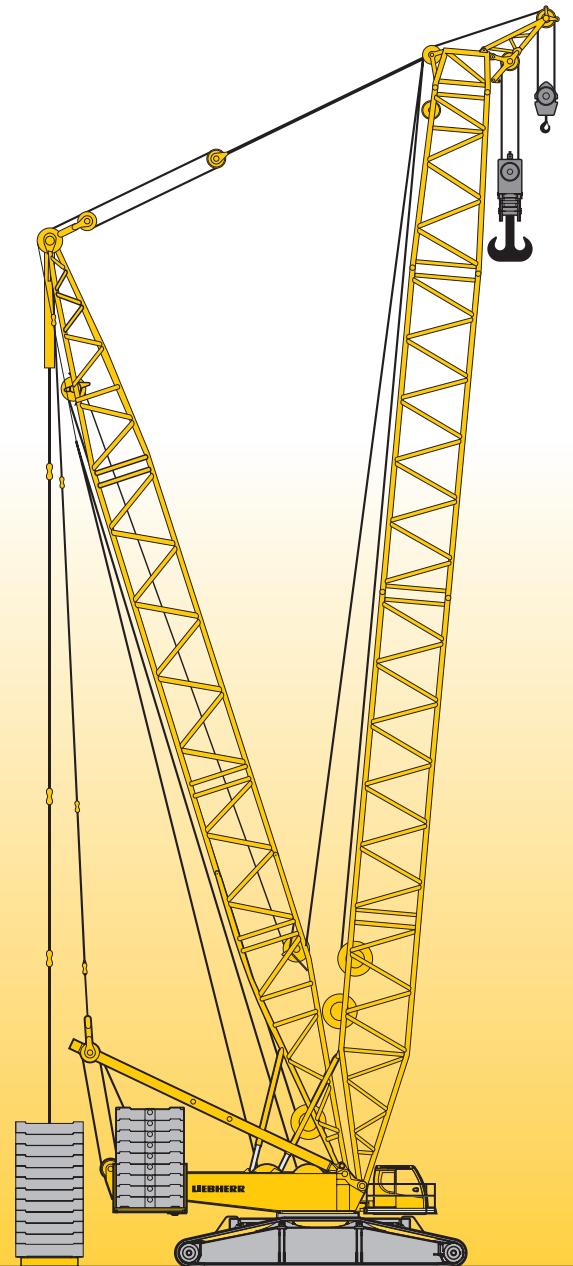


Crawler Crane Grue sur chenilles

LR 1600/2

Technical Data Caractéristiques techniques



LIEBHERR

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Technical description

Description techniques

Max. capacity	1322 kips at 33 ft radius SDB – System with S 157 ft.
Max. load moment	60.686.600 lbs-ft – 825 kips at 72 ft radius. SDBW – System with S 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 double drive (optional 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 D846 A7, water cooled, rated power 370 kW (503 HP) at 1900 rpm, max torque 1737 lbs-ft at 1200 – 1500 rpm. Fuel tank approx. 370 gallons, exhaust emission according to directive 97/68/EG stage 3A and EPA/CARB Tier 3.
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 S	System 2825 with head section for max. 1322774 lbs load capacity. Boom length S 79 – S 315 ft. Boom length SDB 118 – SDB 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.
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 33 ft. Système SDB avec S 157 ft.
Couple de charge max.	60.686.600 lbs-ft – 825 kips pour une portée de 72 ft. Système SDBW avec S 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 2 positions (en option 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 D846 A7, refroidissement par eau, puissance 370 kW (503 PS) à 1900 rpm, couple de rotation max. 1737 lbs-ft à 1200 – 1500 rpm. Réservoir de carburant: env. 370 gallons. Emissions polluantes conformes aux normes 97/68/EG niveau 3A et EPA/CARB Tier 3.
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

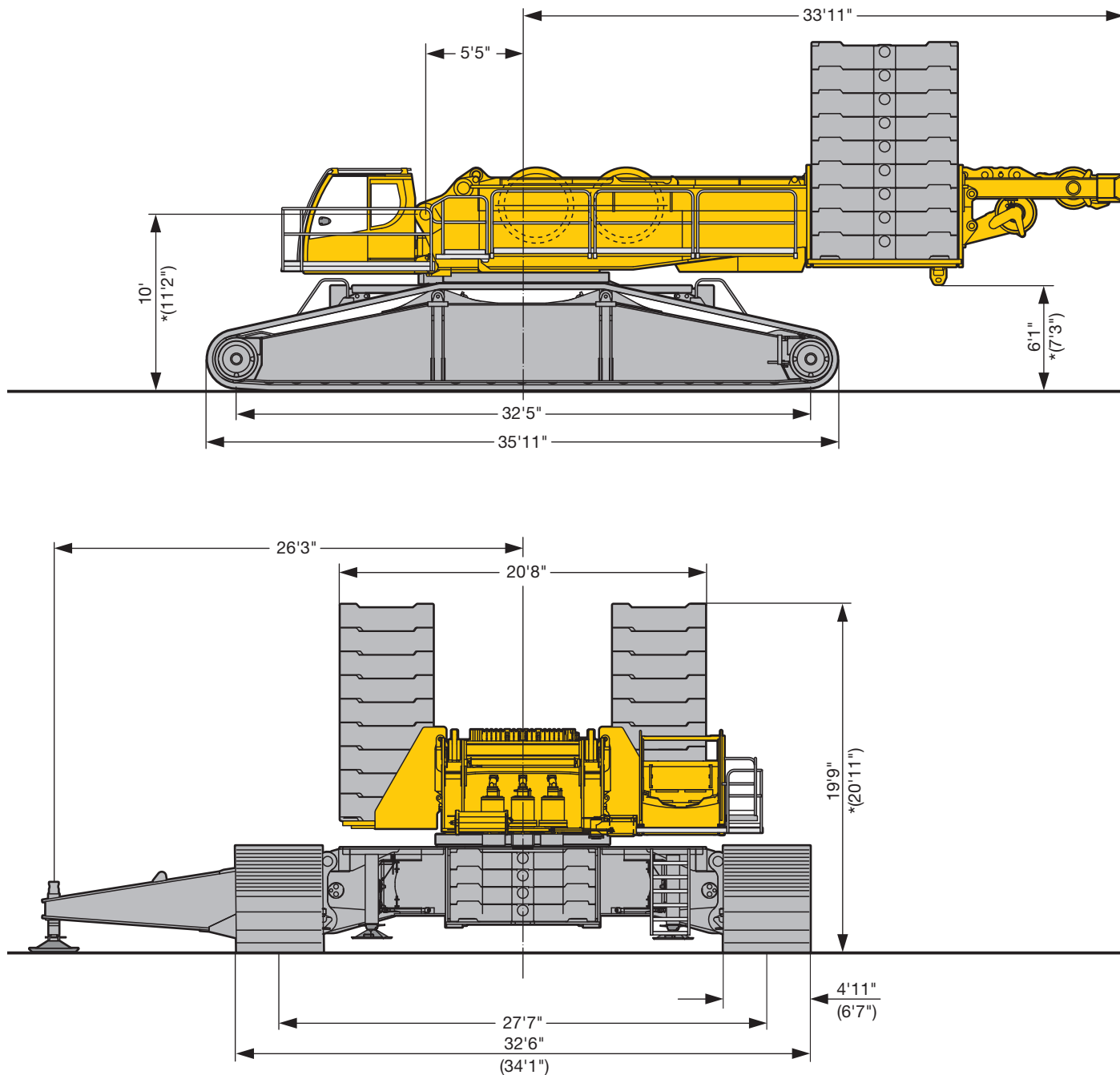
Flèche principale S	Système 2825 avec élément de tête pour une capacité max. de 1322774 lbs. Longueur de la flèche S 79 – S 315 ft. Longueur de la flèche SDB 118 – SDB 472 ft avec système derrick.
Fléchette treillis à volée variable W	Système 2420 avec élément de tête pour une capacité max. de 1322774 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.
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.

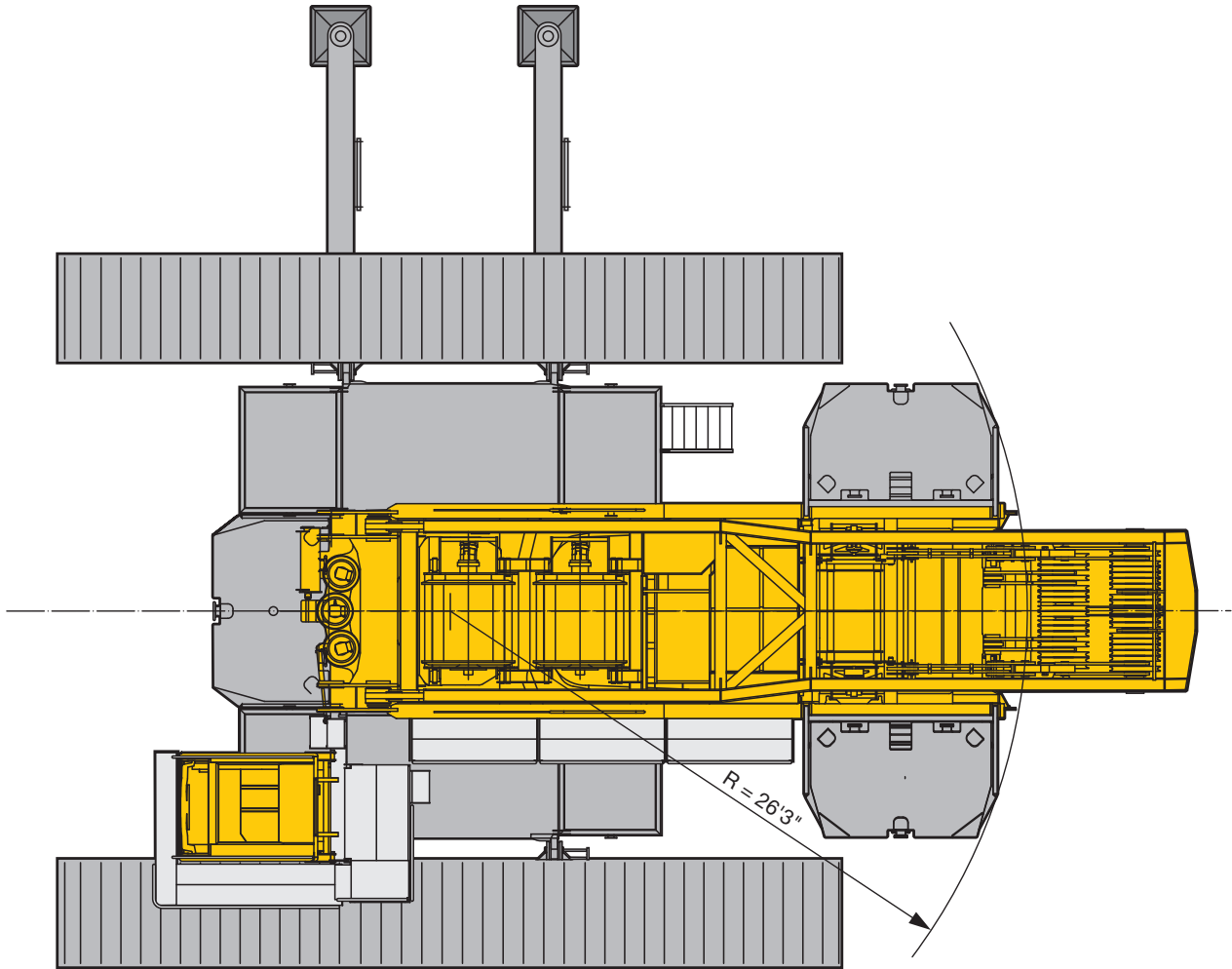
Dimensions Encombrement



* Quick Connection / Raccord rapide

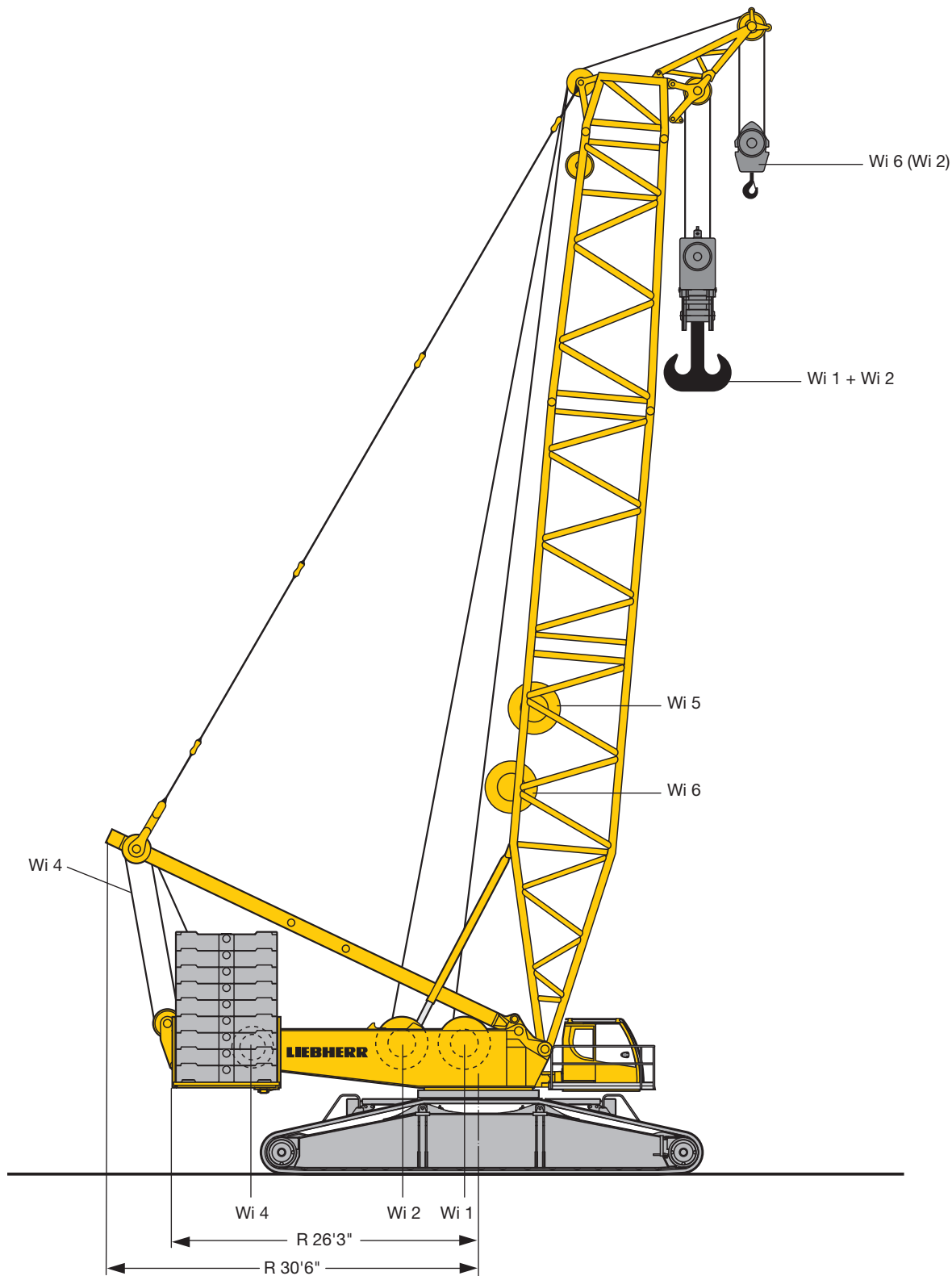
US2210

**Dimensions
Encombrement**



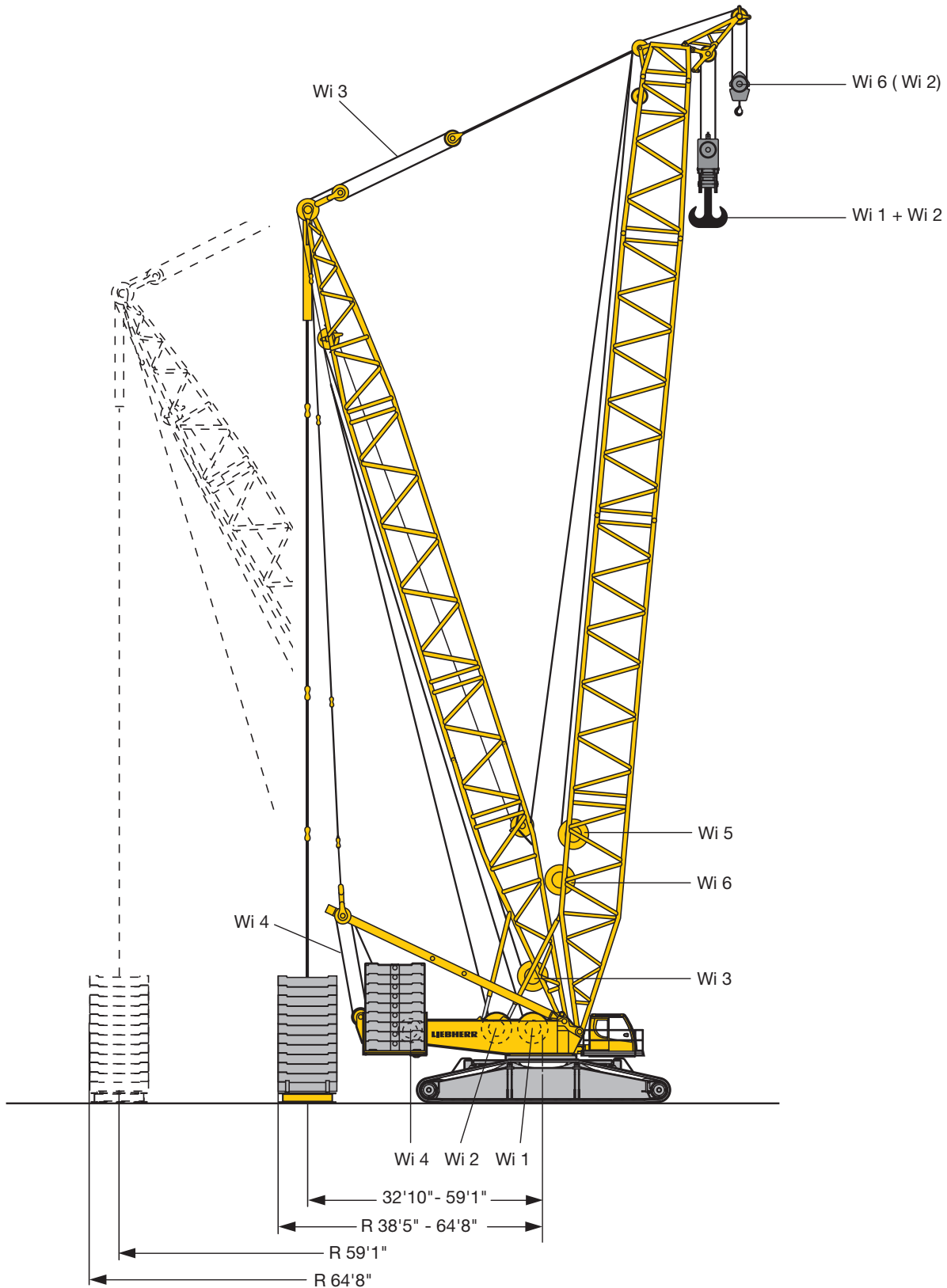
US2211

**Dimensions
Encombrement**



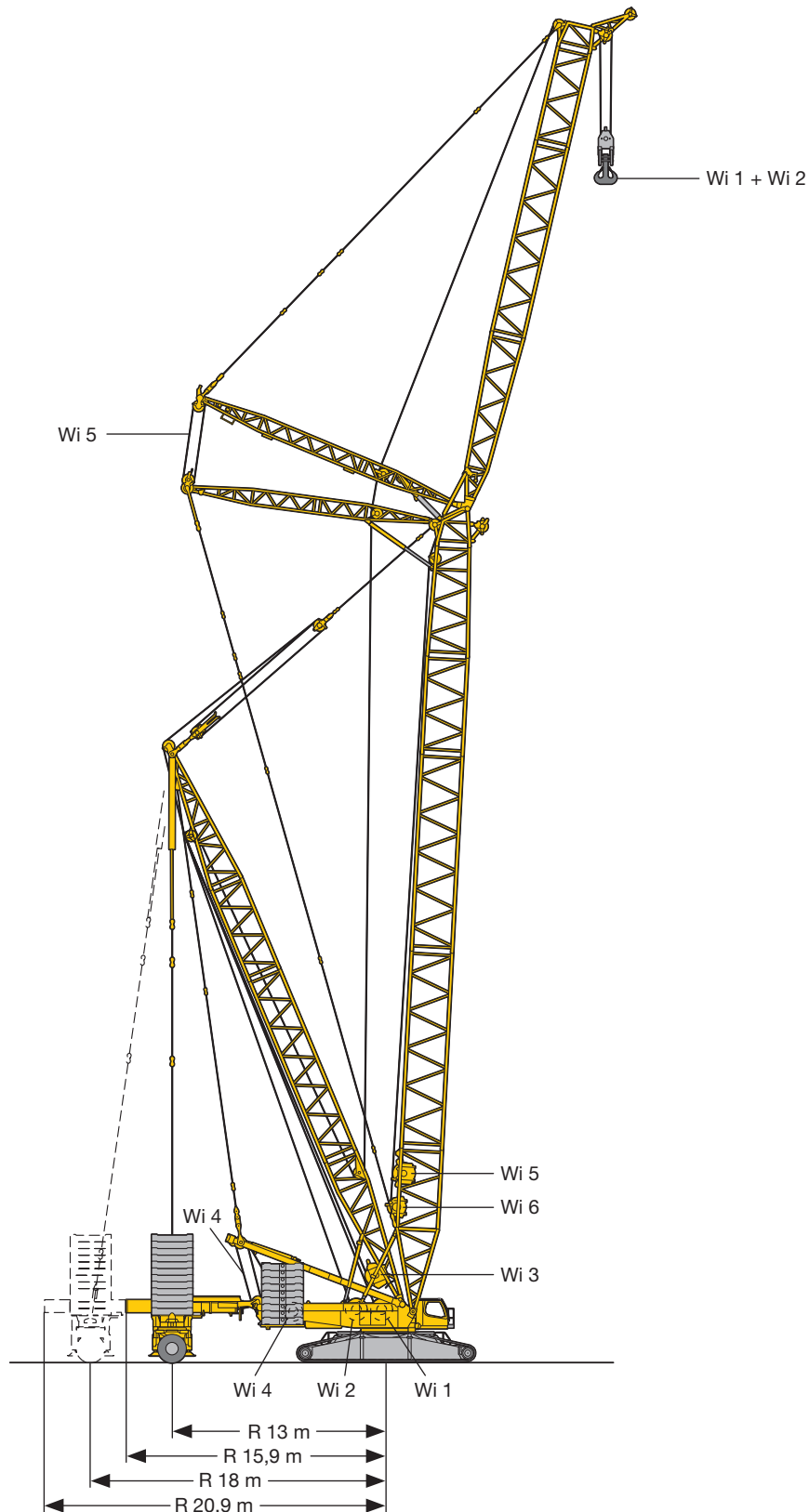
US2212

Dimensions Encombrement



US2213

Dimensions Encombrement



S2416.01

Winches Treuils

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" / 3445 ft
	0 – 436 ft/min	39700 lbs	1.1" / 3445 ft
	0 – 427 ft/min		
	0 – 2 x 256 ft/min		
	0 – 436 ft/min		
	0 – 449 ft/min	27560 lbs	0.98" / 2625 ft

Working speeds Vitesses

	Slewing speeds Vitesses d'orientation	0 - 0.95 rpm
	Travel speeds Vitesses de translation	0 - 0.85 mph

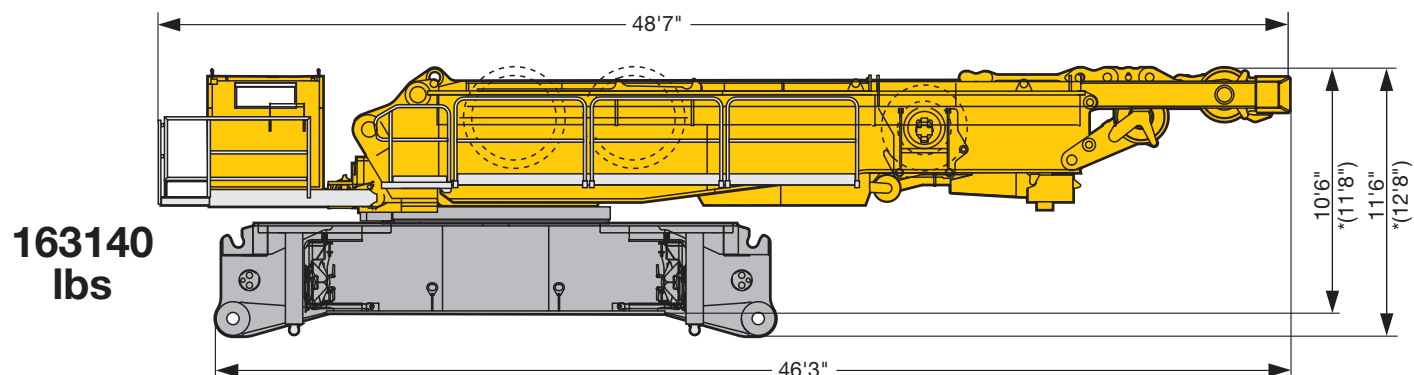
Hook blocks Moufles à crochet



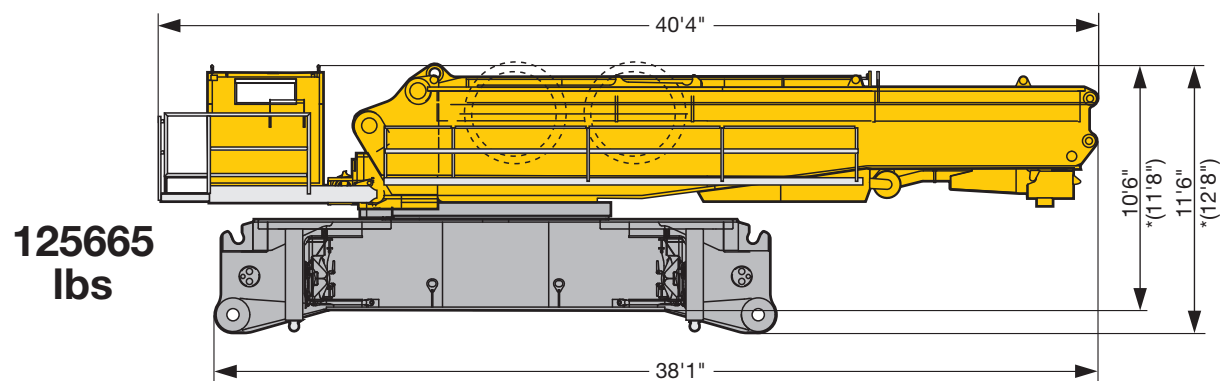
Load kips Forces de levage kips	Rope diameter Diamètre du câble	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
1320 / 660	1"	2 x 9	2 x 19	24250 – 35300 / 18750
790 / 395	1"	2 x 5	2 x 11	13300 – 24250 / 11025 – 15430
395	1"	5	11	4400 – 15430
265	1"	3	7	3300 – 12125
110	1"	1	3	2200 – 6600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

Transportation plan Plan de transport

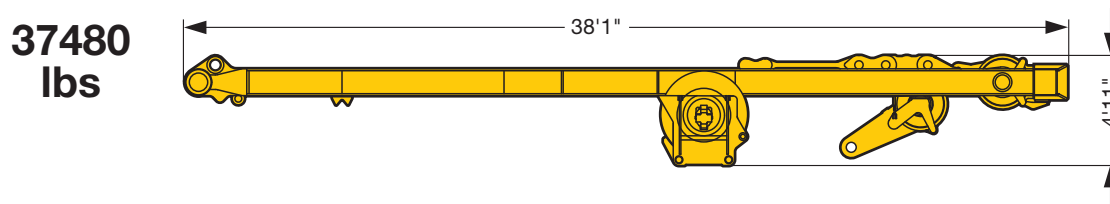
Superstructure and crawler center section with SA-frame, winch 4, with assembly jacks
Partie tournante et partie centrale du porteur avec chevalet SA, treuil 4, avec vérins de montage



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



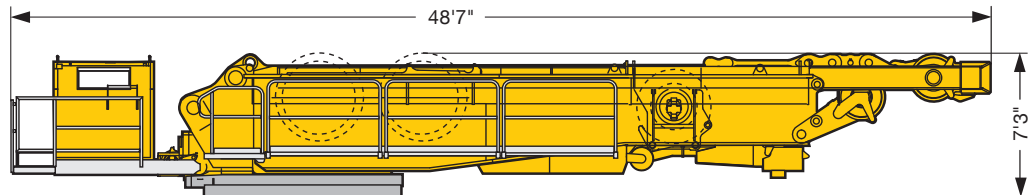
* Quick Connection / Raccord rapide

US2214

Transportation plan Plan de transport

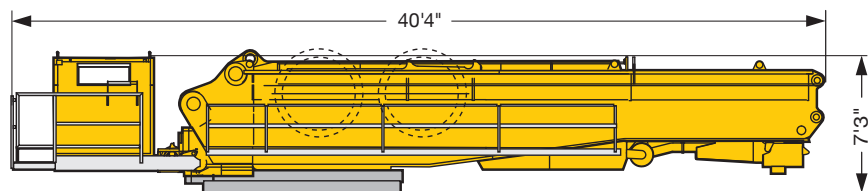
Superstructure with SA-frame, winch 4, quick connection
Partie tournante avec chevalet SA, treuil 4, quick connection

110250 lbs



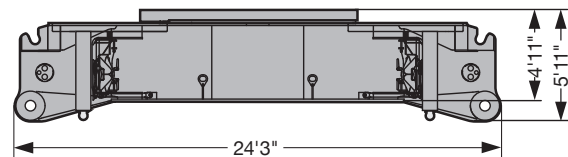
Superstructure with quick connection
Partie tournante avec quick connection

72750 lbs



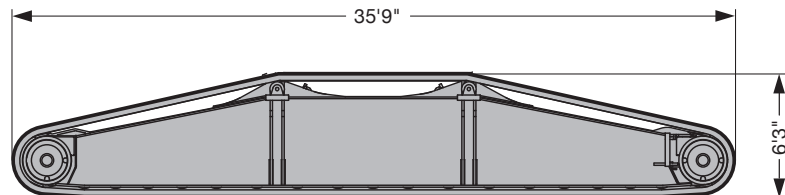
Crawler center section with assembly jacks, quick connection
Partie centrale du porteur avec vérins de montage, quick connection

59525 lbs



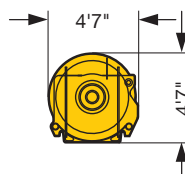
Crawler with track pads 4'11" (6'7")
Chenille avec pains de chenille de 4'11" (6'7")

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



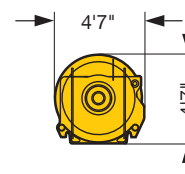
Winch 1 incl. rope
Treuil 1 incl. câble

16550 lbs



Winch 2 incl. rope
Treuil 2 incl. câble

16550 lbs



US2217

Boom/jib combinations Configurations de flèche

S Main boom, heavy
Flèche principale, lourde

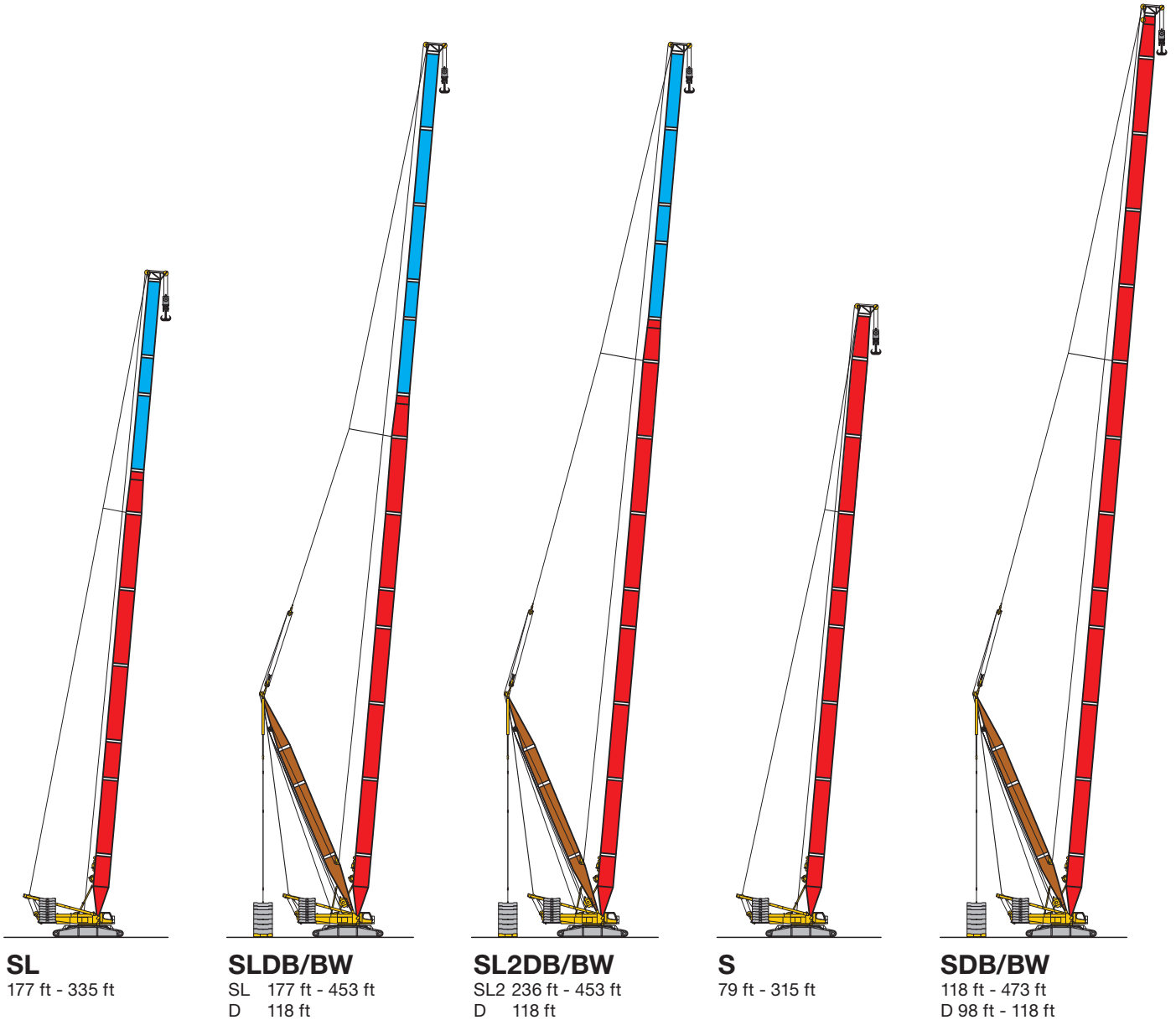
D Derrick
Flèche derrick

B Suspended ballast
Lest suspendu

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

W Luffing fly jib, heavy
Fléchette, lourde

BW Ballast trailer
Porteur de lest

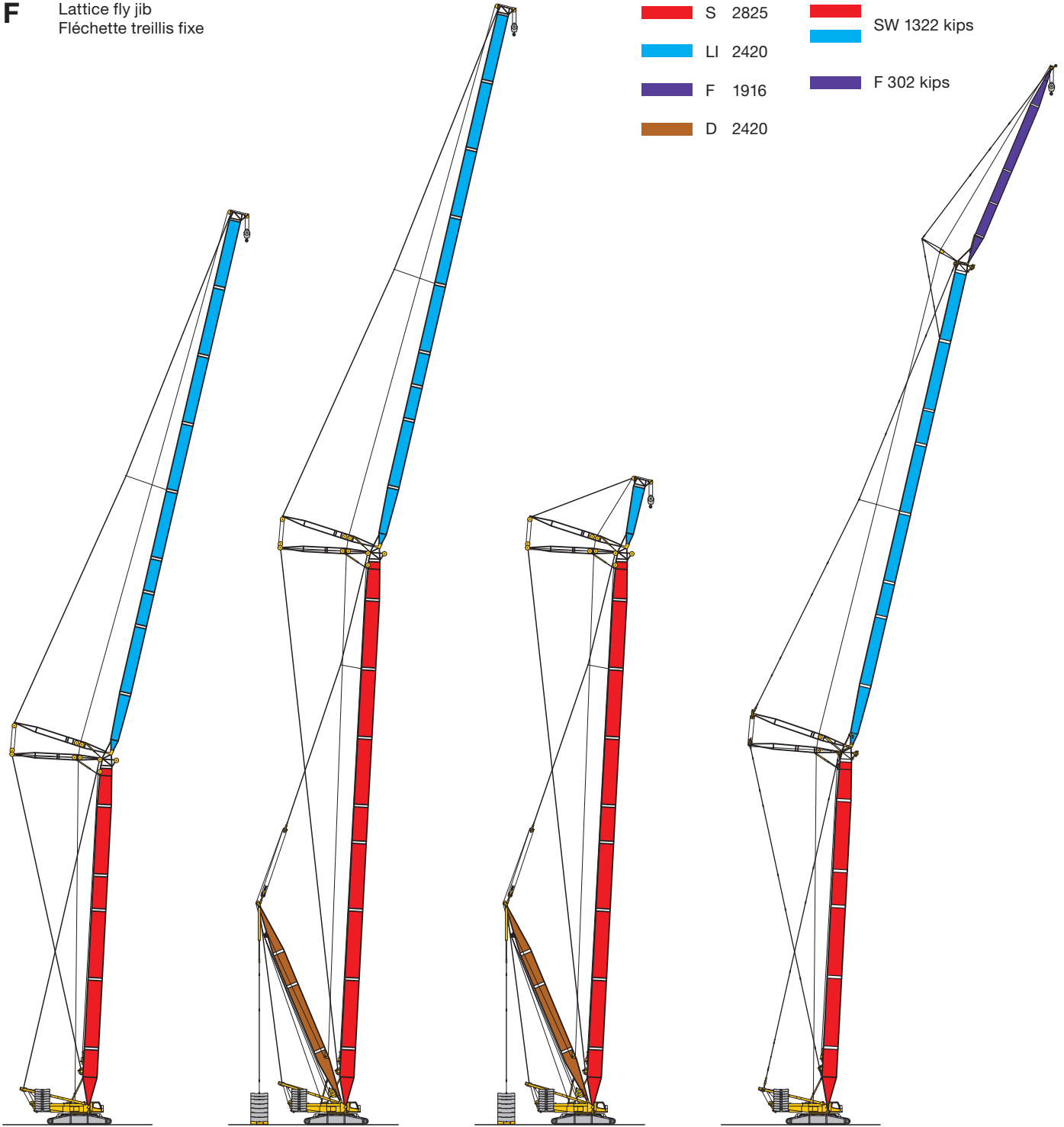


US2218.02

Boom/jib combinations Configurations de flèche

F Lattice fly jib
Fléchette treillis fixe

	S 2825		SW 1322 kips
	LI 2420		
	F 1916		F 302 kips
	D 2420		



SW

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

SDWB/BW

S 118 ft - 335 ft
W 79 ft - 315 ft
D 98 ft - 118 ft

SDWVB/BW

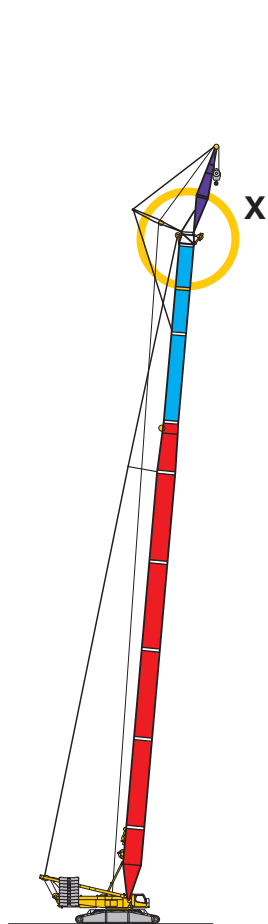
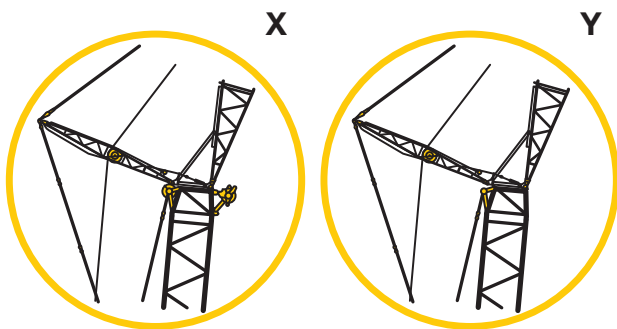
S 118 ft - 335 ft
WV 39 ft - 315 ft
D 98 ft - 118 ft

SWF

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

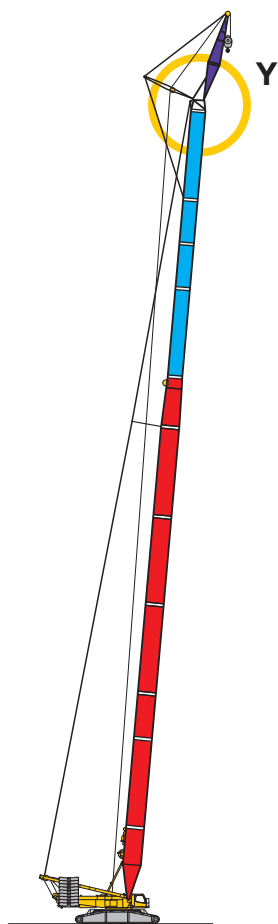
US2218.02

Boom/jib combinations Configurations de flèche



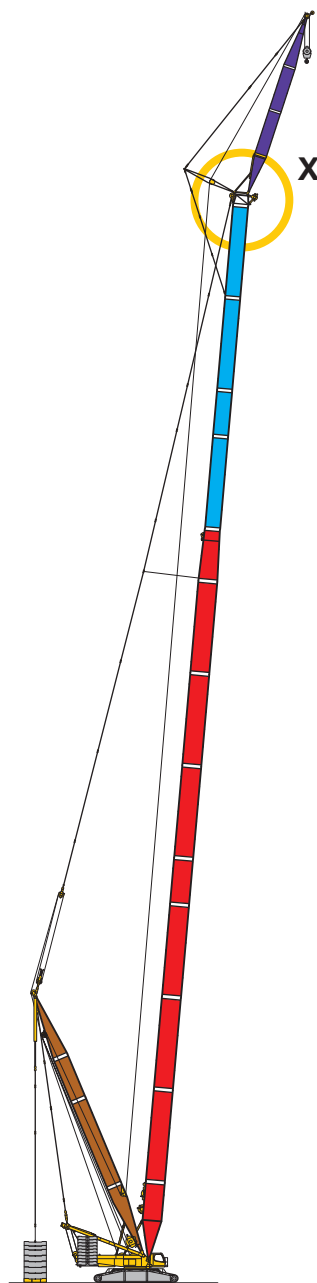
SLF

SL 177 ft - 295 ft
F 39 ft - 118 ft



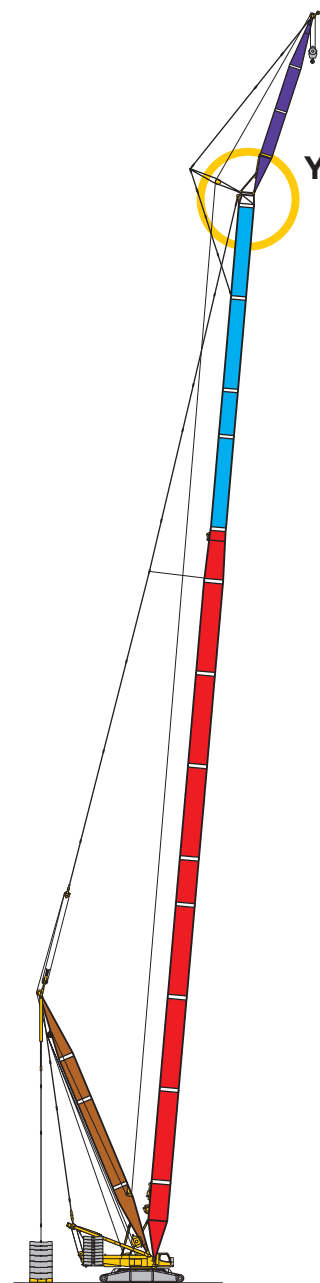
SL3F

SL3 236 ft - 354 ft
F 39 ft - 118 ft



SL2DFB/BW

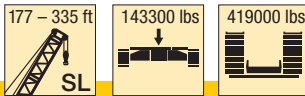
SL2 236 ft - 453 ft
D 118 ft
F 39 ft - 118 ft



SL4DFB/BW

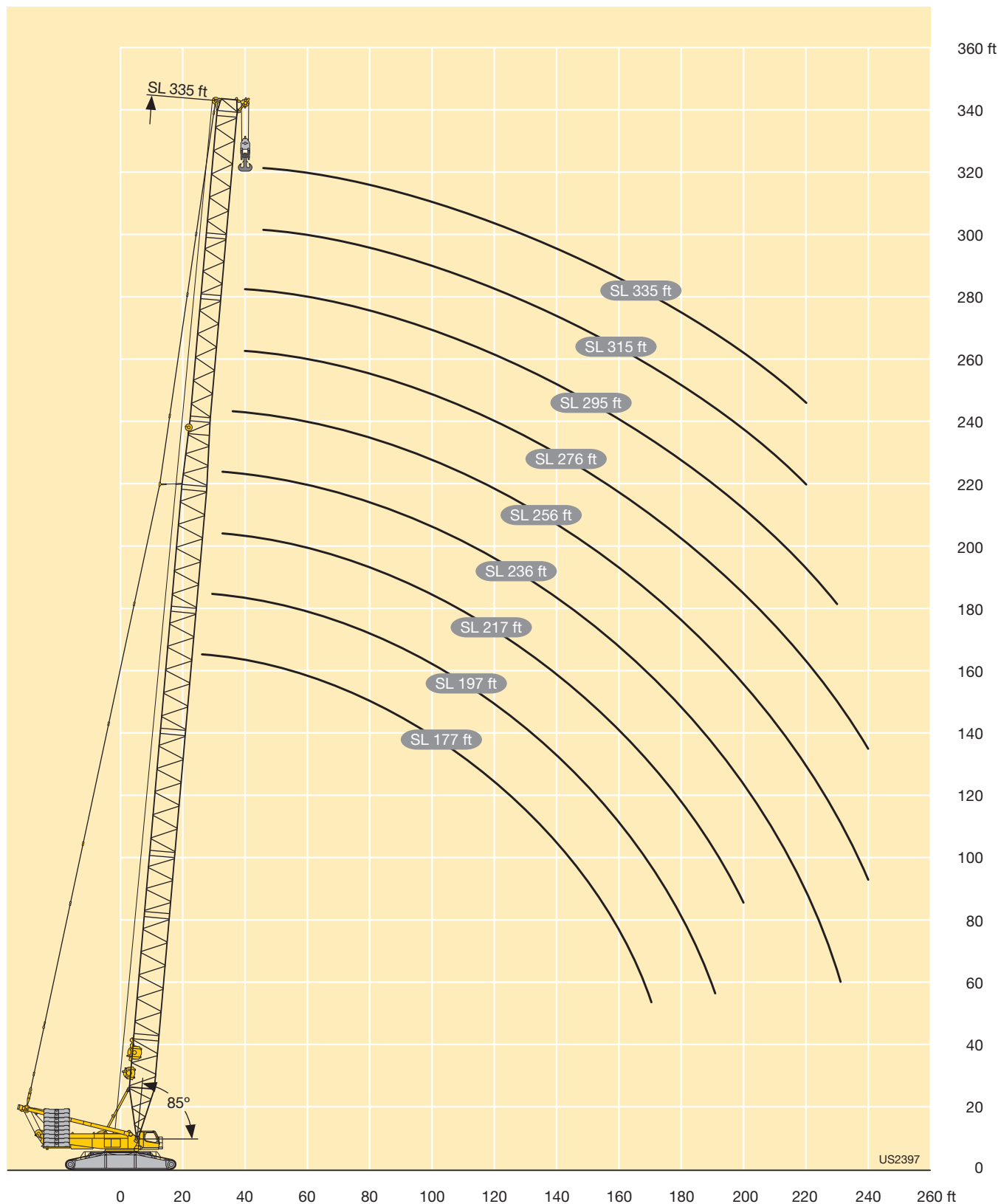
SL4 236 ft - 453 ft
D 118 ft
F 39 ft - 118 ft

US2218.02



 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



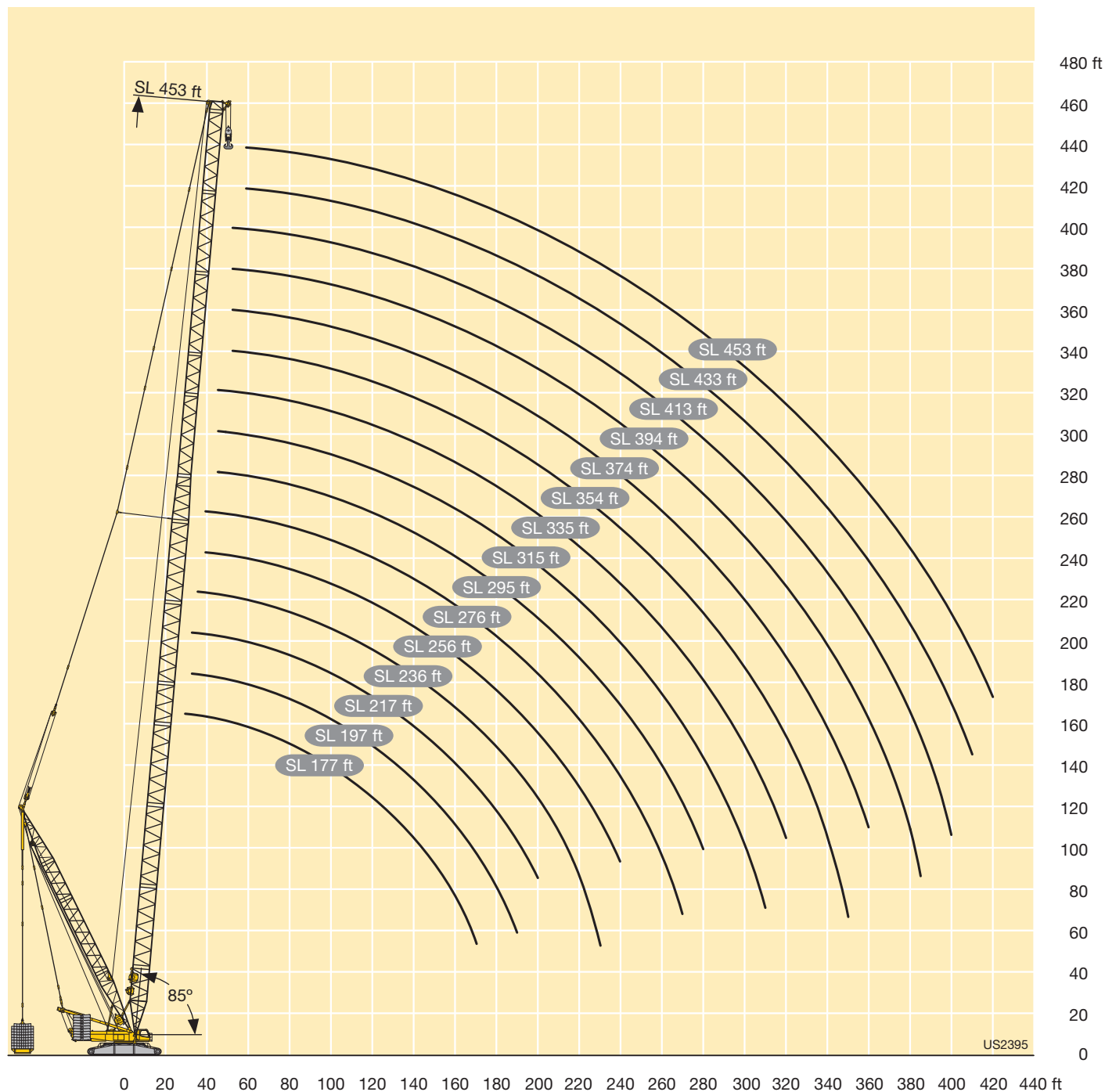


ft		SL 177 - 453														
		177	197	217	236	256	276	295	315	335	354	374	394	413	433	453
30	- B BW	669 679 674														
32	- B BW	654 680 676	618 673 630	659												
34	- B BW	624 679 678	596 675 670	667 661												
36	- B BW	583 680 680	558 677 672	532 669 663	510 647 640											
38	- B BW	549 682 682	527 677 674	504 671 665	483 646 642											
40	- B BW	518 684 683	497 677 676	477 672 667	457 646 644	443 597 594	425 561 559									
45	- B BW	452 687 688	435 683 681	418 676 673	402 647 648	391 598 597	376 562 562	353 519 517	340 477 475	330 413 417						
50	- B BW	400 693 695	386 684 686	372 681 679	358 649 652	348 597 601	335 559 565	323 518 520	311 476 477	303 407 411						
55	- B BW	357 698 701	345 691 691	332 679 685	320 646 657	313 597 604	301 560 569	290 516 522	280 470 477	273 400 404	265 331 329	248 339 337	240 295 290	227 256		
60	- B BW	321 695 706	310 695 696	299 682 689	288 641 662	282 597 608	272 561 572	262 517 524	253 466 475	247 394 396	240 324 320	224 337 335	217 295 289	211 254 250	202 216 210	185 187 182
65	- B BW	291 707 713	281 682 699	271 687 694	261 651 667	256 595 612	247 555 574	238 518 526	229 463 471	224 386 386	218 313 309	203 336 334	197 294 288	192 253 249	183 214 210	177 184 181
70	- B BW	264 712 720	257 688 700	248 674 688	239 654 672	234 597 616	226 557 576	218 509 520	210 456 467	205 377 376	200 304 297	186 334 333	180 282 287	175 251 248	167 213 209	163 182 181
75	- B BW	240 709 719	235 691 700	227 664 678	219 642 665	215 598 619	207 559 578	199 499 512	192 448 459	188 294 365	183 294 286	170 333 332	165 290 287	160 248 247	153 211 208	148 180 180
80	- B BW	218 696 706	216 687 698	208 657 665	201 624 649	197 593 616	190 558 579	183 491 503	176 439 448	172 358 355	168 285 275	155 331 331	151 288 288	147 246 247	139 208 208	136 178 179
85	- B BW	199 667 677	197 678 690	192 644 652	185 616 631	182 571 601	175 553 576	168 484 494	162 431 437	158 349 344	154 276 264	142 328 331	138 286 286	134 244 246	128 206 208	124 176 177
90	- B BW	182 638 647	181 646 658	178 629 637	171 600 612	169 561 585	162 541 562	156 475 486	149 423 426	146 339 333	143 266 253	131 327 330	127 283 285	124 241 245	117 205 208	114 175 176
95	- B BW	168 609 618	167 613 623	164 605 613	159 584 594	156 548 570	144 528 547	138 465 479	133 413 417	135 330 323	132 257 241	121 325 330	117 280 284	114 239 243	107 203 206	104 174 175
100	- B BW	155 581 589	154 580 589	152 577 585	147 565 574	145 533 554	139 514 533	134 456 472	128 405 410	125 321 314	122 248 231	111 323 329	107 278 283	104 237 241	98 201 204	95 172 173
105	- B BW	144 555 563	142 547 555	140 549 556	137 541 549	135 518 539	129 501 518	124 451 465	118 403 403	116 313 309	113 238 220	102 321 329	99 276 282	96 236 240	90 199 202	87 170 171
110	- B BW	134 529 536	132 523 530	130 520 527	128 517 525	126 500 518	120 487 503	115 442 458	110 398 396	107 311 304	104 234 217	94 317 328	91 275 281	88 234 238	83 197 200	80 167 169
115	- B BW	125 503 509	123 500 507	121 494 500	119 493 500	118 482 497	112 472 486	107 434 451	102 393 390	100 307 300	97 230 214	87 312 325	84 272 279	81 232 236	76 195 197	73 165 166
120	- B BW	117 479 484	115 478 485	113 471 477	111 468 475	110 463 476	105 455 469	100 425 442	94 387 383	92 303 296	90 226 211	80 306 322	77 267 276	75 229 233	69 192 195	67 163 164
125	- B BW	109 458 464	108 457 463	105 453 458	103 445 451	103 444 455	98 438 450	93 413 430	88 382 377	86 298 291	83 223 208	74 301 319	71 261 272	69 224 230	63 190 192	61 160 162
130	- B BW	103 440 446	101 435 441	98 434 440	96 427 434	96 425 434	91 421 432	86 401 416	81 373 367	80 294 287	77 219 205	68 296 316	65 259 268	63 222 226	58 186 189	56 158 159
135	- B BW	97 422 428	95 418 424	92 416 422	90 411 418	90 409 416	85 405 413	81 389 402	76 361 356	74 287 280	72 214 202	63 291 313	60 255 265	58 218 222	53 183 186	51 155 156
140	- B BW	91 405 410	89 402 408	86 398 403	84 396 402	85 394 400	80 388 395	75 376 388	70 347 345	69 279 273	66 208 198	58 287 310	55 250 261	53 215 219	47.9 180 182	45.9 152 153
150	- B BW	81 366 376	79 372 378	76 367 373	74 365 370	74 365 371	70 359 365	65 352 360	61 321 321	59 262 256	57 193 187	48.4 278 302	46 241 254	44 207 212	39.1 175 176	37.2 146 147

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		177 – 453 ft	118 ft	143300 lbs	331000 lbs	550000 – 770000 lbs		330000 – 550000 lbs		0 – 330000 lbs		0 lbs				
		SL	D			B	BW	SL 177 – 453								
ft		177	197	217	236	256	276	295	315	335	354	374	394	413	433	453
160	- B BW	72 324 343	70 343 350	67 342 347	64 336 342	65 339 344	61 335 341	56 329 335	52 295 298	50 244 239	48.3 177 173	40.1 268 292	37.8 233 246	36 200 204	31.1 171 169	29.4 140 141
170	- B BW	65 284 306	62 312 325	59 318 323	56 315 320	56 312 317	53 312 317	48.7 308 313	44.2 273 277	42.8 226 221	40.7 162 159	32.8 256 279	30.6 224 240	28.8 192 198	24.1 167 163	22.4 133 135
180	- B BW		55 281 302	52 294 302	48.7 294 299	49.1 294 298	46.1 289 294	42 287 292	37.5 255 259	36.2 211 207	34.1 149 144	26.4 244 267	24.3 216 234	22.6 184 192	17.9 158 157	16.3 128 130
190	- B BW		49.4 238 263	45.4 270 282	42.4 274 280	42.7 276 280	39.7 270 276	35.9 266 271	31.4 237 242	30.1 197 195	28.1 138 133	20.6 232 255	18.6 211 228	16.9 178 186	148 152	123 125
200	- B BW			40 244 262	36.8 255 262	36.9 257 262	33.9 252 260	30.4 246 251	25.9 220 224	24.7 184 183	22.7 127 125		221 205 221	173 173 181	144 144 147	119 119 121
210	- B BW				31.8 236 247	31.8 239 245	28.7 234 244	25.4 227 234	20.9 203 208	19.7 171 171	17.7 118 116		210 198 229	198 175	168 142	140 117
220	- B BW				27.7 214 230	27.4 218 229	24.2 217 228	21.1 209 216	16.6 188 195	15.3 158 159	13.3 108 107		200 189 215	189 203	161 170	135 137
230	- B BW				24.1 178 197	23.4 198 213	20.2 197 211	17 190 199	175 175 182	147 147 148	99 99 99		189 180 194	180 155 166	128 133	107 109
240	- B BW					19.9 175 194	16.5 178 194	173 173 182	164 169	136 137	91 91		179 171 184	151 162	125 129	103 106
250	- B BW						161 177	156 166	153 157	125 126	84 84		169 178	162 175	147 158	99 103
260	- B BW						146 156	142 151	140 144	114 116	76 77		160 168	154 166	143 154	96 100
270	- B BW						122 129	130 136	128 132	105 106	69 69		152 159	146 157	138 149	93 97
280	- B BW							116 121	116 120	96 97	62 62		143 150	139 149	133 143	91 94
290	- B BW								103 107	88 89	56 56		135 141	132 141	126 136	88 91
300	- B BW								94 96	79 80	49.7 49.1		127 133	124 132	120 129	86 89
310	- B BW								76 77	71 72	43.6 42.6		120 126	117 125	113 122	84 87
320	- B BW									62 62	37.6 36.1		113 120	110 118	107 116	83 86
330	- B BW										31.6 29.5		105 113	104 112	101 109	81 84
340	- B BW										25.4 23		98 107	98 106	95 104	80 82
350	- B BW										17.4		90 101	92 100	90 99	79 81
360	- B BW												66 87	85 95	84 93	76 79
370	- B BW													79 89	78 88	72 76
380	- B BW													72 83	73 83	68 73
390	- B BW													29.3	67 78	63 70
400	- B BW														24	59 68
410	- B BW															53 64
420	- B RW															45.4 61

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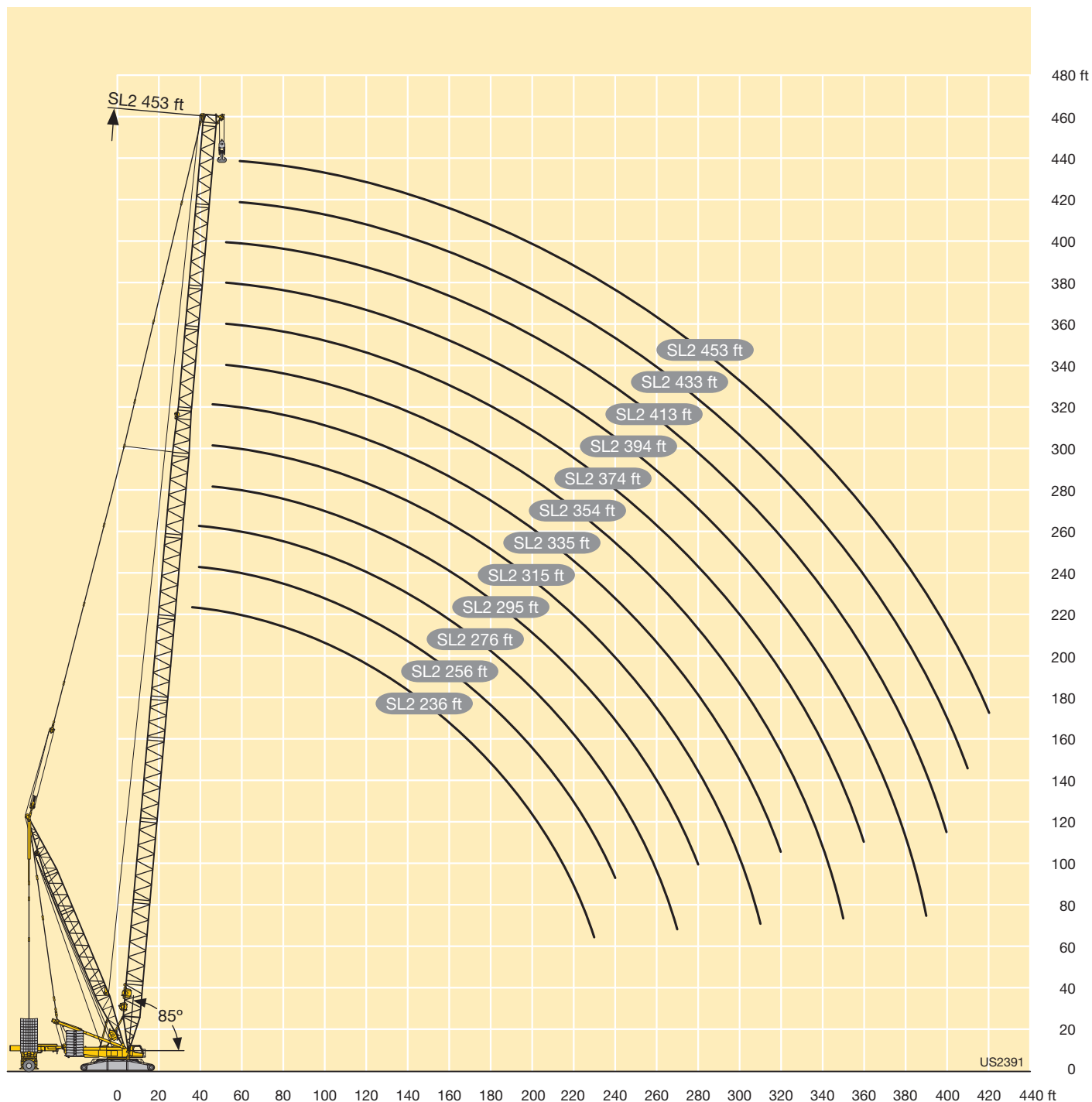
		236 - 453 ft	118 ft	143300 lbs	331000 lbs	550000 - 770000 lbs		330000 - 550000 lbs		0 - 330000 lbs		0 lbs	
		SL	D			B	BW						
ft		SL2 236 - 453											
		236	256	276	295	315	335	354	374	394	413	433	453
36	- B	509											
	- BW	648											
		642											
38	- B	483											
	- BW	651											
		645											
40	- B	457	439	421									
	- BW	651	621	587									
		647	621	587									
45	- B	402	387	372	343	329	318						
	- BW	651	623	588	551	510	470						
		652	625	590	537	507	465						
50	- B	357	344	332	314	301	291						
	- BW	654	624	585	549	508	469						
		657	628	594	533	508	464						
55	- B	320	308	297	281	270	261	252	245	236	223		
	- BW	649	626	585	545	502	465	412	359	320	276		
		662	632	597	528	506	462	417	365	319			
60	- B	288	278	268	253	243	235	227	221	213	207	201	195
	- BW	644	624	586	540	498	460	408	358	319	276	240	212
		668	636	600	524	504	460	418	365	319	280	240	206
65	- B	261	252	243	230	220	213	206	200	193	188	182	177
	- BW	656	623	581	534	494	456	405	356	317	275	239	211
		673	641	603	519	502	458	417	364	318	280	239	205
70	- B	238	230	222	209	201	194	188	182	176	171	166	162
	- BW	660	625	584	518	488	451	404	354	315	274	238	210
		678	645	607	512	500	455	416	363	317	279	237	203
75	- B	218	210	203	191	183	177	171	166	161	156	151	147
	- BW	648	626	586	498	479	442	402	352	313	273	236	209
		671	649	610	506	497	452	416	361	316	278	235	202
80	- B	200	193	186	175	167	162	156	152	147	143	138	135
	- BW	629	620	585	489	471	435	398	351	311	272	236	208
		653	645	611	500	493	448	415	360	314	277	233	201
85	- B	184	178	171	161	153	148	143	139	134	130	126	123
	- BW	619	600	581	482	467	428	392	347	310	271	235	206
		634	623	607	493	489	445	413	359	313	277	231	200
90	- B	171	164	158	148	141	136	131	128	123	120	116	113
	- BW	602	580	563	470	463	423	390	345	308	269	234	205
		614	602	587	485	486	441	411	357	312	276	230	199
95	- B	158	152	146	137	130	125	121	117	113	110	106	103
	- BW	585	559	544	454	454	419	388	343	306	267	233	203
		595	580	566	477	479	437	408	355	310	275	228	198
100	- B	147	141	135	126	120	115	111	108	103	100	97	94
	- BW	565	539	526	441	442	413	386	341	304	266	231	201
		573	558	545	469	471	433	406	353	308	274	227	197
105	- B	136	131	125	117	110	106	102	99	95	92	89	86
	- BW	541	518	507	430	428	402	383	339	303	265	230	200
		549	537	524	460	461	426	403	352	306	273	226	196
110	- B	127	122	116	108	102	97	94	91	87	84	81	79
	- BW	516	499	488	421	419	391	375	335	301	264	229	199
		524	516	503	451	451	420	398	350	305	272	225	196
115	- B	118	113	108	100	94	90	86	84	80	77	74	72
	- BW	492	480	470	414	413	385	367	330	297	263	228	198
		499	494	484	443	442	414	392	348	304	270	225	195
120	- B	110	106	100	93	87	83	79	77	73	71	68	66
	- BW	468	461	453	406	405	379	359	325	293	261	227	197
		475	473	465	433	432	407	386	346	303	269	224	195
125	- B	102	98	93	86	80	76	73	70	67	65	62	60
	- BW	444	441	436	397	397	372	351	319	290	258	226	196
		450	452	447	421	422	401	381	345	303	267	223	194
130	- B	95	92	87	80	74	70	67	64	61	59	56	54
	- BW	427	422	419	386	387	366	343	313	286	253	223	194
		433	430	428	408	410	394	375	343	303	265	222	193
135	- B	89	86	81	74	69	65	61	59	56	54	51	49.4
	- BW	411	406	402	376	376	357	335	308	282	250	221	192
		417	413	410	394	396	384	369	341	303	263	222	192
140	- B	84	80	76	69	63	59	56	54	51	48.8	46.3	44.6
	- BW	395	390	385	366	364	349	326	302	278	247	219	190
		401	397	391	381	382	374	362	340	303	261	221	191
150	- B	73	70	65	59	54	49.9	46.8	44.8	41.6	39.8	37.4	35.8
	- BW	364	362	356	345	341	330	310	290	270	241	214	185
		370	367	362	354	354	350	344	331	302	256	220	188
160	- B	63	61	57	50	44.9	41.4	38.4	36.5	33.4	31.7	29.4	27.9
	- BW	336	335	332	324	318	310	294	277	262	235	209	180
		341	340	337	330	326	324	321	316	298	252	219	185
170	- B	55	52	48.8	42.7	37.4	33.9	31	29.1	26.2	24.5	22.4	20.9
	- BW	315	308	308	304	297	291	278	263	251	227	204	177
		320	313	313	309	302	299	298	295	282	246	218	182
180	- B	48	45.1	42	36.1	30.8	27.4	24.5	22.7	19.8	18.2	16.2	14.8
	- BW	294	290	286	283	278	273	263	249	241	218	197	172
		298	295	290	288	283	279	275	275	266	238	215	179

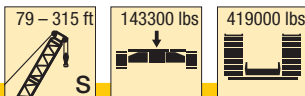
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		 236 – 453 ft	 118 ft	 143300 lbs	 331000 lbs	  550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs							
 ft	SL2 236 – 453												
	236	256	276	295	315	335	354	374	394	413	433	453	
190	- B BW	41.7 273 279	38.7 272 276	35.8 267 272	30.2 263 268	24.8 260 265	21.5 257 262	18.6 248 257	16.9 236 256	231 231 250	208 231	190 211	166 175
200	- B BW	36.1 254 262	32.9 254 258	30.1 252 256	24.8 246 250	19.4 242 247	16.1 240 245	234 242	224 239	220 235	199 223	183 207	163 172
210	- B BW	31.1 235 246	27.8 235 241	24.9 236 240	19.9 232 236	225 225 230	224 228	221 227	212 225	210 221	189 216	175 203	159 168
220	- B BW	26.9 213 229	23.4 216 227	20.4 219 224	15.7 218 222	213 217	210 213	207 213	201 212	199 208	181 206	168 199	155 164
230	- B BW	23.4 176 197	19.4 197 212	16.3 199 209	204 204 208	201 201 205	197 197 201	194 199	190 198	188 196	172 194	161 191	150 160
240	- B BW		15.9 173 194	178 193	192 196	189 193	186 190	183 187	179 185	177 184	164 183	154 180	145 156
250	- B BW			157 177	180 186	177 180	175 179	173 177	168 174	166 171	156 172	147 170	140 150
260	- B BW			142 155	169 176	167 171	164 168	163 167	160 165	157 161	147 160	140 159	135 145
270	- B BW			117 126	157 166	157 162	154 159	152 156	151 155	149 152	140 150	133 149	130 139
280	- B BW				139 152	147 153	145 150	143 147	142 146	140 144	133 142	126 140	125 134
290	- B BW					136 144	137 142	134 139	133 137	132 136	126 134	120 132	120 128
300	- B BW					122 134	128 134	126 132	125 129	124 127	119 127	114 125	114 122
310	- B BW					81 101	118 126	119 124	118 122	117 120	112 119	108 118	109 116
320	- B BW						101 114	111 117	110 116	110 113	105 112	102 111	103 110
330	- B BW							102 110	103 109	104 107	99 105	96 104	98 103
340	- B BW							92 103	96 103	99 101	93 99	90 97	92 97
350	- B BW							50 70	86 97	93 96	87 94	85 92	87 91
360	- B BW								62 84	84 90	81 89	79 87	82 85
370	- B BW									71 85	76 83	74 82	77 80
380	- B BW									58 81	70 78	69 77	72 76
390	- B BW									29.4 31.7	64 74	64 72	68 71
400	- B BW										41.5 61	50 68	63 66
410	- B BW											42.3 63	55 62
420	- B BW												38.4 58

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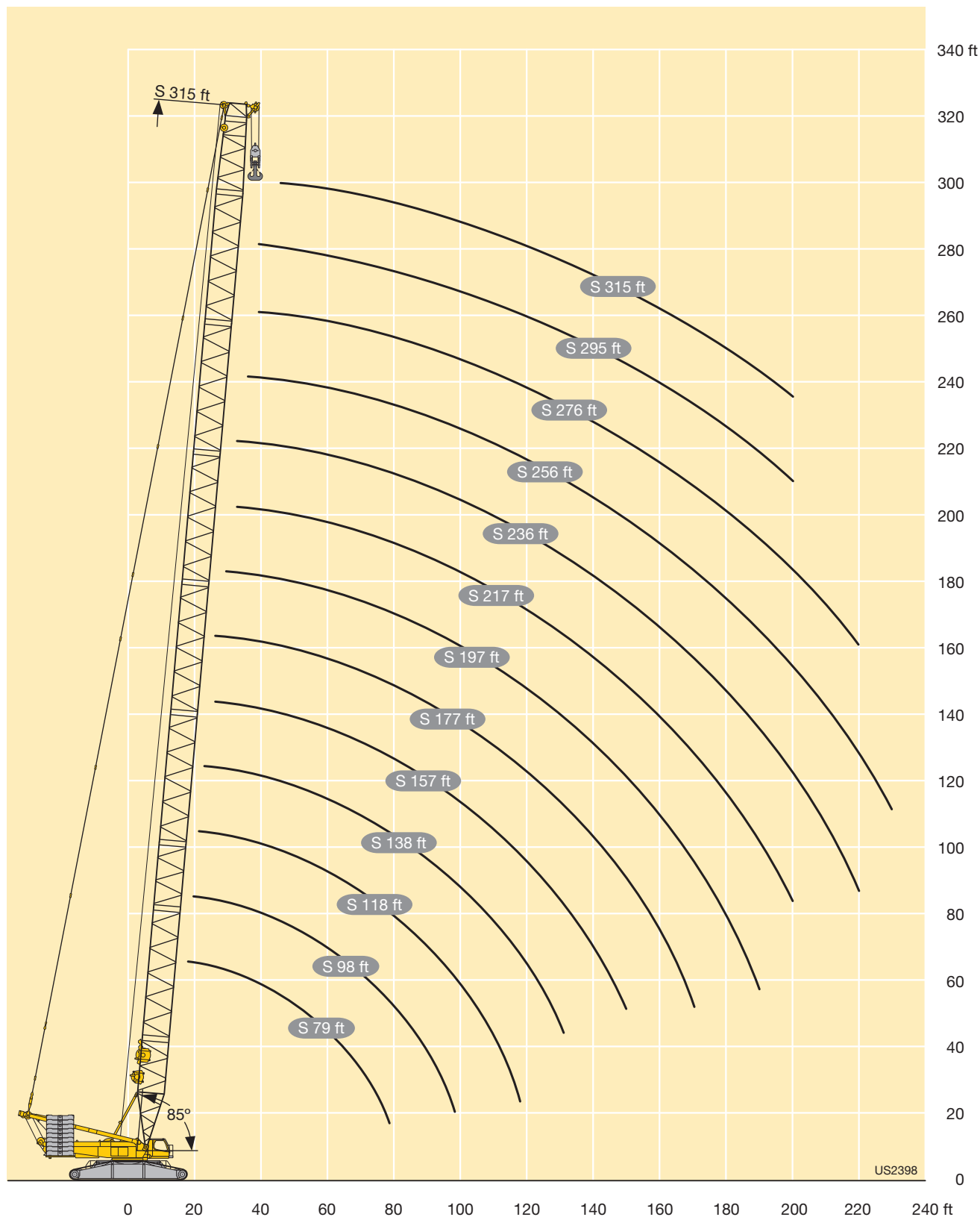
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ft	S 79	S 98	S 118	S 138	S 157	S 177	S 197	S 217	S 236	S 256	S 276	S 295	S 315	ft
18	1323													18
19	1286													19
20	1243	1235												20
21	1194	1183	1150											21
22	1147	1134	1121											22
23	1100	1086	1078	1058										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

TAB 181009





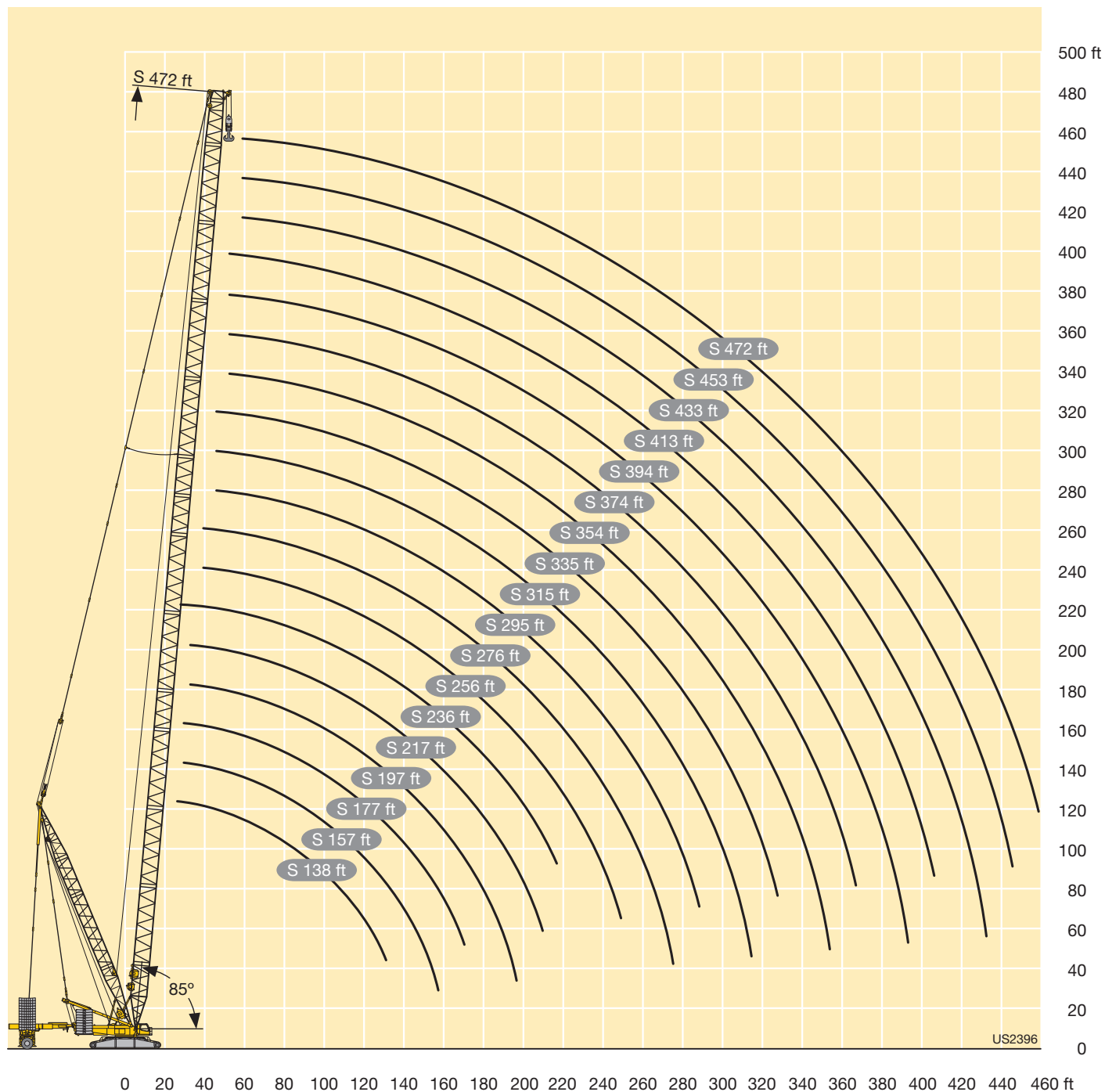
ft		S 118 - 472																		
		118	138	157	177	197	217	236	256	276	295	315	335	354	374	394	413	433	453	472
23	- B BW	1096																		
24	- B BW	1323																		
26	- B BW	1323																		
28	- B BW	1323	926																	
30	- B BW	1323	1323																	
32	- B BW	1323	1323	1323																
34	- B BW	1323	1323	1323	1323															
36	- B BW	1323	1323	1323	1323	1323														
38	- B BW	1323	1323	1323	1323	1323	1323													
40	- B BW	1323	1323	1323	1323	1323	1323	1323												
45	- B BW	1323	1323	1323	1323	1323	1323	1323	1323											
50	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323										
55	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323									
60	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323								
65	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323							
70	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323						
75	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323					
80	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323				
85	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323			
90	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323		
95	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	
100	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
105	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
110	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
115	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
120	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
125	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
130	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
135	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
140	- B BW	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323

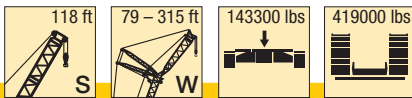
TAB 181082 / 181096

118 - 472 ft	98 - 118 ft	143300 lbs	331000 lbs	550000 - 770000 lbs 330000 - 550000 lbs 0 - 330000 lbs 0 lbs
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ft		S 118 – 472																		
		118	138	157	177	197	217	236	256	276	295	315	335	354	374	394	413	433	453	472
150	- B BW			74 311 330	68 351 362	65 358 364	63 355 360	61 353 359	60 353 359	54 347 352	49.5 344 350	46 338 348	42 324 343	39.4 307 338	35.8 285 325	31.6 255 275	28.4 239 260	23.2 212 231	21.3 191 201	166 174
160	- B BW				59 308 328	56 329 336	54 330 335	52 324 330	51 326 332	45.4 323 328	40.8 316 322	37.4 313 320	33.5 304 317	31 291 315	27.5 271 309	23.4 246 265	20.3 231 254	207 230	186 197	164 174
170	- B BW				52 270 290	48.6 298 311	46.1 305 310	43.9 304 309	43.2 300 305	37.8 299 304	33.2 296 301	29.9 291 296	26 284 292	23.6 275 292	20.1 258 288	16.2 236 255	13.1 223 247	202 230	182 194	161 173
180	- B BW					42.6 266 287	39.5 281 290	36.9 283 287	36.5 281 286	31.2 276 281	26.6 275 280	23.3 272 277	19.4 267 272	17.1 259 269	13.7 244 267	226 245	213 237	194 222	176 189	158 173
190	- B BW					37.8 227 248	33.7 256 271	30.8 262 268	30.2 264 268	25.3 258 262	20.7 255 260	17.4 254 258	250 250 255	244 241 251	231 248	216 234	203 227	186 214	170 186	154 171
200	- B BW						28.8 230 250	25.4 242 251	24.6 246 250	20 242 247	237 236 240	236 238	234 230	230 236	218 231	206 224	193 217	177 205	163 182	148 168
210	- B BW							20.6 223 236	19.6 228 234	227 224 231	224 228	219 223	217 221	215 222	206 217	197 213	183 208	169 197	156 178	142 165
220	- B BW							16.8 201 218	15.3 213 221	211 216	210 214	206 210	203 206	201 207	195 203	187 200	175 196	161 188	149 174	136 162
230	- B BW							167 188	197 208	197 204	196 200	194 198	190 194	188 193	183 190	177 188	166 185	153 178	142 169	130 159
240	- B BW								178 193	183 193	183 188	182 186	179 183	176 181	172 177	167 175	157 173	145 167	136 162	123 154
250	- B BW									169 181	172 178	170 174	168 172	166 170	161 166	157 163	149 162	138 157	129 153	117 148
260	- B BW									151 166	160 168	160 165	157 161	156 160	152 156	148 152	140 150	130 146	123 143	112 139
270	- B BW									124 141	147 157	151 156	147 151	146 150	143 147	139 143	132 140	123 136	117 134	106 130
280	- B BW										131 144	141 146	138 143	137 140	134 138	131 135	125 131	116 126	110 125	100 121
290	- B BW											131 137	130 135	128 132	125 129	123 127	118 124	109 118	104 116	95 113
300	- B BW											116 128	121 127	120 125	117 121	115 119	111 116	103 111	98 109	89 104
310	- B BW											92 108	111 119	113 118	110 114	107 111	104 109	97 104	92 102	84 97
320	- B BW												97 109	105 111	103 108	100 104	97 101	91 97	87 96	79 90
330	- B BW													95 103	96 101	94 98	90 94	84 90	81 89	74 84
340	- B BW													84 95	89 95	87 92	84 89	78 83	76 83	69 78
350	- B BW													63 77	80 89	81 86	78 83	73 78	70 76	64 72
360	- B BW														68 79	74 80	72 78	67 73	65 71	59 66
370	- B BW															66 74	66 72	62 68	60 66	54 61
380	- B BW															56 68	60 67	57 63	55 61	49.6 56
390	- B BW															39.9 52	53 63	51 58	50 57	45.7 52
400	- B BW																42.6 54	46.1 54	45.7 52	41.9 48.1
410	- B BW																	40.3 49	41.1 47.4	38.1 44.2
420	- B BW																	27.8 43.5	36.6 43.6	34.3 40.2
430	- B BW																	21.8 31.4	32.4 40.4	30.5 36.6
440	- B BW																		23.7 33	27 33.6

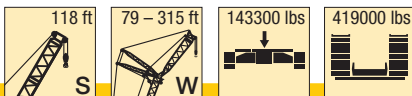
TAB 181082 / 181096





 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	79		90	78	100	87		99	84		96	80		150
160								71	71		81	70	90	78	66	90	76		88	72		160
170								64	64		74	63	82	71	59	82	70	56	80	65	51	170
180												57		65	54	75	64	51	73	60	46.6	180
190															48.2		58	46.3	67	55	42	190
200															43.3		53	41.9	61	49.9	37.8	200
210																		37.6		45.4	34	210
220																		33.8		41.2	30.7	220
230																				27.5		230
240																				24.5		240

TAB 181047 / 181054 / 181061



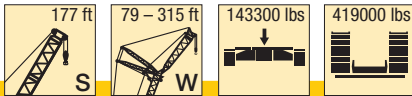
 ft	S 118																 ft
	W 217			W 236			W 256			W 276			W 295		W 315		
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	87°	77°	
80	200			195													80
85	187			182			175										85
90	175			171			165										90
95	165			160			155			149			143				95
100	155			151			146			140			137		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		98	76		94			89			87		83		140
150	92	75		89	72		85			80			79		74		150
160	84	68		81	65		77	61		72	56		71		67		160
170	77	61		74	58		70	55		65	50		64	48.1	60	43.7	170
180	70	56		67	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		17.9		24.3	13.5		22.3	11.7	18.5		270
280								15.9		22.1	11.3		19.8		16		280
290													17.5		13.7		290
300													15.5		11.5		300

TAB 181047 / 181054 / 181061

 138 ft		 79 - 315 ft		 143300 lbs		 419000 lbs		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		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												52		62	46.4		74	59	43.2	72	54		180							
190												46.7		56	41.9			54	38.9	66	49.5	34.6	190							
200															37.9			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								

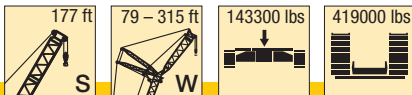
TAB 181047 / 181054 / 181060

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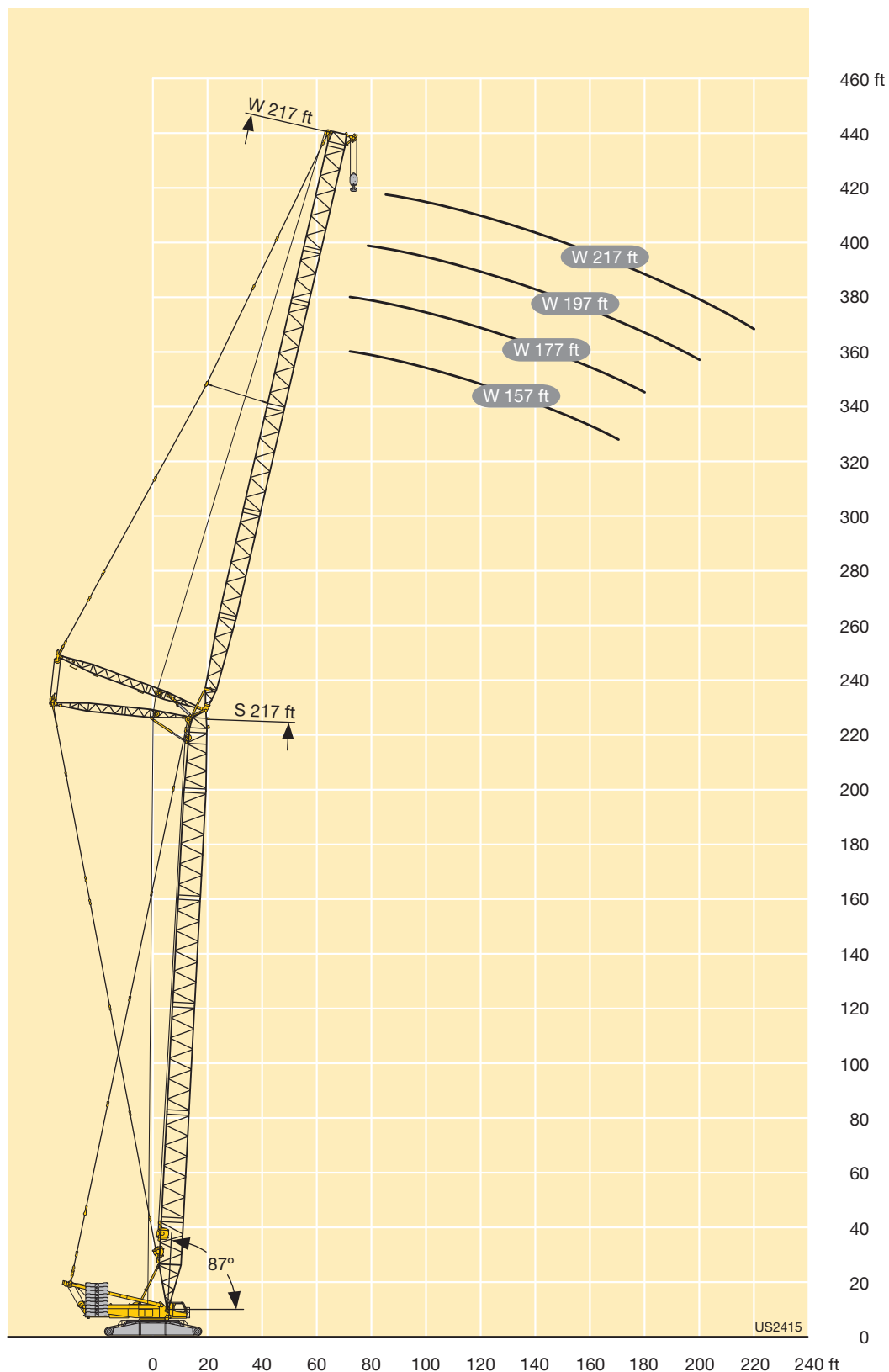
	S 177																					
	W 79			W 98			W 118			W 138			W 157			W 177			W 197			
	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	87°	77°	67°	
45	400																					45
50	370																					50
55	336																					55
60	307																					60
65	283																					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			77																			130
135			74																			135
140			70																			140
150																						150
160																						160
170																						170
180																						180
190																						190
200																						200
210																						210
220																						220
230																						230

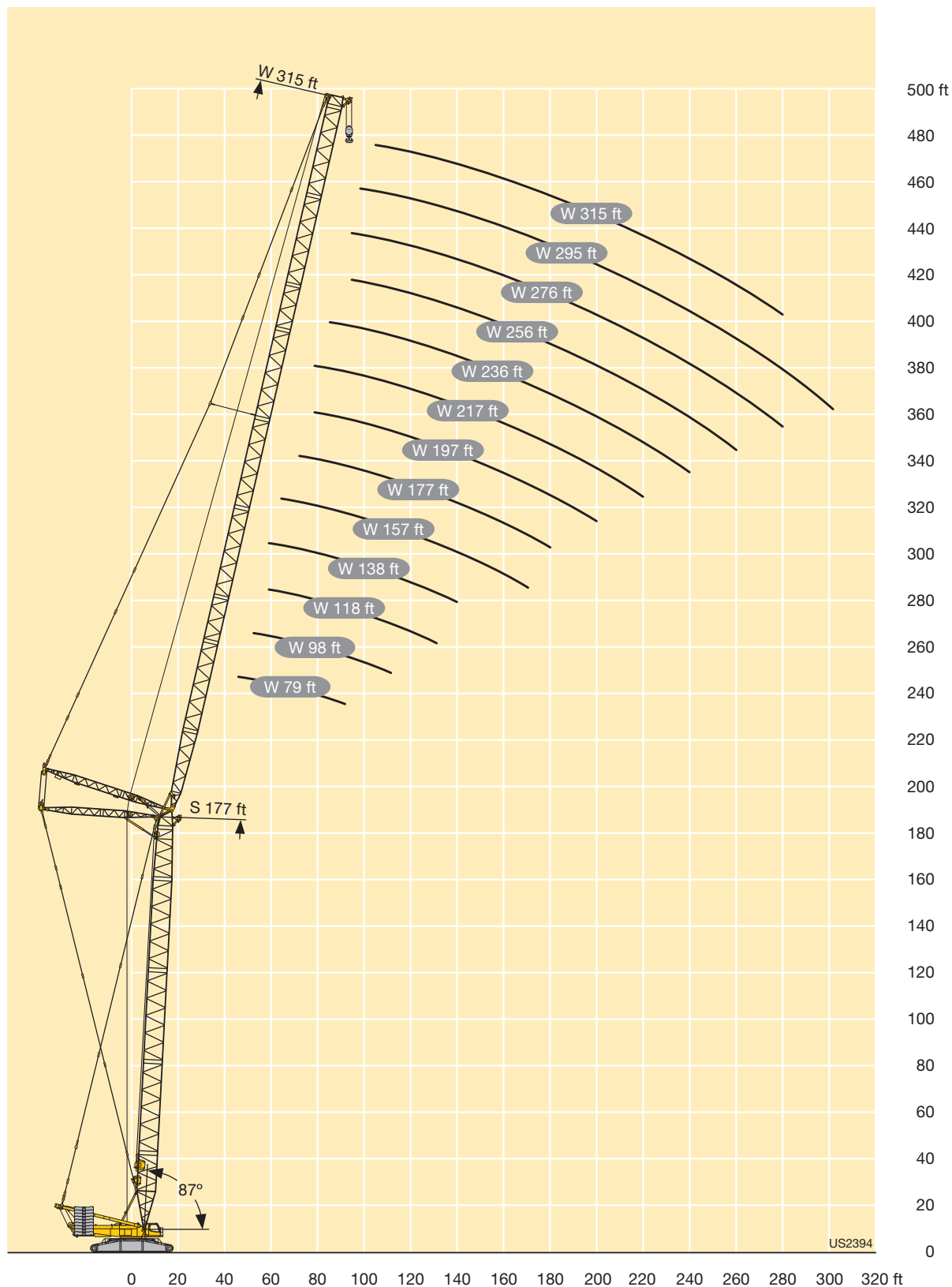
TAB 181047 / 181054 / 181061



 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		162										85
90	159		153										90
95	150		144		139		135						95
100	141		135		131		127		120				100
105	133		128		123		119		115		101		105
110	126		121		116		113		108		100		110
115	119		114		110		106		102		96		115
120	113		108		104		101		96		92		120
125	107		102		98		95		91		86		125
130	102		97		93		90		86		81		130
135	97		92		88		85		82		77		135
140	92	61	88		84		81		77		73		140
150	84	58	79		76		73		69		65		150
160	76	51	72	46.6	68		66		62		58		160
170	70	45.9	65	41.2	62	37.4	59	34.7	56		52		170
180	64	41.1	59	36.5	56	33.1	54	30.5	50		46.2		180
190	58	36.7	54	32.3	51	28.9	48.5	26.4	45.1	22.9	41.1		190
200	54	32.8	49.4	28.4	46.2	25.1	43.8	22.6	40.5	19.2	36.5	15	200
210	49.3	29.1	45	24.8	41.9	21.6	39.4	19.1	36.2	15.8	32.3		210
220	45.6	25.9	41.2	21.6	38	18.5	35.6	16	32.4	12.8	28.5		220
230		23	37.7	18.8	34.5	15.6	32	13.2	28.8		25		230
240		20.3	34.6	16.1	31.3	13	28.7		25.6		21.8		240
250		17.9		13.6	28.4		25.7		22.6		18.8		250
260		15.8		11.4	25.9		23		19.8		16		260
270							20.5		17.3		13.5		270
280							18.2		14.9		11.1		280
290									12.7				290
300									10.8				300

TAB 181047 / 181054 / 181061





ft		S	D	W	143300 lbs	331000 lbs	550000 – 770000 lbs	330000 – 550000 lbs	0 – 330000 lbs	0 lbs																			
		S 118																											
		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°
300	- B BW														93 93			78 78	87 88	58 59	66 66	77 77	87 88	59 60	66 66	73 73	79 80		
310	- B BW																	83 83				72 72	81 82	53 55	61 61	68 68	76 76		
320	- B BW																		78 78				64 64	76 77	43.4 44.5	52 52	64 64	72 72	
330	- B BW																						72 72			60 60	67 67		
340	- B BW																						68 68			55 55	63 63		
350	- B BW																										59 59		
360	- B BW																										55 55		

TAB 181074 / 181088

TAB 181074 / 181088

ft 		 138 ft S	 98 ft D	 79 – 315 ft W	 143300 lbs B	 331000 lbs BW	 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																						
		S 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°
300	- B BW														99			82	95	57	69	81	94	54	67	76	78		
															99			82	95	58	69	81	95	55	68	76	79		
310	- B BW														93			70	89		53	76	88	48.9	62	72	77		
															93			69	88		53	76	88	50	63	71	78		
320	- B BW																		84			71	82	42.4	55	67	76		
																			83			71	82	43.4	56	67	76		
330	- B BW																						77			63	73		
																							76			63	73		
340	- B BW																						73			59	68		
																							73			59	68		
350	- B BW																						68			48.8	64		
																							68			48.8	64		
360	- B BW																										60		
																											60		

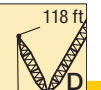
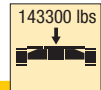
TAB 181074 / 181088

TAB 181074 / 181088

ft		157 ft S	118 ft D	79 – 315 ft W	143300 lbs B	331000 lbs BW	550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																												
		S 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°						
300	- B BW										108 108				104 104			88 88	104 104		13 55	10.1 69		85 85	101 101	9.1 53	64 66	76 77	74 75						
310	- B BW													99 99			81 80	97 97		58 59	80 80	95 95	46.1 48	60 62	73 73	74 75									
320	- B BW																		91 91				75 74	88 88	41.3 42.8	54 57	70 70	74 75							
330	- B BW																		85 85					82 82			66 66	72 75							
340	- B BW																			80 81				77 77			62 62	70 72							
350	- B BW																							73 73			55 55	66 68							
360	- B BW																											62 64							
370	- B BW																											59 61							
380	- B BW																											56 57							

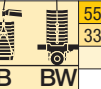
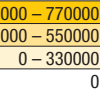
TAB 181074 / 181088

TAB 181074 / 181088

		 177 ft	 118 ft	 79 – 315 ft	 143300 lbs	 331000 lbs	 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																												
ft		S 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°						
310	- B BW																110 110			85 86	105 107		55 57	87 87	96 98	42.1 43.3	55 58	73 74	70 72						
320	- B BW																103 103				99 101			80 80	94 96	37.5 38.7	50 53	71 73	71 72						
330	- B BW																				94 95			72 73	91 92			69 70	71 72						
340	- B BW																				90 91			59 59	86 87			66 66	71 72						
350	- B BW																								82 82			60 60	71 71						
360	- B BW																								77 77				70 70						
370	- B BW																												69 68						
380	- B BW																												65 65						

TAB 181074 / 181088

TAB 181074 / 181088

		 197 ft	 118 ft	 79 – 315 ft	 143300 lbs	 331000 lbs	 B	 BW	550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																				
ft		S 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°
330	- B BW																104 104				100 101			77 77	93 95			67 68	67 68
340	- B BW																88 88				95 95			68 68	91 92			66 66	67 68
350	- B BW																				89 89				85 86			63 63	67 68
360	- B BW																								81 81			54 54	67 68
370	- B BW																								75 75				67 68
380	- B BW																									63 63			66 65
390	- B BW																												63 62

TAB 181074 / 181088

TAB 181074 / 181088

		 217 ft S	 118 ft D	 79 – 315 ft W	 143300 lbs B	 331000 lbs BW	550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs				S 217																		
ft		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°
340	- B BW																101 104				93 100			72 73	85 91	32.3 34	63 65	62 64	
350	- B BW																				90 94				83 88			63 65	63 64
360	- B BW																				84 86				81 84			58 60	63 64
370	- B BW																								78 80				63 65
380	- B BW																								75 76				64 65
390	- B BW																												64 65
400	- B BW																												60 60

TAB 181074 / 181088

TAB 181074 / 181088

ft		 236 ft S	 118 ft D	 79 – 315 ft W	 143300 lbs	 331000 lbs	 B BW	550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																			
		S 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°
350	- B BW														89 96				81 91			62 63	74 83			56 58	58 59
360	- B BW																		79 87				72 82			55 57	58 60
370	- B BW																						70 80				58 60
380	- B BW																						68 77				58 60
390	- B BW																						65 71				58 61
400	- B BW																										56 62

TAB 181074 / 181088

TAB 181074 / 181088

		 256 ft S	 118 ft D	 79 – 315 ft W	 143300 lbs	 331000 lbs	 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																												
		S 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°						
330	- B BW												91 101				84 91			63 65	74 78			54 57	62 65		27.9 29.2	45.8 47.5	49.6 52						
340	- B BW												88 99				82 89			62 63	73 77			53 55	62 65		24.8 26.1	44 45.8	49.9 52						
350	- B BW																79 89				71 76			51 54	62 65			43 44.8	50 52						
360	- B BW																				69 76				61 65			42 43.9	49.9 53						
370	- B BW																				67 76				60 64			41.3 43	49.7 52						
380	- B BW																				65 75				58 64			41.1 42.7	49.2 52						
390	- B BW																								57 64				48.6 52						
400	- B BW																												47.6 52						
410	- B BW																												46.3 52						

TAB 181074 / 181088

TAB 181074 / 181088

 ft		 276 ft S		 118 ft D		 79 – 315 ft W		 143300 lbs		 331000 lbs		 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs		 B BW															
		S 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°
340	- B BW											80 92				73 83			62 66	65 71			54 57	55 60		21.6 22.9	44.9 46.9	44.2 46.1	
350	- B BW															71 81				63 70			52 55	55 59			43.8 45.9	44.3 46.8	
360	- B BW															69 80				61 70				54 59			42.9 45.1	44.1 47.4	
370	- B BW																			59 69				53 59			42 44.4	43.9 47.7	
380	- B BW																				57 67				51 59		41.3 43.6	43.5 47.8	
390	- B BW																								49.2 57				42.4 47.6
400	- B BW																									47.6 57			41.2 47.1
410	- B BW																												40 46.3

TAB 181074 / 181088

TAB 181074 / 181088

		 295 ft	 118 ft	 79 – 315 ft	 143300 lbs	 331000 lbs	 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																						
ft		S 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°
340	- B BW												71 87				65 82			55 58	57 69			47.8 49.3	49.3 58		18.9 20	40.3 40.6	40 41.9
350	- B BW												69 83				63 79				55 69			46.3 48.5	47.9 58			39.1 39.9	40 42.6
360	- B BW																61 76				53 68			45 48.1	46.4 58			38 39.4	39.5 43.2
370	- B BW																				51 66				44.8 58			37.1 39	38.5 43.6
380	- B BW																							49.4 64		43.3 57		36.1 38.5	37.5 44
390	- B BW																							47.7 61		41.7 56			36.4 44.4
400	- B BW																								40.5 54				35.3 44.8
410	- B BW																												34.2 44.7
420	- B BW																												33.1 43.5
430	- B BW																												32.2 41.7

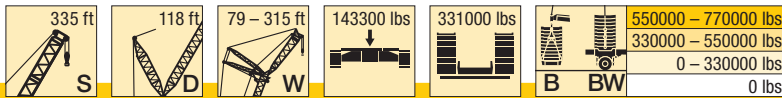
TAB 181074 / 181088

TAB 181074 / 181088

ft 		 315 ft S	 118 ft D	 79 – 315 ft W	 143300 lbs B	 331000 lbs BW	550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs																						
		S 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°
360	- B BW										57 72				51 65				43.2 54			34.9 33.1	38.1 44.1			28 26.4	31.9 35.6		
370	- B BW														48.8 64				41.7 53				37 43.7			27.4 26	31 35.5		
380	- B BW														47 63				40.4 52				35.9 43.3			26.8 25.6	30.1 35.4		
390	- B BW																		39.3 52				34.7 42.8			26.7 25.4	29.2 35.1		
400	- B BW																		38.5 51				33.6 42.7				28.2 34.7		
410	- B BW																						32.6 42.7				27.2 34.4		
420	- B BW																										26.3 34.2		
430	- B BW																										25.4 34.2		

TAB 181074 / 181088

TAB 181074 / 181088



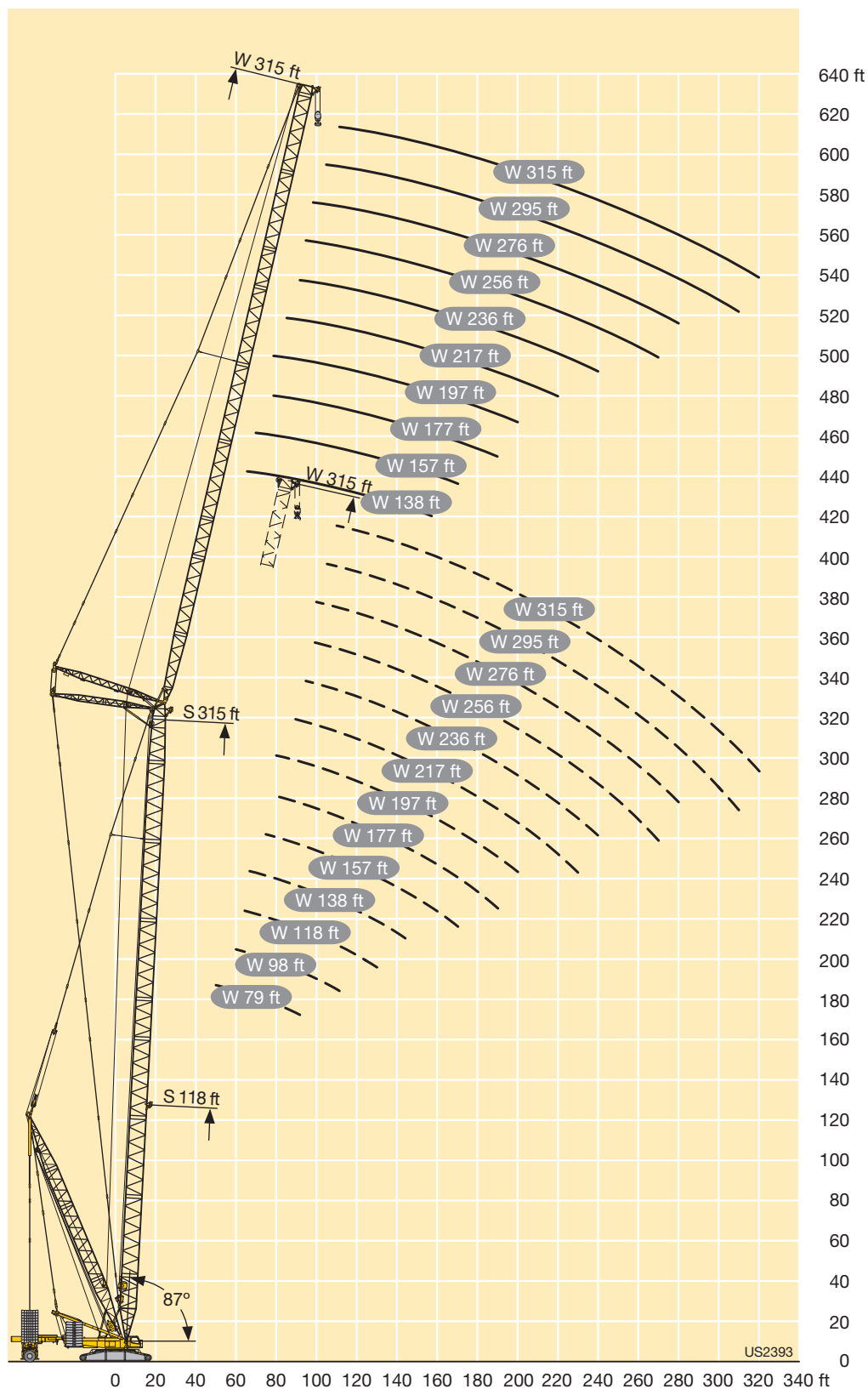
ft		S 335															
		W 197				W 217				W 236				W 256			
		87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°	87°	85°	77°	67°
85	- B	105				92											
	- BW	105				92											
90	- B	103				91											
	- BW	103				91											
95	- B	102				89				77							
	- BW	102				89				77							
100	- B	99	90			88				76				65			
	- BW	100	106			88				76				65			
105	- B	96	85			86	80			75				64			
	- BW	97	104			86	91			75				64			
110	- B	94	80			84	75			73	69			64			
	- BW	95	101			84	90			73	77			64			
115	- B	90	75			81	71			72	66			63			
	- BW	93	100			82	88			72	76			63			
120	- B	85	71			79	67			70	62			61	58		
	- BW	91	98			81	86			71	75			61	65		
125	- B	81	67			76	63			68	58			60	54		
	- BW	90	96			79	85			69	73			60	64		
130	- B	76	63			72	59			66	54			58	51		
	- BW	87	94			78	83			67	72			58	63		
135	- B	73	60			69	56			63	51			56	47.4		
	- BW	85	92			76	81			66	71			57	61		
140	- B	69	57			65	53			60	48.1			55	44.4		
	- BW	83	90			74	80			64	69			56	60		
150	- B	63	51			59	47			54	42.4			51	38.9		
	- BW	79	86			71	77			62	67			53	58		
160	- B	57	45.5			53	41.7			48.4	37.2			45.1	33.9		
	- BW	75	83			67	73			58	64			51	56		
170	- B	51	40.7			47.6	37			43.3	32.7			40.1	29.4		
	- BW	72	77	95		64	70			55	61			48	53		
180	- B	46.6	36.5	94		43	32.9			38.8	28.6			35.6	25.4		
	- BW	69	75	93		60	67			52	59			45.5	51		
190	- B	42.3	32.6			38.8	29.1			34.7	24.9			31.6	21.8		
	- BW	66	72	91		58	64	80		49.6	56			43.4	48.5		
200	- B	38.4	29.1			35	25.7			30.9	21.5			27.8	18.4		
	- BW	63	69	88		55	61	78		47.2	53	66		41.4	46.3	56	
210	- B	25.8		85		31.4	22.5			27.4	18.4			24.4	15.4		
	- BW	65		83		53	58	75		45.2	50	65		39.4	44.4	55	
220	- B	23				28.3	19.6			24.3	15.6			21.3	12.6		
	- BW	63	82			51	56	73		43.2	47.7	63		37.8	42	54	
230	- B					25.5	17			21.4	13			18.5	10.1		
	- BW		78			47.9	53	70		41.3	45.4	61		36.1	40	52	
240	- B					48.7	52	68		41.8	44.6	59		36.7	38.7	50	
	- BW		76				51	67		18.8	10.6			15.9			
250	- B						49.7	65		39.5	43.3	59		34.5	38.1	51	
	- BW		74							40	42.7	56		35.2	37.4	48.5	
260	- B										41.6	56		13.4			
	- BW										40.9	54		32.9	36.6	48.8	
270	- B											54		33.6	36.1	46.5	
	- BW										39.9	51		11.2			
280	- B										39.1			31.3	35.1	46.8	
	- BW													32	34.5	44.4	
290	- B													29	33.6	44.8	
	- BW													29.9	32.9	42.6	
300	- B																
	- BW																
310	- B																
	- BW																
320	- B																
	- BW																
330	- B																
	- BW																
340	- B																
	- BW																
350	- B																
	- BW																
360	- B																
	- BW																

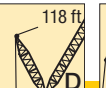
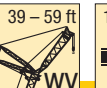
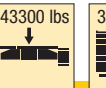
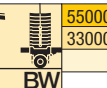
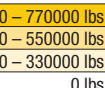
TAB 181074 / 181088

									550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs												
ft		S 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°				
370	B BW																39.2 42.8				
380	B BW																38.1 42.8				
390	B BW																37.3 42.7				

TAB 181074 / 181088

TAB 181074 / 181088



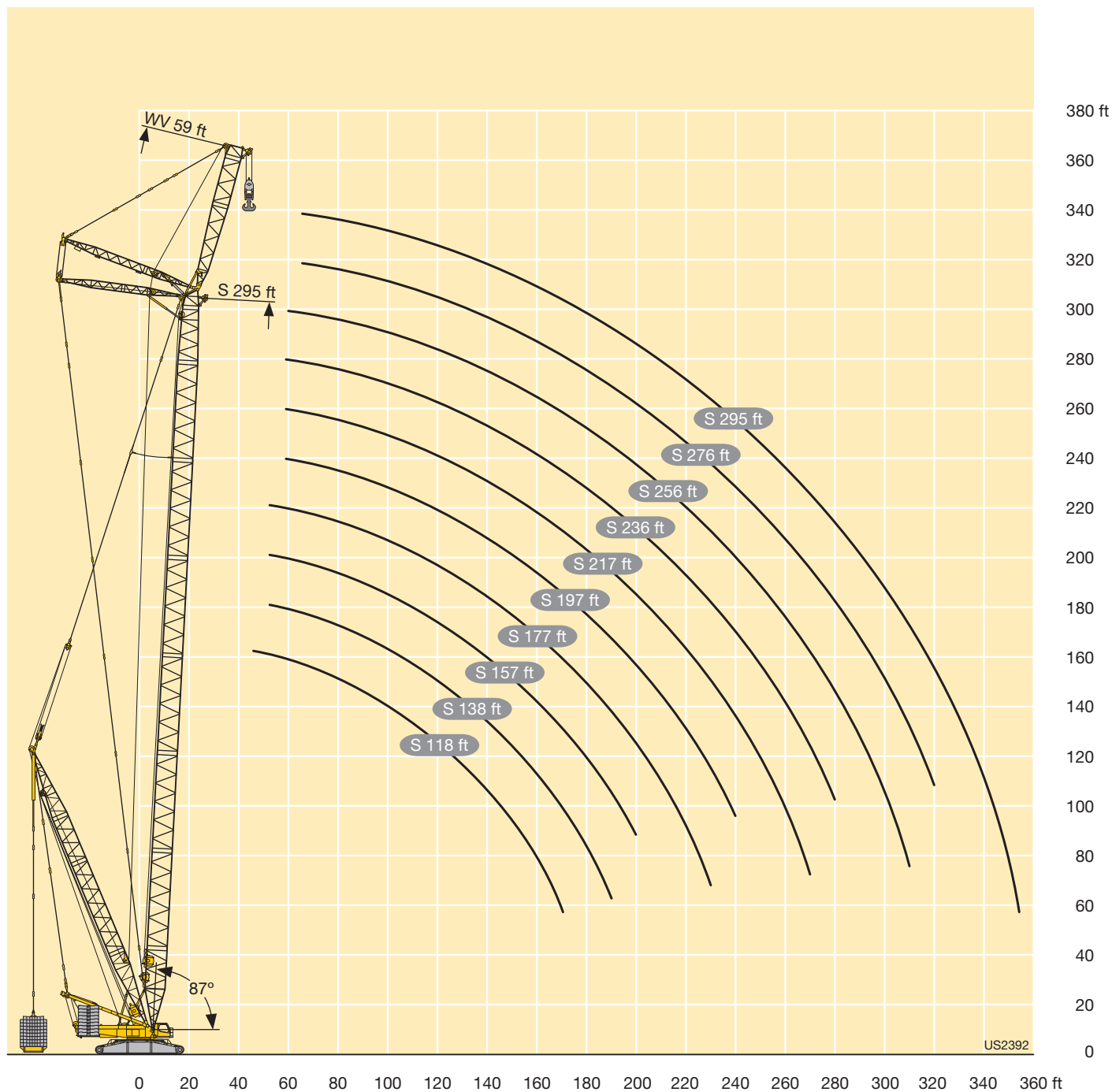
														217 – 295 ft		118 ft		39 – 59 ft		143300 lbs		331000 lbs		550000 – 770000 lbs		330000 – 550000 lbs		0 – 330000 lbs		0 lbs	
		S 217				S 236				S 256				S 276				S 295													
		D 118				D 118				D 118				D 118				D 118													
		W 39		W 59		W 39		W 59		W 39		W 59		W 39		W 59		W 59													
		12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°	12°	20°		
280	B BW							101 115	101 115	99 111	98 110	111 117	113 117	103 108	104 109	107 107	109 107	105 108	105 109												
290	B BW											99 108	100 107	91 100	91 100	97 100	99 101	95 98	96 99												
300	B BW											84 96	84 96	75 88	75 88	87 93	90 94	87 90	88 91												
310	B BW											64 79		56 71		75 84	77 86	78 83	79 82												
320	B BW															61 73		70 75	70 75												
330	B BW																	60 67	59 67												
340	B BW																	46.4 58	46.2 57												
350	B BW																	32.4 44.9													

Further lengths on request · Autres longueurs sur demande

TAB 181085 / 181099

Further lengths on request - Autres longueurs sur demande

TAB 181085 / 181098





	S 157																				
	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										179										85
90	173										169										90
95	163	136	162								159	139									95
100	153	132	154			124					150	136	151								100
105	145	129	147	98.5	119			106			141	132	142		123						105
110	137	126	139	96	114			101		89.5		134	129	135	97	118		103			110
115	130	123	132	93.5	109			96.5		86.5		127	126	128	95.5	114		100			115
120	123	120	125	91.5	105	78.5	92.5			83		120	123	121	93.5	109		96		86	120
125	117	118	119	89.5	100	77	88.5			79		114	119	115	91.5	105	79	92.5		82.5	125
130	111	115	114	87.5	97	75	85	63.5	75.5		108	113	110	89.5	102	77	89	64.5		79	130
135	106	111	109	85.5	93.5	73.5	82	62	72.5		103	108	105	88	98.5	75.5	85.5	63.5	76		135
140	101	106	104	83.5	90.5	72	79	60.5	69.5	48.8	98.5	103	100	86.5	95	74	82.5	62	73	51.3	140
150	92.5	97	94.5	80.5	84.5	68.5	73.5	57.2	64.5	45.2	89.5	93.5	91	83	89	70.5	77	58.9	68	48.1	150
160	84.5	88.5	86.5	77.5	79	66	68.5	54.4	60	38.5	82	85.5	83.5	80.5	83	68	72	56.2	63	42.3	160
170	77.5	81	79.5	75.5	74.5	63	64	51.8	55.7	31.4	75	78	76.5	77.5	77.5	65	67.5	53.6	59.1	36.1	170
180	71		73.5	73.5	70.5	61	60	49.5	51.7	22.1	68.5	71.5	70	73.5	71.5	63	64	51.3	55.2	28.7	180
190	65.5		67.5		67	59.3	56.7	47.4	47.7	13.9	63		64.5	68	66	61	60	49.2	51.4	20.5	190
200			62.5		63	57.8	53.6	45.3	41.3		58.1		59.5	62.5	60.5	59.4	57	47.3	47.4		200
210					58.9		50.6	42.6	30.2				54.9		56	58	54.2	45.6	42.8		210
220					54.7		48.3	39.7	19.1				50.7		51.9	54.8	51.4	43	33		220
230					50.8		46.1	33.6							48		48.4	40.3	23.1		230
240							43.3								44.5		45.3	36.1	15		240
250																	42				250
260																	39				260
270																	36.2				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											147									95	
100	142	138	145									138									100	
105	134	135	137									130	136	132							105	
110	127	132	129	98.5	119							123	128	125		116					110	
115	120	126	123	97	117							116	121	118		115					115	
120	114	119	116	95	113		98.5					110	115	112	96.5	112					120	
125	108	113	111	93.5	109	79	95		84.5			104	109	106	94.5	107		95.5		84	125	
130	102	107	105	91.5	105	78	92		81.5			99	103	101	93	102	79	93.5		82.5	130	
135	97.5	102	100	89.5	100	76.5	89		78.5			94	98.5	96	91.5	97	78	91		80.5	135	
140	93	97.5	95.5	88	95.5	75	86		76			89.5	93.5	91.5	90	92.5	76	88.5		78	140	
150	84	88.5	87	85	87	72	80.5	60	71			81	84.5	83	85.5	84	73.5	82.5	61.5	73.5	150	
160	76.5	80.5	79	81.5	79.5	69.5	75.5	57.5	66	45		73.5	76.5	75.5	79.5	76.5	71	76.5	58.8	69	47.6	160
170	69.5	73	72.5	76	72.5	67	71	55.1	62	39.4		66.5	69.5	68.5	72.5	70	68.5	69.5	56.5	64.5	42.5	170
180	63.5	67	66.5	69.5	66.5	64.5	66.5	52.9	58.1	33.7		60.5	63.5	62.5	66	64	66.5	64	54.3	61	37.3	180
190	58.1	61	60.5	64	61	62.5	62	50.7	54.4	26.7		55.2	57.7	57.1	60.5	58.6	62.5	58.5	52.3	57.1	31.6	190
200	53.1	55.9	55.7	58.4	56.1	60	57	48.8	50.8	19.1		50.2	52.5	52.1	55.2	53.6	57.5	53.5	50.4	53	25.2	200
210	48.6		51.1	53.5	51.5	55.7	52.4	47.2	47.2			45.7	47.8	47.6	50.3	49	52.6	49	48.5	48.6	18	210
220	44.6		47	49.1	47.4	51.3	48.4	45.6	42.3			41.7	43.5	43.5	46	45	48.3	45	47.1	44.6	11.8	220
230	41		43.2		43.7	47.1	44.6	43.3	34.5			38		39.8	42	41.2	44.2	41.3	44.5	41		230
240			39.7		40.1	43.3	41.1	40.6	25.4			34.6		36.3		37.7	40.4	37.8	41.3	35.8		240
250					36.9		37.9	37.8	16.6					33		34.4	36.9	34.6	37.8	27.9		250
260					33.9		34.9	32.1	11.4					30.1		31.5	33.6	31.7	34.6	19.4		260
270							32.2									28.7		28.9	31.6	13.5		270
280							29.6									26.1		26.4	28.6			280
290																		23.9				290
300																		21.7				300

TAB 181198



	S 177																				
	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										172									85	
90	167										163									90	
95	157	137	159								153									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



 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			118					119	124	120								110
115	117	122	118			116					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										117									105	
110	114	117	113								110									110	
115	108	112	109								104									115	
120	102	106	103		101						98	103	99.5							120	
125	96.5	100	97.5	95.5	99						92.5	97.5	95		86.5					125	
130	91.5	95	92.5	94	94		85		76.5		87.5	92.5	90	89	85.5		76			130	
135	87	90.5	88	91	89.5		83.5		75.5		83	88	85.5	87	83		75.5			135	
140	82.5	85.5	83.5	88	85	76	82		74.5		79	83.5	81	84	80	74.5	74.5		65.5	140	
150	74.5	77	75.5	80.5	77	74.5	76.5		72		71	75	73	77	73.5	73.5	72		64.5	150	
160	67	69.5	68	73	69.5	72	69.5	60	69		63.5	67.5	66	69.5	66.5	71	67.5	61	62.5	160	
170	60.5	63	61.5	66	63	68.5	63	57.7	63.5	45.1	57.2	61	59.5	63	60	65.5	61	58.4	60	46.7	170
180	54.8	56.9	55.9	59.9	57.5	62.5	57.4	55.6	58	40.6	51.5	54.9	53.9	56.9	54.3	59.6	55.6	56.4	54.9	42.4	180
190	49.6	51.4	50.7	54.4	52.3	56.9	52.3	53.7	53	35.7	46.4	49.5	48.7	51.5	49.2	54.1	50.5	53.6	49.9	37.8	190
200	44.8	46.4	45.9	49.3	47.5	51.8	47.5	51.3	48.3	30.3	41.7	44.5	43.9	46.5	44.5	49.1	45.8	50	45.3	33.2	200
210	40.4	41.8	41.5	44.7	43.2	47.1	43.2	48	44	24.3	37.3	40	39.6	41.8	40.1	44.4	41.5	45.3	41.1	28.5	210
220	36.5	37.7	37.6	40.5	39.2	42.9	39.3	43.8	40.2	17.6	33.5	35.9	35.7	37.7	36.3	40.3	37.6	41.2	37.3	22.4	220
230	32.9	33.9	33.9	36.6	35.6	39	35.7	39.9	36.6		29.9	32.1	32	33.9	32.7	36.4	34	37.3	33.7	16.2	230
240	29.6		30.6	33	32.2	35.3	32.4	36.3	33.3		26.6	28.6	28.7	30.3	29.3	32.8	30.7	33.7	30.5		240
250	26.5		27.4		29	31.9	29.2	32.9	30.2		23.5		25.5	27	26.2	29.4	27.6	30.4	27.4		250
260	23.7		24.6		26.2	28.8	26.4	29.7	27.4		20.7		22.7	23.9	23.3	26.3	24.7	27.2	24.6		260
270	21.1		21.9		23.5	25.8	23.7	26.8	22.3		18.1		20	21	20.7	23.4	22.1	24.4	22		270
280			19.5		20.9		21.2	24	16.6		15.7		17.5		18.2	20.6	19.5	21.6	19.5		280
290					18.6		18.9	21.4					15.2		15.8	18	17.2	19	16.9		290
300					16.4		16.7	19					13		13.6	15.6	15	16.6	12.3		300
310							14.7								11.6		12.9	14.3			310
320							12.7										11				320

TAB 181198



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°	ft
110	104										91.5						110
115	100										91						115
120	94	97	90								89						120
125	89	93	89								85	84.5	78.5				125
130	84	88	85		78						80	83	77.5				130
135	79.5	83	81		77						75.5	79.5	75.5				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

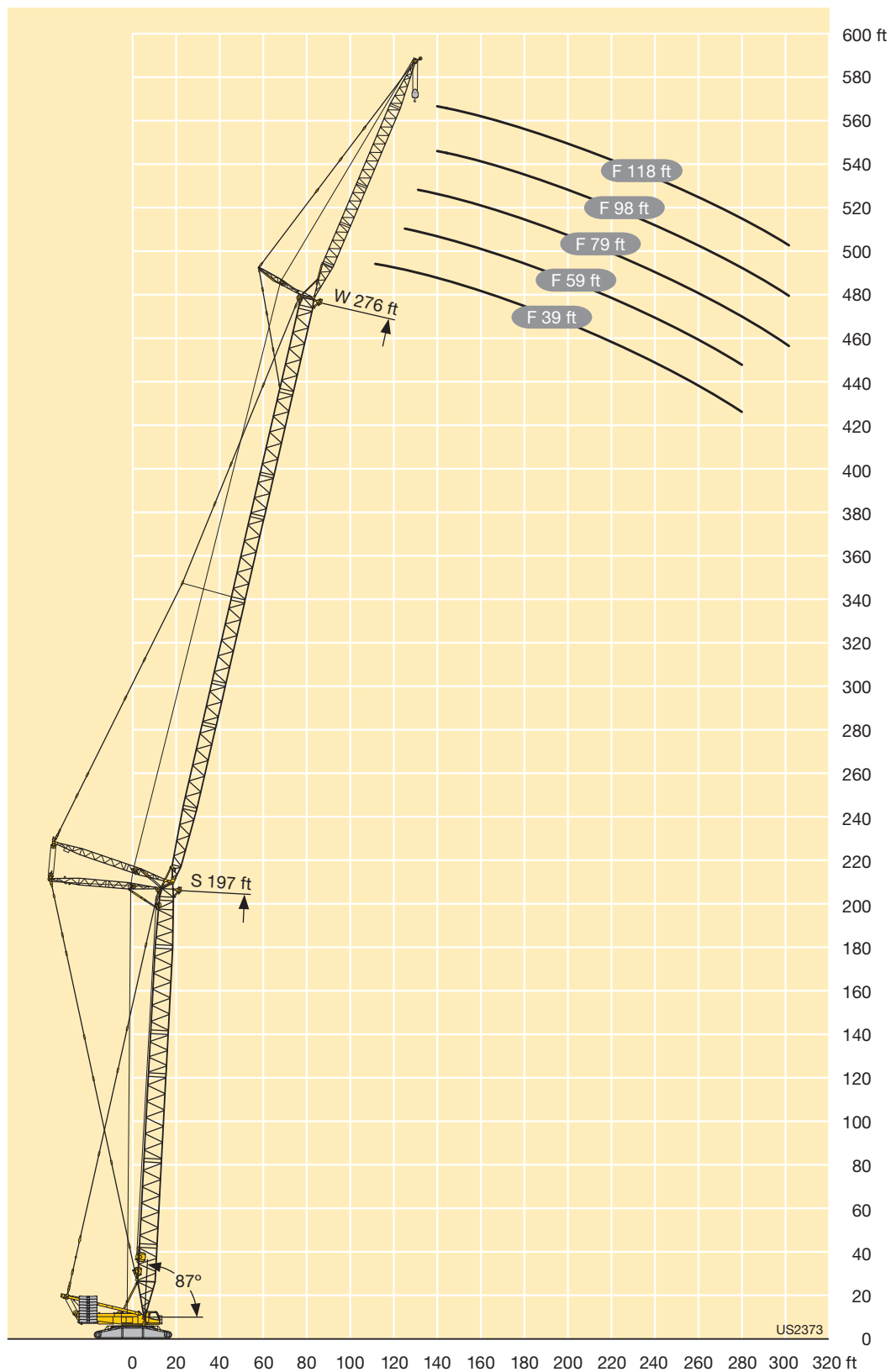
TAB 181198

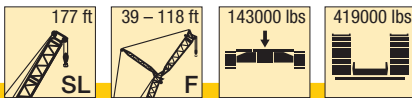


 ft	S 197										 ft
	W 276										
	F 39		F 59		F 79		F 98		F 118		
	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	
110	99.5										110
115	95.5										115
120	90										120
125	85	89	84								125
130	80.5	84	81		73.5						130
135	76	79.5	77		73						135
140	72	75.5	73	75.5	72		63.5		56.1		140
150	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 181190

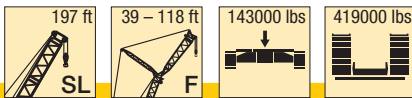
TAB 181198





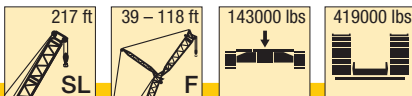
 ft	SL 177															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
32	303															32
34	303															34
36	303															36
38	303															38
40	303	302														40
45	303	301	167	246	204											45
50	303	288	162	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



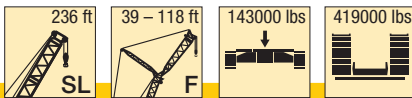
	SL 197															
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
36	303															36
38	303															38
40	303	303														40
45	303	303		249												45
50	303	293		238												50
55	303	280	158	226	189		176									55
60	298	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

TAB 181118



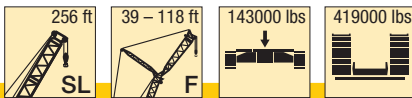
 ft	SL 217															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	303		251												45
50	303	296		241												50
55	299	286	160	230	192		178									55
60	288	273	155	219	184		169	143		147			135			60
65	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

TAB 181118



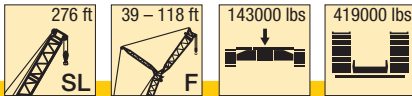
 ft	SL 236															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	303														45
50	303	298														50
55	295	289	160	231	194											55
60	277	276	156	222	186		172	144		148						60
65	253	255	152	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



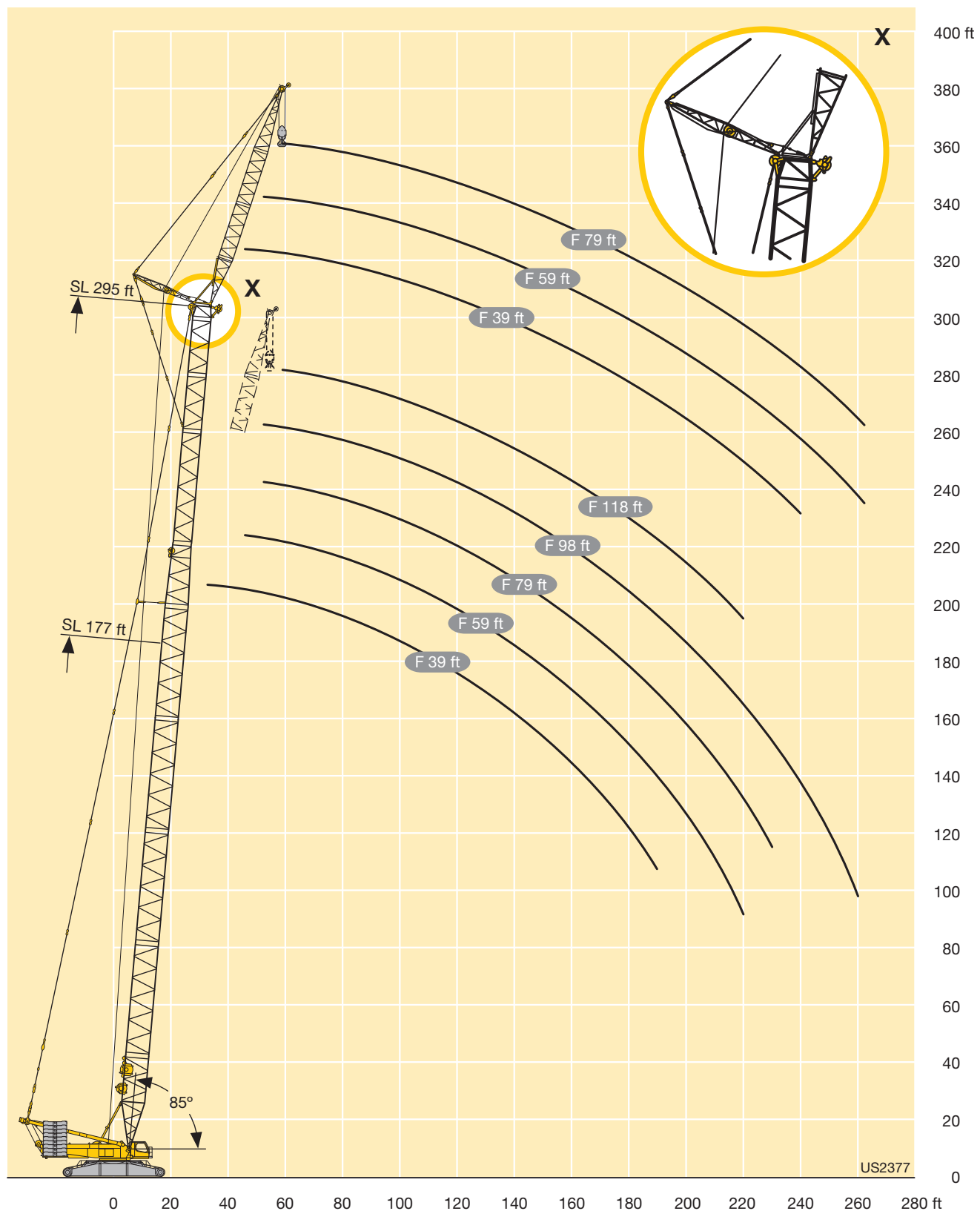
 ft	SL 256															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	301	269														45
50	294	263														50
55	283	256	159	207												55
60	268	250	155	201	181		164									60
65	244	243	152	195	176	110	159	137		136			123			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

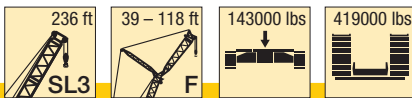
TAB 181118



 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		

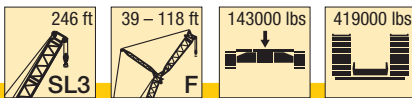
TAB 181118





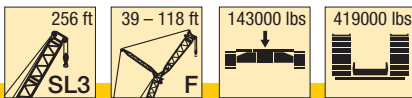
 ft	SL3 236															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	303														45
50	303	298														50
55	295	289	160	231	194											55
60	277	276	156	222	186		172	144		148						60
65	253	255	152	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



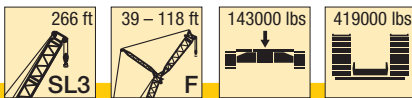
 ft	SL3 236															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
40	303															40
45	303	301														45
50	303	296														50
55	295	289	161	231	194											55
60	279	277	157	223	187		173			148						60
65	254	257	153	215	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

TAB 181111



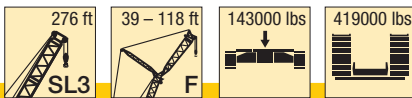
	SL3 256															
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	301	269														45
50	294	263														50
55	283	256	159	207												55
60	268	250	155	201	181		164									60
65	244	243	152	195	176	110	159	137		136			123			65
70	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



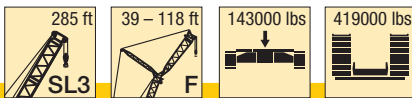
 ft	SL3 266															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	303	273														45
50	298	268														50
55	287	261		210												55
60	270	254	156	205	183		166									60
65	247	247	152	199	178	110	161	137		138			125			65
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



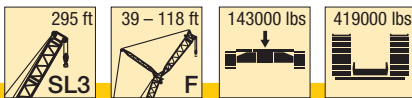
 ft	SL3 276															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	301	270														45
50	295	265														50
55	280	259		209												55
60	258	252	157	203	182		165									60
65	235	237	153	198	178		161	138		138			124			65
70	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



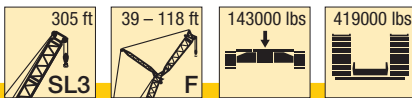
 ft	SL3 285															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	303															45
50	298															50
55	283	263		212												55
60	260	255	157	207	184		167									60
65	237	239	154	202	180		162	138		139			125			65
70	218	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



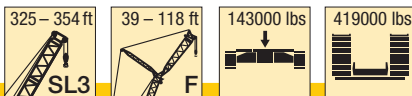
 ft	SL3 295															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	294															45
50	289															50
55	274	257		207												55
60	249	249	157	203	182		164									60
65	227	230	154	198	179		160	139		137			122			65
70	208	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



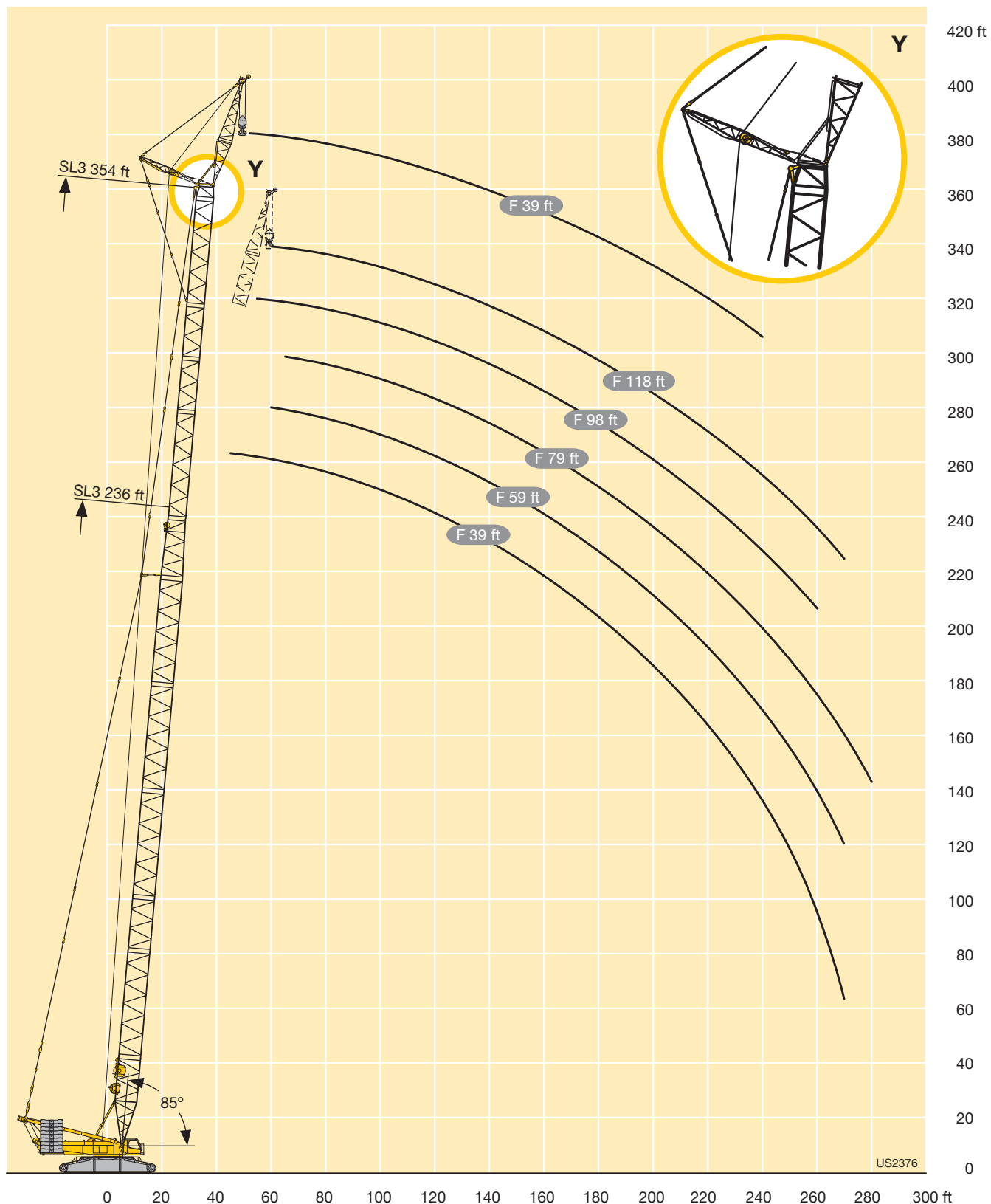
 ft	SL3 305															 ft
	F 39			F 59			F 79			F 98			F 118			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
45	294															45
50	289															50
55	275	259								258	236					55
60	251	252	158	205	184					246	230	156	187			60
65	229	232	155	201	180		162	139		225	225	153	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

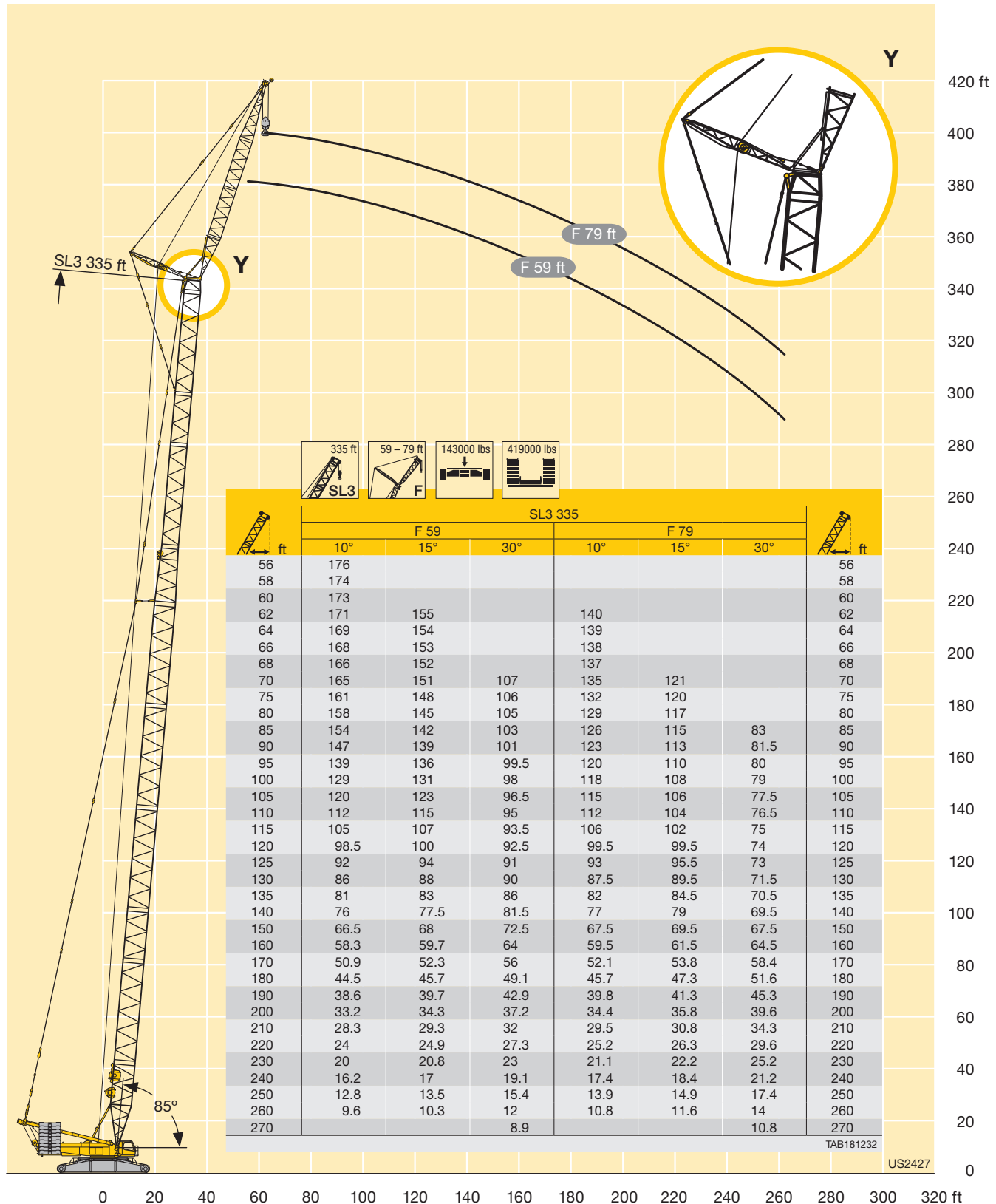
TAB 181111



 ft	SL3 325						SL3 335			SL3 344			SL3 354			 ft
	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°	
55	255	235					238	219		235			209			55
60	241	230	156	187			231	214		228	213		204	190		60
65	220	222	154	183	165		217	209	154	213	209	154	198	185	154	65
70	202	205	151	178	162		200	200	151	196	197	152	191	181	151	70
75	186	189	148	174	158	106	184	187	148	180	183	149	180	176	148	75
80	172	174	146	169	155	104	170	172	146	166	169	146	166	168	146	80
85	159	161	143	161	152	102	157	159	143	154	156	144	153	156	143	85
90	147	150	140	149	149	100	146	148	141	142	145	142	142	144	140	90
95	137	139	138	139	142	99	135	137	138	132	134	137	132	134	136	95
100	127	129	134	129	132	97	126	128	133	123	125	130	123	125	130	100
105	118	120	125	121	123	95.5	117	119	124	114	116	121	114	116	121	105
110	110	112	117	113	115	94	109	111	116	106	108	113	106	108	113	110
115	103	105	109	105	107	93	102	104	108	99	101	105	99	101	106	115
120	96	97.5	102	98.5	100	91.5	95	96.5	101	92	94	98.5	92.5	94	98.5	120
125	89.5	91	95.5	92	94	90	88.5	90	94.5	86	87.5	92	86	88	92	125
130	84	85.5	89	86	88	89	83	84.5	88.5	80	81.5	86	80.5	82	86	130
135	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	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	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	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	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	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	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	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	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	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	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	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	10.6	11.1	12.4	12.3	13.1	14.9		10.5	11.9							250
260	7.5	8	9.2	9.2	9.9	11.6		7.4	8.6							260
270						8.5										270

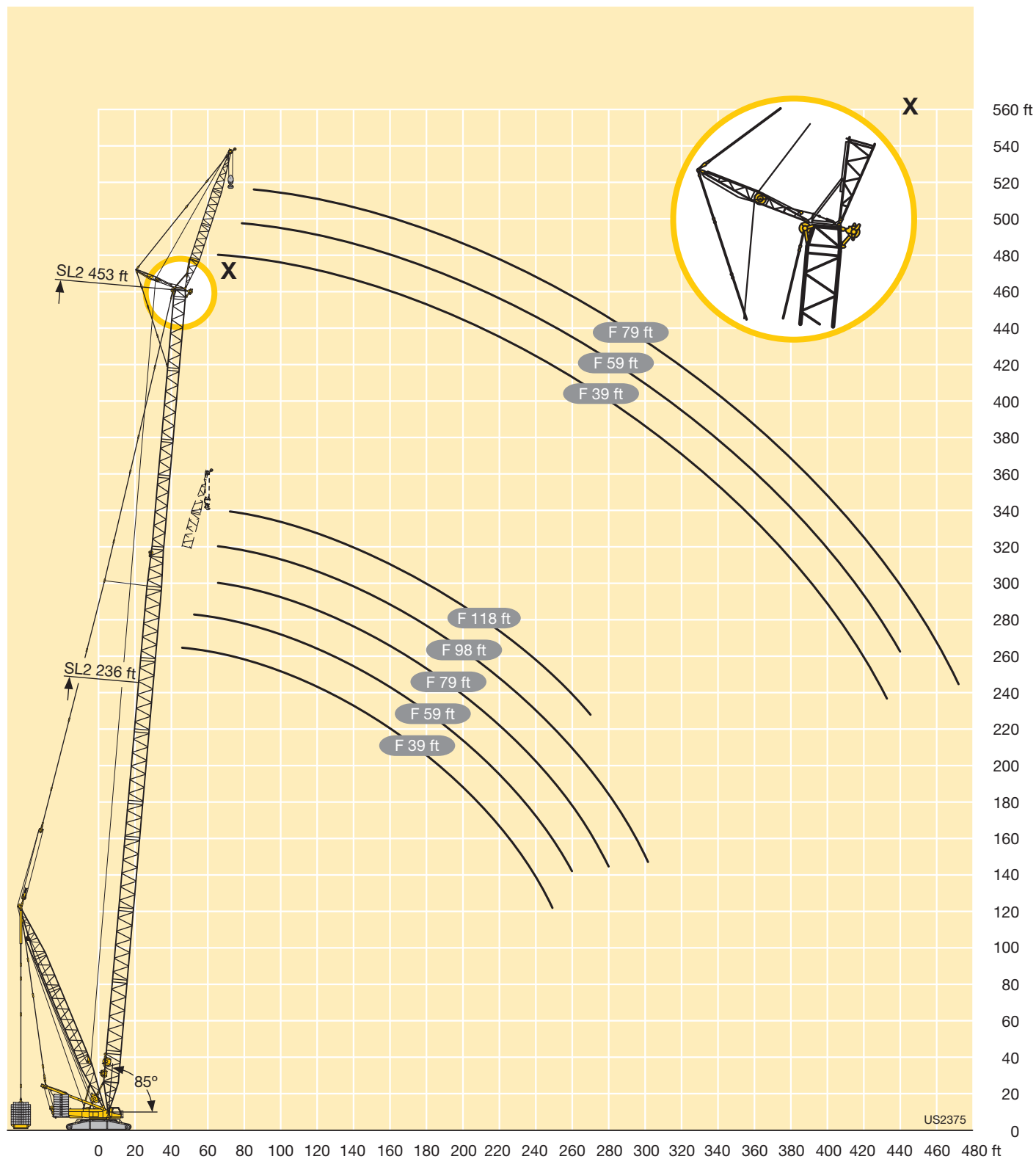
TAB 181111





		354 - 453 ft					118 ft					39 - 118 ft					143300 lbs					331000 lbs					550000 - 770000 lbs					330000 - 550000 lbs					0 - 330000 lbs					0 lbs				
		SL2					D					F															B					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	79																	
230	- B BW	153 157	109 109	81 81	68 68	58 58	150 154	112 112	83 82	70 70	60 60	147 152	113 114	85 84	72 72	62 62	135 139	105 105	89 87	73 73	63 62	123 128	104 101	89 86	75 73	64 63	107 109	93 91	80 77																	
240	- B BW	150 153	106 106	78 78	66 66	56 56	146 150	108 108	80 80	67 67	57 57	143 149	110 111	82 82	69 69	59 59	132 136	101 102	85 84	70 70	60 60	120 125	99 98	86 84	72 71	62 61	103 106	90 88	77 75																	
250	- B BW	147 150	102 102	76 76	64 64	54 54	142 147	105 105	78 77	65 65	55 55	140 145	107 107	80 79	67 67	57 56	129 132	99 100	82 82	68 67	58 57	118 122	95 96	82 81	69 69	60 59	100 103	86 85	74 72																	
260	- B BW	145 147	99 99	73 73	62 62	52 52	140 144	101 102	75 75	63 63	53 53	136 141	104 104	77 77	65 65	55 55	126 129	97 97	80 80	66 65	55 55	115 119	92 94	79 80	67 67	57 56	97 101	82 83	71 70																	
270	- B BW	142 145	97 97	71 71	59 59	49.9 49.9	138 141	99 99	73 73	61 61	51 51	133 137	101 101	75 75	63 63	53 53	121 126	94 93	78 78	64 63	54 53	112 116	90 92	77 78	65 65	55 54	95 98	81 81	68 68																	
280	- B BW	139 141	94 94	69 69	58 57	47.6 47.6	135 138	96 97	71 71	59 59	49.5 49.4	129 134	99 99	72 72	61 61	51 51	118 124	91 93	77 76	62 62	52 52	108 113	88 89	75 76	63 63	53 53	92 95	79 80	66 67																	
290	- B BW	134 136	92 92	67 67	56 56	44.7 44.8	132 135	94 94	69 69	57 57	47.5 47.4	125 130	96 96	70 70	59 59	49.1 49.1	115 121	90 91	75 75	60 60	50 50	105 111	86 87	74 74	61 61	52 51	90 93	77 78	65 65																	
300	- B BW	128 130	89 89	65 65	54 54	39.8 39.8	127 129	92 92	67 67	56 56	44.6 44.5	121 126	94 94	69 69	57 57	47.4 47.4	112 119	88 90	73 73	58 58	48.5 48.3	102 109	83 86	72 73	60 59	50 49.7	88 92	75 76	63 64																	
310	- B BW	122 125	87 87	63 63	53 53	35 34.9	120 123	89 89	65 65	54 54	40.2 40.1	116 121	92 92	67 67	56 56	44.5 44.4	109 117	87 89	71 71	56 56	46.9 46.7	100 108	82 84	70 71	58 58	48.4 48.1	87 90	72 74	61 62																	
320	- B BW	116 119	85 85	62 62	51 51	30.1 30	114 117	87 87	64 64	53 53	35.5 35.4	110 116	90 90	65 65	54 54	40.7 40.6	105 113	86 87	69 70	55 55	44.4 44.2	97 106	80 83	68 70	56 56	46.8 46.6	85 88	71 73	60 61																	
330	- B BW	111 113	84 84	60 60	49.4 49.4	25.4 25.2	107 111	86 86	62 62	51 51	30.8 30.7	105 110	88 88	64 64	53 53	36.4 36.1	101 108	84 86	68 68	54 54	41 40.7	94 103	79 82	67 68	55 55	44.8 44.7	84 87	70 72	58 60																	
340	- B BW	104 108	82 82	59 59	48.2 48.2	20.9 20.3	102 105	84 84	61 61	49.5 49.5	26.1 26.5	99 104	86 86	62 62	51 51	32 31.6	96 102	83 84	66 66	52 52	36.6 36.4	91 99	78 80	66 67	53 53	41.3 41.1	82 85	69 70	57 59																	
350	- B BW	80 80	58 58	47.1 47.1	16.4 15.9		96 100	82 82	60 59	48.3 48.3	21.4 22.3	93 98	84 84	61 61	49.7 49.7	28 27.1	90 97	81 83	65 65	51 51	32.3 32.1	87 94	77 79	65 66	52 52	37.3 37.1	79 83	67 69	56 58																	
360	- B BW	78 79	57 57	45.9 45.9			90 94	81 81	58 58	47.2 47.2	17.1 18	87 93	83 83	60 60	48.5 48.5	23.9 22.6	85 91	79 82	64 64	49.5 49.5	28.1 27.8	82 89	75 78	64 65	51 51	33.3 33	75 80	66 68	55 56																	
370	- B BW			56 56	44.8 44.8			79 79	57 57	46.2 46.1		82 88	81 81	59 58	47.5 47.5	19.7 18.5	81 86	77 82	62 62	48.2 48.2	23.9 23.7	78 84	73 77	63 64	49.5 49.5	29.2 28.9	71 77	64 67	54 55																	
380	- B BW			55 55	43.8 43.8			78 78	56 56	45.1 45.1		77 83	78 80	57 57	46.4 46.4	15.5 14.6	76 82	75 81	61 61	47.3 47.2	19.7 19.6	73 80	71 76	62 62	48.3 48.3	25.2 24.9	67 74	63 66	53 54																	
390	- B BW			43 42.9					55 55	44.1 44.1			75 78	56 56	45.4 45.4		70 77	72 78	60 60	46.3 46.3	15.9 15.8	69 76	68 75	61 61	47.4 47.4	21.2 20.8	63 71	61 66	53 54																	
400	- B BW			42.2 42.2					54 54	43.2 43.2			71 74	55 55	44.5 44.4			68 74	59 59	45.4 45.4		63 71	65 73	60 60	46.5 46.5	17.3 17	59 67	59 65	52 53																	
410	- B BW									42.5 42.4			54 55	43.6 43.5				64 70	58 58	44.5 44.5		59 67	62 70	59 59	45.6 45.6		55 64	57 64	52 53																	
420	- B BW													42.8 42.8				57 57	43.6 43.5				58 66	58 58	44.8 44.7		52 60	54 62	51 52																	
430	- B BW													42.1 42.1				55 56	42.9 42.8				54 62	55 57	43.9 43.8		47.7 56	51 59	51 52																	
440	- B BW																		42.2 42.1					52 56	43.1 43			47.1 56	48.5 51																	
450	- B BW																			41.6 41.5					42.4 42.4				45.2 51																	
460	- B BW																								41.7 41.7				41.9 49.9																	
470	- B BW																									40.8 41.2			38.6 47																	

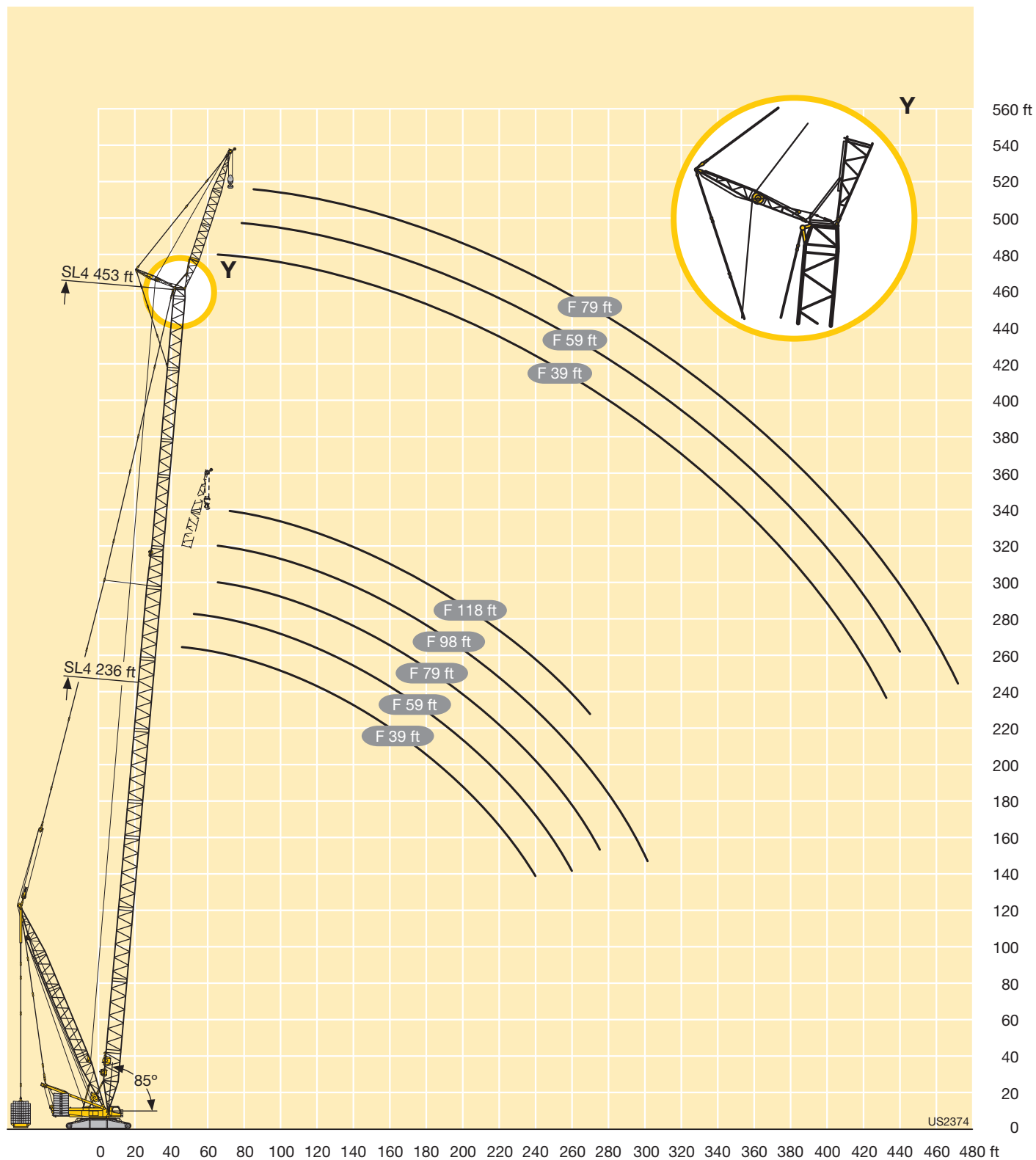
TAB 181202 / 181200



		 236 – 335 ft					 118 ft					 39 – 118 ft					 143300 lbs					 331000 lbs					 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs				
ft		SL4 236					SL4 256					SL4 276					SL4 295					SL4 315					SL4 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 BW	303 303 303					303 303 303																								
50	- B BW	303 303 303					303 303 303																								
55	- B BW	299 303 303	229 237 237				295 303 303					291 303 303					281 303 303					270 303 303									
60	- B BW	289 303 303	227 227 227				281 303 303	229 229 229				272 303 303	229 229 229				255 303 301	226 226 225				248 302 302					239 294 288				
65	- B BW	265 303 303	217 217 217	173 173 173	152 152 152		257 303 303	221 221 221	175 175 175			249 303 303	224 224 224	177 177 177			236 303 296	218 221 219				226 300 299	215 217 217				218 292 283	207 213 210			
70	- B BW	245 303 303	208 208 208	167 167 167	146 146 146		237 303 303	212 212 212	169 169 169			229 303 303	217 218 218	172 172 171			217 300 288	206 216 212	170 173 174			208 296 294	204 214 214				200 287 277	196 211 206			
75	- B BW	226 300 300	199 199 199	160 160 160	140 140 140	127	218 300 300	203 204 203	163 163 163	142 142 142	129	210 299 300	208 211 211	165 165 165	144 144 144	131	199 294 280	195 211 206	167 167 167	146 146 146		191 291 288	192 210 210	168 168 168			184 281 271	185 207 201	166 167 165		
80	- B BW	209 293 294	191 191 191	153 153 153	134 134 134	122	201 295 296	195 195 195	156 156 156	137 137 137	124	194 294 294	195 204 204	159 159 159	139 139 139	126	184 287 272	185 206 200	161 161 161	141 141 140	127	176 287 282	177 206 202	163 163 163	142 142 142	127	169 276 265	171 204 197	160 164 161	142 142 141	127
85	- B BW	193 284 284	184 184 184	147 147 147	129 129 129	117	187 289 289	187 188 188	150 150 150	131 131 131	119	180 288 288	181 197 197	153 153 153	134 134 134	121	170 279 265	172 201 195	156 156 155	135 135 135	122	162 282 276	168 202 202	158 158 158	137 137 137	123	156 271 259	162 200 192	154 160 157	138 138 137	124
90	- B BW	180 274 274	176 176 176	141 141 141	123 123 123	111	174 281 281	174 182 182	145 145 145	126 126 126	114	167 281 282	169 191 191	148 148 148	129 129 129	116	158 270 258	162 195 189	150 150 150	131 131 130	118	151 278 269	156 19								

TAB 181202 / 181200

		 354 – 453 ft					 118 ft					 39 – 118 ft					 143300 lbs					 331000 lbs					 550000 – 770000 lbs 330000 – 550000 lbs 0 – 330000 lbs 0 lbs				
ft		SL4 354					SL4 374					SL4 394					SL4 413					SL4 433					SL4 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	79		
230	- B BW	152 155	109 109	83 82	68 68	58 58	152 155	114 114	87 86	70 70	62 62	151 155	115 116	89 89	72 72	64 64	138 142	108 107	90 88	73 73	65 65	129 133	108 105	90 88	78 76	67 66	113 114	97 95	84 82		
240	- B BW	148 151	105 105	80 80	66 66	56 56	147 151	110 110	84 84	67 67	60 59	148 151	112 113	86 86	69 69	62 61	135 138	104 105	87 86	70 70	63 62	126 130	103 102	87 86	75 74	64 64	109 111	94 92	82 79		
250	- B BW	146 149	102 102	77 77	64 64	54 54	144 148	107 107	81 81	65 65	57 57	144 147	109 110	84 83	67 67	59 59	132 135	102 103	84 83	68 67	60 60	123 127	99 100	84 83	72 71	62 61	107 109	90 89	79 77		
260	- B BW	143 146	99 99	75 75	62 62	52 52	142 145	104 104	79 79	63 63	55 55	140 144	106 106	81 81	65 65	57 57	128 132	100 100	82 81	66 65	58 57	120 124	97 98	82 81	70 69	59 59	104 106	86 87	76 74		
270	- B BW	141 143	97 97	72 72	59 59	49.9 49.8	140 142	101 101	76 76	61 61	53 53	136 141	103 103	79 78	63 63	55 55	124 129	97 98	80 79	64 64	56 56	117 121	95 96	79 80	68 67	57 57	102 104	84 85	73 73		
280	- B BW	138 140	94 94	71 71	57 57	47.6 47.5	137 139	98 98	74 74	59 59	51 51	133 139	101 101	76 76	61 61	53 53	122 127	95 96	77 77	62 62	54 54	114 119	92 94	78 78	66 65	55 55	99 101	82 83	71 71		
290	- B BW	134 136	91 91	69 69	56 56	44.7 44.7	135 136	96 96	72 72	57 57	49.3 49.2	130 136	98 98	74 74	59 59	51 51	119 124	93 94	75 75	60 60	52 52	111 117	90 92	76 76	64 64	54 53	96 99	80 81	69 70		
300	- B BW	130 132	89 89	67 67	54 54	39.8 39.7	130 132	93 93	70 70	56 56	46.3 46.3	126 133	96 96	72 72	57 57	49.6 49.5	117 122	92 93	73 73	58 58	51 50	108 115	88 90	75 74	62 62	52 52	94 97	78 80	67 68		
310	- B BW	126 129	87 87	65 65	53 52	34.8 34.7	124 127	91 91	68 68	54 54	41.8 41.8	122 128	94 94	70 70	56 56	46.6 46.5	114 120	90 91	71 71	56 56	48.9 48.8	106 113	86 89	73 73	60 60	50 50	92 96	76 78	66 67		
320	- B BW	122 124	85 85	63 63	51 51	29.9 30.2	119 122	89 89	67 67	52 52	37 36.9	117 123	91 91	69 69	54 54	42.6 42.5	111 117	89 90	70 70	55 55	46.2 46.2	103 111	85 87	71 71	58 58	48.7 48.5	91 94	75 77	64 65		
330	- B BW	116 119	83 83	62 62	49.3 49.3	24.9 25.3	113 117	87 87	65 65	51 51	32.2 32.2	111 117	89 89	67 67	53 53	38 37.8	107 112	87 88	68 68	54 54	42.4 42.6	100 108	84 86	69 70	57 57	46.7 46.5	89 92	74 75	63 64		
340	- B BW	110 114	82 82	60 60	48.2 48.2	20.5 20.5	107 112	85 85	64 64	49.4 49.4	27.6 27.5	105 111	88 88	65 65	51 51	33.3 33.2	102 108	86 87	66 66	52 52	38.1 38.1	97 105	82 84	68 68	56 56	42.8 42.7	88 91	73 74	61 63		
350	- B BW		80 80	59 59	47 47	16 16.1	102 106	84 84	62 62	48.3 48.3	22.9 22.8	100 106	86 86	64 64	49.7 49.7	28.7 28.5	97 103	85 86	65 65	51 51	33.8 33.7	93 100	81 83	66 67	54 54	38.5 38.4	85 88	71 73	61 62		
360	- B BW		79 79	58 58	45.9 45.9		96 101	82 82	61 61	47.2 47.2	18.4 18.3	94 100	84 84	63 63	48.5 48.5	24 24.2	91 98	84 85	64 64	49.5 49.5	29.3 29.2	89 96	79 82	65 65	53 53	34.1 34	82 86	70 72	60 61		
370	- B BW			57 57	44.8 44.8			81 81	59 59	46.1 46.1			89 95	83 83	61 61	47.5 47.5	19.5 20	88 94	83 83	62 62	48.3 48.2	24.8 24.8	84 91	77 81	64 64	52 52	29.8 29.8	78 84	69 71	59 60	
380	- B BW			56 56	43.8 43.8			79 79	58 58	45.1 45.1			84 91	81 81	60 60	46.4 46.4	15.3 15.7	83 90	82 82	61 61	47.3 47.3	20.4 20.6	80 87	75 81	63 63	50 50	25.8 25.9	74 82	67 70	58 59	
390	- B BW				42.9 42.9				57 57	44.1 44.1			79 80	59 59	45.4 45.4			77 84	79 81	60 60	46.4 46.4	16.4 16.6	75 83	73 80	62 62	49.4 49.4	22.1 22.1	71 79	66 69	57 58	
400	- B BW				42.1 42.2				56 56	43.2 43.2			75 76	58 58	44.5 44.4				75 80	59 59	45.4 45.4		70 78	71 78	60 60	48.4 48.4	18.3 18.2	67 76	65 69	57 58	
410	- B BW									42.4 42.4				57 57	43.5 43.5				71 77	58 58	44.5 44.5		66 74	68 68	59 59	47.4 47.4		63 72	63 68	57 57	
420	- B BW														42.8 42.7				57 57	43.6 43.6				64 73	58 58	46.4 46.4		59 68	61 67	56 56	
430	- B BW														41.8 42				56 55	42.9 42.8				60 69	58 58	45.5 45.4		55 64	57 65	56 56	
440	- B BW																			42.2 42.2					56 57	44.6 44.6			54 63	54 56	
450	- B BW																			41.6 41.5						43.9 43.8				52 55	
460	- B BW																									43.2 43.1				48.9 55	
470	- B BW																									42.6 42.5				45.7 54	



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.