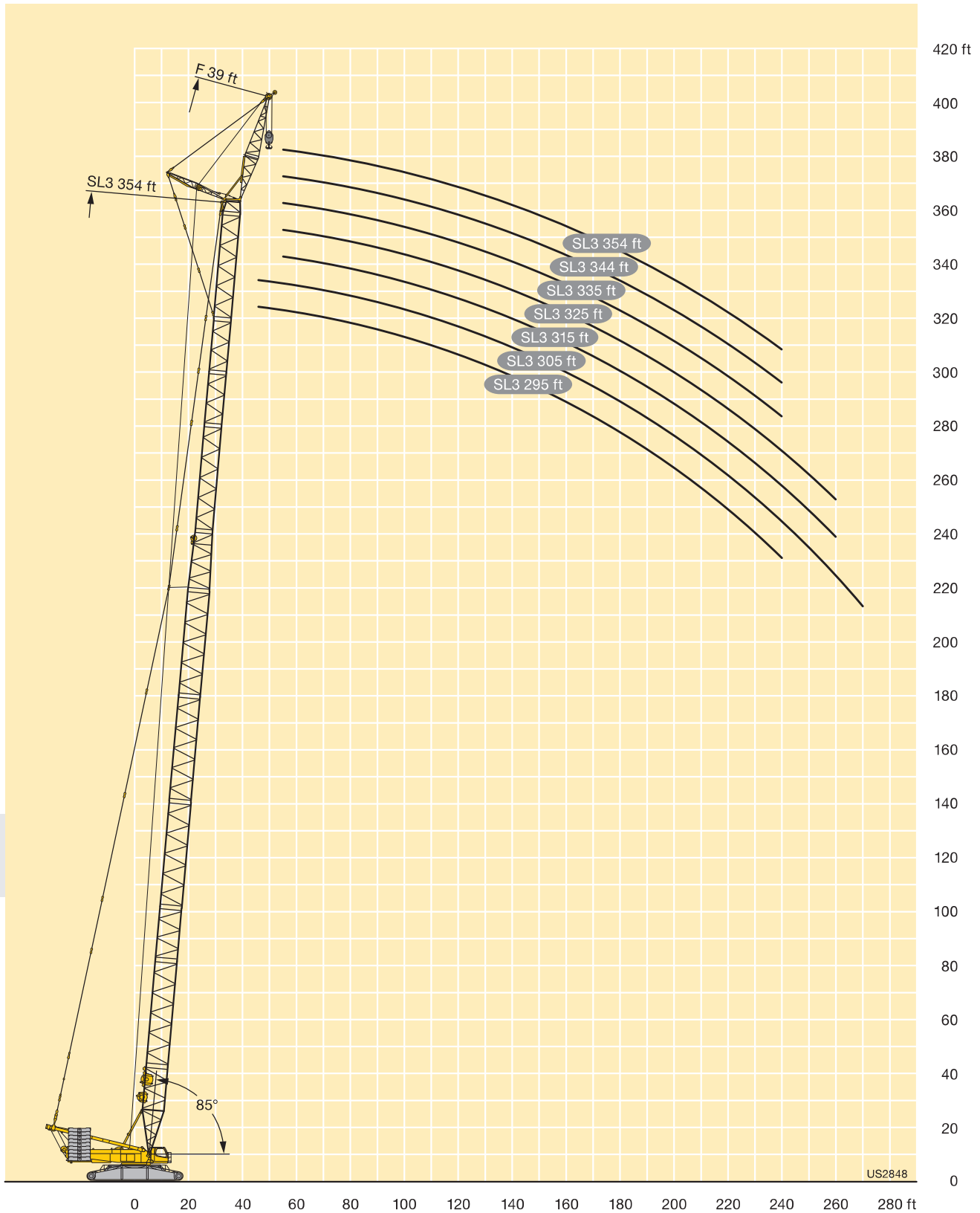
TAB 181111



ft	SL3 315						SL3 325						SL3 335			SL3 344			SL3 354			ft			
	F 39			F 59			F 39			F 59			F 39			F 39			F 39						
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°		10°	15°	30°
55	258	236					255	235					238	219		235	213		209						55
60	246	230	156	187			241	230	156	187			231	214		228	213		204	190					60
65	225	225	153	182	164		220	222	154	183	165		217	209	154	213	209	154	198	185	154				65
70	207	209	150	178	161		202	205	151	178	162		200	200	151	196	197	152	191	181	151				70
75	190	193	148	174	158	106	186	189	148	174	158	106	184	187	148	180	183	149	180	176	148				75
80	175	178	145	169	155	104	172	174	146	169	155	104	170	172	146	166	169	146	166	168	146				80
85	162	165	142	164	151	102	159	161	143	161	152	102	157	159	143	154	156	144	153	156	143				85
90	151	153	140	153	148	100	147	150	140	149	149	100	146	148	141	142	145	142	142	144	140				90
95	140	142	137	142	143	98.5	137	139	138	139	142	99	135	137	138	132	134	137	132	134	136				95
100	130	132	134	132	135	97	127	129	134	129	132	97	126	128	133	123	125	130	123	125	130				100
105	121	123	128	123	126	95	118	120	125	121	123	95.5	117	119	124	114	116	121	114	116	121				105
110	113	115	120	115	118	94	110	112	117	113	115	94	109	111	116	106	108	113	106	108	113				110
115	106	108	112	108	110	92.5	103	105	109	105	107	93	102	104	108	99	101	105	99	101	106				115
120	99	101	105	101	103	91	96	97.5	102	98.5	100	91.5	95	96.5	101	92	94	98.5	92.5	94	98.5				120
125	92.5	94	98	94.5	96.5	89.5	89.5	91	95.5	92	94	90	88.5	90	94.5	86	87.5	92	86	88	92				125
130	86.5	88	92	89	90.5	88.5	84	85.5	89	86	88	89	83	84.5	88.5	80	81.5	86	80.5	82	86				130
135	81.5	82.5	86.5	83.5	85	85.5	78.5	80	83.5	81	82.5	85.5	77.5	79	83	75	76.5	80.5	75.5	77	80.5				135
140	76	77.5	81	78.5	80	82.5	73.5	74.5	78.5	75.5	77.5	81	72.5	74	77.5	70	71.5	75	70.5	72	75.5				140
150	66.5	68	71	69	70.5	74.5	64	65.5	68.5	66.5	68	72.5	63.5	64.5	68	60.5	62	65.5	61.5	62.5	66				150
160	58.4	59.5	62.5	60.5	62	66	55.8	56.9	59.9	57.9	59.5	63.5	55	56.2	59.2	52.5	53.7	56.8	53.1	54.3	57.4				160
170	51	52	54.6	53	54.4	57.9	48.4	49.4	52.1	50.5	51.9	55.6	47.7	48.8	51.5	45.2	46.3	49.1	45.9	47	49.8				170
180	44.5	45.4	47.8	46.5	47.8	51	41.9	42.9	45.4	44.1	45.4	48.7	41.3	42.3	44.8	38.8	39.8	42.4	39.6	40.6	43.2				180
190	38.6	39.5	41.7	40.6	41.8	44.8	36.1	37	39.3	38.2	39.4	42.5	35.5	36.4	38.7	33	34	36.3	33.8	34.7	37.1				190
200	33.3	34.1	36.1	35.2	36.3	39	30.8	31.6	33.7	32.8	33.9	36.8	30.2	31	33.1	27.7	28.6	30.8	28.5	29.4	31.6				200
210	28.4	29.1	30.9	30.3	31.3	33.8	25.9	26.7	28.6	27.9	28.9	31.5	25.3	26.1	28	22.9	23.7	25.7	23.7	24.5	26.5				210
220	24.1	24.8	26.4	25.9	26.8	29.1	21.6	22.3	24	23.5	24.5	26.9	21	21.7	23.5	18.6	19.3	21.2	19.4	20.2	22				220
230	20.1	20.7	22.2	21.9	22.7	24.8	17.6	18.3	19.9	19.5	20.4	22.6	17	17.7	19.3	14.6	15.3	17	15.4	16.1	17.8				230
240	16.4	17	18.3	18.1	18.9	20.8	14	14.6	16	15.8	16.6	18.6	13.4	14	15.4	11	11.6	13.1	11.8	12.4	14				240
250	13	13.6	14.8	14.7	15.4	17.2	10.6	11.1	12.4	12.3	13.1	14.9		10.5	11.9										250
260	9.9	10.4	11.4	11.6	12.2	13.8	7.5	8	9.2	9.2	9.9	11.6		7.4	8.6										260
270			8.3	8.7	9.3	10.7						8.5													270

TAB 181111

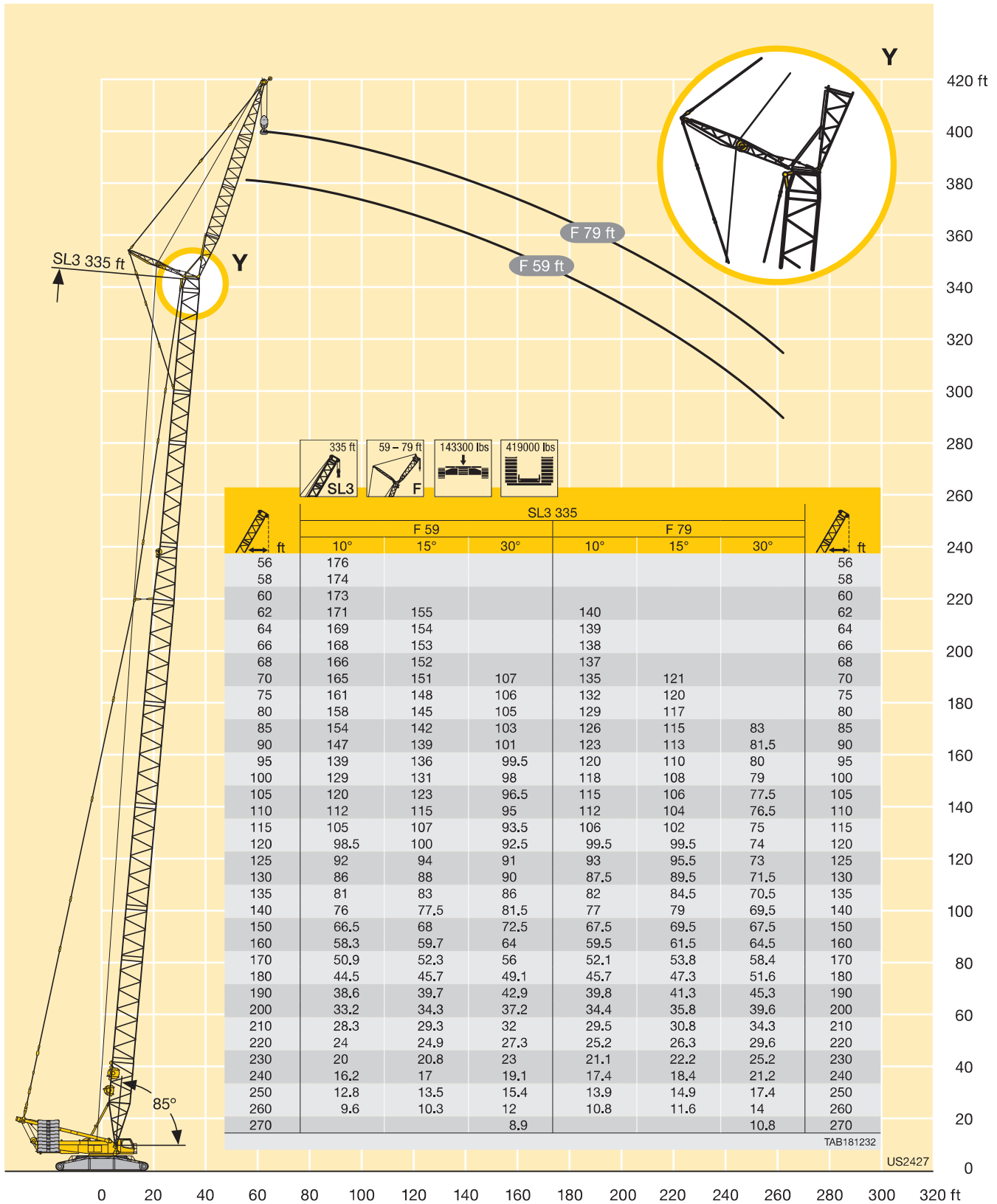




M

Lifting heights Hauteurs de levage

SL3F



M

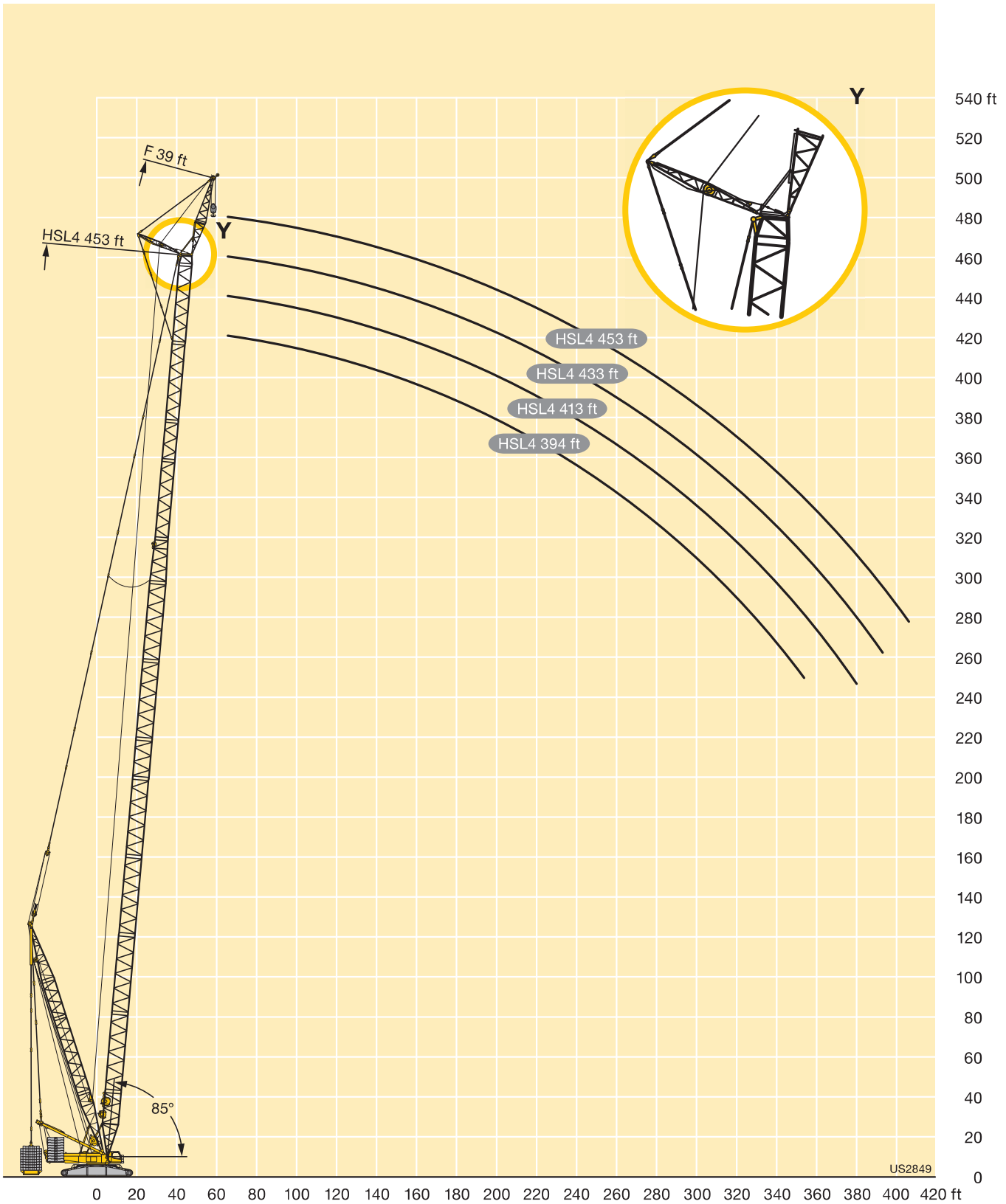
HSL4DFB/B2/BW

HSL4 236 - 453



550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		236		256		276		295		315		335		354		374		394		413		433		453			
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°			
45	- B B2 BW	302 302 302		302 302 302																							
50	- B B2 BW	302 302 302		302 302 302																							
55	- B B2 BW	298 302 302 302	291 291 290 290	295 302 302 302	292 289 289 289	291 302 302 302	285 289 289 289	285 302 302 302		274 302 302 302																	
60	- B B2 BW	288 302 302 302	278 279 278 279	278 284 284 284	281 283 282 282	268 302 302 302	272 283 282 282	258 302 301 301	257 276 274 275	248 301 301 301	252 270 271 270	241 266 266 266	246 266 259 259	232 285 285 285	212 259 259 259	213 266 265 265	206 266 265 265	207 240 245 245	197 244 245 245	202 228 227 228	192 223 221 221	189 208 208 208	187 193 197 198				
65	- B B2 BW	263 302 302 302	264 267 266 267	254 302 302 302	257 273 273 273	245 302 302 302	248 275 274 275	236 302 298 298	239 271 268 266	226 298 298 298	230 271 267 266	220 298 286 286	224 266 260 260	212 282 282 282	213 256 256 256	206 263 263 263	207 240 239 239	207 244 245 245	197 244 245 245	202 228 227 228	192 223 221 221	189 208 208 208	187 193 197 198	172 173 174 174			
70	- B B2 BW	242 302 302 302	244 257 256 257	232 302 302 302	236 263 263 263	225 302 302 302	228 267 266 267	217 298 298 298	219 266 266 266	207 293 293 293	210 262 262 262	202 260 260 260	206 261 255 255	207 287 279 279	206 261 255 255	194 278 277 277	198 253 253 253	189 261 260 260	192 238 238 238	192 243 243 243	187 226 219 219	189 221 206 206	175 207 196 196	173 193 196 196	161 172 172 172		
75	- B B2 BW	223 300 300 300	225 248 247 248	215 300 300 300	217 254 253 254	207 299 299 299	210 259 258 259	199 292 282 282	202 261 254 255	191 288 288 288	193 258 259 259	185 258 259 259	189 258 249 250	178 282 273 273	182 250 249 250	173 258 257 257	176 236 235 235	168 241 241 241	172 224 224 224	168 218 218 218	172 206 206 206	166 193 195 195	159 187 186 187	162 170 171 171	154 170 171 171		
80	- B B2 BW	206 294 294 293	208 239 239 239	198 295 295 296	201 246 245 245	191 294 294 294	194 251 251 251	184 285 285 285	186 255 255 255	175 283 282 283	178 254 255 255	170 258 266 266	174 254 246 244	163 278 266 266	167 271 247 246	154 255 253 253	146 233 233 233	149 239 239 239	149 223 223 223	158 218 218 218	152 215 215 215	152 203 203 203	146 193 193 193	149 186 185 185	141 169 169 169	137 161 161 161	
85	- B B2 BW	191 284 283 284	193 231 230 230	184 288 288 289	186 237 236 236	177 288 288 288	179 243 243 243	172 278 266 266	162 248 242 242	164 279 247 247	151 249 249 249	125 250 260 260	128 242 239 239	119 267 262 262	122 245 241 241	115 253 250 250	118 231 230 230	111 237 236 236	115 221 221 221	118 216 216 216	108 213 213 213	106 203 203 203	99.5 186 186 186	92 181 181 181	96.7 167 167 167	99 154 154 154	93.3 161 161 161
90	- B B2 BW	177 273 273 273	179 223 223 223	171 280 279 280	173 231 229 229	164 281 282 282	166 235 235 235	157 271 258 258	160 240 236 236	152 243 243 243	145 244 233 233	149 265 254 254	139 242 242 242	128 263 257 257	132 242 237 237	125 249 246 246	127 248 247 247	127 234 234 234	121 234 234 234	124 210 210 210	117 214 219 219	119 208 208 208	114 198 198 198	116 182 182 182	110 166 166 166	110 154 154 154	
95	- B B2 BW	165 263 262 263	167 216 216 216	159 271 223 223	161 223 223 223	153 274 228 228	155 228 228 228	146 264 251 251	139 232 229 229	141 237 236 236	135 238 248 248	138 239 239 239	132 258 252 252	128 260 252 252	125 247 243 243	127 243 243 243	125 242 242 242	125 233 233 233	121 242 242 242	124 218 218 218	117 212 212 212	119 208 208 208	114 188 188 188	116 184 184 184	110 163 163 163	110 151 151 151	
100	- B B2 BW	154 252 252 253	156 210 209 209	148 262 261 262	150 216 216 216	142 267 267 267	144 222 222 222	136 257 245 245	138 225 226 226	129 265 256 256	121 232 230 230	125 252 242 242	128 253 247 247	119 253 249 249	122 244 239 239	115 244 242 242	118 235 232 232	111 228 228 228	115 216 216 216	118 209 209 209	108 205 205 205	106 193 193 193	99.5 186 186 186	92 181 181 181	96.7 167 167 167	99 154 154 154	93.3 161 161 161
105	- B B2 BW	144 243 243 243	146 203 202 202	138 253 252 253	140 210 210 210	133 259 260 260	134 216 216 216	127 250 238 238	128 226 218 218	120 259 250 250	121 226 225 225	116 246 238 238	119 228 218 218	110 252 242 242	113 241 242 242	110 235 235 235	107 234 234 234	109 225 217 217	109 212 212 212	103 209 209 209	106 204 204 204	99.5 186 186 186	92 181 181 181	96.7 167 167 167	99 154 154 154	93.3 161 161 161	
110	- B B2 BW	135 235 235 235	137 197 196 196	130 245 244 245	131 203 203 203	124 252 253 253	126 210 210 210	118 243 232 232	120 214 212 212	111 254 244 244	113 221 219 219	108 240 231 231	110 223 214 214	102 246 238 238	105 230 221 221	105 230 230 230	102 238 238 238	105 226 226 226	102 217 217 217	105 208 208 208	98.8 222 222 222	98.1 220 213 213	91.2 209 209 209	98.4 193 188 188	92 181 181 181	94.1 179 179 179	86.1 159 159 159
115	- B B2 BW	127 227 227 227	128 191 191 191	122 237 237 237	123 198 198 198	116 245 245 245	118 204 204 204	110 226 226 226	112 209 207 207	104 249 238 238	105 216 214 214	100 235 226 226	103 218 214 214	94.4 241 233 233	97.3 226 217 217	91.4 226 210 210	93.4 226 210 210	88 219 219 219	91.1 219 206 206	84.9 209 209 209	88 198 198 198	91.1 186 186 186	84.9 186 186 186	92.4 182 182 182	94.1 177 177 177	89.3 157 157 157	81.5 154 154 154
120	- B B2 BW	119 220 220 220	121 186 185 185	114 230 230 230	115 193 193 193	109 238 238 238	110 199 198 198	103 228 219 219	105 203 202 202	96.4 243 232 232	98.1 209 208 208	92.9 229 206 206	95.6 214 209 209	87.4 236 229 229	90.2 221 213 213	84.6 223 207 207	86.5 216 204 204	81.3 216 204 204	84.3 209 195 195	78.3 216 195 195	80.2 209 188 188	75.9 188 188 188	77.8 177 177 177	72.9 156 156 156	66.9 154 154 154	61.4 144 144 144	
125	- B B2 BW	112 213 212 212	113 181 180 181	107 223 223 223	108 188 188 188	102 238 231 231	103 194 194 194	96.2 214 196 196	97.7 205 203 203	89.7 226 204 204	91.3 205 204 204	86.3 224 216 216	88.9 209 202 202	80.9 232 202 202	83.7 217 209 209	78.2 225 210 210	80 219 203 203	75 212 200 200	77.9 212 201 201	72.1 209 193 193	74.5 200 181 181	69.8 181 176 176	68.2 176 170 170	64.2 167 167 167	61.4 154 154 154	56.4 144 144 144	
130	- B B2 BW	106 206 205 206	107 175 175 175	101 216 216 216	102 183 183 183	95.3 225 225 225	96.7 189 189 189	90 208 209 209	91.4 193 192 192	83.6 216 224 224	85.1 209 199 199	80.3 221 211 211	82.8 204 198 198	75 227 220 220	77.7 212 206 206	72.4 215 210 210	74.1 209 206 206	69.3 215 209 209	72.1 209 198 198	66.5 209 190 190	68.2 198 181 181	64.2 179 174 174	61.4 167 167 167	56.4 152 152 152	51.6 144 144 144	47.2 137 137 137	
135	- B B2 BW	99.4 200 200 200	100 171 171 171	94.8 209 209 209	96 178 178 178	89.6 218 218 218	90.9 184 184 184	84.4 203 203 203	85.8 188 188 188	78.1 215 219 219	79.6 195 193 193	73.9 206 206 206	77.3 214 216 216	69.6 222 216 216	72.2 208 202 202	67.1 211 211 211	68.7 207 206 206	64.1 219 206 206	66.8 213 209 209	61.3 203 195 195	63.3 200 187 187	59.2 180 176 176	60.9 175 172 172	56.4 163 163 163	51.6 152 152 152	47.2 144 144 144	
140	- B B2 BW	93.4 195 194 195	94.4 167 167 167	89.2 203 203 203	90.4 174 174 174	84.1 212 212 212	85.3 180 179 180	79 204 198 198	80.3 184 183 183	72.8 221 214 214	74.2 191 189 190	69.6 202 201 201	72.2 195 190 190	64.4 217 211 211	67 203 198 198	62 214 208 208	63.5 200 194 194	59 207 203 203	61.7 209 192 192	56.4 198 184 184	58 187 174 174	54.3 177 170 170	51.6 164 164 164	47.2 152 152 152	42.7 144 144 144		
150	- B B2 BW	82.7 184 184 184	83.5 16																								



US2849

SL10DFB/B2

SL10 335 - 413

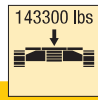
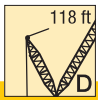


550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		SL10 335		SL10 344		SL10 354		SL10 364		SL10 374		SL10 384		SL10 394		SL10 404		SL10 413		
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	
60	-	223	228	218	223	214		209		206		202								
	B	293	264	289	260	283	256	277		269		262		262						
	B2	291	262	289	260	282	256	277		269		263								
65	-	204	208	199	204	195	198	191	193	188	190	184	186	177	181	172	176	170	175	
	B	288	259	284	257	278	253	273	250	267	245	261	240	261	241	253	236	245	230	
	B2	285	258	285	256	279	253	274	249	266	244	261	240	263	241	255	236	246	230	
70	-	187	191	183	187	179	183	175	179	172	176	169	172	164	167	159	163	157	162	
	B	284	255	280	254	275	250	270	247	264	243	259	238	260	239	252	234	243	229	
	B2	277	253	279	252	275	250	271	247	264	243	259	238	261	239	254	235	245	229	
75	-	172	176	168	172	165	168	160	164	158	162	155	158	150	153	146	149	144	148	
	B	280	252	277	250	272	247	267	244	261	240	257	236	258	237	251	232	242	228	
	B2	270	247	273	248	271	247	268	245	261	240	257	236	259	237	253	233	243	228	
80	-	158	162	154	158	151	155	147	151	145	149	142	145	137	140	133	136	131	136	
	B	276	249	273	247	269	244	264	241	259	238	255	234	256	235	249	231	241	226	
	B2	263	241	267	244	267	244	265	242	259	238	255	234	257	235	251	231	242	227	
85	-	146	150	142	146	139	143	135	139	133	137	130	133	126	129	122	125	120	124	
	B	270	246	268	244	265	241	262	239	256	235	252	232	254	233	247	229	238	225	
	B2	256	235	261	240	264	241	262	239	257	236	253	232	255	234	249	230	241	226	
90	-	135	139	131	135	129	132	125	128	123	126	120	123	116	118	112	114	110	114	
	B	264	241	264	240	262	238	258	236	253	233	250	230	251	231	245	227	237	223	
	B2	249	229	255	235	258	237	259	237	254	233	251	231	253	232	248	228	240	224	
95	-	125	128	121	125	119	122	115	118	113	117	111	113	106	109	102	105	101	105	
	B	257	235	259	237	259	235	255	234	250	230	248	228	249	229	243	226	235	222	
	B2	243	224	249	230	253	233	254	233	251	231	249	229	251	230	246	227	238	223	
100	-	116	119	112	115	110	113	106	109	104	108	102	104	97.5	99.9	93.8	96.3	92.6	96.2	
	B	251	230	254	233	255	233	253	232	248	228	245	226	247	227	241	224	234	220	
	B2	237	219	243	225	247	228	250	230	248	228	247	227	249	228	244	225	237	222	
105	-	107	110	104	107	101	104	97.7	101	96.1	99.3	93.7	95.9	89.4	91.7	85.8	88.2	84.7	88.2	
	B	245	225	249	230	252	231	250	229	246	226	244	223	245	226	240	222	232	219	
	B2	231	213	237	219	241	223	245	226	245	226	245	225	248	227	243	224	236	220	
110	-	99.7	103	96.2	99.1	93.8	96.8	90.3	93.4	88.7	91.9	86.4	88.5	82.2	84.3	78.6	80.9	77.6	81	
	B	239	220	244	227	248	228	247	228	243	224	241	222	243	224	238	221	231	217	
	B2	225	209	231	214	236	219	240	223	241	223	243	223	246	225	241	223	234	219	
115	-	92.6	95.3	89.1	92	86.8	89.7	83.3	86.3	81.8	84.9	79.5	81.6	75.4	77.5	71.9	74.1	70.9	74.2	
	B	233	215	239	222	243	225	243	225	240	222	238	220	241	222	236	219	230	216	
	B2	220	204	226	210	231	214	236	219	238	221	240	221	244	224	240	222	233	218	
120	-	85.9	88.6	82.5	85.3	80.2	83	76.8	79.7	75.4	78.3	73.1	75.1	69	71	65.6	67.7	64.7	67.9	
	B	226	210	233	218	238	220	238	221	236	220	235	218	238	220	234	218	228	215	
	B2	215	200	221	205	227	210	231	215	234	218	237	219	242	222	238	220	232	217	
125	-	79.7	82.3	76.3	79	74.1	76.8	70.8	73.6	69.4	72.2	67.2	69	63.1	65	59.7	61.7	58.8	61.9	
	B	219	205	228	213	233	216	234	216	233	216	231	215	234	218	230	216	225	213	
	B2	210	195	216	201	222	206	227	211	230	214	234	216	239	219	236	219	230	216	
130	-	74	76.5	70.6	73.2	68.5	71.1	65.2	67.9	63.9	66.6	61.7	63.4	57.6	59.5	54.3	56.2	53.4	56.5	
	B	214	200	222	208	228	212	230	213	230	213	227	212	231	214	227	213	222	211	
	B2	204	191	211	197	217	202	222	208	225	211	230	213	236	216	233	216	228	215	
135	-	68.8	71.2	65.5	68	63.4	66	60.1	62.8	58.8	61.5	56.7	58.4	52.7	54.4	49.3	51.2	48.5	51.5	
	B	208	195	216	203	222	208	226	209	226	210	223	209	228	212	225	210	220	209	
	B2	199	186	206	193	213	198	218	204	221	207	226	210	232	213	231	213	226	213	
140	-	63.8	66.2	60.5	63	58.5	61	55.2	57.8	54	56.6	51.8	53.5	47.8	49.5	44.6	46.3	43.8	46.7	
	B	203	190	210	198	217	203	222	205	223	207	220	207	225	209	223	208	218	207	
	B2	194	182	201	188	208	194	213	200	217	204	223	207	229	210	228	211	224	212	
150	-	54.6	56.9	51.4	53.7	49.4	51.8	46.2	48.7	45.1	47.5	43	44.5	39	40.6	35.8	37.4	35.1	37.9	
	B	193	181	200	189	206	195	210	197	210	200	212	201	218	203	218	204	215	204	
	B2	185	174	192	181	199	186	204	192	209	197	215	200	222	203	223	205	220	208	
160	-	46.4	48.5	43.3	45.5	41.3	43.6	38.2	40.5	37.1	39.4	35	36.4	31.1	32.5	27.9	29.4	27.3	29.9	
	B	183	173	191	181	195	187	195	188	198	192	204	192	210	198	212	199	210	201	
	B2	176	167	183	173	190	179	196	185	201	190	208	194	215	197	218	200	216	205	
170	-	39.1	41.1	36	38.1	34.1	36.2	31	33.2	30	32.2	27.9	29.2	24	25.3	20.9	22.3	20.3	22.8	
	B	173	164	181	172	183	178	187	179	191	181	197	185	202	191	204	193	203	197	
	B2	168	160	175	166	182	171	188	178	193	183	200	187	208	190	211	194	212	201	
180	-	32.8	34.7	29.7	31.6	27.8	29.8	24.7	26.8	23.7	25.9	21.7	22.9	17.8	19	14.7	16	14.1	16.5	
	B	164	157	171	164	172	170	179	169	183	174	190	179	193	184	195	185			

SL10DFB/B2

SL10 335 - 413



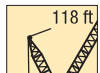
550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft	B B2	SL10 335		SL10 344		SL10 354		SL10 364		SL10 374		SL10 384		SL10 394		SL10 404		SL10 413	
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°
240	B B2	133 134	129 130	138 139	133 135	141 144	137 139	146 150	141 144	150 154	145 147	154 161	149 150	160 168	151 152	164 173	153 156	161 176	158 160
250	B B2	130 131	127 128	135 136	131 132	139 141	134 136	143 147	138 141	146 151	141 143	150 157	145 145	156 164	147 148	160 169	149 151	156 172	154 156
260	B B2	128 128	125 125	133 133	129 130	136 139	132 134	141 144	135 138	144 148	138 140	146 154	141 142	150 159	143 144	155 163	145 147	152 169	151 152
270	B B2	126 126	123 123	130 130	127 127	134 136	130 131	138 141	133 134	142 145	136 137	142 151	138 139	144 154	138 141	148 157	139 143	145 162	145 147
280	B B2	125 124	122 121	128 128	125 125	131 133	128 129	136 138	130 131	139 141	133 134	138 148	135 136	138 148	134 138	140 150	134 139	138 154	138 142
290	B B2	124 122	121 120	127 127	123 123	129 131	126 127	133 135	128 128	137 138	130 131	134 145	132 132	131 143	129 135	132 143	128 136	130 146	131 137
300	B B2	122 121	120 119	127 125	122 122	126 130	124 124	128 133	124 126	131 135	126 127	129 141	129 129	125 138	124 132	124 136	122 132	123 137	124 133
310	B B2	122 120	119 118	125 124	120 120	124 128	122 122	122 130	120 124	125 131	121 125	123 135	123 126	119 132	119 128	116 129	116 128	115 129	117 128
320	B B2	121 120	117 116	121 123	118 119	120 126	119 120	117 128	117 122	118 127	116 123	116 129	117 122	113 126	113 123	110 123	110 123	109 122	110 122
330	B B2			116 122	116 117	115 124	115 119	112 124	113 120	112 123	112 121	110 122	110 119	106 119	107 117	104 116	104 117	103 116	104 117
340	B B2			110 120	110 115	109 121	109 117	106 119	107 117	106 118	106 117	104 116	104 115	100 113	101 112	97,7 110	98 111	97,1 110	98,2 111
350	B B2							100 113	101 113	100 112	101 113	98,1 110	98,5 110	94,4 107	94,7 107	91,7 104	92 105	91,4 104	92,5 105
360	B B2									94,3 107	95,4 107	92,7 105	92,9 105	89,1 101	89,2 101	86,1 98,6	86,4 99	85,9 98,7	86,9 99,3
370	B B2													84,1 96	84,2 96,2	80,9 93,4	81,4 93,6	80,6 93,3	81,5 93,8
380	B B2													79,5 91,3	79,5 91,3	76,1 88,5	76,6 88,6	75,8 88,5	76,7 89
390	B B2															71,8 83,9	72 84,2	71,3 83,9	72,1 84,3

TAB 181337 / 181357

SL10DFB/B2

SL10 423 - 502



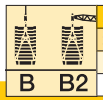
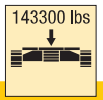
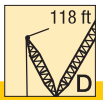
550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		SL10 423		SL10 433		SL10 443		SL10 453		SL10 463		SL10 472		SL10 482		SL10 492		SL10 502	
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°
		B	B2	B	B2	B	B2	B	B2	B	B2	B	B2	B	B2	B	B2	B	B2
65	-	165		163		158													
	B	236	223	227		218													
	B2	237	225	227		219		203											
70	-	152	151	150		146		141											
	B	235	222	225		217		202											
	B2	236	224	227		219		203											
75	-	139	144	137	141	133	136	134	137	131	134	128	131	123	118	122			
	B	233	222	224	215	216	208	201	193	193	188	184	179	176	172	166			
	B2	235	223	226	215	218	208	203	194	193	189	184	179	177	171	167			158
80	-	127	131	125	128	121	124	122	125	120	123	116	120	112	115	111	114		
	B	232	221	223	213	215	207	200	193	192	187	183	177	175	171	165	160		
	B2	234	221	225	214	217	207	202	193	192	188	184	178	177	170	166	160		157
85	-	116	120	114	117	110	113	112	115	109	112	106	109	102	105	101	104		
	B	231	220	221	212	213	206	199	191	191	186	182	176	174	169	164	159		
	B2	233	220	224	213	215	205	201	192	191	187	183	177	176	169	165	159		157
90	-	106	110	105	108	101	103	102	105	99.8	103	96.8	99.7	92.8	95.7	91.7	94.6		
	B	230	218	221	211	212	204	197	191	190	184	181	175	173	168	163	158		
	B2	232	219	223	212	214	204	199	190	190	186	182	176	175	168	164	158		156
95	-	97	101	95.7	98.4	91.7	94.4	93.4	96	91.1	93.8	88.3	91	84.3	87.1	83.3	86.1		
	B	228	217	219	210	210	203	196	190	188	183	179	173	172	167	161	156		
	B2	231	218	222	211	213	202	198	189	189	185	181	175	174	166	163	156		155
100	-	88.6	92.4	87.4	89.9	83.5	86.1	85.3	87.8	83	85.6	80.3	82.9	76.5	79.1	75.6	78.2		
	B	226	216	218	209	209	202	194	189	187	182	178	172	170	166	160	155		
	B2	230	217	221	210	211	201	197	188	188	184	180	174	172	165	161	155		155
105	-	80.8	84.4	79.7	82.1	75.8	78.3	77.7	80.1	75.6	78	72.9	75.4	69.2	71.7	68.3	70.8		
	B	224	213	216	207	207	200	192	188	186	180	177	171	169	164	158	154		
	B2	228	215	219	209	210	199	195	186	187	182	179	172	171	164	160	154		154
110	-	73.8	77.3	72.7	75	68.9	71.3	70.9	73.2	68.8	71.1	66.2	68.6	62.5	64.9	61.8	64.2		
	B	223	212	215	206	205	199	191	186	185	178	175	170	167	163	157	152		
	B2	226	213	218	208	208	197	193	184	186	181	178	171	170	163	159	153		153
115	-	67.2	70.6	66.2	68.3	62.5	64.7	64.5	66.7	62.4	64.7	59.9	62.2	56.3	58.6	55.6	57.9		
	B	222	211	213	205	204	197	189	184	183	177	174	169	166	161	155	151		
	B2	223	212	217	206	206	195	192	183	185	180	177	170	168	161	157	151		152
120	-	61	64.3	60	62.1	56.4	58.6	58.5	60.6	56.5	58.6	54	56.2	50.5	52.7	49.9	52		
	B	220	210	211	205	203	195	187	183	181	176	173	167	164	160	154	149		
	B2	221	210	216	205	204	194	190	181	184	178	175	168	167	160	156	150		151
125	-	55.2	58.4	54.3	56.3	50.7	52.8	52.9	54.9	50.9	52.9	48.5	50.6	45	47.1	44.5	46.5		
	B	218	209	210	204	201	193	186	181	180	174	171	166	163	158	153	148		
	B2	219	208	214	204	202	192	188	180	184	177	174	167	165	158	154	148		150
130	-	49.9	53	49	50.9	45.5	47.5	47.7	49.6	45.7	47.7	43.4	45.4	39.9	42	39.4	41.5		
	B	214	207	207	202	199	191	184	179	179	173	170	165	162	157	152	147		
	B2	217	206	213	202	200	190	186	178	183	176	173	166	164	157	153	147		148
135	-	45	48.1	44.2	46	40.7	42.6	43	44.8	41	42.9	38.8	40.7	35.3	37.3	34.9	36.8		
	B	209	203	205	199	195	188	181	177	178	171	168	163	160	156	150	145		
	B2	215	204	211	201	198	188	185	176	181	174	171	164	162	156	151	145		147
140	-	40.3	43.3	39.5	41.3	36	37.9	38.4	40.1	36.5	38.3	34.2	36.1	30.8	32.7	30.4	32.3		
	B	207	199	203	194	192	185	179	175	176	170	166	162	159	154	149	144		
	B2	212	202	209	199	196	186	183	174	180	173	169	163	161	154	150	144		146
150	-	31.7	34.5	30.9	32.6	27.5	29.2	29.9	31.6	28.1	29.8	25.9	27.6	22.6	24.3	22.3	24		
	B	202	193	200	190	187	178	176	170	173	166	163	158	155	150	145	141		
	B2	207	197	205	195	192	182	179	171	177	170	166	160	158	151	147	141		143
160	-	23.9	26.6	23.2	24.8	19.9	21.5	22.3	23.9	20.5	22.1	18.4	20						
	B	197	189	196	186	183	175	172	165	170	164	160	154	151	146	142	138		
	B2	202	192	201	191	188	178	175	167	174	167	163	157	154	148	144	138		141
170	-	17	19.6	16.3	17.7	13	14.5	15.6	17	13.8	15.2	11.7	13.2						
	B	192	184	192	182	179	171	168	161	167	161	157	151	148	143	139	135		
	B2	196	188	197	187	183	174	172	164	171	164	160	154	151	145	140	135		138
180	-		13.3																
	B	183	177	184	176	172	165	163	157	162	157	153	148	145	139	135	132		
	B2	191	183	192	183	179	170	168	160	168	161	157	151	148	142	137	132		135
190	-	178	171	179	171	167	159	157	152	158	152	149	144	141	136	131	126		
	B	185	178	187	178	174	165	164	156	164	158	154	148	144	139	134	129		132
200	-	173	166	174	166	163	155	153	147	154	148	144	139	137	132	128	123		
	B2	180	173	182	174	169	161	159	152	160	154	150	144	141	135	131	126		130
210	-	168	161	170	162	158	151	149	143	150	145	141	136	133	128	124	121		
	B2	174	168	177	169	164	157	155	148	157	150	146	141	137	132	128	123		127
220	-	160	156	162	158	154	147	145	139	147	141	138	133	130	125	121	118		
	B2	170	163	172	165	159	152	151	144	153	147	143	137	134	129	124	120		124
230	-	156	151	157	151	147	141	140	135	142	138	134	129	126	122	117	115		
	B2	166	159	169	161	155	148	146	141	149	143	139	134	131	126	121	117		121
240	-	152	148	152	147	143	138	135	130	137	133	130	126	123	118	114	111		
	B2	162	156	165	158	152	144	143	137	146	140	136	131	127	122	118	114		118

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SL10DFB/B2

SL10 423 - 502

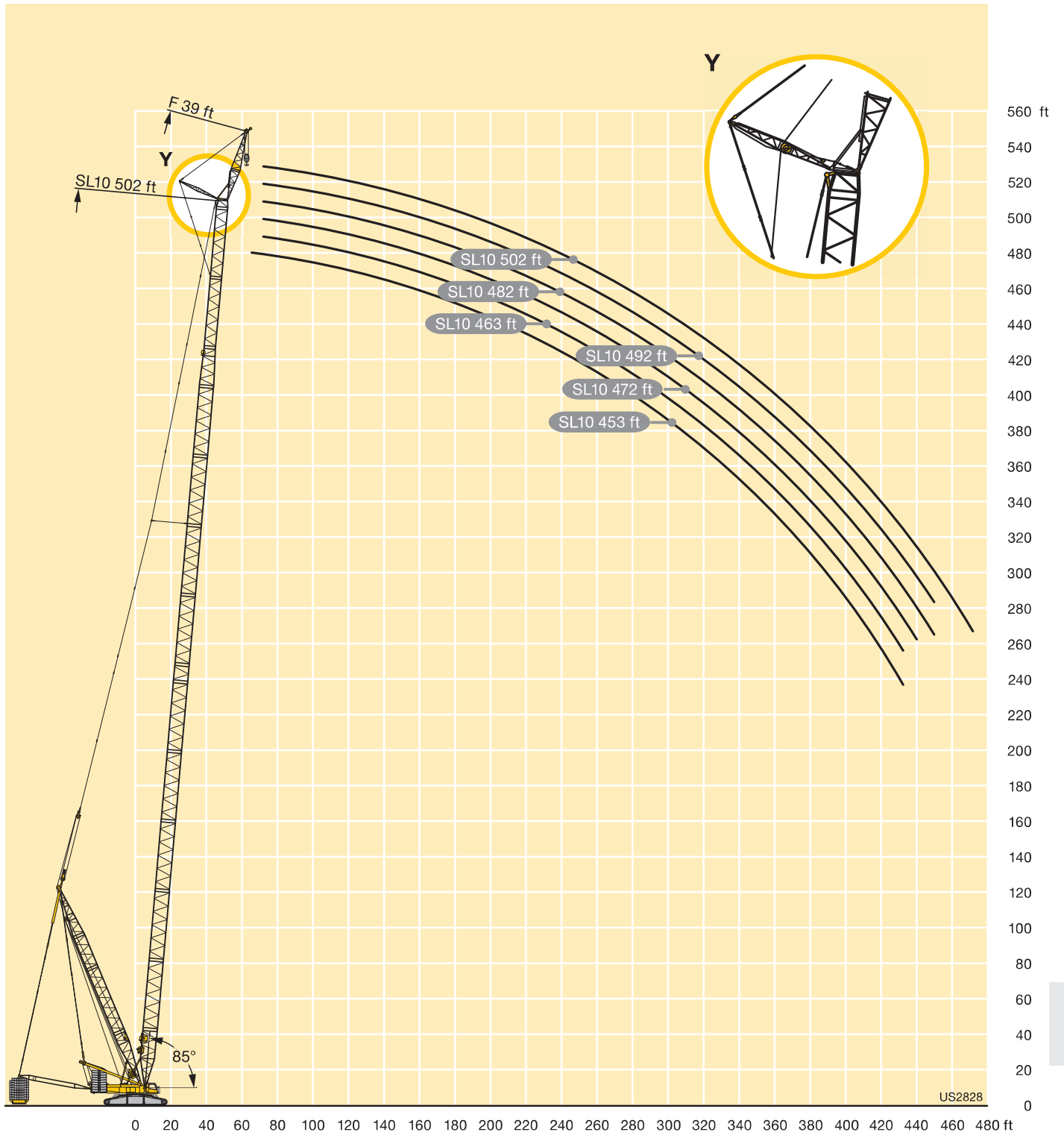


550000 – 771000 lbs
331000 – 550000 lbs
0 – 331000 lbs
0 lbs

ft	B B2	SL10 423		SL10 433		SL10 443		SL10 453		SL10 463		SL10 472		SL10 482		SL10 492		SL10 502		
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	
250	B B2	149 159	145 153	147 162	143 155	139 149	135 143	133 141	128 135	132 144	129 138	125 133	121 127	118 124	114 120	111 115	108 111	115	113	
260	B B2	146 155	143 150	142 159	139 152	135 146	132 140	130 138	126 132	128 141	126 135	122 131	119 126	115 122	112 118	108 113	105 109	113	110	
270	B B2	141 150	139 146	137 155	136 149	131 143	130 137	127 135	124 130	124 138	122 133	118 128	116 123	112 120	110 116	106 110	103 107	111	108	
280	B B2	134 145	134 141	131 149	131 145	127 139	126 134	124 132	121 127	120 135	119 131	115 126	114 121	109 117	108 113	104 108	101 105	109	107	
290	B B2	127 138	127 136	124 142	125 138	121 133	121 129	120 128	119 124	116 132	115 128	112 123	111 119	106 115	106 111	101 106	99.1 103	107	105	
300	B B2	120 132	121 131	118 134	118 132	115 127	115 124	115 124	113 120	111 127	111 124	107 119	108 116	103 112	104 109	99.1 104	97.2 101	104	103	
310	B B2	113 126	114 125	112 127	112 125	108 121	109 119	109 119	108 117	106 121	106 119	103 115	103 112	99 108	99.8 106	96 101	94.8 98.2	102	101	
320	B B2	106 119	107 120	105 120	106 119	102 115	103 114	104 115	103 113	100 116	101 114	97.8 110	98.2 108	94.2 104	95.2 103	92.3 98.5	91.4 95.9	99.1	98.2	
330	B B2	99.7 113	101 114	98.8 112	99.5 113	96 109	96.4 109	98.4 110	98.2 109	95.3 110	95.6 109	92.9 106	93.4 104	89.4 100	90.4 99	88 95.6	87.4 93.5	95.4	94.9	
340	B B2	94.2 108	95.7 109	93.3 107	93.8 107	90.1 104	90.3 104	93 106	93.1 106	90.2 105	90.5 104	88 101	88.6 100	84.7 96.3	85.6 95.5	83.7 92.7	83.3 91.1	91.6	91.4	
350	B B2	88.7 102	90.1 103	87.9 101	88.4 101	84.9 98.3	85.2 98.5	87.9 101	88.1 101	85.2 99	85.4 99	83.2 96.9	83.7 96.4	79.9 92.3	80.8 91.9	79.5 89.9	79.3 88.7	87.9	88	
360	B B2	83.2 96.3	84.6 97.4	82.6 95.6	83 95.8	79.7 93	80.1 93.2	82.8 95.7	83.1 96.2	80.3 93.8	80.5 94	78.4 92.1	78.9 92.1	75.2 88.2	76 88.3	75.2 87	75.2 86.3	84.2	84.6	
370	B B2	77.8 90.7	79.2 91.9	77.3 90.1	77.6 90.3	74.5 87.7	75 87.9	77.8 90.5	78.2 91.1	75.5 88.7	75.8 88.9	73.7 87.2	74.3 87.5	70.6 83.9	71.3 84.4	70.9 83.8	71.2 83.6	80.4	81.2	
380	B B2	73 85.6	74.1 86.8	72 84.6	72.2 84.9	69.3 82.4	70 82.6	72.8 85.4	73.2 86	70.6 83.6	71 83.8	69.1 82.2	69.6 82.6	66.1 79.1	66.8 79.7	66.7 79.9	67 80.2	76.5	77.8	
390	B B2	68.5 80.8	69.3 82	67.4 79.8	67.7 80.1	64.6 77.3	65.2 77.6	67.7 80.3	68.3 80.9	65.8 78.5	66.3 78.7	64.5 77.2	65 77.7	61.6 74.3	62.3 74.9	62.4 75.3	62.7 75.6	72.1	73.4	
400	B B2	64.3 76.2	65 77.3	63.1 75.2	63.4 75.6	60.3 72.6	60.6 72.8	63.3 75.5	63.8 76.1	61.1 73.6	61.6 73.7	59.8 72.2	60.4 72.8	57.1 69.6	57.8 70.1	58.1 70.7	58.4 71	67.7	68.9	
410	B B2			59 70.8	59.2 71.3	56.3 68.1	56.4 68.2	59.3 71.1	59.5 71.6	56.8 68.9	57.2 69	55.4 67.4	55.9 68	52.6 64.8	53.3 65.4	53.8 66.1	54.1 66.4	63.2	64.4	
420	B B2							55.4 66.8	55.5 67.2	53 64.7	53.1 64.9	51.4 63.1	51.7 63.5	48.3 60.2	48.8 60.6	49.5 61.4	49.8 61.8	58.8	60	
430	B B2							51.7 63	51.7 63.3	49.3 60.8	49.3 60.9	47.6 59	47.8 59.3	44.7 56.4	44.9 56.7	45.5 57.2	45.8 57.5	54.3	55.5	
440	B B2											45.6 57	44 55.3	44.1 55.4	41.1 52.7	41.2 52.8	41.8 53.3	42 53.6	50.3	51.4
450	B B2													37.6 49	37.6 49	38.2 49.5	38.4 49.9	46.6	47.5	
460	B B2																35 46.2	43	43.7	
470	B B2																31.6 42.5	39.4	40.3	

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O



SL13DFB/B2

SL13 335 - 423

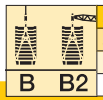
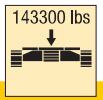
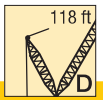


550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft	B B2	SL13 335		SL13 344		SL13 354		SL13 364		SL13 374		SL13 384		SL13 394		SL13 404		SL13 413		SL13 423	
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°
55	-	256																			
	B	303																			
	B2																				
60	-	239	242	234	238	230	235	225	230	223		218		212		207					
	B	302	267	299	266	293	264	288	260	267	254	267		267		267			255		
	B2	300	266	298	266	292	262	287		267		267									
65	-	217	221	213	217	209	214	205	209	203	204	198	200	193	194	188	190	184	187	179	183
	B	297	263	294	263	289	259	285	257	267	252	267	248	267	249	266	244	255	237	247	231
	B2	294	262	293	263	288	259	284	256	267	251	267	248	267	248	266	244	257	237	248	231
70	-	199	202	195	199	191	196	187	191	186	189	181	185	176	180	172	175	170	173	165	169
	B	292	259	289	260	284	256	280	254	267	249	267	246	267	247	264	242	254	236	245	230
	B2	286	256	287	259	284	256	281	253	267	249	267	245	267	247	265	242	256	236	247	230
75	-	183	186	178	182	175	179	171	175	170	173	166	169	161	164	156	160	155	158	150	154
	B	287	255	285	256	280	253	277	251	267	246	266	243	267	245	262	240	252	234	244	229
	B2	278	250	280	254	280	253	277	251	267	247	266	243	267	244	263	240	254	235	246	229
80	-	168	171	164	168	161	165	157	161	156	159	152	155	147	150	143	146	141	144	137	140
	B	282	252	281	253	276	250	273	248	267	244	265	241	266	242	260	238	251	232	243	227
	B2	269	244	274	250	276	250	274	248	267	244	266	241	266	242	261	238	253	233	245	227
85	-	154	157	151	154	148	152	144	148	143	146	139	142	134	137	130	134	129	132	125	128
	B	275	248	276	249	273	247	269	245	267	242	262	239	263	240	258	237	249	231	241	226
	B2	262	237	268	245	271	247	271	245	267	241	263	239	265	240	259	236	251	231	243	226
90	-	143	145	139	142	136	140	133	136	132	134	128	131	123	126	120	122	118	121	114	117
	B	269	243	272	245	269	243	266	242	263	239	258	236	261	238	256	235	248	229	240	224
	B2	255	231	261	239	265	243	266	242	264	239	261	237	262	238	257	235	249	230	242	225
95	-	132	134	128	132	126	129	122	126	121	124	118	120	113	116	109	112	108	111	104	107
	B	263	238	267	241	266	240	263	240	261	236	256	233	258	236	253	232	245	227	238	223
	B2	248	225	254	234	259	238	261	238	261	237	259	235	260	236	255	233	248	228	241	224
100	-	122	124	118	122	116	119	112	116	112	114	108	111	104	106	100	103	99	102	95.2	97.9
	B	256	233	262	238	262	238	260	237	258	234	254	231	256	233	250	233	242	226	235	221
	B2	241	219	248	228	253	233	257	235	257	234	256	233	258	234	253	232	246	227	239	223
105	-	113	115	109	113	107	110	104	107	103	105	99.8	102	95.1	97.5	91.6	94.1	90.5	93	86.8	89.3
	B	249	228	257	234	259	235	257	235	255	232	252	229	254	232	249	229	242	224	234	219
	B2	234	214	241	222	247	228	251	231	254	232	254	231	256	233	252	230	245	225	237	221
110	-	105	107	101	104	99	102	95.6	98.8	95.3	97.4	91.9	94.1	87.3	89.6	83.9	86.2	82.9	85.3	79.2	81.6
	B	243	223	251	230	254	233	254	233	252	230	249	228	252	230	247	228	240	223	232	218
	B2	228	209	236	217	241	223	247	228	250	229	252	229	254	231	250	229	243	224	235	219
115	-	97.1	99	93.7	96.7	91.5	94.5	88.2	91.3	87.9	89.9	84.6	86.7	80	82.2	76.7	78.9	75.8	78	72.2	74.4
	B	237	217	244	226	249	228	250	229	249	227	246	226	250	228	245	226	239	221	231	217
	B2	223	205	231	213	236	218	242	223	246	226	248	227	252	230	249	228	242	223	232	218
120	-	90	91.8	86.7	89.6	84.6	87.5	81.3	84.3	81	83	77.8	79.8	73.3	75.3	69.9	72.1	69.1	71.2	65.5	67.7
	B	231	212	238	221	243	224	245	225	244	224	242	223	246	225	242	224	237	220	230	216
	B2	218	200	225	208	231	214	237	219	241	223	244	224	249	227	246	226	240	222	230	216
125	-	83.4	85.1	80.1	82.9	78.1	80.9	74.8	77.7	74.6	76.5	71.4	73.3	66.9	68.9	63.6	65.7	62.8	64.9	59.3	61.5
	B	225	207	232	216	238	219	240	220	240	220	237	219	241	222	238	222	233	218	228	215
	B2	212	196	220	204	225	210	232	215	237	219	240	220	245	224	243	223	238	221	227	214
130	-	77.3	79	74.1	76.8	72.1	74.8	68.9	71.7	68.8	70.5	65.6	67.4	61.1	63	57.9	59.8	57.1	59.1	53.7	55.7
	B	218	202	226	210	232	214	236	216	236	216	233	216	238	219	234	218	230	215	222	212
	B2	207	191	215	200	220	205	227	211	232	215	236	217	242	220	241	220	236	218	225	211
135	-	71.9	73.5	68.7	71.3	66.7	69.4	63.5	66.3	63.4	65.1	60.3	62.1	55.8	57.7	52.6	54.5	51.9	53.8	48.5	50.5
	B	211	197	220	205	227	209	231	211	232	212	229	213	234	215	231	215	227	213	217	207
	B2	202	187	209	195	215	201	222	207	228	211	232	213	238	217	238	217	234	216	222	209
140	-	66.6	68.1	63.5	66	61.5	64.1	58.3	61	58.3	59.9	55.2	56.9	50.7	52.5	47.6	49.4	46.9	48.7	43.5	45.4
	B	205	192	214	200	221	205	227	207	229	208	225	210	231	212	230	212	226	210	214	203
	B2	197	183	204	191	210	197	218	203	223	207	228	209	235	213	236	214	232	213	219	206
150	-	57	58.3	53.9	56.3	52	54.4	48.9	51.4	48.9	50.4	45.8	47.4	41.4	43	38.3	40	37.7	39.3	34.4	36.1
	B	194	182	203	191	209	196	216	198	218	200	217	204	224	205	225	206	222	206	209	198
	B2	187	174	195	183	200	189	208	195	214	199	220	202	228	206	230	208	228	208	214	201
160	-	48.4	49.6	45.3	47.6	43.5	45.8	40.4	42.8	40.4	41.8	37.5	38.9	33	34.5	30	31.5	29.4	31	26.1	27.8
	B	185	174	194	183	198	187	203	188	204	191	209	196	216	199	218	200	217	202	203	193
	B2	178	167	185	175	191	181	199	187	206	191	211	195	220	199	224	201	224	203	208	196
170	-	40.8	41.9	37.7	39.9	35.9	38.1	32.9	35.1	33	34.2	30	31.3	25.6	27	22.5	24	22	23.5	18.8	20.3
	B	175	165	184	174	186	180	190	179	196	184	201	187	206	192	208	193	209	196	197	187
	B2	169	159	176	167	182	173	190	180	197	185	203	188	212	191	216	194	218	197	201	190
180	-	34.1	35.1	31.1	33.1	29.3	31.4	26.3	28.4	26.4	27.5	23.5	24.7	19	20.4	16	17.4	15.6	16.9		13.8
	B	166	158	174	166	175	172	182	172	188	177	194	181	197	185	200	187	200	189	188	179
	B2	163	153	169	161	175	166	182	172	189	178	195	181	204	184	209	187	211	191	195	185
190	-	28	29	25	26.9	23															

SL13DFB/B2

SL13 335 - 423



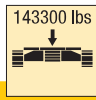
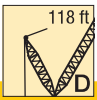
550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft	B B2	SL13 335		SL13 344		SL13 354		SL13 364		SL13 374		SL13 384		SL13 394		SL13 404		SL13 413		SL13 423		
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	
230	B B2	137 139	132 133	143 145	137 139	148 150	143 144	152 156	147 149	158 162	150 151	161 168	153 154	167 175	156 157	169 181	159 159	169 184	161 163	159 169	152 160	
240	B B2	135 135	129 130	139 141	134 136	143 146	138 141	147 152	142 145	153 158	146 147	157 163	149 150	163 170	152 152	165 176	154 154	163 180	157 158	155 165	149 157	
250	B B2	132 132	127 127	137 137	132 133	141 143	136 138	145 148	139 142	149 154	142 144	153 160	145 146	159 165	147 148	160 170	150 150	158 175	153 153	151 161	146 153	
260	B B2	129 129	125 125	134 134	130 130	138 139	134 135	143 145	136 138	146 151	139 140	148 156	142 143	153 160	143 145	154 163	145 147	153 167	149 149	147 156	144 149	
270	B B2	128 127	123 123	131 132	128 128	136 137	132 132	140 142	134 135	143 148	136 137	143 153	138 139	146 155	138 141	147 156	139 143	145 159	143 145	141 150	140 144	
280	B B2	127 125	121 121	130 130	126 126	133 134	129 130	138 139	131 132	140 144	134 134	138 149	135 136	138 150	133 138	139 149	133 140	138 151	136 141	135 144	134 139	
290	B B2	125 123	120 120	129 128	124 124	130 132	126 127	134 137	128 129	137 141	131 131	133 144	132 133	131 145	128 134	130 142	127 137	130 143	129 137	127 137	127 135	
300	B B2	124 122	119 119	128 126	122 122	126 130	124 125	128 135	124 127	131 137	126 128	128 139	128 130	124 138	123 130	122 135	121 133	122 135	122 133	120 131	119 130	
310	B B2	124 120	117 117	125 125	120 120	123 129	122 122	122 132	120 124	124 134	121 125	122 133	122 127	117 131	117 125	115 128	115 127	115 128	115 128	112 125	112 125	
320	B B2	121	116	121	118	119 127	119 120	116 128	116 122	118 129	116 123	115 127	116 125	111 124	112 121	108 122	108 121	108 121	108 121	105 118	105 119	
330	B B2			115	115	113	114	111 123	111 119	111 123	111 120	109 121	109 121	105 117	105 116	102 115	102 114	102 115	102 115	98,5 112	98,7 113	
340	B B2			109	110	107	108	105 117	106 116	105 117	105 117	103 115	103 115	98,6 111	99,2 111	96,1 108	96,3 108	95,8 108	96,2 109	92,9 106	93,2 106	
350	B B2							99,7	100	99,5	99,8	97,1 109	97,3 109	92,8 105	93,3 105	90 102	90,3 103	90 102	90,4 103	87,4 99,7	87,7 100	
360	B B2									94,3	94,6	91,8	92	87,4	87,8 99,6	84,4 96,8	84,7 97,3	84,3 96,6	84,8 97	81,8 94,1	82,1 94,3	
370	B B2													82,5	82,7	79,3	79,6	79 91,3	79,4 91,8	76,5 89	76,8 89,2	
380	B B2														77,7	77,8	74,6	74,8	74,2 86,5	74,6 87	71,4 84	71,8 84,3
390	B B2															70,1	70,4	69,7	70,1	66,8	67,2	
400	B B2																			62,6	63	

TAB 181508 / 181596

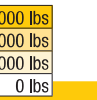
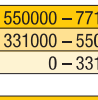
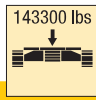
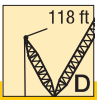
SL13DFB/B2

SL13 433 - 512



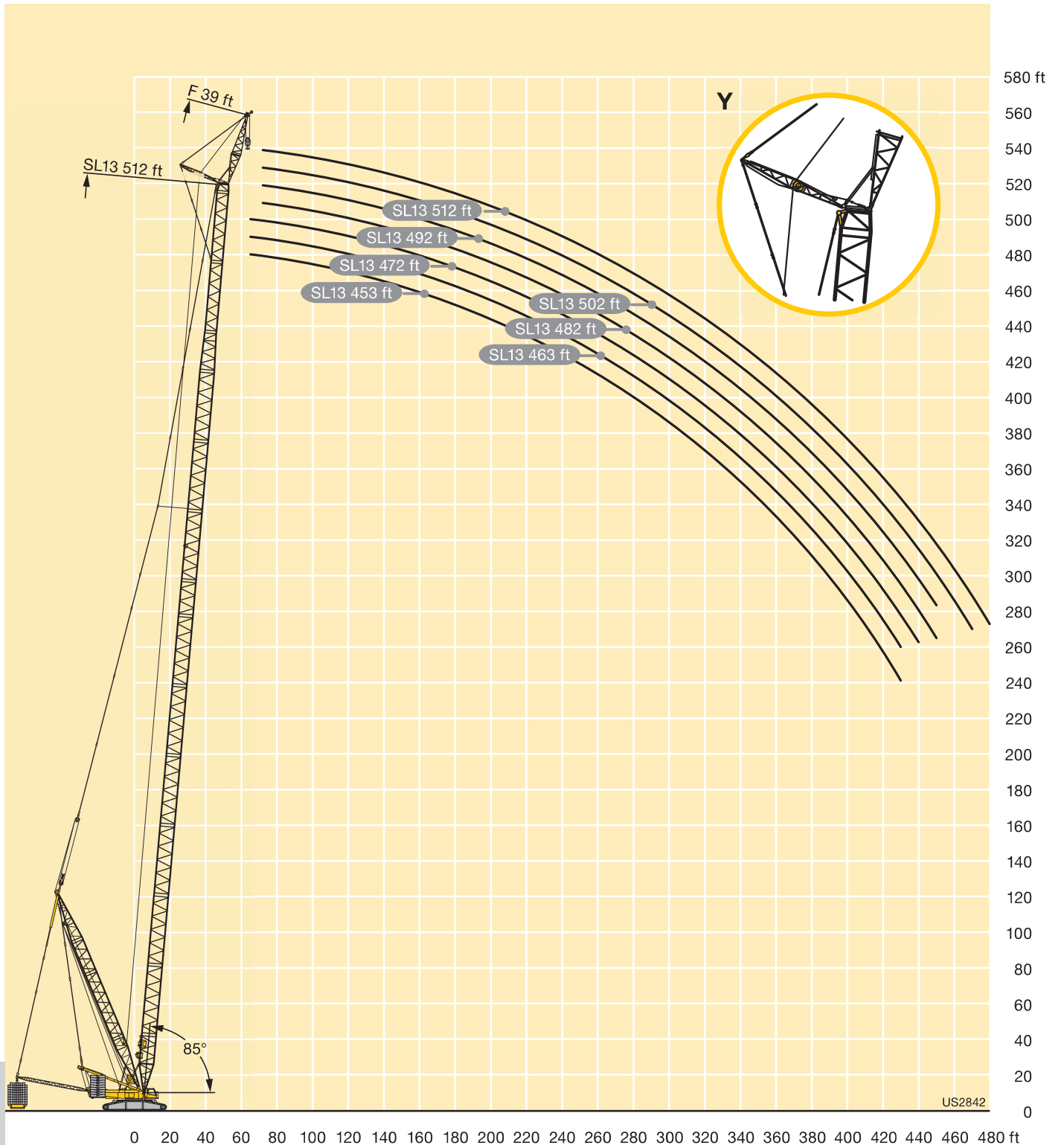
550000 - 771000 lbs
331000 - 550000 lbs
0 - 331000 lbs
0 lbs

ft		SL13 433		SL13 443		SL13 453		SL13 463		SL13 472		SL13 482		SL13 492		SL13 502*		SL13 512*		
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	
65	-	177	181	172		173		168		165										
	B B2	230 230	225 229	228 229	217	212 213		204		195										
70	-	163	167	158	155	159		155		152										
	B B2	230 230	224	227 229	216	211 212		204		194										
75	-	148	152	144	148	145	149	141	145	138	143	135	139	133	137	130	128	126	112	
	B B2	230 230	223 223	226 228	216 216	210 211	201 201	202 203	194 195	192 194	187 187	185 186	179 178	174 174	168 166	166 166	161 161	157 158	152	
80	-	135	139	131	134	132	136	129	132	125	130	123	126	121	125	118	121	114	118	
	B B2	230 230	221 222	224 227	215 215	209 210	200 200	201 202	194 194	191 193	186 185	184 185	178 177	172 173	166 166	165 165	160 161	156 157	151 152	
85	-	123	127	119	123	121	124	117	120	114	119	111	115	110	113	107	110	104	107	
	B B2	230 230	221 221	223 225	214 214	207 209	199 199	192 193	190 192	184 184	182 184	177 176	171 172	165 165	164 165	159 159	156 157	150 151		
90	-	113	116	109	112	110	113	107	110	104	108	101	105	100	103	96.9	100	93.9	97	
	B B2	230 230	219 220	221 224	213 212	206 208	198 198	198 200	191 192	188 190	183 183	181 182	175 174	169 171	164 163	164 164	158 158	154 156	150 150	
95	-	103	106	99.2	102	101	104	97.5	100	94.7	98.9	92.2	95.1	91.2	94.1	87.8	90.8	85	87.9	
	B B2	229 230	218 219	220 222	212 210	204 206	197 196	190 199	186 191	182 181	179 173	173 169	173 162	168 163	162 163	161 157	156 155	153 149		
100	-	94.1	96.8	90.3	93	92.1	94.8	88.7	91.4	86	90.1	83.6	86.4	82.8	85.5	79.4	82.3	76.7	79.5	
	B B2	227 230	216 218	218 220	210 209	202 205	196 195	195 198	188 189	185 187	181 180	178 179	172 171	166 168	161 161	160 162	155 156	152 153	147 148	
105	-	85.7	88.3	82	84.6	84	86.5	80.6	83.2	78	82	75.7	78.3	74.9	77.6	71.7	74.3	69	71.7	
	B B2	225 229	214 217	216 218	208 207	200 203	195 193	193 197	186 188	183 186	179 179	176 178	170 170	165 166	160 159	159 161	154 154	150 152	146 146	
110	-	78.2	80.7	74.6	77.1	76.6	79	73.3	75.8	70.8	74.6	68.5	71.1	67.8	70.3	64.6	67.2	62	64.6	
	B B2	223 227	214 216	215 216	206 204	198 201	193 191	192 195	184 186	182 184	177 177	174 176	168 168	164 165	164 158	157 159	152 153	149 151	145 145	
115	-	71.2	73.5	67.6	70	69.7	72	66.5	68.8	64	67.7	61.8	64.3	61.2	63.6	58	60.5	55.5	58	
	B B2	222 226	213 214	213 214	204 202	197 199	191 189	190 194	183 185	180 183	176 176	173 175	167 167	162 163	156 156	156 158	151 152	148 150	143 144	
120	-	64.7	66.9	61.1	63.4	63.3	65.5	60.1	62.3	57.7	61.3	55.5	57.9	55	57.3	51.8	54.2	49.4	51.7	
	B B2	221 225	212 213	211 212	202 200	196 197	190 188	189 192	182 183	178 181	175 174	172 173	165 165	161 161	155 155	154 157	150 151	146 148	141 142	
125	-	58.5	60.7	55	57.2	57.3	59.4	54.1	56.2	51.8	55.3	49.6	51.9	49.2	51.4	46	48.3	43.6	45.9	
	B B2	219 223	211 211	210 210	200 198	195 196	188 186	188 191	182 182	177 179	173 173	170 171	164 164	159 160	153 153	153 155	148 149	145 147	140 141	
130	-	52.9	54.9	49.4	51.5	51.7	53.8	48.6	50.6	46.3	49.7	44.2	46.3	43.8	45.9	40.7	42.9	38.3	40.5	
	B B2	215 221	210 210	207 207	198 196	193 193	186 184	185 189	180 180	175 178	172 171	169 170	163 162	158 158	152 152	147 154	144 148	139 145	139 140	
135	-	47.7	49.7	44.3	46.3	46.7	48.6	43.6	45.5	41.3	44.7	39.3	41.3	38.9	40.9	35.8	37.9	33.5	35.6	
	B B2	213 219	206 208	203 205	195 194	190 191	183 182	183 187	178 179	173 176	170 169	167 168	161 160	156 156	150 150	150 153	146 147	142 144	138 138	
140	-	42.8	44.7	39.4	41.3	41.8	43.7	38.7	40.6	36.5	39.8	34.5	36.5	34.2	36.1	31.1	33.2	28.8	30.9	
	B B2	211 217	201 206	198 203	190 192	186 189	180 180	181 186	176 177	171 174	167 168	164 166	158 159	153 155	149 148	149 151	145 145	141 142	136 137	
150	-	33.7	35.4	30.4	32.2	32.8	34.6	29.8	31.6	27.7	30.8	25.7	27.5	25.5	27.3	22.5	24.3	20.2	22.1	
	B B2	207 213	197 201	193 198	184 187	182 185	174 176	178 182	170 174	167 171	162 165	160 163	154 155	149 151	145 148	146 142	141 142	138 139	132 134	
160	-	25.5	27.1	22.3	23.9	24.8	26.4	21.8	23.4	19.7	22.7		19.5		19.3					
	B B2	203 208	192 197	189 193	180 183	178 181	169 172	174 179	167 170	164 167	158 161	156 159	150 152	146 148	142 141	142 145	138 139	134 136	129 131	
170	-	18.2	19.7	15	16.5	17.6	19.1	14.6	16.2	12.6	15.4		12.3		12.2					
	B B2	198 203	188 192	184 188	175 178	174 177	165 168	171 176	164 167	161 164	155 158	153 156	146 149	142 144	139 138	139 142	134 137	131 134	127 128	
180	-	188	180	176	169	168	160	166	161	157	152	149	143	138	135	136	131	128	125	
	B B2	198 198	187 187	183 183	173	172 164		171 163		160 155		152 145		141 135		139 139		134 131	126 126	
190	-	182	175	171	162	161	155	161	155	152	147	144	139	135	131	133	129	125	122	
	B B2	192 192	182 182	178 178	168	167 159		167 160		156 151		148 142		137 131		136 136		131 128	123 123	
200	-	176	171	166	158	157	150	157	150	147	142	140	134	130	126	129	125	122	118	
	B B2	186 186	177 177	172 172	164	163 155		163 156		152 147		144 143		138 133		128 133		125 125	120 120	
210	-	171	166	162	154	153	146	153	146	143	139	136	131	127	123	126	121	118	114	
	B B2	181 181	172 172	167 167	159	158 151		159 152		148 143		140 134		130 130		125 129		125 125	121 121	117 117
220	-	165	161	157	149	148	142	149	143	139	135	133	127	123	120	123	118	115	111	
	B B2	177 177	168 168	163 163	154	153 147		155 148		144 140		137 131		126 126		126 126		122 122	118 118	114 114
230	-	160	154	149	144	143	137	144	139	136	132	129	124	120	116	120	115	112	109	
	B B2	173 173	164 164	159 159	151	150 143		151 145		140 136		133 127		123 123		118 118		115 115	111 111	
240	-	155	151	146	141	139	133	138	133	131	128	125	120	117	113	117	113	109	106	
	B B2	169 169	161 161	156 156	148	147 140		148 142		137 133		130 124		120 120		115 120				



ft	B B2	SL13 433		SL13 443		SL13 453		SL13 463		SL13 472		SL13 482		SL13 492		SL13 502*		SL13 512*	
		11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°	11°	16°
250	B B2	150 165	147 158	142 152	138 145	136 144	131 137	134 145	130 139	127 135	124 131	121 127	117 122	113 117	110 113	113 117	110 113	106 109	104 106
260	B B2	145 161	143 154	138 148	136 142	133 140	128 135	130 142	127 137	124 132	122 128	118 124	115 120	110 115	106 111	109 115	106 111	102 107	100 104
270	B B2	140 154	140 149	134 144	133 138	130 137	126 131	126 139	124 134	121 129	119 126	115 122	113 117	108 112	104 108	106 113	104 109	99,3 105	97,6 102
280	B B2	134 147	134 142	130 138	129 133	127 133	123 128	122 135	122 130	118 126	117 123	113 119	111 115	106 110	103 106	104 110	102 107	97 102	95,6 99,9
290	B B2	126 139	127 136	123 132	124 129	123 129	120 125	118 130	118 126	114 122	114 120	110 116	109 112	104 107	101 104	101 108	99,8 105	94,8 99,6	93,5 97,9
300	B B2	119 132	120 130	116 126	117 124	117 124	114 122	112 124	113 122	110 118	111 116	107 112	107 109	102 105	98,6 102	98 105	97,6 103	92,6 97,2	91,4 95,9
310	B B2	112 124	113 124	109 121	110 119	110 120	109 118	106 119	107 117	104 114	106 113	102 109	102 106	98,2 102	95,9 99,9	94,9 102	95,4 100	90,4 94,6	89,3 93,7
320	B B2	104 117	105 118	102 115	103 114	104 116	103 115	100 113	101 112	98,7 110	99,9 109	96,4 105	96,8 103	93,9 100	92,2 98	90,9 99	91,9 97	87,3 92	86,6 91,3
330	B B2	97,4 111	98,4 112	95,1 109	96 109	97,9 111	97,5 111	94,5 108	95,3 108	92,9 105	94,2 106	90,9 101	91,3 100	89,2 97,7	87,8 96,1	86,1 95,7	87 94,2	83,3 89,5	83,1 89
340	B B2	91,8 105	92,4 106	88,7 103	89,4 103	91,6 106	91,8 106	88,5 102	89,4 103	87,2 101	88,5 102	85,3 97,7	85,8 97,3	84,4 95,3	83,4 94,2	81,3 92,4	82,1 91,3	78,7 87	78,6 86,6
350	B B2	86,5 99,3	87 99,9	83,4 97	84 97,3	86,3 100	86,6 100	83 96,8	83,6 97,5	81,4 95,7	82,9 97	79,8 93,3	80,2 93,5	79,6 92,9	78,9 92,3	76,5 89,1	77,2 88,5	74,1 84,5	74,2 84,2
360	B B2	81,2 93,5	81,6 94,1	78,3 91,1	78,8 91,4	81,3 94,4	81,6 94,7	77,9 91,3	78,4 92	76,3 90,3	77,6 91,7	74,5 88,3	74,8 88,8	74,8 89	74,5 88,9	71,7 85,3	72,3 85,2	69,5 82	69,7 81,8
370	B B2	75,8 88,1	76,2 88,6	73,1 85,4	73,5 85,8	76,3 88,9	76,7 89,1	73,1 85,8	73,5 86,6	71,5 84,9	72,7 86,3	69,4 83,1	69,6 83,6	70,1 83,9	70,1 84,3	66,9 80,9	67,4 81,3	64,9 78,9	65,3 78,9
380	B B2	70,6 83,1	70,8 83,3	68 80,3	68,3 80,8	71,3 83,6	71,8 83,7	68,3 80,3	68,7 81,2	66,9 79,5	68 80,9	64,9 77,9	65,2 78,4	65,6 78,8	65,7 79,2	62,2 76	62,6 76,4	60,3 74,2	60,8 74,5
390	B B2	66 78,3	66,2 78,5	63,3 75,4	63,4 75,9	66,3 78,8	66,9 78,9	63,5 75,5	63,8 76,2	62,3 74,3	63,4 75,6	60,3 72,7	60,7 73,1	61,3 73,8	61,3 74,2	57,9 71,1	58,3 71,5	56,1 69,5	56,5 69,8
400	B B2	61,6	61,8	58,9 70,8	59 71,2	61,8 74,2	62,4 74,4	58,9 70,9	59,1 71,5	57,7 69,6	58,7 70,7	55,8 67,8	56,2 68,2	56,9 68,7	57 69,1	53,6 66,1	54 66,6	51,9 64,7	52,3 65,1
410	B B2	57,4	57,6	54,7	54,8	57,8	58,1	54,6 66,5	54,8 67	53,3 65,2	54,3 66,1	51,3 63,2	51,7 63,6	52,5 63,9	52,7 64,3	49,3 61,3	49,7 61,8	47,8 60	48,2 60,4
420	B B2					53,8	54,1	50,5	51	49,2	50,2	46,8 58,7	47,3 59,2	48,2 59,7	48,4 60	45,1 56,8	45,5 57,1	43,7 55,3	44,1 55,7
430	B B2					50,1	50,3	46,8	47,2	45,3	46,4	43,2 54,7	43,5 55,2	44,1 55,7	44,3 56	40,8 52,6	41,2 52,9	39,6 51,1	39,9 51,5
440	B B2							43,5	41,7	42,7	39,6	39,8	40,2 51,8	40,4 52	37 48,7	37,3 48,9	35,6 47	35,9 47,5	
450	B B2										36	36,3	36,5	36,8	33,4	33,8	31,8 43,2	32 43,6	
460	B B2												33,4	29,8	30,2	28,1	28,5		
470	B B2												30,2	26,5	26,7	24,9	25,2		
480	B B2																22	22,2	










* raisable only with B2 · seulement relevable avec B2










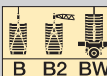

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Description of symbols Explication des symboles

General symbols Symboles généraux

	Hoist gear Treuil de levage		Page Page
	Slewing speeds Vitesses d'orientation		Wind power applications Applications de centrale éolienne
	Driving speed Vitesse de translation		Central ballast Contrepoids central
	Hookblock / Capacity Moufle à crochet / Capacité de charge		Counterweight Contrepoids
	Radius Portée		

Crane specific symbols Symboles spécifiques à la grue

	Main boom S Flèche principale S		Lattice type luffing fly jib W Fléchette treillis à volée variable W
	Main boom HS Flèche principale HS		Heavy duty jib WV Fléchette pour charge lourde WV
	Main boom SL Flèche principale SL		Fixed lattice jib F Fléchette à treillis fixe F
	Main boom HSL Flèche principale HSL		Counterweight frame B/B2/Counterweight trailer BW Palette de lest B/B2/Remorque à contrepoids BW
	Derrick system D Système derrick D		

Remarks referring to load charts

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. Lifting capacities are given in kips.
4. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
5. The working radii are measured from the slewing centreline.
6. The subsoil must be even and of good bearing capacity.
7. Subject to modification of lifting capacities.
8. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.

Remarques relatives aux tableaux des charges

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. Les charges sont indiquées en kips.
4. 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.
5. Les portées sont prises à partir de l'axe de rotation de la partie tournante.
6. Le sol doit être plat et résistant.
7. Charges données sous réserve de modification.
8. 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.