

Crawler Crane Grue sur chenilles

LR 1350/1

Technical Data
Caractéristiques techniques



LIEBHERR

Table of content

Tables des matières

Technical Data

Caractéristiques technique

Technical description · Description techniques	3 – 4
Dimensions · Encombrement	5 – 9
Winches, Working speeds, Hook blocks Treuils, Vitesses, Moufles à crochet	10
Transportation plan · Plan de transport	11 – 12
Boom/jib combinations · Configurations de flèche	13 – 15
SL	16 – 17
SLD	18 – 19
SLDB/SLDBW	20 – 21
S2	22 – 23
S2D	24 – 25
S2DB/S2DBW	26 – 28
SW	29 – 32
SDWB/SDWBW	33 – 43
SLF	44 – 53
SWF	54 – 59
S3HS	60 – 61
S3DHS	62 – 63
S3DHSB	64 – 65
Description of symbols · Explication des symboles	66
Remarks · Remarques	67

Technical description

Description techniques

Max. capacity	771.600 lbs at 20 ft radius SDB – System with S 157 ft.
Max. load moment	31.012.150 lbs-ft – 588.6 kips at 53 ft radius. S2DB – System with S2 98 ft.

Crawler travel gear

Crawler chassis	Liebherr crawler chassis consisting of one centre section and two crawler carriers with crawler plates 3'11" (optional 4'11").
Travel drive	1 (optionally 2) hydraulic travel drives per crawler carrier, comprising axial piston variable displacement motor, planetary gear with spring-loaded, hydraulically releasable travel brake and tumbler. The crawler chains are controllable synchronously, independently and opposed to one another.
Central ballast	17640 lbs, consisting of 2 slabs 8820 lbs each.

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, water cooled, rated power 270 kW (367 h.p.), max torque 1269 lbs-ft. Fuel tank approx. 291 gallons, exhaust emission according to directive 97/68/EG and EPA/CARB.
Winch I	Standard hoist drum, hydraulically driven by axial-piston swivel pumps with integrated planetary gear.
Winch IV	Boom hoist.
Reeving winch	Auxiliary winch for the reeving of ropes.
Slewing gear	2 slewing gears (3 resp. 5 optional), hydraulic control by axial piston fixed displacement motors and planetary gear with spring-loaded, hydraulically releasable static brake. Wearfree braking function by closed oil circuits.
Crane cabin	Spacious, cabin that can be swivelled sideways and tilted to the rear with operating and control instruments, self-contained warm-water heating, airconditioning.
Crane control	Servo-control with electronic synchronizing device by three four-way control levers and two two-way control levers (joy-stick type). Continuous control of the crane motions by variation of the hydraulic pumps, additionally by variation of the Diesel engine speed.
Safety devices	LICCON safe load indicator, hoist limit switches, electronic inclinometer, safety valves for the prevention of pipe and hose ruptures.
Camera observation	Colour-screens, Cameras for winches and rear area.
Counterweight at superstructure	Base plate 33075 lbs

Boom system

Main boom S2	System 2821 with head section for max. 661400 lbs load capacity. Boom length S2 59 ft – 315 ft. Boom length S2DB 98 ft – 354 ft with derrick system.
Main boom SL	System 2821/2417 with head section for max. 441000 lbs load capacity. Boom length SL 79 ft – 335 ft. Boom length SLD 98 ft – 394 ft with derrick system.
Lattice type luffing fly jib W	System 2417 with head section for max. 441000 lbs load capacity. Luffing jib lengths 79 ft – 295 ft. Winch V is needed for all luffing jib operations.
Wind plant jib HS	Auxiliary jib 198500 lbs / 15 ft for erection of wind power plants. Mounting to various SL-booms.
Fixed lattice jib F	System 1109 with head section for max. 132300 lbs load capacity. Fixed lattice jib 39 ft – 118 ft.
Derrick system D	System 2417 including guy rods. Winch III is needed for all derrick operations.
Counterweight frame B	For max. derrick counterweight of 463000 lbs at max. radius of 49 ft, for infinitely variable radius from 29 ft – 49 ft.
Counterweight trailer BW	For max. derrick counterweight of 463000 lbs at max. radius of 49 ft, infinitely variable radii from 36 ft – 49 ft.

Additional equipment

Winch II	Second hoist winch.
Winch III	Reeving main boom / Derrick operation.
Winch V	Luffing for W-jib configuration.
Ballast	Central ballast 84000 lbs, additionally 4 slabs of 16500 lbs each. Superstructure ballast 276000 lbs, additionally 4 slabs of 11025 lbs each and 2 slabs of 22050 lbs each. Suspended ballast B 452000 lbs – 9 slabs of 11025 lbs each and 16 slabs of 22050 lbs for a total of 463000 lbs derrick ballast. Ballast trailer BW 419000 lbs – 10 slabs of 11025 lbs and 14 slabs of 22050 lbs for a total of 463000 lbs derrick ballast.
Mechanical outriggers	For erection of long boom combinations without derrick-counterweight.
Hydraulic assembly jacks	Lifting of the basic machine for assembly/disassembly.
Hydraulic mounting ram	For the self-erection of the basic machine and winches.
Hydraulic ballasting device	For lifting/depositing the counterweight of the superstructure.
Boomnose 70500 lbs (53000 lbs)	For attaching to the S or SL, W, WV head.

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

Technical description Description techniques

Capacité max.	771.600 lbs pour une portée de 20 ft. Système SDB avec S 157 ft.
Couple de charge max.	31.012.150 lbs-ft – 588.6 kips pour une portée de 53 ft. Système S2DB avec S2 98 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 3'11" (en option 4'11").
Transmission	1 transmission hydraulique (2 en option) par support de chenilles, comprenant chacune un moteur à pistons axiaux à cylindrée variable, un train planétaire avec frein à ressort et purge hydraulique et des barbotins. Les chaînes peuvent être commandées synchroniquement, indépendamment l'une de l'autre et en sens inverse l'une par rapport à l'autre.
Contrepoids central	17640 lbs, comprenant 2 plaques de 8820 lbs.

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, refroidissement par eau, puissance 270 kW (367 ch), couple de rotation max. 1269 lbs-ft. Réservoir de carburant: env. 291 gallons. Emissions polluantes conformes aux normes 97/68/EG et EPA/CARB.
Treuil I	Treuil de levage standard, il est entraîné hydrauliquement par des pompes à débit variable à pistons axiaux avec réducteur planétaire intégré.
Treuil IV	Mécanisme de relevage.
Treuil de mouflage	Treuil auxiliaire pour le mouflage des câbles.
Mécanisme d'orientation	2 mécanismes d'orientation (3 resp. 5 en option), à entraînement hydraulique via un moteur à pistons axiaux et un train planétaire avec frein à ressort et piloté hydrauliquement. Frein quasi-inusable via des circuits hydrauliques fermés.
Cabine du grutier	Cabine spacieuse, pivotable latéralement et inclinable vers l'arrière, dotée de tous les éléments de commande et de contrôle et d'un système de chauffage par eau chaude indépendant du moteur, climatisation.
Commande de la grue	Servo-commande avec dispositif de synchronisation électronique, via 4 manipulateurs en croix et 3 manipulateurs à deux positions. Commande des mouvements de la grue en continu, par régulation du débit des pompes et du régime du moteur Diesel.
Dispositifs de sécurité	Contrôleur de charges »LICCON«, fin de course de levage, affichage électronique de l'inclinaison, clapets de sécurité contre la rupture de tuyaux et flexibles, anémomètre.
Contrôle vidéo	Écrans couleur, Caméras pour la zone de treuils et la partie arrière.
Contrepoids - tourelle	Plaque de base 33075 lbs

Système de flèche

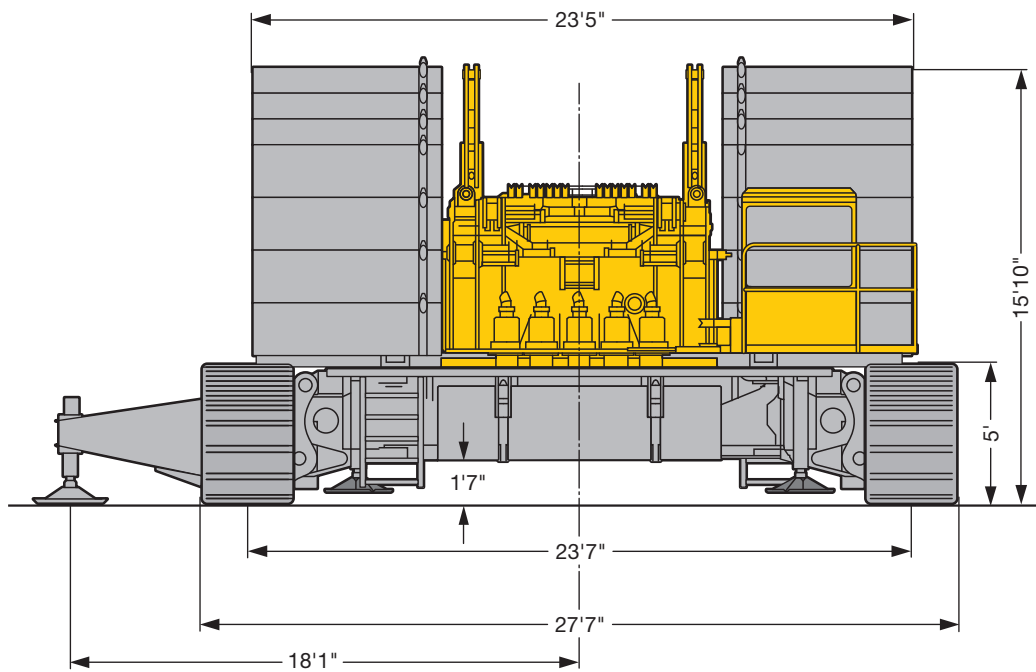
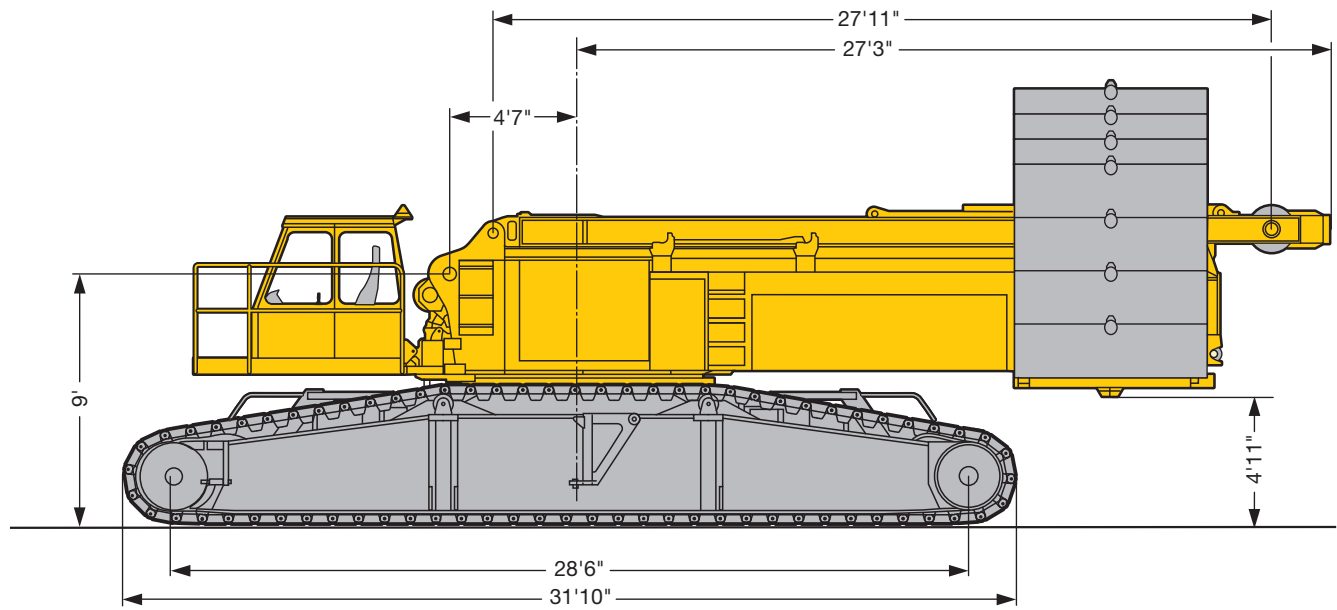
Flèche principale S2	Système 2821 avec élément de tête pour une capacité max. de 661400 lbs. Longueur de la flèche S2 59 ft – 315 ft. Longueur de la flèche S2DB 98 ft – 354 ft avec système derrick.
Flèche principale SL	Système 2821/2417 avec élément de tête pour une capacité max. de 441000 lbs. Longueur de la flèche SL 79 ft – 335 ft. Longueur de la flèche SLD 98 ft – 394 ft avec système derrick.
Fléchette treillis à volée variable W	Système 2417 avec élément de tête pour une capacité max. de 441000 lbs. Longueurs de flèche treillis 79 ft – 295 ft. Le treuil V est nécessaire pour fonctionnement fléchette treillis.
Fléchette éolien HS	Fléchette auxiliaire 198500 lbs / 15 ft pour éolien. Montage de différentes flèches SL.
Fléchette à treillis fixe F	Système 1109 avec élément de tête pour une capacité max. de 132300 lbs. Fléchette à treillis fixe 39 ft – 118 ft.
Système derrick D	Le système 2417 comprend des tirants. Le treuil III est nécessaire au mode derrick.
Palette de lest B	Pour un contrepoids derrick max. de 463000 lbs t pour un rayon max. de 49 ft et rayons variables progressivement de 29 ft – 49 ft.
Remorque à contrepoids BW	Pour un contrepoids derrick max. de 463000 lbs pour un rayon max. de 49 ft, pour des rayons variables progressivement de 36 ft – 49 ft.

Équipement additionnel

Treuil II	2. treuil de levage.
Treuil III	Réglage flèche principale/mode derrick.
Treuil V	Réglage fléchette treillis à volée variable.
Contrepoids	Contrepoids central de 84000 lbs et 4 plaques de 16500 lbs. Contrepoids de la partie tournante de 276000 lbs et 4 plaques de 11025 lbs et 2 plaques de 22050 lbs. Contrepoids suspendu B de 452000 lbs – 9 plaques de 11025 lbs et 16 plaques de 22050 lbs pour un contrepoids Derrick total de 463000 lbs. Chariot support de contrepoids BW de 419000 lbs – 10 plaques de 11025 lbs et 14 plaques de 22050 lbs pour un contrepoids Derrick total de 463000 lbs.
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.
Vérin de montage hydraulique	Pour le montage autonome de la machine de base et des treuils.
Dispositif de lestage hydraulique	Pour lever/déposer le contrepoids de la tourelle.
Poulies en extrémité de mât 70500 lbs (53000 lbs)	Pour le montage sur la tête S ou SL, W, WV.

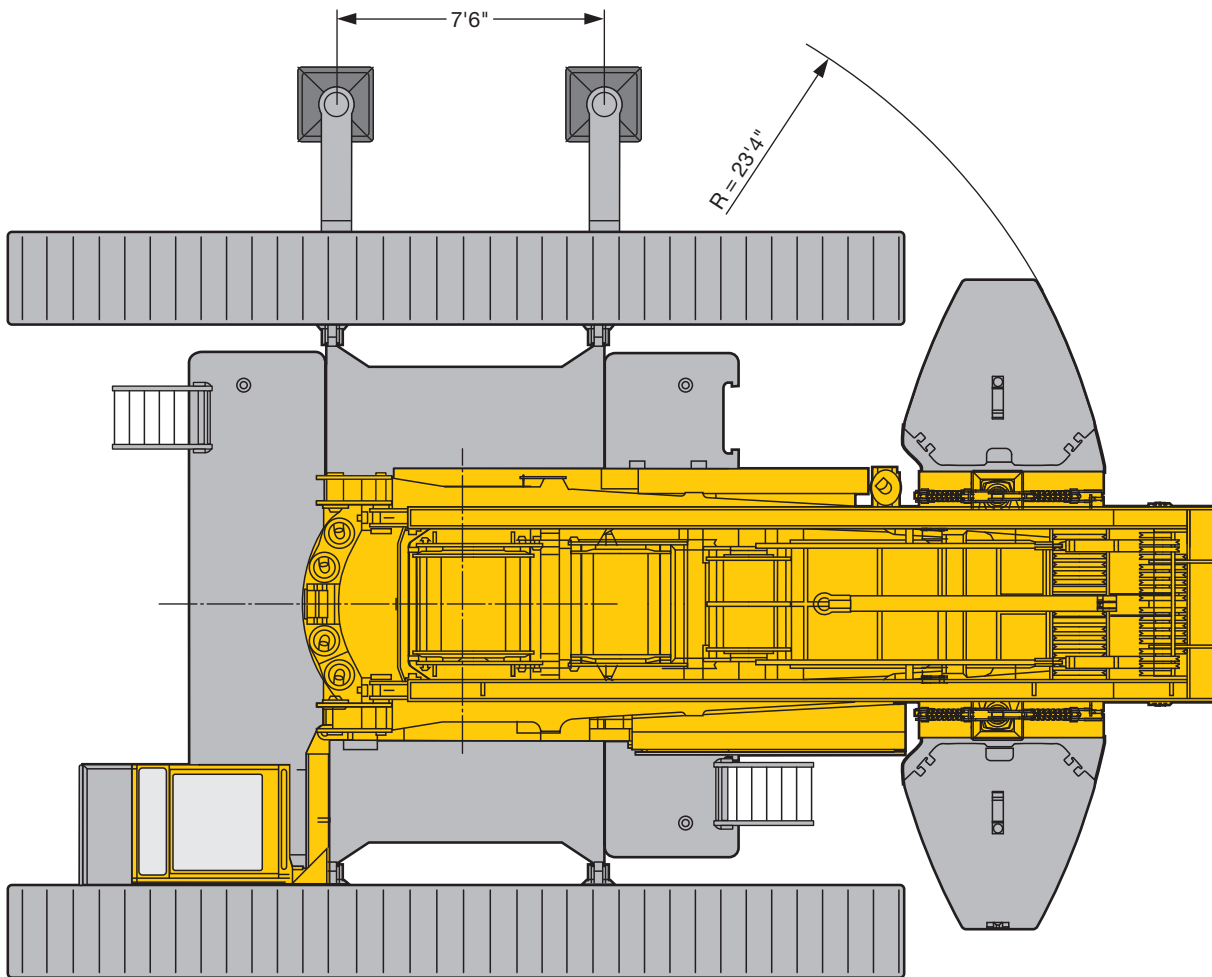
D'autres équipements additionnels sont disponibles sur demande. Les équipements de série et les options correspondent à la liste de prix actuelle.

Dimensions Encombrement



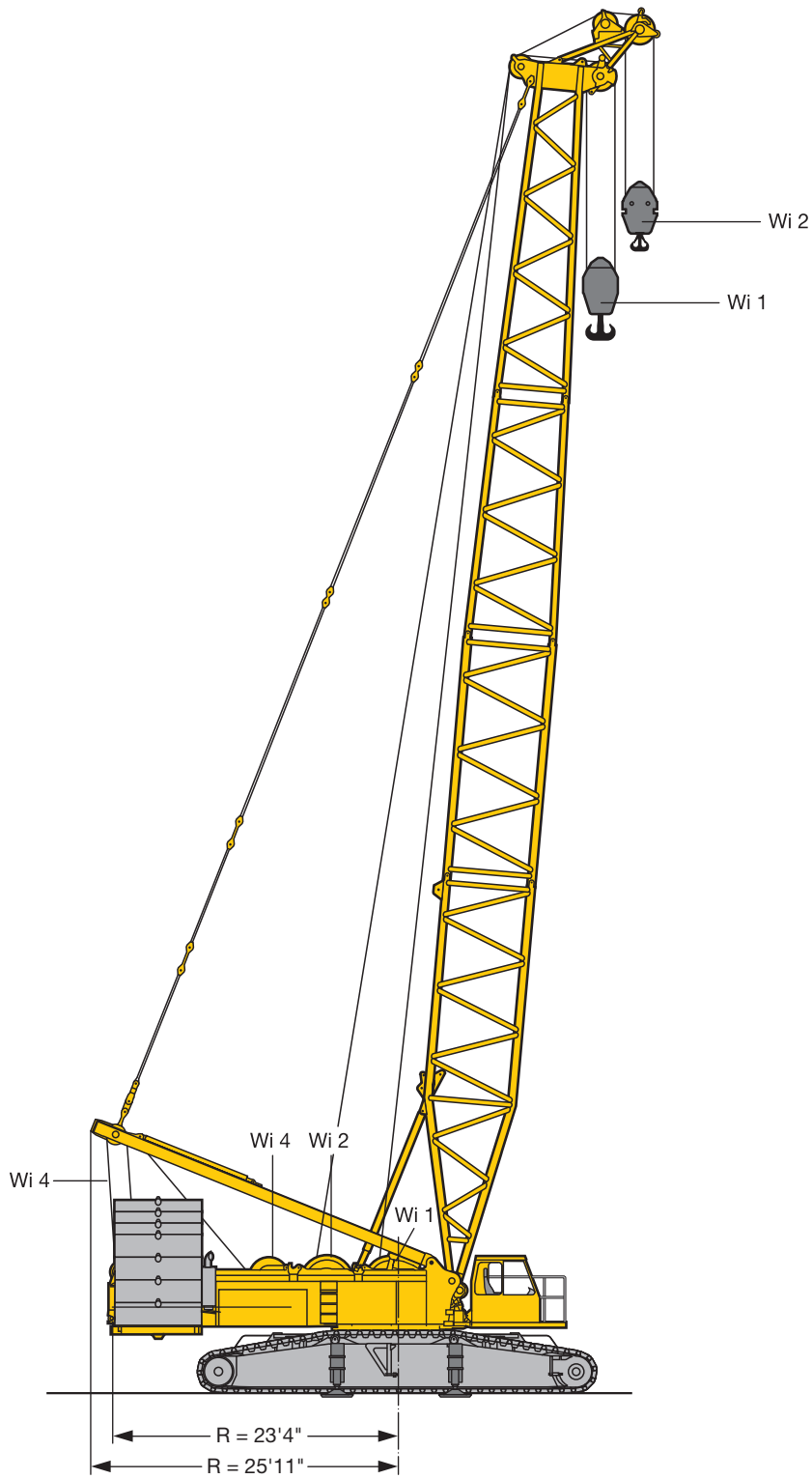
US2022

Dimensions Encombrement



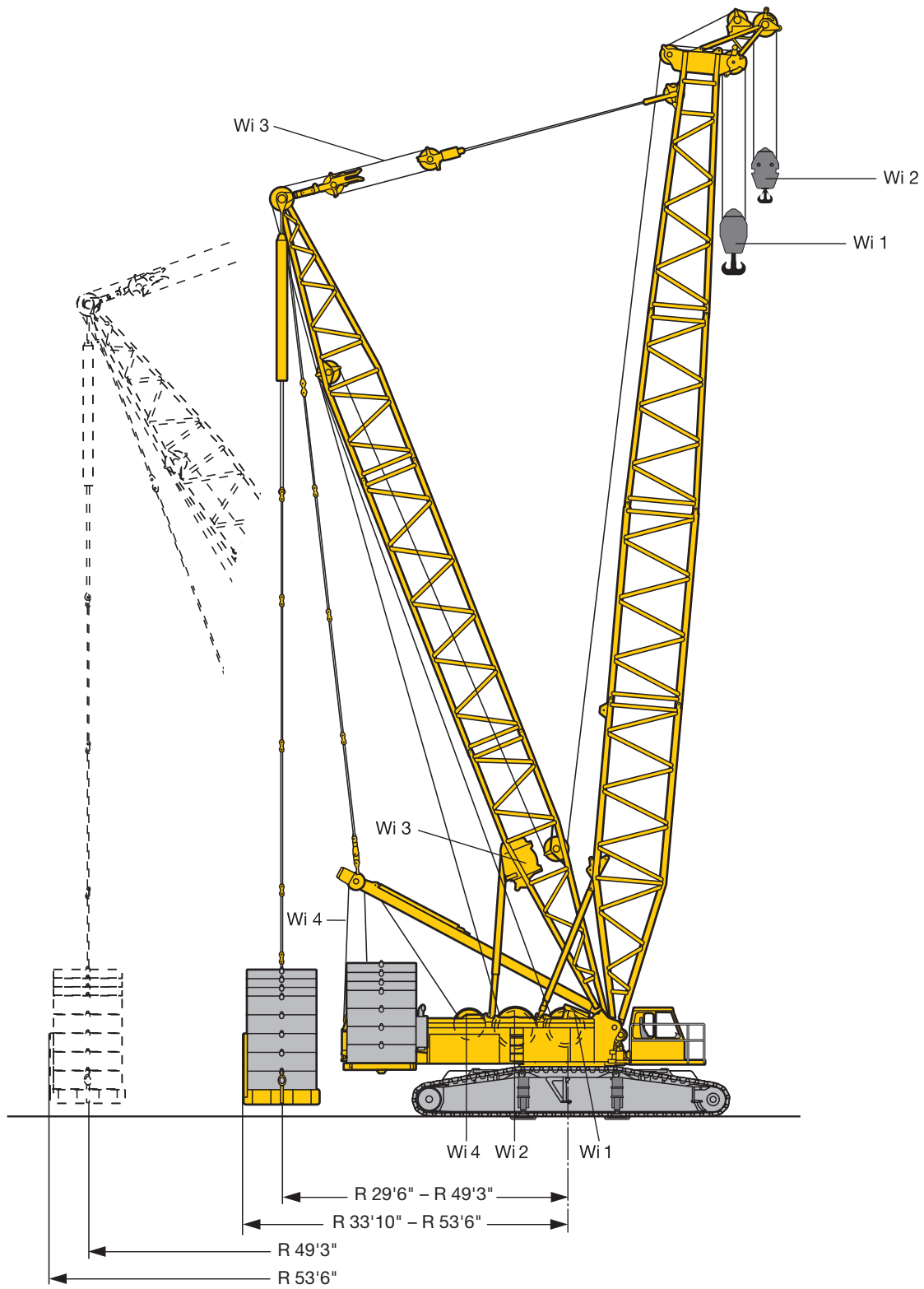
US2785

Dimensions Encombrement



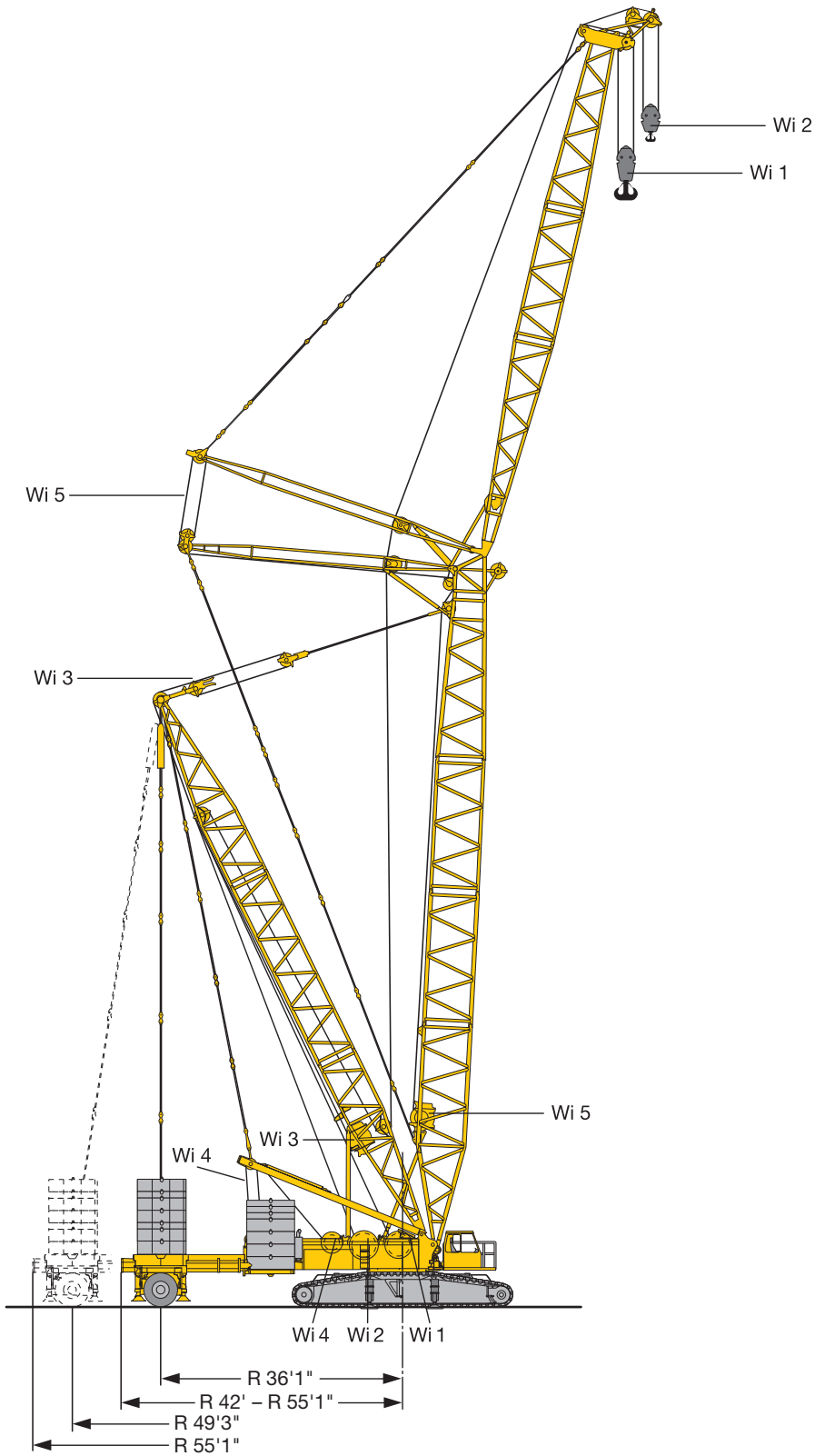
US2023.01

Dimensions Encombrement








US2024.01

Dimensions Encombremment



US2025.01

Winches Treuils

Drive Mécanismes	Working speeds Vitesses	Max. single line pull Effort au brin maxi.	Rope diameter / length Diamètre / Longueur du câble
	0 – 525 ft/min	36000 lbs	1'11" / 3280 ft
	0 – 525 ft/min	28325 lbs	0.98" / 1969 ft
	0 – 525 ft/min		
	2 x 0 – 262 ft/min		
	0 – 525 ft/min		

Working speeds Vitesses

	Slewing speeds · Vitesses d'orientation	0 - 1.85 rpm
	Travel speeds · Vitesses de translation	0 - 1 mph

Hook blocks Moufles à crochet

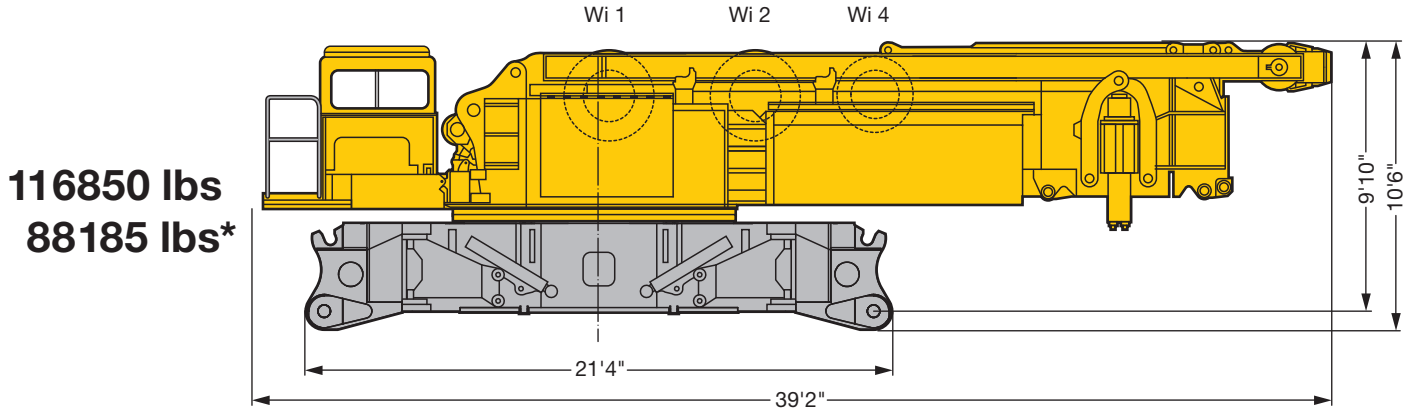


Load (kips) Forces de levage (kips)		No. of sheaves Poulies	No. of lines Brins	Weight (lbs) Poids (lbs)
*	**			
661	520	11	22	10141/12346/14550/16755
474	373	7	15	7055/9259/11464
236	185	3	7	3307/5512/7716
104	82	1	3	2205/4409
35	26	–	1	2425

* winch / treuil 1 (1.1") / ** winch / treuil 2 (1")

Transportation plan Plan de transport

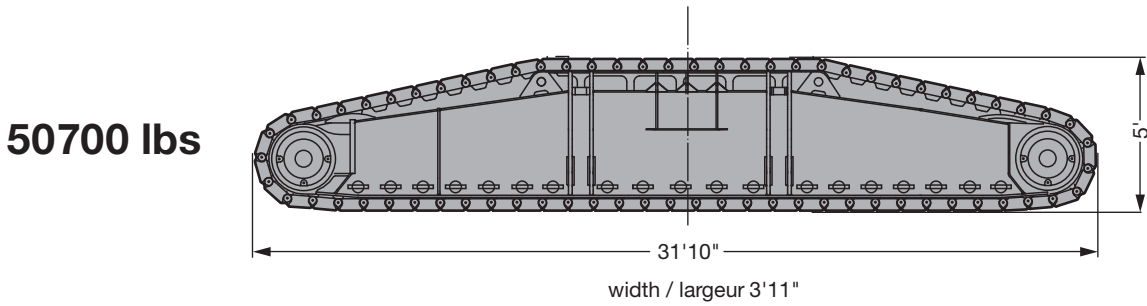
Superstructure with winch 1, 2 and 4 and crawler center section, assembly jacks and ballasting device
Partie tournante avec treuil 1, 2 et 4 et partie centrale du porteur, vérins de montage et dispositif de lestage



* without winch 1 and 2, without ballasting device
sans treuil 1 et 2, sans dispositif de lestage

width / largeur 9'10"

Crawler with track pads 3'11"
Chenille avec pains de chenille de 3'11"

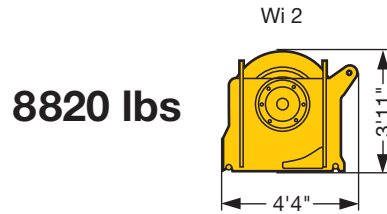
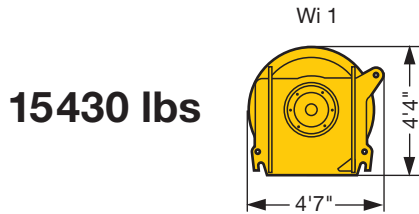


Winch 1 incl. rops
Treuil 1 incl. câble

Ø 1.1"

Winch 2 incl. rops
Treuil 2 incl. câble

Ø 1"



Wi = winch / treuil

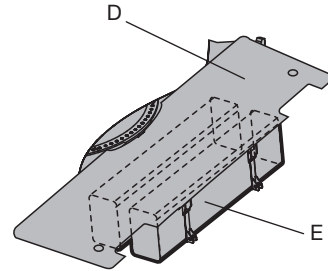
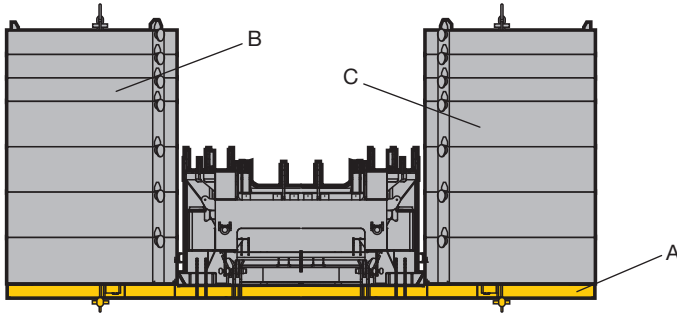
width / largeur 5'3"

US2031.01

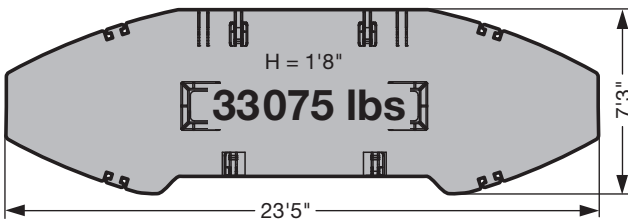
Transportation plan Plan de transport

CWT at superstructure 276000 lbs
Contrepoids tourelle 276000 lbs

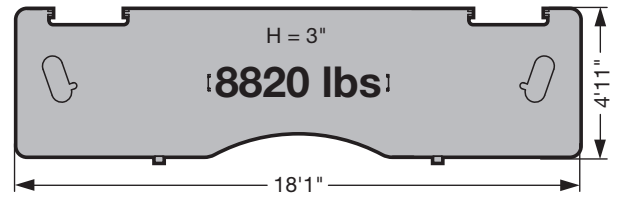
Central CWT 84000 lbs
Lest central 84000 lbs



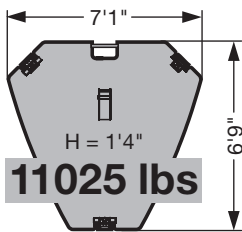
Part A / Parte A



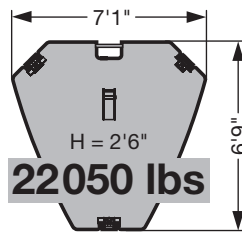
Part D / Parte D



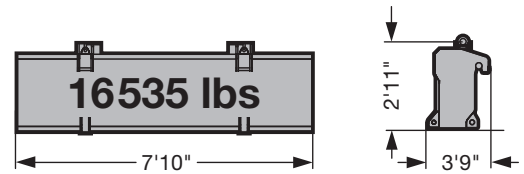
Part B / Parte B



Part C / Parte C



Part E / Parte E



US2032.01

	Teil A · Part A Partie A · Parte A Pieza A · Часть A à 33075 lbs	Teil B · Part B Partie B · Parte B Pieza B · Часть B à 11025 lbs	Teil C · Part C Partie C · Parte C Pieza C · Часть C à 22050 lbs
187000 lbs	1 x	2 x	6 x
231000 lbs	1 x	6 x	6 x
276000 lbs	1 x	6 x	8 x

	Teil D · Part D Partie D · Parte D Pieza D · Часть D à 8820 lbs	Teil E · Part E Partie E · Parte E Pieza E · Часть E à 16535 lbs
17640 lbs	2 x	-
84000 lbs	2 x	4 x

Boom/jib combinations Configurations de flèche

S Main boom, heavy
Flèche principale, lourde

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

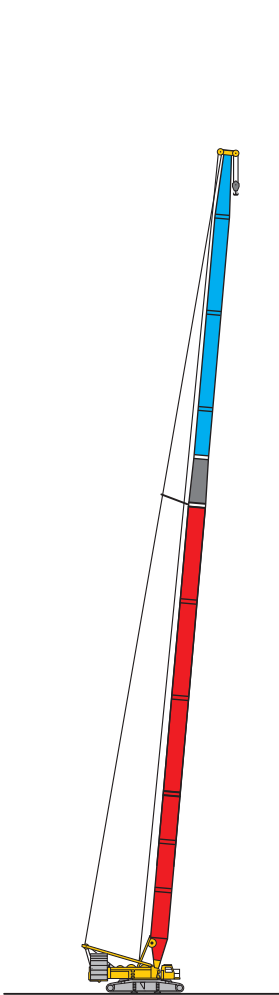
W Luffing jib, heavy
Fléchette, lourde

D Derrick
Flèche derrick

B Suspended ballast
Lest suspendu

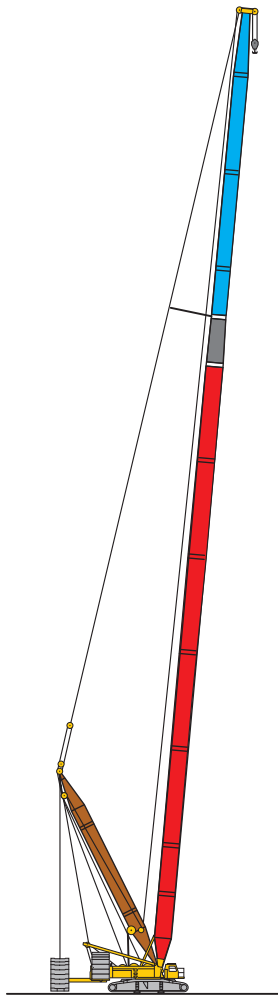
BW Ballast trailer
Porteur de lest

F Lattice fly jib
Fléchette treillis fixe



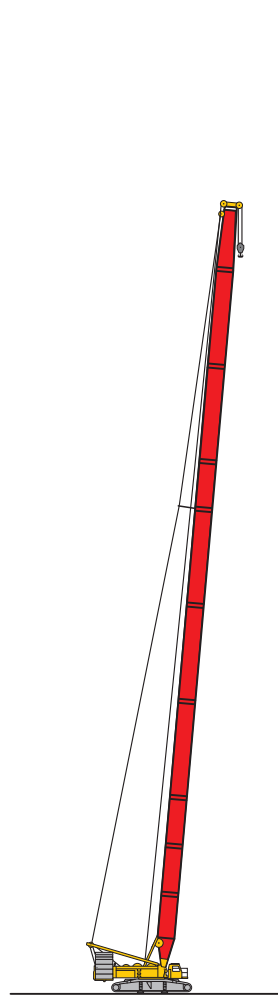
SL
SL 79 ft - 335 ft

16 - 17



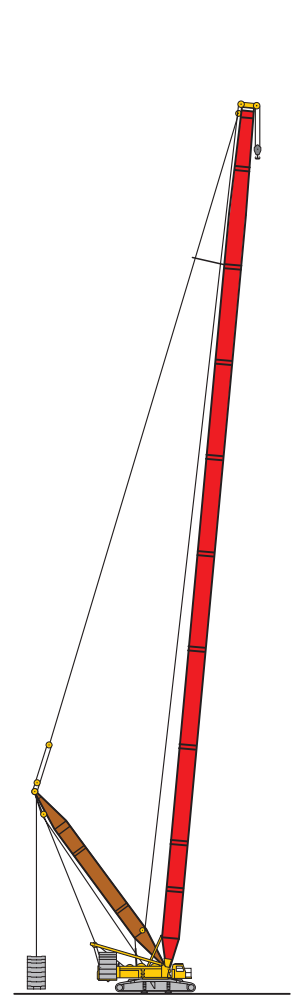
SLD, SLDB/BW
SL 98 ft - 394 ft
D 89 ft

18 - 21



S2
S 59 ft - 315 ft

22 - 23

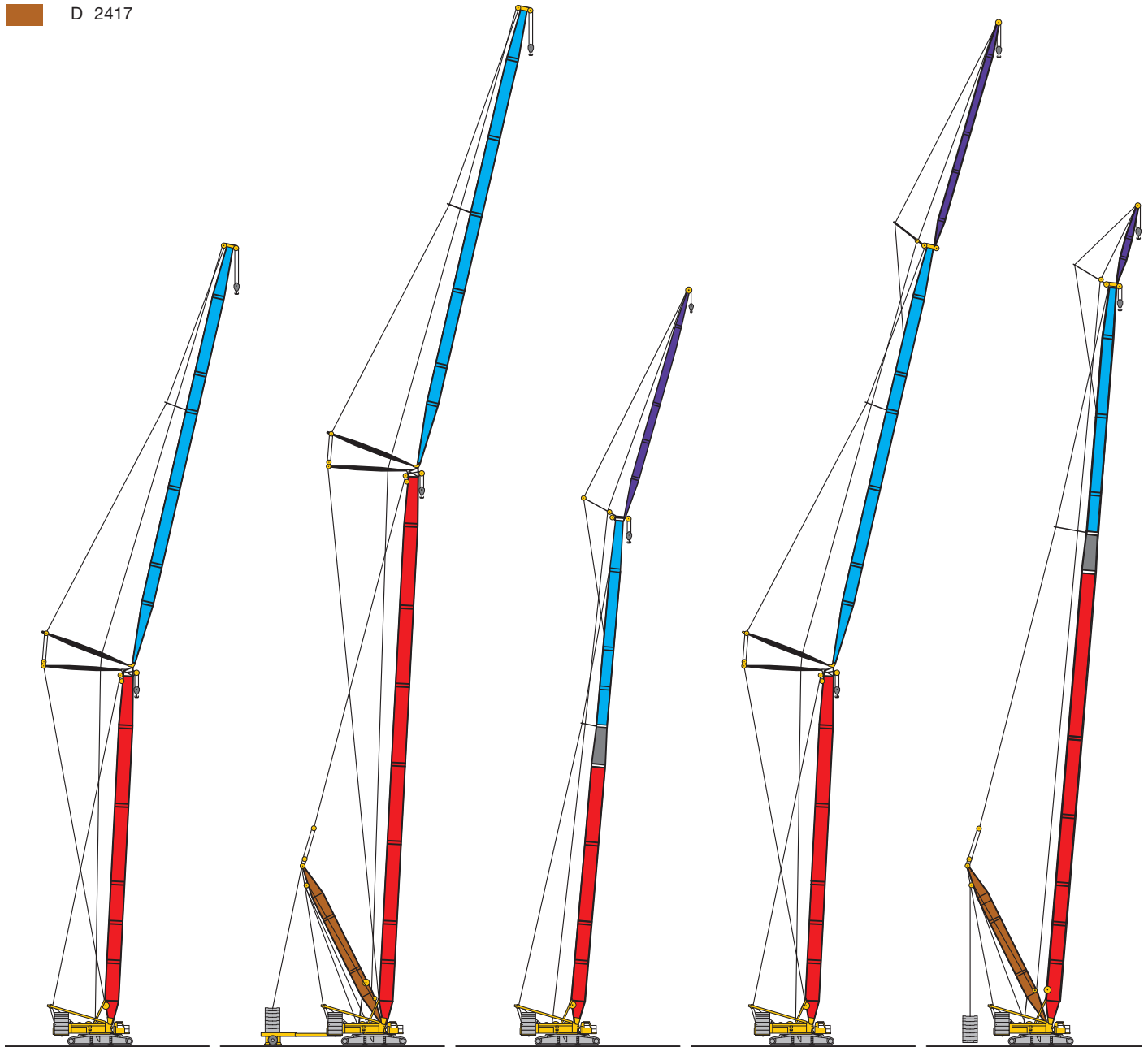


S2D, S2DB/BW
S 98 ft - 354 ft
D 89 ft

24 - 28

Boom/jib combinations Configurations de flèche

- S 2821
- LI 2417
- F 1109
- D 2417
- S 661400 lbs
- L 441000 lbs
- F 132300 lbs



SW
S 79 ft - 197 ft
W 79 ft - 295 ft

29 - 32

SDWB/BW
S 98 ft - 276 ft
W 79 ft - 295 ft
D 89 ft

33 - 43

SLF
SLF 118 ft - 315 ft
F 39 ft - 118 ft

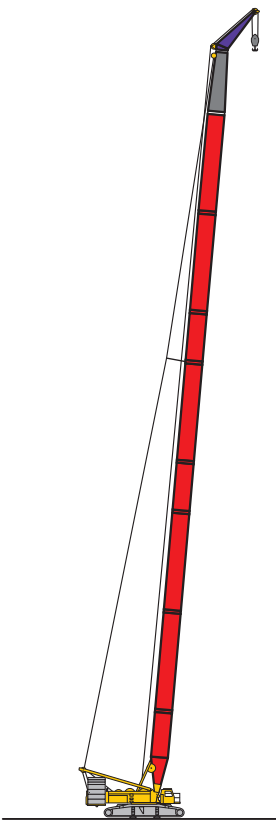
44 - 53

SWF
S 157 ft - 197 ft
W 138 ft - 256 ft
F 39 ft - 118 ft

54 - 59

SLDFB/BW
on request
sur demand

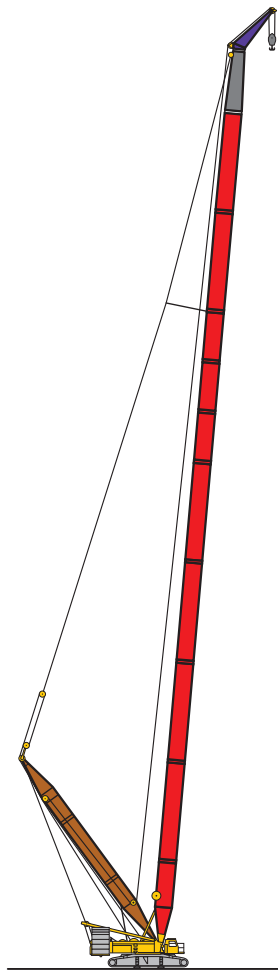
Boom/jib combinations
Configurations de flèche



S3HS

S 236 ft - 295 ft
HS 15 ft

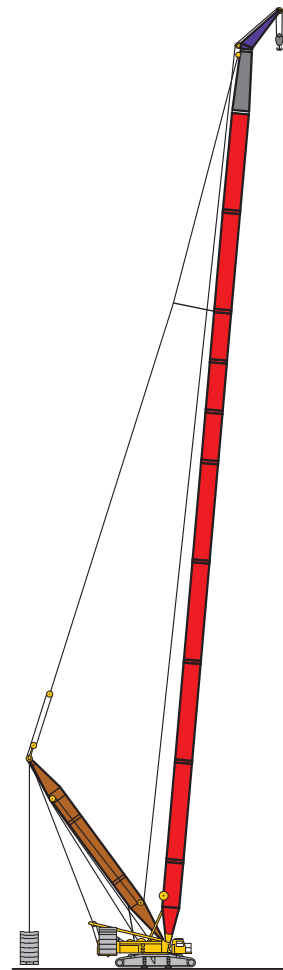
 60 - 61



S3DHS

S 276 ft - 354 ft
HS 15 ft
D 89 ft

 62 - 63

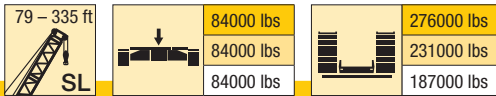


S3DHSB

S 276 ft - 354 ft
HS 15 ft
D 89 ft

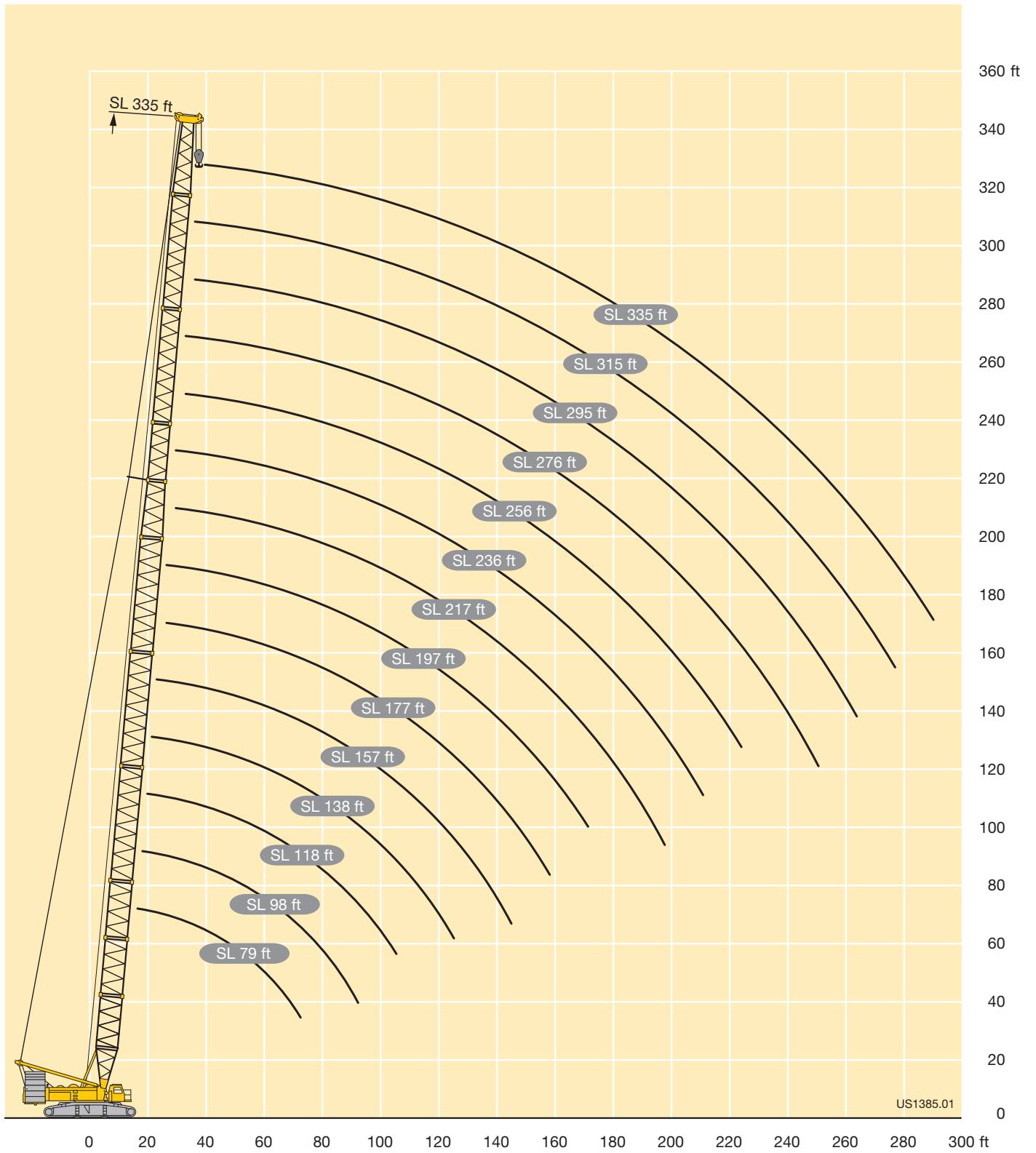
 64 - 65

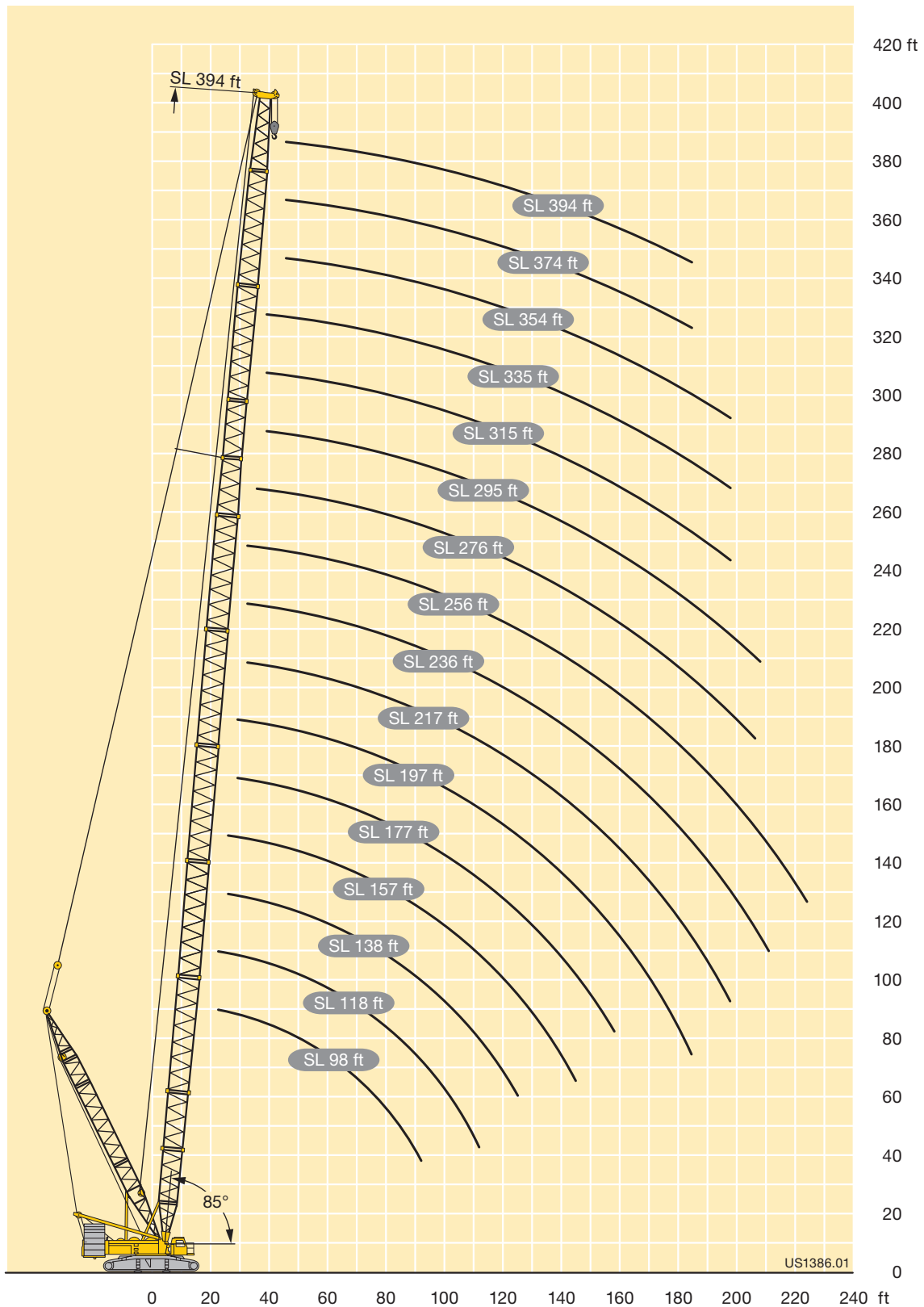
US2033.01

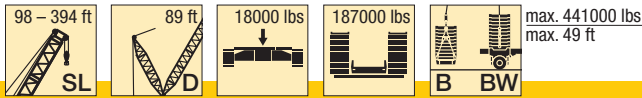


ft	SL 79 - 335														ft
	79	98	118	138	157	177	197	217	236	256	276	295	315	335	
16	441														16
17	441														17
18	441	441													18
19	441	441													19
20	441	441	441												20
21	441	441	441	441											21
22	441	441	441	440											22
23	441	441	441	438	419										23
24	441	441	440	429	408										24
26	441	441	439	411	386	363	318								26
28	441	425	410	383	360	347	315								28
30	433	404	378	355	361	330	311	267	253						30
32	400	375	352	363	344	315	308	262	248	212	184				32
34	369	349	329	350	327	300	298	257	243	210	182				34
36	337	326	308	329	310	285	285	253	239	207	179	168	151		36
38	312	306	290	311	294	271	271	249	235	204	177	166	149		38
40	288	288	310	294	279	259	257	243	229	201	174	164	147	137	40
45	243	264	271	259	245	230	229	220	210	195	167	159	143	133	45
50	209	236	235	230	217	203	206	198	190	182	160	155	139	130	50
55	183	206	206	204	196	181	186	180	173	168	153	150	134	127	55
60	162	183	182	181	179	163	169	164	157	153	145	143	130	124	60
65	145	164	163	162	161	151	155	150	145	141	136	131	124	121	65
70	132	149	148	146	146	140	143	139	133	130	126	121	117	113	70
75		136	135	133	133	130	131	128	124	120	116	112	109	105	75
80		125	124	122	121	120	120	119	115	112	108	104	101	97.2	80
85		115	114	112	112	110	110	110	107	104	101	97.3	94.4	90.5	85
90		107	106	104	103	102	102	101	99.8	97.6	94.4	91	88.3	84.5	90
95			98.6	97	96	94.9	94.7	94	92.8	91.5	88.5	85.2	82.6	79	95
100			92.1	90.5	89.5	88.4	88.1	87.3	86.1	85.7	83.1	79.9	77.5	74	100
105				84.7	83.6	82.5	82.2	81.4	80.1	79.8	78.1	75.1	72.7	69.4	105
110				79.6	78.5	77.1	77.1	76.2	75	74.6	73.6	70.8	68.5	65.2	110
115				75.1	73.9	72.5	72.4	71.5	70.3	69.9	69.1	66.7	64.5	61.3	115
120				70.9	69.7	68.5	68.1	67.2	65.9	65.6	64.8	63	60.8	57.7	120
125					65.8	64.6	64.2	63.3	62	61.6	60.8	59.4	57.4	54.4	125
130					62.4	61.1	60.7	59.7	58.4	58	57.2	56	54.2	51.3	130
135					59.4	58.1	57.6	56.6	55.3	54.8	54	52.9	51.4	48.5	135
140					56.5	55.1	54.6	53.6	52.3	51.8	51	49.9	48.6	45.8	140
150						49.9	49.3	48.2	46.9	46.4	45.5	44.4	43.5	40.8	150
160							44.7	43.6	42.2	41.6	40.8	39.6	38.8	36.4	160
170							40.8	39.5	38.2	37.5	36.7	35.5	34.5	32.5	170
180								36.1	34.7	34	33.1	31.7	30.7	28.8	180
190								33.1	31.6	30.8	29.8	28.3	27.3	25.4	190
200									28.9	27.8	26.8	25.3	24.2	22.4	200
210										25.1	24.1	22.5	21.4	19.6	210
220										22.8	21.7	20.1	19	17.2	220
230											18.9	17.9	16.8	15	230
240											15.9	15.9	14.7	13	240
250												14.1	12.8	11.1	250
260												12.5	11.1	9.4	260
270													8.9	7.9	270
280														6.4	280

TAB 136010 / 136011 / 136012



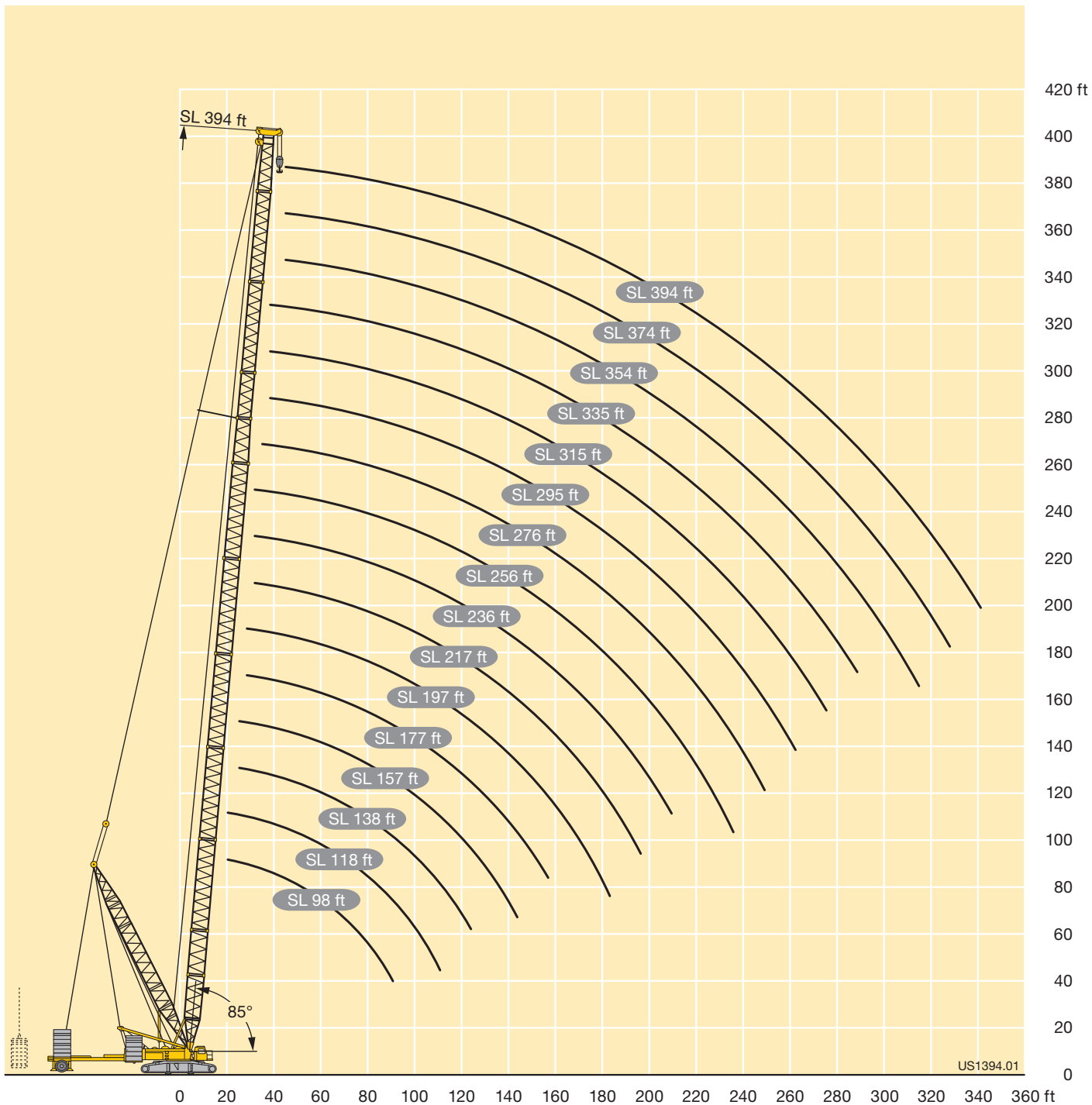


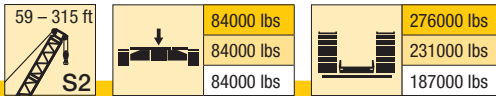


ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft	394 ft	ft
23	441	441															23
24	441	441															24
26	441	441	441	423													26
28	441	441	441	423													28
30	441	441	441	422	396	350											30
32	441	441	441	422	396	351	320	281	247								32
34	441	441	441	422	396	351	321	283	246								34
36	441	441	441	422	397	351	321	283	245	221							36
38	441	441	441	422	397	351	321	283	242	220							38
40	441	441	441	424	397	350	321	283	240	218	188	174	150				40
45	441	441	441*	423	396	350	321	282	237	215	187	171	150	132	119	110	45
50	441	441	441	423	396	350	322	277	233	211	183	168	149	132	117	109	50
55	436	441	441	423	395	350	318	275	229	208	179	167	148	132	115	108	55
60	436	440	441	423	395	348	312	271	224	206	174	165	146	132	113	107	60
65	407	433	440	423	395	340	301	267	221	204	170	162	145	130	112	106	65
70	374	402	417	406	393	327	290	263	216	202	167	160	143	130	111	105	70
75	343	370	387	384	380	315	279	260	211	199	164	158	140	129	109	104	75
80	313	342	357	359	358	302	267	255	206	197	161	156	138	128	108	103	80
85	284	317	334	332	334	289	255	253	201	195	160	153	135	126	106	102	85
90	252	295	312	313	313	276	243	251	196	193	158	151	134	124	103	100	90
95		274	292	297	294	263	231	248	192	191	156	148	133	121	100	98	95
100		254	272	282	276	250	220	243	188	188	155	146	133	119	98.5	96	100
105		233	254	268	260	238	209	237	183	186	153	143	132	117	96	93.5	105
110		211	237	251	245	226	198	233	180	183	151	142	131	115	93.5	91	110
115			222	237	232	215	189	228	176	181	148	139	130	113	91.5	89	115
120			206	224	219	204	180	222	173	178	146	137	129	111	90	87.5	120
125				211	207	194	172	214	170	176	144	135	125	109	88	86	125
130				199	198	185	164	205	166	173	142	133	122	107	86.5	84	130
135				188	189	177	157	197	163	170	140	131	120	106	84.5	82.5	135
140				176	181	168	150	189	161	167	138	129	117	104	83	81	140
150					165	152	136	173	156	160	133	125	112	101	79.5	77.5	150
160						138	123	159	152	152	128	121	108	97.5	76.5	74	160
170						124	112	145	145	143	122	117	104	95	73.5	71	170
180						109	101	134	135	132	115	114	101	91.5	70.5	68	180
190							90.5	122	125	121	108	108	97.5	89	68	65.5	190
200								107	115	111	99.5	102	94	86.5	65.5	63	200
210									105	100	90.5	97	90	84	63.5	60.5	210
220									96	86	79.5	90	86	81.5	61.5	58.9	220
230									88.5	72	67	85.5	82.5	80	59.6	57.3	230
240										57.8	54.6	81.5	78.5	77.5	58.3	55.9	240
250											42.7	77.5	73	74.5	57.2	55	250
260											31.3	72.5	64.5	70.5	56.2	53.3	260
270												67	55.5	66.5	55.3	51.6	270
280													48.5	62.5	54.3	50	280
290														58.9	53.4	47.9	290
300														55.2	52.4	42.8	300
310														51.5	50	37.8	310
320															47	32.7	320
330																27.7	330
340																22.7	340

* maximum load moment / couple de charge maximum

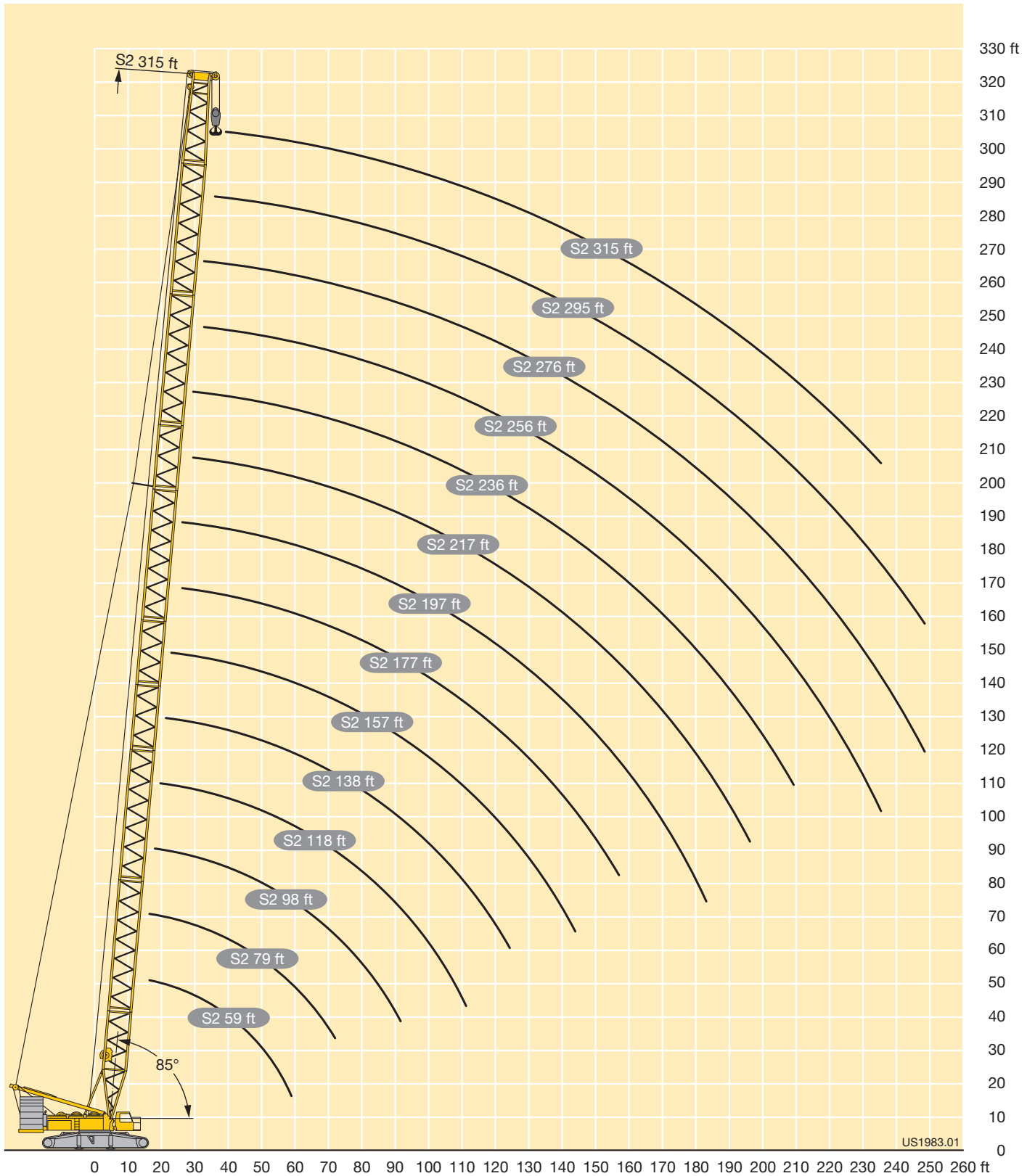
TAB 136025 / 136026 / 136027 / 136124 / 136128 / 136129 / 136130

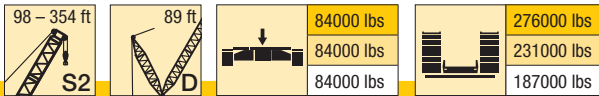




		S2 59 - 315															
ft		59	79	98	118	138	157	177	197	217	236	256	276	295	315	ft	
16		661	661														16
17		661	661														17
18		661	661	661													18
19		652	650	661	600												19
20		635	631	650	590												20
21		607	609	612	557	567											21
22		581	594	578	528	549	487										22
23		562	577	546	548	522	486										23
24		546	555	521	529	501	467										24
26		514	509	470	490	458	429	398	376								26
28		481	466	431	452	424	399	375	355	318	303						28
30		445	425	446	417	392	370	349	331	314	299						30
32		403	409	413	388	366	346	327	311	295	282	261	251				32
34		366	394	384	362	342	325	307	293	279	267	253	243				34
36		364	368	358	338	320	305	289	276	263	252	240	231	219			36
38		342	344	337	319	302	288	274	262	250	240	228	219	210	194		38
40		321	320	317	300	286	273	259	249	237	228	217	209	200	192		40
45		270	269	268	263	251	240	229	220	210	203	193	187	178	171		45
50		232	232	230	229	223	214	204	197	188	182	174	168	161	154		50
55		203	202	201	200	198	192	184	177	170	164	157	152	145	140		55
60			179	177	176	175	173	166	160	154	149	142	138	132	127		60
65			160	158	157	156	155	151	146	140	136	130	126	120	116		65
70			145	143	142	141	140	138	134	129	125	119	115	110	106		70
75				130	129	128	127	125	124	118	115	110	106	102	97.6		75
80				119	118	116	115	114	114	109	106	101	98	93.5	89.8		80
85				110	108	107	106	104	104	101	98.2	93.4	90.7	86.3	82.8		85
90				102	99.9	98.6	97.6	96	95.5	93.8	91.3	86.8	84.2	80	76.7		90
95					92.7	91.3	90.2	88.7	88.1	86.7	85.1	80.7	78.2	74.3	71.1		95
100					86.3	84.8	83.7	82.1	81.5	80.1	79.2	75.1	72.8	69	65.9		100
105					80.6	79	77.8	76.2	75.6	74.1	73.6	70	67.8	64.1	61.1		105
110					75.7	74	72.8	71.1	70.4	68.9	68.4	65.4	63.3	59.8	56.9		110
115						69.5	68.1	66.4	65.7	64.2	63.7	61.2	59.2	55.7	52.9		115
120						65.3	63.9	62.2	61.5	59.9	59.3	57.3	55.4	51.9	49.2		120
125							60.1	58.3	57.5	56	55.3	53.6	51.8	48.4	45.8		125
130							56.6	54.8	54	52.5	51.8	50	48.5	45.2	42.6		130
135							53.6	51.8	50.9	49.3	48.7	46.9	45.6	42.3	39.8		135
140							50.8	48.8	48	46.4	45.6	43.8	42.8	39.5	37		140
150								43.7	42.7	41	40.2	38.2	37.4	34.5	32		150
160									38.1	36.3	35.3	33.2	32.4	30	27.5		160
170									34.1	32.1	31	28.8	27.9	26	23.6		170
180									30.6	28.5	27.3	25.1	24.2	22.2	20.2		180
190										25.3	24	21.8	20.8	18.8	17		190
200											21	18.8	17.8	15.8	14.2		200
210												16.1	15	13	11.4		210
220												13.9	12.7	10.7	9		220
230												11.9	10.5	8.5	6.8		230
240													8.6	6.5			240

TAB 173031 / 173032 / 173033

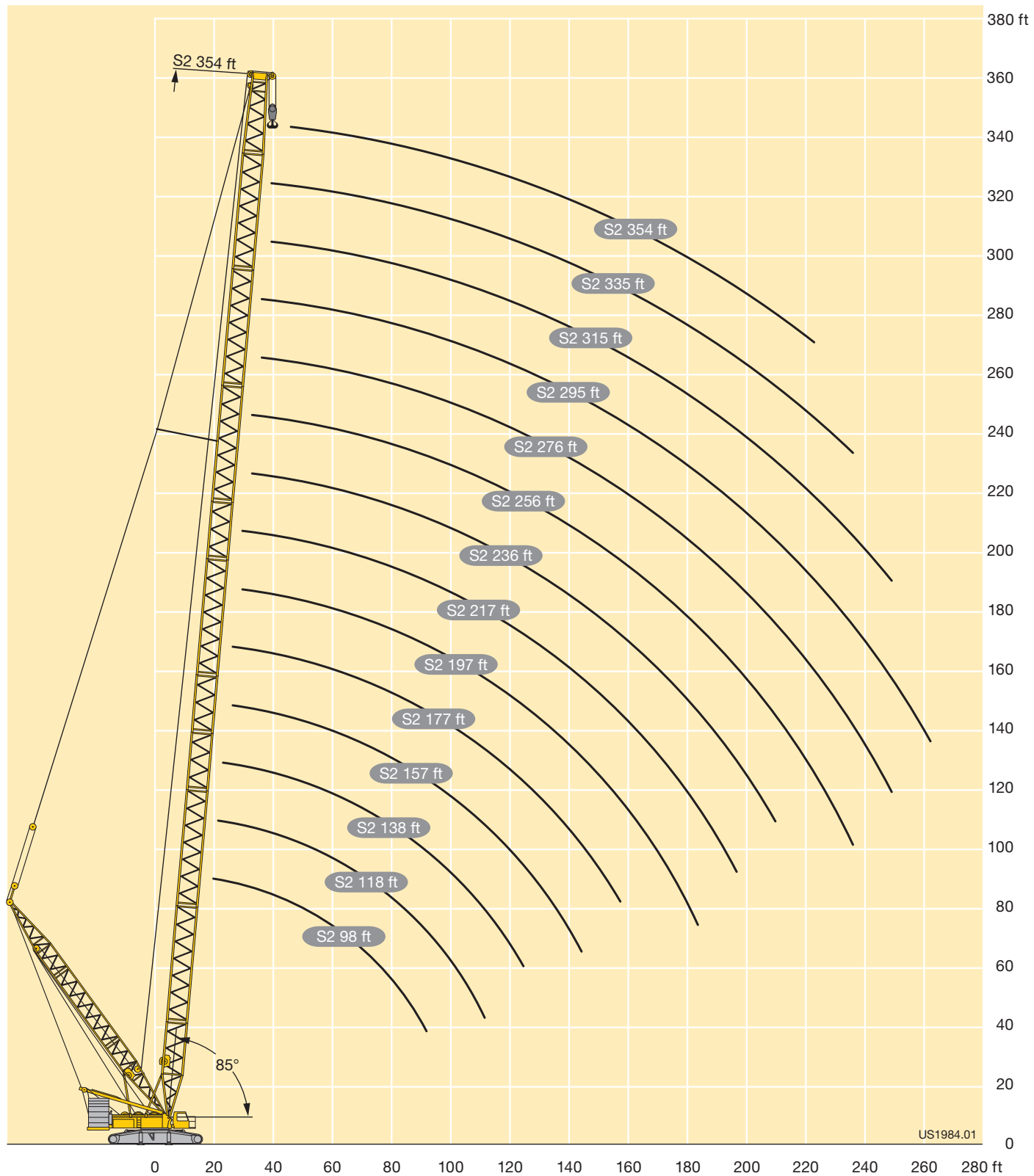


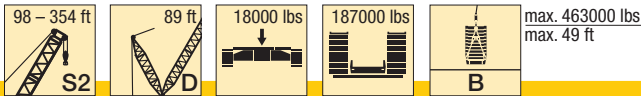


S2 98 - 354														
	98	118	138	157	177	197	217	236	256	276	295	315	335	354
ft									*	*	*	*	*	*
19	635													
20	625													
21	593	593												
22	564	573	509											
23	554	543	509											
24	538	520	488											
26	507	478	486	461	432									
28	467	464	455	433	406	364	350							
30	435	449	426	402	383	364	345							
32	420	417	398	376	360	342	325	302	288					
34	405	392	372	358	338	322	307	293	279					
36	385	369	352	336	318	304	290	277	264	252	241			
38	363	348	334	318	301	288	275	263	251	241	230	214	186	
40	345	332	315	301	286	274	261	251	239	230	220	211	186	
45	294	291	277	265	252	243	232	223	214	205	196	189	179	160
50	254	254	247	236	225	217	208	200	192	185	177	171	164	154
55	224	223	220	212	203	196	188	181	174	167	160	155	149	144
60	198	197	195	192	184	178	171	164	158	152	146	141	136	131
65	177	176	174	173	168	162	156	150	144	139	133	129	124	120
70	161	159	158	157	154	149	143	138	133	128	123	119	114	110
75	146	145	143	142	140	138	132	128	122	118	113	109	105	102
80	134	132	131	130	128	127	122	118	113	109	104	101	96.9	93.7
85	123	122	120	119	117	117	113	110	105	101	96.6	93.3	89.6	86.6
90	115	113	111	110	108	108	106	102	97.7	94.2	89.8	86.7	83.2	80.3
95		105	103	102	100	99.5	98.1	95.3	91.1	87.8	83.6	80.6	77.2	74.5
100		97.6	95.9	94.7	92.8	92.2	90.8	89.1	85	81.9	77.8	75	71.8	69.2
105		91.2	89.5	88.2	86.3	85.7	84.2	83.3	79.5	76.5	72.6	69.9	66.7	64.3
110		85.8	83.9	82.6	80.7	80	78.6	77.7	74.5	71.6	67.9	65.3	62.2	59.8
115			78.9	77.5	75.5	74.9	73.4	72.5	70	67.2	63.5	61	58	55.7
120			74.3	72.9	70.9	70.2	68.7	67.7	65.7	63	59.4	57	54.1	51.9
125				68.6	66.6	65.9	64.3	63.4	61.8	59.1	55.6	53.3	50.5	48.3
130				64.9	62.8	62	60.4	59.5	57.8	55.6	52.2	49.9	47.1	45
135				61.6	59.4	58.6	57	56	54.4	52.5	49.1	46.8	44.1	42.1
140				58.4	56.2	55.4	53.7	52.7	51.1	49.4	46	43.8	41.2	39.2
150					50.5	49.6	47.9	46.8	45	43.7	40.6	38.5	35.9	33.9
160						44.6	42.8	41.6	39.7	38.5	35.7	33.7	31.1	29.2
170						40.3	38.3	37	34.9	33.7	31.4	29.4	26.9	25.1
180						36.6	34.4	33	30.9	29.5	27.5	25.7	23.3	21.5
190							31	29.4	27.2	25.9	23.9	22.4	19.9	18.1
200								26.3	24	22.6	20.6	19.3	16.9	15.1
210									21.1	19.6	17.6	16.4	14.1	12.3
220									18.6	17.1	15	13.8	11.7	9.9
230									16.4	14.8	12.7	11.4	9.4	
240										12.7	10.6	9.2		
250											8.7			
260											7			

* raisable only with derrick ballast - seulement relevable avec contrepoids derrick

TAB 173041/173042/173043/173046/173047/173048/173051/173052/173053





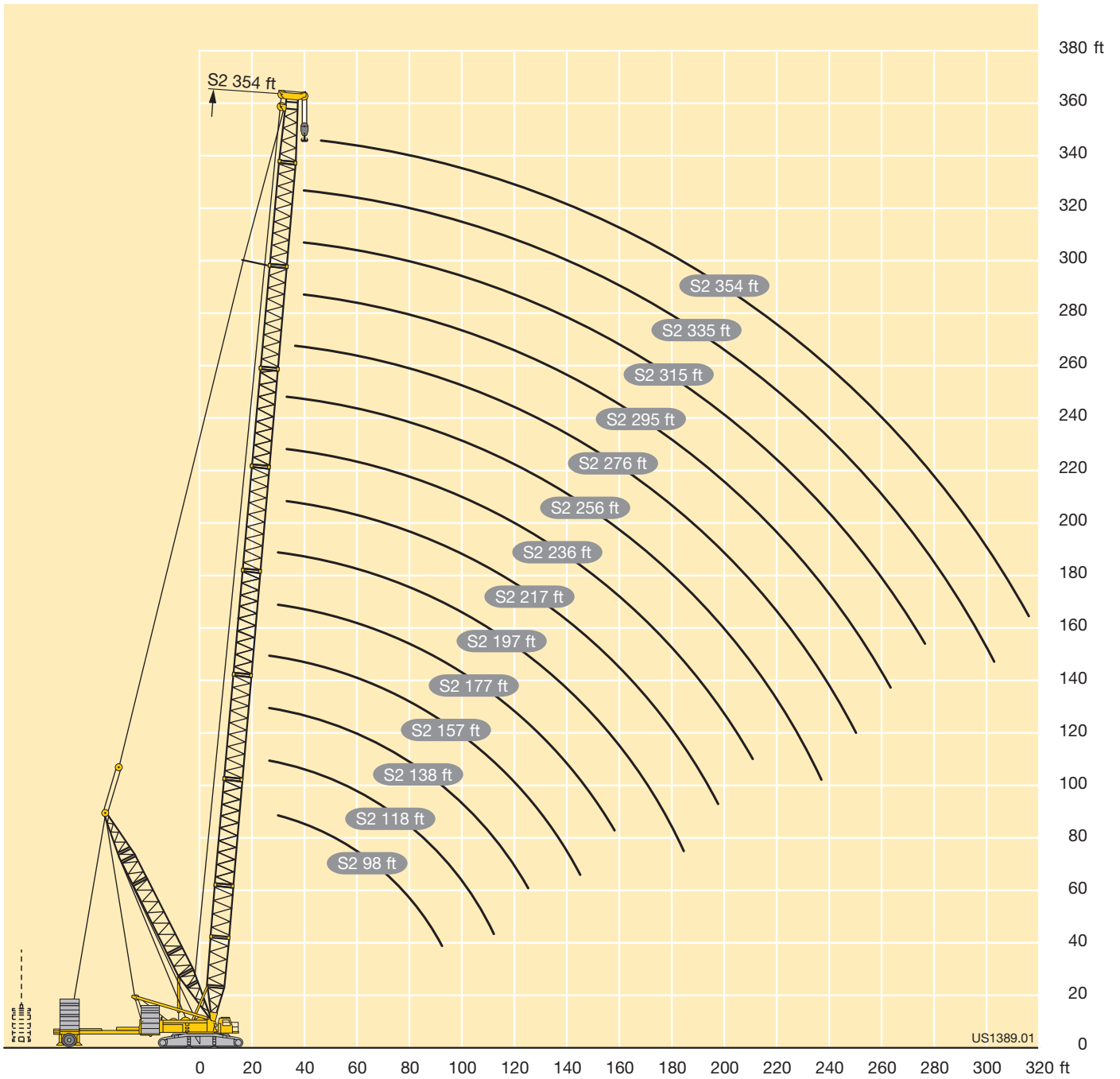
S2 98 - 354															
ft	98	118	138	157	177	197	217	236	256	276	295	315	335	354	ft
19	661														19
20	661														20
21	661	661													21
22	661	661	661												22
23	661	661	661												23
24	661	661	661												24
26	661	661	661	661	623										26
28	661	661	661	661	623	539	466								28
30	661	661	661	661	623	539	466								30
32	661	661	661	661	621	537	466	400	344						32
34	661	661	661	661	618	535	465	400	343						34
36	661	661	661	661	615	534	463	399	342	294	254				36
38	661	661	661	661	613	532	462	398	341	292	252	215	187		38
40	661	661	661	660	609	530	460	397	340	289	250	215	187		40
45	661	661	658	650	603	526	457	394	337	287	248	214	186	161	45
50	616	613	610	604	580	516	450	392	334	285	245	214	185	161	50
55	564	559	557	553	545	508	443	385	332	284	244	213	184	160	55
60	515	511	508	505	502	492	437	381	329	282	243	212	183	159	60
65	475	471	468	465	462	460	432	377	324	280	242	211	182	158	65
70	439	437	434	431	429	427	416	371	322	278	240	210	181	157	70
75	400	407	404	401	399	397	394	367	320	277	239	209	180	156	75
80	359	380	378	375	372	372	370	359	316	275	238	209	179	155	80
85	330	358	355	351	349	348	347	343	314	274	237	207	178	154	85
90	299	337	334	331	329	328	327	325	310	272	235	206	177	153	90
95		314	315	313	311	310	308	307	301	267	234	205	177	152	95
100		288	298	296	294	293	291	290	287	263	232	204	176	151	100
105		262	283	280	279	278	276	275	272	259	231	203	175	150	105
110		248	270	267	265	264	262	261	259	253	227	202	174	150	110
115			255	254	252	251	250	248	246	244	224	200	173	149	115
120			237	243	241	240	238	237	235	234	221	198	171	148	120
125				232	230	229	227	226	224	223	218	195	169	147	125
130				222	220	219	218	216	214	214	211	189	169	147	130
135				210	212	210	209	208	206	205	203	187	167	145	135
140				197	203	202	200	199	197	196	195	184	165	144	140
150					187	186	185	184	182	181	179	176	161	142	150
160						173	172	170	168	167	166	164	156	139	160
170						162	159	159	156	155	154	152	149	135	170
180						146	149	148	146	145	143	142	140	132	180
190							140	139	136	135	134	133	131	127	190
200								130	128	126	125	124	122	120	200
210									120	119	117	116	114	113	210
220									113	112	110	109	107	106	220
230									107	105	103	103	101	99.6	230
240										99.2	97.3	96.7	95.1	93.5	240
250											92.1	91.2	89.5	88	250
260											87.1	86	84.1	83.1	260
270												81.4	79.3	78.4	270
280												77.1	74.9	73.9	280
290													70.8	69.5	290
300													67.3	65.7	300
310														62.1	310

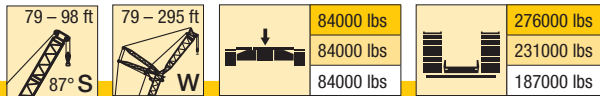
TAB 173062 / 173064 / 173066 / 173068



ft	S2 98 - 354														ft
	98	118	138	157	177	197	217	236	256	276	295	315	335	354	
19	661														19
20	661														20
21	661	661													21
22	661	661	661												22
23	661	661	661												23
24	661	661	661												24
26	661	661	661	661	631										26
28	661	661	661	661	631	545	470								28
30	661	661	661	661	631	544	470								30
32	661	661	661	661	629	543	470	401	343						32
34	661	661	661	661	627	542	470	401	343						34
36	661	661	661	661	626	541	469	401	342	294	253				36
38	661	661	661	661	624	540	469	401	342	293	253	217	185		38
40	661	661	661	660	622	539	468	400	342	292	252	217	185		40
45	661	661	657	652	619	536	468	400	341	288	250	215	182	156	45
50	616	614	610	605	589	534	466	399	339	285	248	213	180	155	50
55	563	559	556	553	547	521	464	399	338	282	246	212	178	154	55
60	515	511	508	505	502	496	461	397	336	279	244	210	176	153	60
65	475	471	468	466	462	461	448	395	334	277	242	209	175	151	65
70	441	437	434	432	429	428	423	391	331	276	240	208	173	150	70
75	411	407	404	402	399	398	396	381	329	275	238	207	172	149	75
80	382	381	378	375	372	372	370	366	327	274	237	206	170	149	80
85	348	358	355	352	349	348	347	345	326	274	236	205	170	148	85
90	313	337	334	331	329	328	327	325	317	274	236	205	169	147	90
95		319	315	313	311	310	308	307	303	274	236	205	169	147	95
100		301	299	296	293	293	291	290	287	272	236	204	168	146	100
105		284	284	281	278	278	276	275	272	268	236	204	168	146	105
110		263	270	267	265	264	262	261	259	257	236	204	168	145	110
115			258	255	252	251	250	248	246	246	234	204	168	145	115
120			246	243	241	240	238	237	235	234	229	204	168	145	120
125				233	230	229	227	226	224	223	221	204	168	145	125
130				223	221	219	218	217	214	214	212	204	168	144	130
135				214	212	210	209	208	206	205	203	198	168	144	135
140				206	203	202	201	199	197	196	194	192	168	144	140
150					188	187	185	184	182	181	179	178	166	144	150
160						173	172	170	168	167	166	164	161	144	160
170						162	159	158	156	155	154	153	150	144	170
180						152	149	148	146	145	143	142	140	137	180
190							140	139	137	135	134	133	131	129	190
200								130	128	127	125	124	122	121	200
210									120	119	117	116	114	113	210
220									113	112	110	109	107	106	220
230									107	105	104	103	101	99,7	230
240										99,2	97,4	96,9	95,3	93,7	240
250											92,3	91,3	89,7	88,2	250
260											87,3	86,1	84,3	83,3	260
270												81,5	79,6	78,6	270
280												77,2	75,2	74	280
290													71,1	69,6	290
300													67,4	65,8	300
310														62,3	310

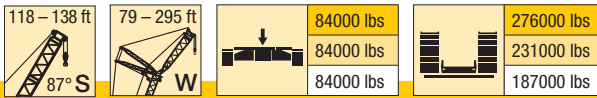
TAB 173072 / 173074 / 173076





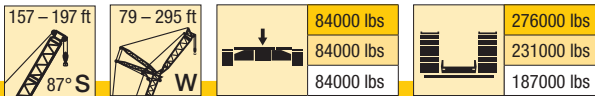
ft	S 79										S 98										ft					
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217		236	256	276	295	
36	326												309												36	
38	310												295												38	
40	294	282											280												40	
45	261	251	237										250	236	227										45	
50	235	227	219										226	218	210										50	
55	213	206	199	192									205	198	191	184									55	
60	194	188	182	175	169	164							187	181	175	169	164	158							60	
65	175	173	168	162	156	151	145						173	167	162	156	152	147	140						65	
70	159	159	156	150	145	140	137						158	155	150	145	141	136	132						70	
75	145	145	144	140	135	131	127	123	110				145	144	140	135	131	127	123	118					75	
80	133	133	133	131	126	122	119	115	109	95.2			133	133	131	126	123	119	115	112	102	88.8			80	
85	123	123	123	122	118	115	112	108	105	94.3	79.5	69.4	123	123	122	119	115	112	108	105	101	88.4	74.8		85	
90		114	114	113	112	108	105	102	98.6	93.4	78.8	68.9		114	114	112	109	105	102	98.5	95.3	87.9	74.1		90	
95		107	106	105	104	102	99.2	96	92.9	89.9	78.1	68.4		106	106	105	103	99.3	96	93	89.9	85.8	73.4	64.3	95	
100		99.7	99.4	98.5	97.6	96	93.7	90.7	87.7	85	77.2	67.9		99.5	99	98.1	96.9	93.8	90.7	87.8	84.9	82.2	72.7	63.8	100	
105			93.2	92.3	91.3	90.4	88.6	85.8	82.9	80.3	76.4	67.3			92.8	91.8	91.4	88.9	85.9	83.1	80.3	77.7	71.9	63.4	105	
110			87.8	86.8	85.9	85	84.2	81.4	78.7	76.1	73.3	66.8			87.4	86.5	86	84.4	81.5	78.9	76.2	73.7	70.4	62.9	110	
115			82.8	81.9	80.9	80	79.6	77.3	74.7	72.3	69.8	66.2			82.5	81.5	81	80	77.5	74.9	72.3	69.9	67.5	62.5	115	
120			78.3	77.4	76.4	75.5	75.1	73.6	71	68.6	66.2	64.6			77.9	77	76.5	75.6	73.8	71.3	68.7	66.4	64.1	61.5	120	
125				73.2	72.3	71.3	70.9	70	67.5	65.2	62.9	61.3				72.9	72.3	71.5	70.3	67.9	65.4	63.2	60.8	59.3	125	
130				69.5	68.6	67.6	67.2	66.3	64.4	62.1	59.8	58.3				69.2	68.6	67.7	66.8	64.8	62.3	60.2	57.9	56.4	130	
135				66.2	65.3	64.3	63.9	63	61.5	59.3	57.1	55.6				65.9	65.3	64.4	63.6	61.9	59.6	57.4	55.2	53.8	135	
140				63.1	62.1	61.1	60.7	59.8	58.6	56.6	54.4	53				62.7	62.2	61.3	60.4	59.2	56.9	54.8	52.6	51.2	140	
150					56.5	55.4	55	54.1	53.2	51.7	49.6	48.2					56.5	55.6	54.7	53.8	52	50	47.9	46.5	150	
160					50.5	50	49.1	48.2	47.2	45.2	43.8							50.6	49.7	48.8	47.6	45.7	43.7	42.3	160	
170					46.2	45.7	44.7	43.8	43	41.3	40							46.3	45.4	44.5	43.6	41.8	39.9	38.6	170	
180					42.5	42	41	40.1	39.3	37.9	36.6							42.6	41.7	40.8	39.9	38.5	36.6	35.3	180	
190						38.7	37.7	36.8	35.9	34.7	33.6								38.4	37.5	36.5	35.4	33.6	32.3	190	
200							34.7	33.8	32.9	31.6	30.6										34.4	33.5	32.4	30.7	29.5	200
210							32	31.1	30.1	28.6	27.7										31.7	30.7	29.5	27.8	26.9	210
220							29.6	28.6	27.5	26	25.2										29.4	27.9	26.8	25.2	24.4	220
230								26.4	24.9	23.6	22.8											25.6	24.1	22.8	22.1	230
240									22.5	21.2	20.7												21.8	20.4	20	240
250									20.5	18.9	18.6												19.8	18.2	18	250
260									18.7	17.2	16.6												18.1	16.5	16	260
270										15.8	14.8													15.1	14.3	270
280											13.4														12.9	280
290											12.2														11.7	290
300											11.1														10.6	300

TAB 136096 / 136097 / 136098



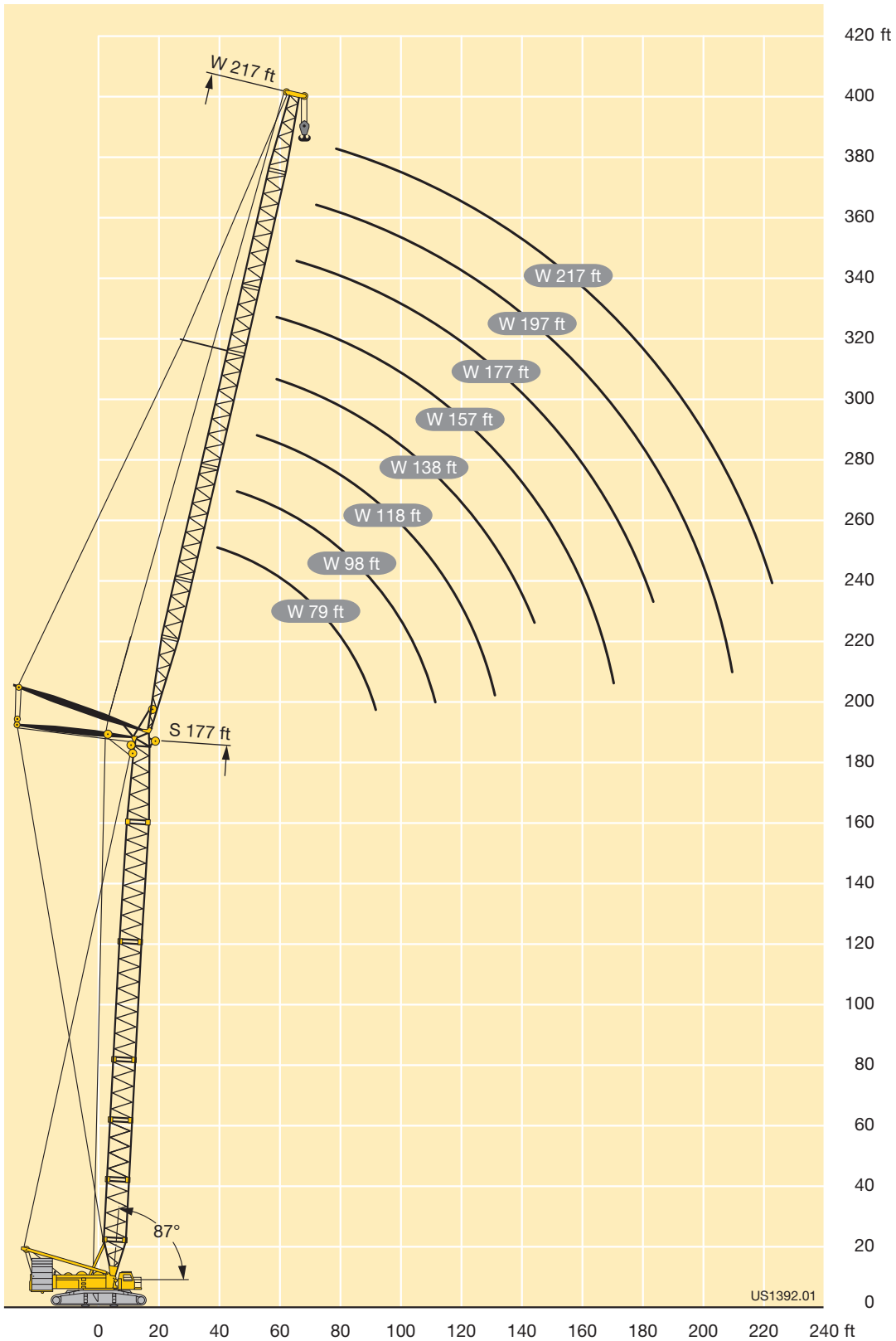
ft	S 118													S 138													ft
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217	236	256	276	295			
36	295																								36		
38	281																									38	
40	268												257													40	
45	240	226	218										231	217												45	
50	217	209	202										209	201												50	
55	198	191	184	178									191	184	178	171										55	
60	181	175	169	163	158								175	169	164	158	152									60	
65	167	162	156	151	146	140	129						162	156	151	146	141	132								65	
70	156	150	146	141	136	132	126						151	146	141	136	132	126								70	
75	144	140	136	131	127	123	120	110					141	136	132	127	123	118	112	99.4						75	
80	133	131	127	123	119	115	112	108	94.8				132	127	123	119	115	111	108	98.3	86.1					80	
85	123	123	119	115	112	108	105	101	94.1	82.1	69.4		123	120	116	112	109	104	102	96.8	85.3	74.6	64.3			85	
90		114	113	109	105	102	99.3	95.3	91.9	81.5	68.9		114	113	110	106	102	98.2	95.9	92.5	84.1	73.8	63.8			90	
95		106	106	103	99.3	96.1	93.7	89.9	87.9	80.7	68.3	59.9		106	104	100	96.8	92.8	90.6	87.8	82.6	72.9	63.3	55.6		95	
100		99.4	99	97.2	94	90.8	88.7	85	83.1	78.9	67.8	59.5		99.3	98.1	94.8	91.7	87.8	85.7	83	80.2	72	62.7	55.2		100	
105			92.7	91.8	89.1	86.1	84	80.4	78.6	75.1	67.2	59		93	92.7	89.9	86.9	83.2	81.2	78.6	75.9	71.1	62.2	54.7		105	
110			87.3	86.4	84.7	81.8	79.8	76.3	74.6	71.3	66.7	58.6		87.5	87.3	85.6	82.7	79.1	77.1	74.7	72.1	68.4	61.5	54.1		110	
115			82.4	81.5	80.4	77.8	75.9	72.5	70.9	67.6	64.7	58.3			82.3	81.3	78.8	75.2	73.4	71	68.5	65.2	60.9	53.5		115	
120			77.8	77	76.1	74.1	72.3	69	67.4	64.2	61.8	57.9			77.8	77	75.1	71.7	69.9	67.6	65.1	61.9	59.7	52.9		120	
125				72.8	72	70.7	68.9	65.7	64.2	61	58.7	57.2			73.6	72.9	71.7	68.3	66.6	64.4	62	58.9	57.7	52.4		125	
130				69.1	68.3	67.3	65.8	62.7	61.2	58.2	55.9	54.4			69.8	69.1	68.3	65.3	63.6	61.4	59.1	56	54.9	51.6		130	
135				65.8	65	64.1	63	59.9	58.5	55.5	53.3	51.9				65.8	65.1	62.6	60.9	58.8	56.5	53.5	52.4	49.7		135	
140				62.7	61.8	60.9	60.2	57.3	55.9	53	50.8	49.4				62.6	61.9	60	58.3	56.2	54	51	50	47.5		140	
150					56.1	55.2	54.9	52.5	51.1	48.3	46.2	44.9					56.2	54.8	53.6	51.5	49.3	46.5	45.5	43.2		150	
160						50.3	49.9	48.1	46.9	44.1	42.1	40.8					51.2	49.9	49.3	47.3	45.2	42.5	41.5	39.2		160	
170						46	45.6	44.2	43.1	40.4	38.4	37.2					46.9	45.6	45.3	43.6	41.5	38.8	37.9	35.7		170	
180						42.3	41.9	40.5	39.8	37.1	35.2	34						42	41.6	40.3	38.3	35.7	34.7	32.6		180	
190							38.5	37.2	36.6	34.2	32.3	31.1							38.2	37.1	35.4	32.8	31.9	29.8		190	
200								34.1	33.6	31.4	29.5	28.4							35.1	33.9	32.5	30.1	29.2	27.2		200	
210								31.1	30.5	28.5	26.8	26								30.8	29.5	27.5	26.7	24.8		210	
220								28.6	27.7	25.9	24.4	23.4								28.2	26.8	24.8	24.3	22.3		220	
230									25.3	23.3	22	21.2									24.4	22.3	21.9	20.2		230	
240										21	19.7	19.2									22.3	20.1	19.7	18.3		240	
250										19	17.6	17.2										18.2	17.5	16.4		250	
260											17.4	15.9	15.4									16.7	15.7	14.7		260	
270												14.5	13.7										14.3	13.1		270	
280													12.3										13.1	11.6		280	
290													11.1											10.5		290	
300													10.1											9.5		300	

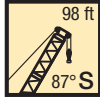
TAB 136096 / 136097 / 136098



ft	S 157										S 177							S 197				ft					
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217	79		98	118	138		
40	236												206												40		
45	219	207											204	180							176	157			45		
50	201	193											191	175							169	152			50		
55	184	177	170	155									177	167	152						161	146	133		55		
60	169	163	158	150	135								163	158	147	133	119				153	140	128	116	60		
65	157	151	147	141	132	117							151	146	141	129	116	103			146	134	124	113	65		
70	146	141	137	132	126	115							141	136	132	125	113	101			137	128	119	109	70		
75	137	132	128	124	120	112	99.6	88.5					132	128	124	119	110	98.3	88.5		128	122	114	105	75		
80	128	124	120	116	112	108	97.7	87.3	76.7				124	120	116	112	106	95.8	86.6	77	120	116	110	101	80		
85	121	116	113	109	106	101	95.7	85.7	75.8	66.4			117	113	110	105	102	93.5	84.6	75.6	114	110	105	97.5	85		
90	113	110	107	103	99.8	95.7	91.9	84.1	74.5	65.8			111	107	104	99.3	96.2	90.7	82.7	73.9	108	104	100	93.8	90		
95		104	101	97.4	94.4	90.5	87.4	82.4	73.3	64.8	57.1	49.8		101	98.1	94	91.1	86.9	80.6	72.4			98.4	95.5	90.2	95	
100		98.7	95.7	92.4	89.4	85.7	82.7	80	72	63.8	56.4	49.2		96.2	93.1	89.1	86.3	82.6	78.4	70.8			93.5	90.7	86.5	100	
105		92.9	90.9	87.7	84.8	81.2	78.4	75.9	70.8	62.8	55.6	48.6		91.6	88.6	84.7	81.9	78.3	76.2	69.1			89.1	86.3	82.5	105	
110		87.3	86.7	83.5	80.8	77.2	74.5	72.1	68.9	61.9	54.8	48		87.1	84.5	80.7	78	74.5	72.7	67.3			85.3	82.3	78.6	110	
115			82.2	79.7	77	73.5	70.9	68.5	66	60.8	54	47.3			80.7	76.9	74.3	70.9	69.3	65.3				78.7	75	115	
120			77.7	76.1	73.4	70.1	67.5	65.2	62.8	59.2	53.1	46.7			77.1	73.5	70.9	67.6	66	62.8					75.3	71.7	120
125			73.6	72.7	70.2	66.8	64.3	62.1	59.8	56.7	52.2	46			73.6	70.3	67.8	64.5	63	59.8					72.2	68.6	125
130			69.8	69.1	67.2	63.9	61.4	59.3	57	54	51.2	45.3			69.8	67.4	64.9	61.6	60.2	57.1					69.5	65.8	130
135				65.9	64.4	61.3	58.8	56.7	54.4	51.5	49.5	44.5				64.6	62.3	59.1	57.6	54.6						63.2	135
140				62.7	61.6	58.7	56.3	54.2	52	49.1	47.7	43.7				61.9	59.8	56.6	55.2	52.2						60.8	140
150					56.3	54	51.7	49.7	47.5	44.7	43.7	41					55.2	52.1	50.7	47.8							150
160					51.3	49.8	47.6	45.6	43.5	40.8	39.8	37.6					51	48.1	46.7	43.9							160
170					46.9	45.8	44	42	40	37.3	36.4	34.2					46.6	44.6	43.1	40.4							170
180						42	40.6	38.9	36.8	34.2	33.3	31.2						40.9	40	37.3							180
190							37.3	35.8	34	31.4	30.5	28.4							36.8	34.5							190
200								34.1	32.9	31.3	28.8	27.9	25.9							33.7	31.7						200
210									29.8	28.5	26.3	25.6	23.6								28.7						210
220										27.3	25.8	23.8	23.3	21.1								26.3					220
230											23.4	21.3	21	19.1													230
240												21.3	19.1	18.9	17.3												240
250													17.2	16.8	15.5												250
260														15.8	15.1	13.9											260
270															13.6	12.3											270
280																12.4	10.9										280
290																	9.8										290
300																		8.9									300

TAB 136096 / 136097 / 136098

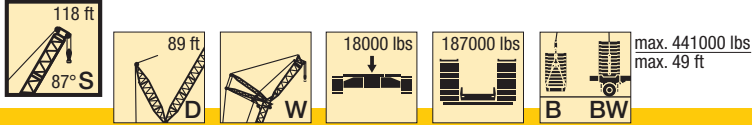




max. 441000 lbs
max. 49 ft

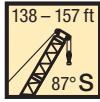
ft	98 ft											ft	
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft		295 ft
36	419												36
38	411												38
40	402												40
45	382	336	287										45
50	362	326	280										50
55	344	314	272	231									55
60	325	301	265	226	198	170							60
65	300	288	259	221	196	168	144						65
70	274	271	251	217	194	166	142						70
75	248	251	241	212	192	163	141	121					75
80	221	230	229	208	189	162	139	120	102	89.5			80
85	195	213	214	202	187	160	138	118	101	89	75		85
90		197	198	193	184	158	137	117	100	88	74		90
95		181	184	183	179	156	136	116	99.5	87.5	73	64.5	95
100		164	172	172	171	155	134	115	98.5	87	72.5	63.5	100
105			161	160	162	153	133	113	98	86	71.5	63	105
110			149	150	152	149	132	112	97	85.5	70.5	62.5	110
115			137	141	143	142	130	111	96	84.5	70	62	115
120			125	132	135	135	128	110	95.5	84	69	61.5	120
125				122	127	128	125	109	94.5	83.5	68.5	61	125
130				113	120	121	120	108	93.5	82.5	68	60.5	130
135				104	113	115	114	106	92.5	82	67	60	135
140				95	106	109	108	104	91.5	81.5	66	59.7	140
150					92.5	97.5	98	97	89.5	80	64.5	58.8	150
160						86.5	89	89	86.5	78	62.5	57.7	160
170						75.5	80	81	81	76.5	60.5	56.4	170
180						63	71.5	74	75	72	58.6	55.2	180
190							63	66.5	68.5	67	56.8	54.1	190
200								59.3	62.5	62	55	53	200
210								52.4	56	56.7	52.8	52	210
220								43.2	50.1	51.3	50.1	49.8	220
230									44.2	46.1	46.6	46.4	230
240										41.2	42.5	42.5	240
250										36.2	38.1	38.7	250
260										29	33.9	35.2	260
270											29.3	31.6	270
280												28.1	280
290												24.3	290
300												18.6	300

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122



ft	118 ft											ft	
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft		295 ft
36	382												36
38	375												38
40	368												40
45	351	306	264										45
50	335	297	258										50
55	320	286	252	214									55
60	305	276	246	210	183								60
65	291	266	241	206	180	155	133						65
70	274	254	235	202	178	154	132						70
75	252	242	228	198	177	152	130	113					75
80	227	228	220	194	175	151	129	112	96				80
85	201	214	213	189	173	149	128	111	95	83	70.5		85
90		200	203	184	170	148	127	110	94	82.5	69.5		90
95		184	191	179	167	147	126	109	93.5	81.5	68.5	60.5	95
100		168	177	173	163	145	125	108	92.5	81	68	59.9	100
105			164	165	157	144	124	107	91.5	80.5	67	59.4	105
110			152	154	150	141	122	107	91	80	66.5	58.9	110
115			139	144	144	136	121	106	90	79.5	65.5	58.5	115
120			128	134	137	130	120	105	89.5	79	65	58	120
125				125	130	124	118	104	88.5	78.5	64.5	57.6	125
130				115	122	119	113	103	87.5	78	63.5	57.2	130
135				107	115	114	109	102	86.5	77.5	63	56.9	135
140				97.5	107	109	104	101	85.5	76.5	62.5	56.5	140
150					93.5	98	95.5	97	83.5	75.5	60.5	55.6	150
160						87	87.5	91	81.5	74	58.9	54.6	160
170						76.5	80	82.5	79	72.5	57.1	53.3	170
180						64.5	72	74.5	74.5	69.5	55.4	52	180
190							64	67	69	65.5	53.8	50.8	190
200								59.8	63	60.5	52.1	49.6	200
210								52.8	56.5	56	50.2	48.1	210
220								44.1	50.5	51.3	47.5	45.4	220
230									44.8	46.4	44.2	42.1	230
240										41.5	40.7	38.5	240
250										36.5	37.1	35	250
260										29.6	33.6	31.8	260
270											29.5	28.7	270
280												25.7	280
290												22.6	290
300												18.6	300

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122

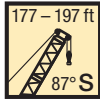


max. 441000 lbs
max. 49 ft

ft	138 ft											ft	
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft		295 ft
40	320												40
45	309												45
50	299	272											50
55	288	259											55
60	277	252	227										60
65	265	244	218	195									65
70	251	236	213	185	168								70
75	236	228	207	182	162	143							75
80	220	218	201	179	160	141	120	104					80
85	203	208	194	175	158	137	118	102	89				85
90	170	197	186	171	155	136	117	102	88	77			90
95		185	178	166	152	135	116	101	86.5	76.5	66		95
100		171	169	160	148	133	115	100	86	76	64.5	56.6	100
105		155	161	152	144	130	114	99.5	85.5	75	63.5	56	105
110		130	151	146	138	127	112	99	84.5	74	62	55.5	110
115			141	139	132	123	111	98.5	84	73.5	61.5	54.5	115
120			129	133	126	118	109	98	83.5	73	61	54	120
125			117	126	120	113	108	96.5	83	73	60	53.6	125
130			99	117	115	108	107	95.5	82	72.5	59.6	53.2	130
135				109	110	104	104	94	80.5	72	59	52.8	135
140				100	105	99.5	102	92.5	79.5	71	58.3	52.4	140
150					94	91.5	95.5	88.5	77.5	70	56.9	51.5	150
160					80	84	88.5	83.5	75	68	55.3	50.5	160
170					61	76	81	77.5	72.5	66.5	53.7	49.4	170
180						65.5	73	72	68	63.5	52.2	48.3	180
190							64.5	66	63.5	59.3	50.7	47.2	190
200							54.8	59.8	58.9	55.1	49.2	46	200
210								53.1	54.4	50.9	47.3	44.3	210
220								44.7	49.9	47	44.2	41.3	220
230									44.8	43.2	40.8	38.1	230
240									37.8	39.6	37.4	34.8	240
250										36	34.1	31.7	250
260										29.9	31	28.7	260
270											28.1	25.9	270
280											23.6	23.2	280
290												20.6	290
300												18.2	300

ft	157 ft											ft	
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft		295 ft
40	285												40
45	274												45
50	265	239											50
55	256	233											55
60	246	227	200										60
65	236	214	195	176									65
70	227	206	190	168	152								70
75	218	199	186	165	149	131							75
80	209	192	181	162	143	127	110	96					80
85	200	186	175	159	141	125	109	95	82.5				85
90	178	186	170	155	139	123	107	94.5	81.5	71			90
95		178	164	151	136	121	106	93.5	81	70.5			95
100		171	159	146	133	119	105	92.5	80	70	59.6	51.7	100
105		163	153	142	130	118	104	92	79.5	69.5	58.9	51.2	105
110		155	146	137	126	115	103	91.5	78.5	69	58.3	50.8	110
115		136	140	132	123	113	101	90.5	78	68.5	57.6	50.3	115
120			133	126	119	110	99.5	89.5	77.5	68	57.1	49.9	120
125			127	121	114	108	97.5	88.5	77	67.5	56.5	49.5	125
130			120	116	110	105	95.5	86.5	76.5	67	56	49.1	130
135			104	111	105	103	93.5	85	75.5	66.5	55.5	48.8	135
140				105	101	101	92	83.5	74.5	66	54.9	48.4	140
150				99.5	96.5	98	90	82	73.5	65.5	54.4	48.1	150
160					89	92	86	78.5	71.5	63.5	53.1	47.3	160
170					79.5	85	80.5	75	69	62	51.7	46.4	170
180					64	78	75	70.5	66	59.8	50.1	45.4	180
190						68.5	69.5	65.5	61.5	56.9	48.7	44.3	190
200							63.5	61	57.5	53.4	47.3	43.2	200
210							55.8	56.3	53.3	49.5	45.6	41.9	210
220								51.9	49.3	45.8	43.3	40	220
230								46	45.6	42.2	39.9	36.9	230
240									42	38.9	36.7	33.9	240
250									37	35.6	33.6	31	250
260										32.5	30.7	28.2	260
270										29.5	27.9	25.6	270
280											25.2	23.1	280
290											22.1	20.6	290
300												18.2	300

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122



max. 441000 lbs
max. 49 ft

ft	177 ft												ft
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	
40	238												40
45	238												45
50	231	209											50
55	224	198	175										55
60	215	193	170	151	134								60
65	207	187	166	148	131	116							65
70	198	181	162	145	128	114							70
75	191	174	158	143	126	112	99.5						75
80	184	168	153	140	124	110	98	86.5	75				80
85	177	162	148	136	122	108	96.5	85.5	74	65.5			85
90	171	156	144	132	120	107	95	84	73.5	65			90
95		151	139	128	117	105	94	83	72.5	64.5	54.8		95
100		146	135	125	114	103	92.5	82	72	64	54.2	47.7	100
105		141	131	121	111	101	91.5	81	71	63.5	53.6	47.2	105
110		135	126	118	108	99	90	80	70.5	63	53	46.7	110
115			121	114	105	96.5	88.5	79	69.5	62	52.5	46.3	115
120			116	110	103	94.5	86.5	78	69	61.5	52	45.9	120
125			111	105	100	92.5	84.5	76.5	68	61	51.5	45.5	125
130			105	101	97.5	90	83	75	67	60.5	51	45.1	130
135				97	94.5	88	81	73.5	66	59.7	50.5	44.8	135
140				92.5	92	86	79.5	72	64.5	58.9	50	44.4	140
150					86.5	81.5	76	69.5	62.5	57	48.9	43.7	150
160					79.5	77	72.5	66.5	60	55	47.6	42.8	160
170					67	71.5	68	63	57.9	53.1	46.2	41.6	170
180						66.5	63	59	55	50.9	44.9	40.4	180
190							58.5	54.8	51.4	48.1	43.3	39.1	190
200							53.1	50.7	47.7	44.9	41.3	37.4	200
210								46.8	44	41.5	38.6	35.3	210
220								43.2	40.7	38.3	35.6	32.6	220
230									37.4	35.3	32.7	30	230
240									34.1	32.4	29.9	27.4	240
250										29.6	27.3	24.9	250
260										26.9	24.8	22.5	260
270											22.3	20.2	270
280											20	18	280
290												15.9	290
300												13.9	300

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122

ft	197 ft												ft
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	
45	209	185											45
50	204	180											50
55	197	175	156										55
60	190	170	152	135									60
65	183	165	148	132	117	104							65
70	176	160	144	129	115	102							70
75	170	155	141	126	113	100							75
80	163	149	136	124	110	98.5	89	87.5	77				80
85	158	144	132	121	108	96.5	86	76	67.5	59.4			85
90	152	140	128	117	106	95	85	75	66.5	58.6			90
95		135	124	114	104	93.5	83.5	74	66	57.8	49.8		95
100		131	120	111	101	92	82.5	72.5	65	57	49.2	43.3	100
105		127	117	107	98.5	90	81.5	72	64	56.2	48.7	42.8	105
110		122	113	104	96	88	80	71	63.5	55.5	48.2	42.3	110
115			110	101	94	85.5	78.5	70	62.5	54.8	47.7	41.8	115
120			106	98.5	91.5	83.5	77	69	62	54.2	47.2	41.3	120
125			101	95.5	89	81.5	75	67.5	61.5	53.6	46.7	40.8	125
130			97.5	93	87	79.5	73.5	66	60.5	53	46.2	40.4	130
135				90.5	84.5	77.5	72	65	59.5	52.2	45.8	40	135
140				88	82.5	76	70	63.5	58.2	51.5	45.3	39.6	140
150					78	72	67	61	55.9	49.7	44	38.7	150
160					73.5	68.5	64	58.3	53.7	47.8	42.6	37.6	160
170					68	64.5	60.5	55.8	51.6	46	40.9	36.3	170
180						60	56.8	52.6	49.2	44.3	39.4	34.9	180
190							52.9	49.1	46.4	42.2	37.8	33.6	190
200							49.2	45.6	43.2	39.7	36	32.2	200
210								42.1	40	36.6	33.8	30.6	210
220								39	36.9	33.7	31.1	28.3	220
230									34	31	28.5	26	230
240									31.2	28.3	26	23.7	240
250										25.8	23.6	21.5	250
260										23.4	21.3	19.4	260
270											19.1	17.4	270
280											17	15.4	280
290												13.5	290
300												11.7	300

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122



max. 441000 lbs
max. 49 ft

ft	217 ft												ft
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft*	
45	183												45
50	178												50
55	172	153	137										55
60	167	149	133	120									60
65	161	145	130	117	103	92.5							65
70	155	140	127	114	101	91							70
75	149	136	124	112	99	89	79						75
80	144	131	121	109	97	87.5	77.5	68.5					80
85	139	127	117	107	95	86	76.5	67.5	60	52.9			85
90	135	123	113	104	93	84.5	75	66.5	59.2	52.1			90
95		119	110	101	91.5	83	74	65.5	58.3	51.3	44.5		95
100		115	107	98	89	81.5	72.5	64.5	57.4	50.5	43.8	38.1	100
105		112	104	95	87	80	71.5	63.5	56.5	49.7	43.2	37.5	105
110		109	100	92.5	84.5	78	70.5	62.5	55.7	49	42.6	36.9	110
115			97	90	82.5	76	69	61.5	54.9	48.3	42	36.4	115
120			94.5	87.5	80.5	74	67.5	61	54.2	47.7	41.5	35.9	120
125			91.5	85	78.5	72	65.5	59.7	53.5	47.1	41	35.4	125
130			88.5	82.5	76.5	70.5	64	58.2	52.8	46.5	40.5	34.9	130
135				80	74.5	68.5	62.5	56.9	51.7	45.8	40	34.5	135
140				78	72.5	67	61	55.6	50.6	45	39.5	34.1	140
150					68.5	63.5	58.4	53.1	48.4	43.4	38.3	33.1	150
160					64.5	60.5	55.7	50.7	46.3	41.6	36.9	32.1	160
170					61	57.3	53	48.4	44.4	39.8	35.4	30.9	170
180						53.8	50.1	46	42.5	38.2	33.9	29.6	180
190							47	43.2	40.3	36.5	32.5	28.3	190
200							43.7	40.3	37.8	34.5	31	27	200
210								37.2	35.1	32.1	29.2	25.7	210
220								34.4	32.3	29.4	26.9	24.1	220
230									29.6	26.9	24.6	22.1	230
240									27.1	24.5	22.4	20.1	240
250										22.2	20.3	18.1	250
260										20	18.3	16.3	260
270											16.3	14.5	270
280											14.5	12.8	280
290												11.1	290
300												9.5	300

* only with ballast trailer / seulement avec porteur de lest

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122

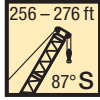
ft	236 ft											ft	
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft*		
45	159												45
50	155												50
55	151	134	121										55
60	146	131	118	105									60
65	141	127	115	103	92								65
70	136	124	112	100	90								70
75	131	120	109	98	88	78.5	70						75
80	127	116	106	96	86.5	76.5	68.5	61					80
85	123	112	103	94	84.5	75	67	59.6	53.1				85
90	119	109	99.5	91.5	83	73.5	66	58.6	52.2				90
95		105	96.5	89	81	72.5	65	57.5	51.2	44.9	39		95
100		102	93.5	86	79	71	63.5	56.5	50.4	44.1	38.3		100
105		98.5	90.5	83.5	77	69.5	62.5	55.6	49.5	43.3	37.7		105
110		95.5	88	81	74.5	68	61.5	54.7	48.8	42.7	37		110
115			85.5	79	72.5	66	60.5	53.9	48	42	36.5		115
120			83	76.5	70.5	64.5	58.9	53	47.3	41.3	35.9		120
125			80.5	74.5	69	62.5	57.3	52	46.6	40.7	35.4		125
130			78.5	72	67	61	55.9	50.7	45.9	40.1	34.9		130
135				70	65	59.4	54.5	49.5	45	39.5	34.4		135
140				68	63.5	57.9	53.2	48.3	43.9	38.8	33.9		140
150					59.9	54.9	50.5	46	41.9	37.2	32.7		150
160					56.7	52	48	43.8	39.9	35.4	31.3		160
170					53.6	49.3	45.5	41.7	38.1	33.7	29.6		170
180						46.8	43.2	39.6	36.3	32.1	28.1		180
190							40.8	37.6	34.6	30.6	26.7		190
200							38.3	35.5	32.7	29	25.3		200
210								33.1	30.6	27.3	24		210
220								30.5	28.2	25.3	22.5		220
230									25.9	23.1	20.8		230
240									23.7	21	19		240
250										19	17.2		250
260										17	15.4		260
270											13.7		270
280											12.1		280

* only with ballast trailer / seulement avec porteur de lest

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122

SDWB/SDWBW

S 256 - 276



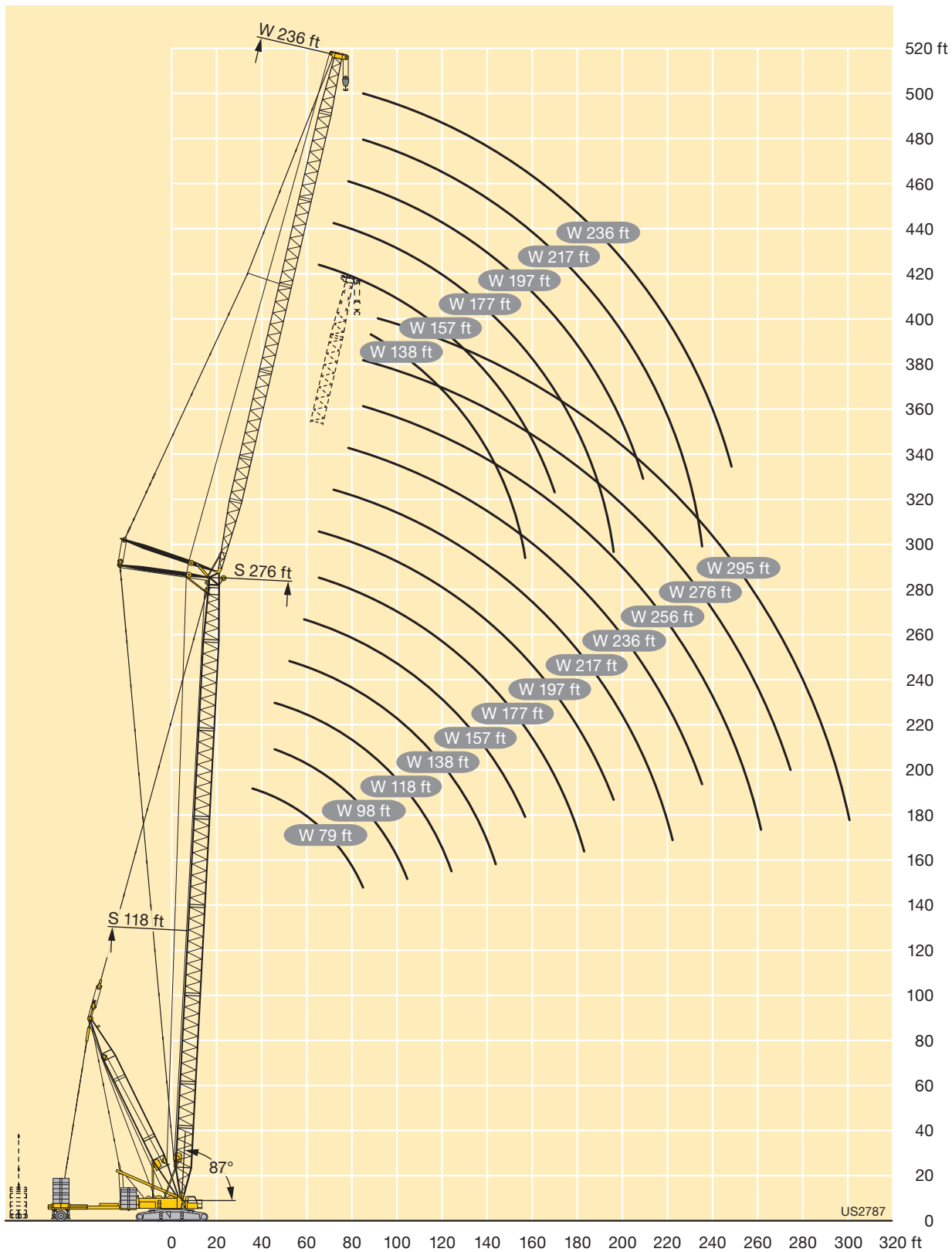
max. 441000 lbs
max. 49 ft

ft	256 ft									ft
	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	
55	118									55
60	115									60
65	112	103	93							65
70	109	101	90.5	80.5						70
75	105	98	88.5	79						75
80	102	95.5	86	77	68.5					80
85	98	93	84	75	67	60	53.3			85
90	95	90.5	82.5	73.5	65.5	58.8	52.1	46.1		90
95	92	87.5	80	72	64	57.6	51.1	45.2		95
100	89	85	78	70.5	63	55.4	50.1	44.3	38.4	100
105	86.5	82	75.5	69	61.5	55.4	49.1	43.5	37.7	105
110	84	79.5	73	66.5	60.5	54.4	48.2	42.7	36.9	110
115	81	77	71	64.5	58.8	53.4	47.4	41.9	36.3	115
120		74.5	69	63	57.2	52.3	46.5	41.2	35.6	120
125		72.5	67	61	55.5	51.1	45.7	40.5	35	125
130		70	64.5	59.3	53.9	49.7	44.9	39.8	34.4	130
135		68	62.5	57.6	52.4	48.3	43.7	39.1	33.8	135
140			61	56	51	47.1	42.5	38.2	33.2	140
150			59.1	54.4	49.6	45.8	41.4	37.3	32.5	150
160			55.2	51.2	46.7	43.4	39.3	35.4	31	160
170				48.3	44	41.1	37.3	33.5	29.3	170
180				45.4	41.3	38.9	35.3	31.8	27.7	180
190					38.9	36.7	33.4	30.1	26.1	190
200					36.3	34.7	31.6	28.5	24.7	200
210						32.7	29.8	26.8	23.3	210
220							28.1	25.3	22	220
230							26.2	23.6	20.7	230
240							24.1	21.8	19.2	240
250								19.8	17.6	250
260									15.8	260
270									14.1	270
									12.4	270

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122

ft	276 ft						ft
	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	
65	78	69.5					65
70	76.5	68					70
75	74.5	66.5	59.9				75
80	72.5	65	58.4	52			80
85	71	63.5	57	50.8	44.7	39.2	85
90	69	62	55.7	49.7	43.8	38.4	90
95	67	61	54.5	48.7	42.8	37.5	95
100	65	59.3	53.4	47.7	41.9	36.7	100
105	63	57.5	52.2	46.7	41	35.9	105
110	61	55.7	50.9	45.8	40.2	35.2	110
115	58.9	53.9	49.4	44.8	39.4	34.5	115
120	57.1	52.3	47.9	43.7	38.6	33.8	120
125	55.2	50.7	46.4	42.4	37.8	33.1	125
130	53.4	49.1	45	41.2	36.7	32.4	130
135	51.7	47.6	43.7	40	35.7	31.6	135
140	50	46.1	42.4	38.9	34.6	30.8	140
150	46.5	43.2	39.9	36.6	32.6	29	150
160		40.5	37.5	34.5	30.6	27.3	160
170		37.9	35.1	32.4	28.8	25.6	170
180			33	30.5	27	24	180
190			30.6	28.6	25.3	22.5	190
200				26.8	23.6	21.1	200
210					22.1	19.7	210
220					20.6	18.4	220
230					18.9	17.1	230
240						15.9	240

TAB 136087 / 136090 / 136093 / 136120 / 136121 / 136122





max. 441000 lbs
max. 49 ft

ft	S 98													S 118													ft
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217	236	256	276	295			
75	277												288												75		
80	259	252											274	251											80		
85	243	238	229										259	251											85		
90	228	225	218										245	239											90		
95	215	212	206	190									231	227	218										95		
100	201	201	196	188									218	215	208	193									100		
105		190	186	178	170								205	204	198	188	168								105		
110		180	176	170	165	153							179	194	189	180	168	144							110		
115		170	168	163	159	150								184	180	173	165	144							115		
120		158	161	157	154	145	128							173	172	166	161	144							120		
125			155	152	148	140	128	109						160	165	161	156	143	120						125		
130			149	146	142	134	127	109	89,1					139	158	156	151	139	120	103					130		
135			137	139	136	129	124	108	89,1						147	149	146	136	120	103					135		
140			123	132	130	125	121	108	89,1	78,4					135	141	140	132	120	102	84,7	73,1			140		
150				119	116	114	106	88,8	78,3						125	128	124	118	102	84,5	73,1				150		
160				108	107	105	102	88,1	78,1	62,4	54,7				105	115	115	113	101	84	73,1	59,1			160		
170				94,6	97,6	95,9	95	87,3	77,7	61,5	54,7				82,8	102	105	105	99	83,5	73,1	58,5	51,8		170		
180				77,9	88,9	88,1	87	84,2	77,2	60,7	54,4					85,3	94,2	96,1	93,4	82,7	73,1	57,8	51,5		180		
190					77,6	81,2	79,9	79,2	75,2	59,7	54,1						82,7	87,3	86,5	81	73,1	57,1	51,2		190		
200						73,8	73,8	73,3	71,4	58,5	53,6						70,1	78,6	79,1	77,9	72,4	56,2	51		200		
210						64,4	68,4	67,6	65,7	57,2	52,9							69,5	72,1	73,1	70,3	55,2	50,6		210		
220						53,6	61,5	62,9	60,8	55,9	51,6							58,7	65,2	67,2	65,8	54	50,2		220		
230							53,4	58,1	56,5	53,7	50,3								57,1	61,5	60,9	52,7	49,8		230		
240								52,3	52,6	50,9	48,8								48,3	55,3	56	51,2	49,3		240		
250								45,2	48,7	47,4	46,7									48,4	51,1	49,1	48,7		250		
260								37,5	43,2	44,2	43,5									40,7	45,6	46,2	46,8		260		
270									36,9	40,3	40,6										39,5	42,4	43,6		270		
280											35,6	37,6										37,8	39,9		280		
290											30,2	34,2										32,5	36,2		290		
300											24,8	29,6										27	31,8		300		
310												24,7											26,8		310		
320																							21,9		320		

tab_136088 / 136091 / 136094 / 136079 / 136082 / 136085

ft	S 138													S 157													ft
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217	236	256	276	295			
80	276												254												80		
85	261	247											244												85		
90	248	236											223	218											90		
95	237	225	208										223	211	192										95		
100	227	216	206										213	204	189	163									100		
105	216	207	199	180									213	204	189	163									105		
110	203	199	192	177	157								205	198	184	163									110		
115		191	185	172	157								194	191	178	162									115		
120		183	177	168	156	133								183	173	160	141								120		
125		173	170	163	154	133	111							176	167	158	140	122							125		
130		157	164	158	151	133	111							169	163	155	139	121	103						130		
135			155	153	146	132	111								157	151	137	121	103						135		
140			146	147	142	130	111	95,1	79,3						152	147	134	120	103	88,3					140		
150				133	132	125	111	95,1	79,1						132	137	129	118	103	88,3					150		
160				115	121	119	110	95,1	78,7	68,4	55,1					123	122	115	102	88,3	73,3	63,4			160		
170				92,9	108	109	108	95,1	78,3	68,4	55,1	48,2				104	113	111	100	88,3	73,2	63,4	51,7	43,8	170		
180					92,6	98,5	100	94	77,8	68,4	54,6	48,1					99,9	103	97,6	87,6	72,9	63,4	51,4	43,8	180		
190						87,4	91,2	90	77,1	68,4	54,1	48						84,1	94	93	86,1	72,5	63,4	51	43,7	190	
200						75,5	82,2	83,6	76	68,4	53,5	47,8							82,7	86,4	83,5	72	63,4	50,5	43,4	200	
210							73,8	76	74	68,4	52,8	47,6								78,1	79,2	71,3	63,4	49,6	43,2	210	
220							63,2	69,1	69,3	66,6	51,9	47								68,3	72,5	69,4	63,3	48,2	42,8	220	
230								61,3	63,8	62,8	50,9	46,2								57,6	65,2	65,8	62,1	46,6	42,4	230	
240								52,7	57,8	57,9	49,8	45,2									60,7	59,4	45,1	42		240	
250									51,3	52,9	48,2	44,3									54,8	55,3	43,7	41,5		250	
260									43,8	47,9	46	43,6									47,5	50,5	42,5	41,1		260	
270										42	43,6	42,5									40	45	41,4	40,6		270	
280										35,7	40,3	40,6										38,9	39,9	39,9		280	
290											35,6	37,5											37,4	38,5		290	
300											29,8	33,4											32,6	35,5		300	
310												28,7											27	31,1		310	
320												23,7												26,3		320	

tab_136088 / 136091 / 136094 / 136079 / 136082 / 136085



max. 441000 lbs
max. 49 ft

ft	S 177													S 197													ft
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217	236	256	276	295			
85	220																								85		
90	220																								90		
95	216												188												95		
100	209	189											183	164											100		
105	202	185	166										177	160	140										105		
110	196	180	163	144									172	156	140										110		
115	189	175	159	143									167	153	138										115		
120	181	170	156	140	124								161	149	136	123									120		
125		165	152	138	124								144	133	120	108									125		
130		160	148	135	122	107							141	130	119	106	91								130		
135		152	144	132	121	107							136	126	116	104	91								135		
140		143	140	129	119	106	92,3	79,3					132	123	114	103	91	80,6							140		
150			131	123	115	103	91,8	79,3						117	108	99,2	89,7	79,8							150		
160				117	110	100	90,7	79,2	67,9	58,4				103	95,2	87,1	78,2	69	59,9						160		
170				110	105	96,9	88,7	78,5	67,8	58,4	47,8			98,3	91	84	76,3	67,9	59,9	52,1	43				170		
180				91,5	101	93,3	86	77,1	67,5	58,4	47,2			92,5	87,1	80,6	73,9	66,4	59,2	51,5	43				180		
190					90,6	89,5	83,1	75,2	66,8	58,4	46,5	40,5			83	77,4	71,3	64,6	58,2	51	42,7	37,2			190		
200						84,2	80,1	73,1	65,6	58,1	45,8	40,3				74,1	68,7	62,5	56,9	50,3	42,3	37			200		
210						75,6	77,1	70,8	64	57,4	45	40,2				70,9	66,1	60,4	55,3	49,3	41,9	36,7			210		
220						62,3	71,8	68,4	62,3	56,2	44,2	39,9				65,5	63,6	58,3	53,6	47,9	41,3	36,3			220		
230							63,2	65,3	60,5	55	43,3	39,6					60,7	56,2	51,9	46,5	40,6	35,8			230		
240								60,3	58,5	53,6	42,4	39,2						54	50,2	45,2	39,8	35,2			240		
250								52,6	56,1	52	41,5	38,7						51,6	48,5	43,7	39	34,3			250		
260								43,4	50,8	50,4	40,6	38,3						46,2	46,7	42,3	38	33,5			260		
270									43,7	47,4	39,7	37,8								44,1	40,8	36,8	32,6		270		
280										42,7	38,8	37,4									39,2	35,6	31,6		280		
290										36,4	37,7	36,9									37,2	34,4	30,6		290		
300										29,9	34,6	35,8									32,5	33,2	29,5		300		
310											29,6	32,9										30,6	28,5		310		
320												28,7											27,2		320		
330												23,7											25,1		330		
340												18,8											21		340		

tab_136088 / 136091 / 136094 / 136079 / 136082 / 136085

ft	S 217													S 236													ft
	79	98	118	138	157	177	197	217	236	256	276	295	79	98	118	138	157	177	197	217	236	256	276				
100	158												133											100			
105	154	138											133											105			
110	150	135	122										129	115										110			
115	145	132	120										126	113										115			
120	141	129	118	104									122	111	101									120			
125	137	126	115	104									118	108	98,7	89,3								125			
130	132	122	113	102	91,2								115	105	96,6	87,5	75							130			
135		119	110	100	90,2									102	94,2	85,7	75							135			
140		116	107	98,2	88,8	78,6	67,8							99,6	91,8	83,9	75	66,9						140			
150			102	93,7	85,7	77,4	67,8							93,3	87,2	80	73,3	65,7						150			
160			96,2	89,1	82,2	75,2	67,4	59,9							82,6	75,9	70,3	63,5	56,9	49,2				160			
170			89,7	84,9	78,3	72,4	65,7	58,5	51,7	43,8					77,6	72,1	66,9	61,1	55,2	49,2	43,5			170			
180				80,1	74,8	69,2	63,4	57,2	50,7	43,8						68,4	63,7	58,2	53,2	47,9	42,4			180			
190					71,3	66,2	61	55,5	49,6	43,3	37,4	31,4				63,8	60,8	55,5	51	46,3	41,2	35,8	30,8	190			
200					67,5	63,3	58,5	53,6	48,4	42,5	36,7	31,3					57,6	53	48,7	44,5	40	34,8	30	200			
210						60,7	56,1	51,5	46,8	41,6	36,1	30,8						50,7	46,5	42,6	38,6	33,9	29,2	210			
220						57,3	53,9	49,6	45,1	40,3	35,3	30,3						47,9	44,5	40,7	36,9	32,7	28,4	220			
230							51,4	47,6	43,4	38,9	34,3	29,8						44,6	42,5	39	35,3	31,3	27,5	230			
240							48,7	45,7	41,8	37,5	33,2	29							40,2	37,3	33,8	29,9	26,4	240			
250								43,7	40,3	36,1	32,1	28								35,7	32,4	28,6	25,2	250			
260								41,1	38,8	34,7	31	27,1								33,5	31,1	27,4	24,1	260			
270									37	33,4	29,9	26,1								31,1	29,5	26,2	23	270			
280									34,9	32	28,8	25,2									27,7	25	21,9	280			
290										30,5	27,7	24,2										23,6	21	290			
300										28,6	26,5	23,3										22	19,9	300			
310											25,1	22,3										20,2	18,7	310			
320											23,6	21,2											17,4	320			
330												20												330			
340												18,7												340			

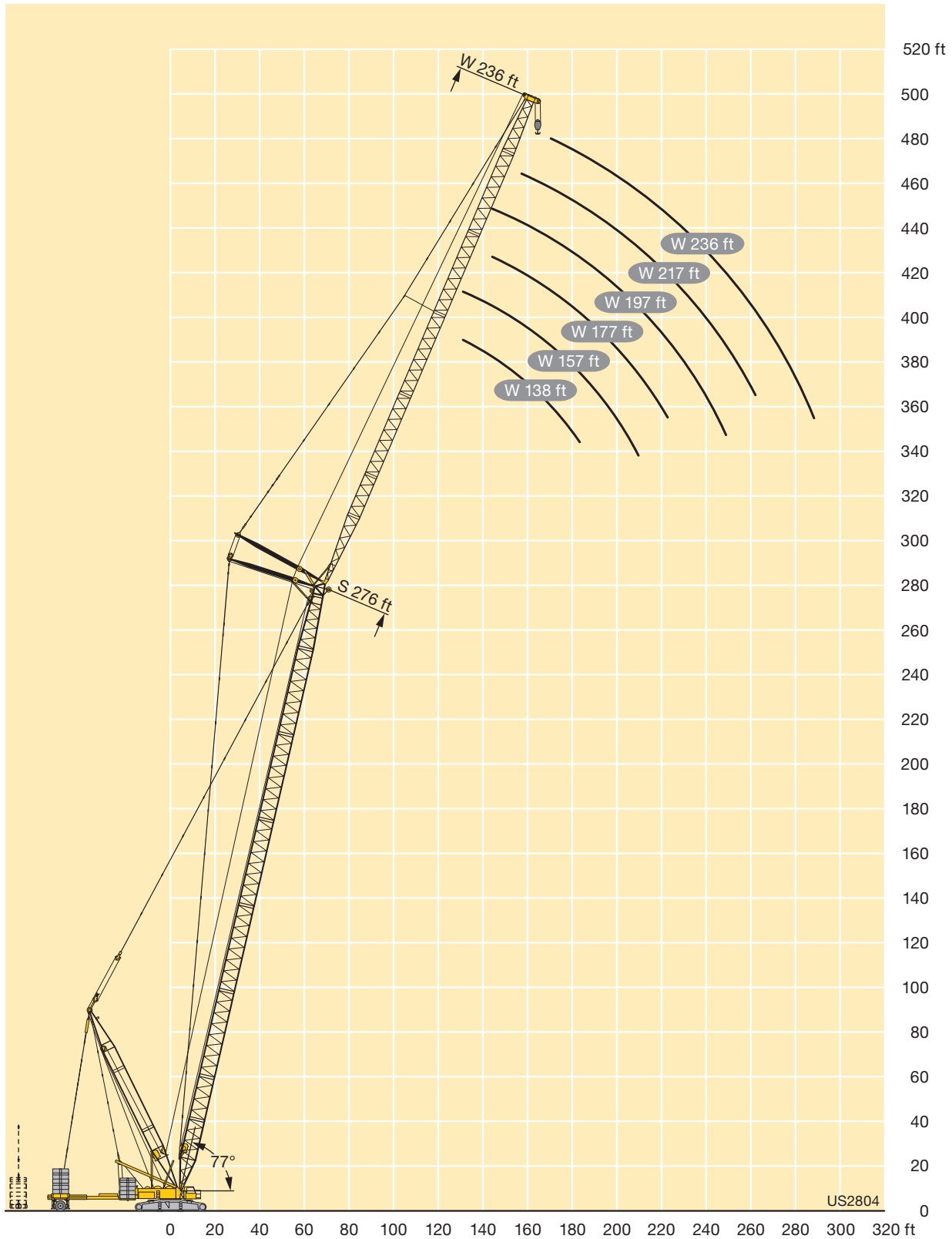
tab_136088 / 136091 / 136094 / 136079 / 136082 / 136085

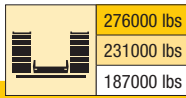
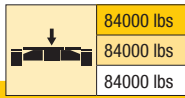


max. 441000 lbs
max. 49 ft

ft	S 256								S 276						ft	
	98	118	138	157	177	197	217	236	256	138	157	177	197	217		236
110	93,9															110
115	93,9															115
120	93,2															120
125	91,1	82,9														125
130	88,7	81,2	73,8													130
135	86,4	79,2	72,6													135
140	84,1	77,2	71,1	62,7	53					56,9	51,4					140
150	79,2	73,2	67,8	61,3	53					55,2	50					150
160		69,2	64,1	58,6	52,4	47,4				52,1	47,5	42,4	36			160
170		65,5	60,5	55,6	50,3	45,7	40,2	33,8		48,8	44,9	40,5	36	31,3		170
180			57,4	52,6	47,8	43,9	38,8	33,8		46,1	42,2	38,3	34,4	29,9		180
190			53,5	49,9	45,4	41,9	37,3	33	28,2	43,2	39,7	36	32,7	28,5	24,8	190
200				47,2	43	39,8	35,7	31,8	27,2		37,6	33,8	30,8	27	23,5	200
210					40,9	37,8	34	30,4	26,2		35,4	31,9	28,8	25,4	22,3	210
220					38,7	36	32,2	28,9	25		32,3	30,5	27,2	23,7	20,8	220
230					36,1	34,3	30,5	27,3	23,7			28,3	25,8	22,2	19,4	230
240						29,1	25,9	22,4	22,4				24,3	20,9	18	240
250							27,7	24,6	21,1				22,5	19,7	16,8	250
260							25,9	23,4	19,9				20,2	18,4	16	260
270							23,8	22,1	18,9					16,9	15,2	270
280								20,6	17,9						14,2	280
290									16,9						13,1	290
300									15,7						11,8	300
310									14,4							310

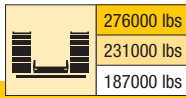
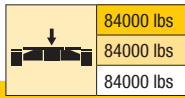
tab_136088 / 136091 / 136094 / 136079 / 136082 / 136085





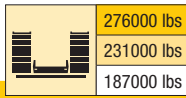
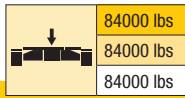
ft	SL 118															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
32	132															32
34	132															34
36	132			132												36
38	132			132												38
40	132			132												40
45	132	130		129			105									45
50	132	125		122			100									50
55	132	119	78.6	116	83.1		94.8			79.9			56.5			55
60	132	114	76.3	110	79.4		89.2			75.9			55.7			60
65	132	109	74.2	105	76	55.5	83.9	60.3		71.7			55.1			65
70	128	105	72.3	99.7	73	54	79.3	58.1		67.5			54.2			70
75	123	101	70.5	94.3	70.3	52.5	75.1	55.7		63.8	47		53			75
80	118	97.2	68.8	89.1	67.7	51.1	71.1	53.5	42.3	60.3	45		51.6			80
85	114	93.9	67.2	84.3	65.3	49.9	67.3	51.5	41	57.2	43.1		50.1	38.2		85
90	106	91.2	66	80.5	63.1	48.7	63.9	49.7	39.9	54.2	41.4		48.1	36.7		90
95	98.8	88.5	64.9	77.1	61	47.6	60.7	47.9	38.8	51.4	39.8	32.2	45.8	35.2		95
100	92.2	86	64	73.9	59.1	46.5	57.8	46.3	37.8	48.7	38.4	31.2	43.4	33.7		100
105	86.1	83.6	63	71	57.4	45.5	55.4	44.7	36.9	46.2	37	30.3	41.1	32.4	25.9	105
110	80.9	81	62.2	68.2	55.9	44.8	53.3	43.2	36	44.1	35.7	29.4	38.9	31.2	25	110
115	76.2	77	61.3	65.5	54.5	44.2	51.2	41.9	35.2	42.2	34.5	28.6	36.9	30.1	24.2	115
120	71.8	72.5	60.7	62.9	53.1	43.6	49.3	40.8	34.5	40.6	33.3	27.9	35.2	29	23.4	120
125	67.8	68.4	60.3	60.4	51.8	43	47.4	39.7	33.8	39	32.2	27.2	33.7	28	22.8	125
130	64.2	64.8	60.3	58.2	50.5	42.5	45.6	38.7	33.3	37.5	31.2	26.5	32.3	27	22.1	130
135	61			56.5	49.5	42	43.9	37.7	32.8	36.1	30.4	25.9	31.1	26.1	21.5	135
140	57.9			54.9	48.7	41.7	42.3	36.8	32.3	34.7	29.5	25.3	29.9	25.2	20.9	140
150				51.5	47.5		39.5	35.1	31.4	32.1	28	24.3	27.5	23.7	19.8	150
160							37.3	33.7	30.8	29.7	26.5	23.5	25.3	22.4	18.9	160
170							35.4	33	30.8	27.9	25.2	22.7	23.3	21.1	18.2	170
180							33.6			26.4	24.4	22.2	21.7	20	17.5	180
190										25	23.9		20.4	19.1	16.9	190
200													19.3	18.4	16.5	200

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



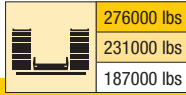
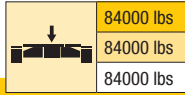
ft	SL 138															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
32	132															32
34	132															34
36	132															36
38	132															38
40	132			129												40
45	132	123		122			98.6									45
50	132	119		116			94.6									50
55	132	115	79.6	110	84.2		89.9			75.7						55
60	132	111	77.4	105	80.8		85.7			72.4			56.2			60
65	129	107	75.5	101	77.7	55.9	81.8	61.1		69.4			55.3			65
70	125	104	73.7	96.4	74.9	54.6	78.4	59		66.6			54.1			70
75	120	101	72	92.5	72.2	53.2	75.2	56.8		63.9	47.6		52.7			75
80	115	98.1	70.4	88.8	69.8	51.9	72.2	54.7	42.6	61.3	45.7		51.1			80
85	111	95.3	68.9	85.4	67.5	50.7	69.4	52.8	41.4	58.9	43.9		49.6	38.7		85
90	105	92.9	67.6	82.2	65.4	49.6	66.8	51	40.4	56.6	42.3		47.9	37.3		90
95	97.6	90.8	66.4	79.3	63.4	48.5	64.2	49.4	39.4	54.2	40.8	32.5	46.2	35.8		95
100	90.9	88.6	65.4	76.7	61.5	47.5	61.5	47.8	38.5	51.7	39.4	31.5	44.6	34.5		100
105	84.9	86.1	64.5	74.3	59.7	46.6	58.8	46.4	37.6	49.3	38.1	30.7	43.1	33.2		105
110	79.6	80.8	63.7	72.2	58.2	45.7	56.5	45	36.8	47	36.9	29.9	41.4	32.1	25	110
115	74.9	75.9	62.9	70.1	56.8	45	54.5	43.6	36	44.8	35.7	29.1	39.5	31	24.5	115
120	70.5	71.4	62.1	67.9	55.5	44.4	52.6	42.4	35.3	43	34.6	28.4	37.6	30	23.8	120
125	66.5	67.3	61.4	65.6	54.2	43.9	50.8	41.3	34.6	41.4	33.5	27.7	35.8	29	23.1	125
130	62.9	63.7	60.7	62.9	53	43.4	49	40.3	34	40	32.4	27.1	34.3	28	22.5	130
135	59.7	60.4	58.9	59.9	51.8	42.9	47.4	39.4	33.5	38.6	31.6	26.5	33.1	27.1	22	135
140	56.6	57.2	56.7	56.8	50.7	42.4	45.8	38.5	33	37.3	30.7	25.9	31.9	26.3	21.4	140
150	51.1	51.6		51.3	49	41.7	42.7	36.8	32.2	34.7	29.2	24.9	29.6	24.7	20.4	150
160				46.5	46.9		40	35.2	31.4	32.3	27.9	24.1	27.5	23.4	19.4	160
170				42.3	42.9		38	33.9	30.7	30	26.6	23.4	25.5	22.2	18.6	170
180							36.2	33.2	30.6	28.4	25.3	22.7	23.6	21.1	18	180
190							34.6	32.7		26.9	24.5	22.2	22	20.1	17.5	190
200										25.6	24		20.8	19.2	16.9	200
210													19.7	18.5	16.4	210
220													18.7	18.1	16.4	220
230													17.8			230

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



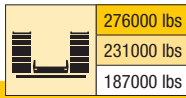
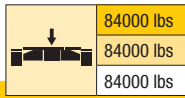
ft	SL 157															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
36	132															36
38	132															38
40	132															40
45	132	131		129			103									45
50	132	128		124			100									50
55	132	124	80.4	119			95.9			77.6						55
60	132	120	78.4	114	88.3		92.1			75.6			54.7			60
65	132	116	76.6	109	85.3	56.3	88.6	67.2		73.1			53.6			65
70	132	113	74.9	105	82.4	55	85.3	65.1		70.9			52.4			70
75	129	110	73.3	102	79.8	53.7	82.2	62.8		68.6			51			75
80	122	107	71.8	98	77.3	52.5	79.3	60.7		66.3	50.7		49.5			80
85	112	104	70.4	94.7	75	51.4	76.6	58.7	41.8	64.1	48.8		48.3	43.1		85
90	104	101	69.1	91.7	72.8	50.3	74.1	56.9	40.8	62	47.2		47.1	41.6		90
95	96.6	96.9	67.8	88.7	70.8	49.3	71.7	55.2	39.9	60	45.6		46.1	40.1		95
100	89.8	91.3	66.7	86	68.9	48.4	69.5	53.7	39	58.1	44.2	32.9	45.1	38.7		100
105	83.8	85.2	65.7	83.4	67	47.5	67.3	52.1	38.2	56.3	42.8	32	44.2	37.4		105
110	78.6	79.8	64.8	78.7	65.3	46.7	65	50.7	37.4	54.2	41.6	31.3	43.3	36.2	27.5	110
115	73.8	75	64.1	74.1	63.8	45.9	62.6	49.3	36.7	52	40.4	30.5	42.5	35.1	27	115
120	69.4	70.5	63.4	69.7	62.3	45.2	60.5	48	36	49.9	39.2	29.9	41.7	34	26.3	120
125	65.3	66.4	62.7	65.6	61	44.5	58.5	46.8	35.3	47.9	38.1	29.2	40.9	33	25.6	125
130	61.7	62.7	62	62	59.8	44.1	56.7	45.6	34.7	46.2	37.1	28.6	39.9	32	25	130
135	58.5	59.4	59.6	58.8	58	43.6	55	44.7	34.2	44.8	36.1	28.1	38.6	31.1	24.4	135
140	55.5	56.2	56.6	55.7	56	43.2	53.3	43.7	33.7	43.4	35.2	27.5	37.3	30.2	23.9	140
150	49.9	50.6	51	50.1	51.3	42.3	49.6	41.9	32.8	40.7	33.5	26.5	34.8	28.5	22.8	150
160	45.1	45.7		45.3	46.3	41.6	45.6	40.3	32	38.2	32	25.6	32.5	27	21.8	160
170	40.9	41.3		41	41.9	41.1	41.3	38.7	31.4	35.8	30.7	24.9	30.4	25.7	20.9	170
180				37.4	38.1		37.7	37.5	30.7	33.6	29.4	24.3	28.5	24.6	20.3	180
190				34.2			34.4	35.1	30.5	31.8	28.3	23.8	26.6	23.5	19.7	190
200							31.4	32.2		30.2	27.3	23.3	24.9	22.4	19.2	200
210										28.6	26.7		23.6	21.5	18.7	210
220										26	26.3		22.5	20.8	18.2	220
230										23.7			21.5	20.3	18.1	230
240													20.5	19.9		240

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



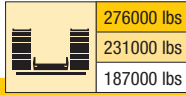
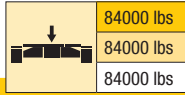
ft	SL 177															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
36	132															36
38	132															38
40	132															40
45	132	123		121												45
50	132	120		117												50
55	132	116		112			90.2			74						55
60	132	113	79.2	108	82.2		86.6			71.8			54.6			60
65	132	110	77.4	104	79.8		83.4			69.4			53			65
70	130	107	75.8	100	77.6		80.5			67.2			51.5			70
75	126	104	74.3	96.7	75.6	54.1	77.7	60.9		65.1			50			75
80	119	102	72.8	93.5	73.7	53	75	59.2		63	50.2		48.7			80
85	111	99.8	71.5	90.6	71.9	51.9	72.6	57.7	42	60.9	48.8		47.5			85
90	103	97.8	70.3	87.9	70.3	50.9	70.3	56.3	41.1	59	47.5		46.4			90
95	95.4	94.8	69.1	85.3	68.7	50	68.2	54.9	40.2	57.2	46.4		45.5	39.7		95
100	88.7	90.4	68	82.8	67.3	49	66.1	53.7	39.4	55.5	45.2	33.6	44.5	38.7		100
105	82.7	84.2	66.9	80.4	65.8	48.2	64.2	52.5	38.6	53.8	44.1	32.8	43.7	37.8		105
110	77.4	78.8	65.9	77.1	64.5	47.4	62.3	51.4	37.9	52.3	43	32.1	42.8	36.8	27.6	110
115	72.6	73.9	65.1	72.9	63.3	46.7	60.6	50.3	37.2	50.8	41.9	31.4	41.8	35.8	27.2	115
120	68.2	69.4	64.4	68.5	62.1	45.9	58.9	49.2	36.5	49.4	40.8	30.8	40.7	34.7	26.5	120
125	64.2	65.3	63.7	64.4	61.1	45.2	57.3	48.2	35.9	48	39.7	30.2	39.7	33.7	25.9	125
130	60.5	61.6	61.9	60.8	60.2	44.7	56	47	35.3	46.7	38.7	29.6	38.7	32.8	25.3	130
135	57.3	58.3	59.1	57.6	58.1	44.2	54.7	46	34.7	45.6	37.7	29	37.8	31.9	24.7	135
140	54.3	55.2	55.9	54.5	55.5	43.8	53.4	45.1	34.2	44.5	36.8	28.5	36.9	31.1	24.2	140
150	48.7	49.5	50.1	48.9	50.2	43	49.3	43.3	33.3	42.5	35.1	27.5	35.3	29.4	23.2	150
160	43.9	44.6	45	44	45.2	42.2	44.4	41.7	32.5	40.6	33.6	26.5	33.7	27.9	22.2	160
170	39.7	40.3	40.6	39.8	40.8	41.3	40.1	40.2	31.9	38.6	32.2	25.8	32	26.6	21.4	170
180	36.1	36.6		36.2	37.1	37.7	36.5	37.4	31.3	36.3	31	25.2	30.3	25.5	20.7	180
190	32.9			32.9	33.7		33.2	34.3	30.7	33.4	29.9	24.6	28.5	24.4	20.1	190
200				30	30.6		30.2	31.2	30	30.4	28.8	24.1	26.8	23.4	19.6	200
210							27.4	28.3		27.5	27.7	23.6	25.2	22.5	19.1	210
220							24.8	25.7		25	25.9	23.3	23.9	21.6	18.6	220
230										22.6	23.7		22.1	20.9	18.2	230
240										20.4	21.3		20.2	20.2	18	240
250													18.2	19.3		250
260													16.3	17.3		260

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



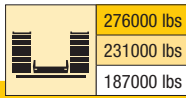
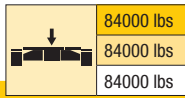
ft	SL 197															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
40	132															40
45	132			109												45
50	131			105												50
55	128	104		101			81.5									55
60	122	101	79.5	96.5	73.8		78.2			65.4						60
65	118	97.4	77.9	92.7	71.7		75.1			63			52			65
70	114	94.5	76.3	89.3	69.8		72.3			60.8			50.8			70
75	110	91.8	74.9	86	67.9	54.8	69.7	54.5		58.7			49.4			75
80	106	89.3	73.5	83	66.2	53.7	67.2	52.9		56.8	44.9		47.9			80
85	103	87	72.3	80.2	64.4	52.7	64.9	51.3	42.1	54.9	43.6		46.5			85
90	99.4	84.8	71.1	77.7	62.8	51.8	62.7	50	41.2	53	42.3		45.1			90
95	94.2	82.7	70	75.2	61.3	50.9	60.7	48.7	40.4	51.3	41.1		43.6	35.6		95
100	87.9	80.7	68.9	72.9	59.9	50	58.8	47.5	39.6	49.7	39.9	33.3	42.2	34.7		100
105	81.9	78.8	67.9	70.6	58.5	49.2	57	46.3	38.8	48.1	38.8	32.6	40.8	33.9		105
110	76.6	77	66.9	68.5	57.2	48.4	55.2	45.3	38.2	46.7	37.9	31.9	39.6	33.1		110
115	71.8	73.2	66	66.5	55.9	47.7	53.6	44.3	37.5	45.3	37.1	31.3	38.4	32.3		115
120	67.4	68.7	65.2	64.6	54.7	47	52	43.4	36.9	43.9	36.3	30.7	37.2	31.5	25.4	120
125	63.3	64.6	64.3	62.9	53.5	46.4	50.4	42.5	36.3	42.6	35.5	30.1	36.2	30.7	24.9	125
130	59.7	60.9	61.6	60.1	52.5	45.7	49	41.6	35.7	41.4	34.8	29.6	35.1	30	24.4	130
135	56.5	57.6	58.5	57.1	51.6	45.2	47.8	40.8	35.2	40.3	34.1	29.1	34.1	29.3	23.9	135
140	53.4	54.5	55.3	54	50.7	44.7	46.7	40	34.6	39.2	33.4	28.7	33.1	28.6	23.5	140
150	47.9	48.8	49.5	48.4	48.2	43.8	44.5	38.6	33.7	37.2	32.1	27.8	31.3	27.3	22.7	150
160	43	43.8	44.4	43.5	44.8	42.8	42.2	37.3	32.9	35.4	30.9	27	29.7	26.1	21.9	160
170	38.8	39.5	40	39.3	40.4	41.1	39.1	36.2	32.2	33.8	29.9	26.2	28.2	25	21.3	170
180	35.3	35.8	36.2	35.6	36.7	37.4	35.6	35.1	31.7	32.3	28.9	25.5	26.9	24.1	20.6	180
190	32	32.5		32.3	33.2	33.8	32.2	33.1	31.1	30.9	28	25	25.6	23.3	20	190
200	29	29.4		29.3	30.1		29.2	30.4	30.2	29.1	27.1	24.5	24.4	22.5	19.6	200
210				26.4	27.2		26.3	27.5	28.3	26.5	26.3	24	23.3	21.7	19.2	210
220				23.9	24.5		23.7	24.8	25.4	23.9	25	23.5	22.1	21	18.8	220
230							21.4	22.3		21.5	22.9	22.7	20.8	20.4	18.4	230
240							19.3	20		19.4	20.5		19.1	19.6	18.1	240
250										17.4	18.3		17	18.4	17.7	250
260										15.6	16.3		15.2	16.5	16.9	260
270													13.6	14.6		270
280													12	12.8		280

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



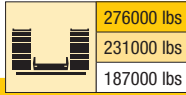
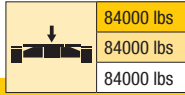
ft	SL 217															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
40	131															40
45	125			97.5												45
50	118			93.9												50
55	112	91.8		89.7			73.2									55
60	107	88.6	74.3	85.8			70			59.4						60
65	103	85.6	72.3	82.2	63.8		67.1			56.9			47.8			65
70	99	82.8	70.4	78.9	62		64.5			54.7			46.3			70
75	95.3	80.1	68.6	75.9	60.1	50.7	62	48.9		52.6			44.7			75
80	91.9	77.7	66.9	73	58.3	49.5	59.6	47.5		50.6			43.2			80
85	88.7	75.4	65.3	70.4	56.7	48.3	57.5	46.1		48.8	39		41.8			85
90	85.7	73.3	63.8	68	55.1	47.2	55.5	44.8		47	37.9		40.5			90
95	82.8	71.3	62.4	65.7	53.6	46.2	53.6	43.5	36.8	45.4	36.8		39.1	31.8		95
100	80.1	69.4	61.1	63.5	52.2	45.2	51.8	42.4	36	43.8	35.8		37.7	30.8		100
105	77.5	67.6	59.8	61.4	50.8	44.2	50.1	41.3	35.2	42.3	34.7	28.9	36.3	29.9		105
110	74.6	65.8	58.6	59.5	49.6	43.3	48.5	40.2	34.5	41	33.8	28.2	35.1	29		110
115	70.5	64.1	57.5	57.5	48.4	42.5	47	39.2	33.7	39.6	32.9	27.6	33.9	28.2		115
120	66	62.5	56.4	55.7	47.2	41.7	45.6	38.3	33	38.4	32	27	32.8	27.4	22.4	120
125	62	61	55.3	54	46.1	40.9	44.2	37.3	32.4	37.2	31.2	26.4	31.7	26.7	21.9	125
130	58.3	59.2	54.4	52.5	45.1	40.2	42.8	36.5	31.8	36	30.4	25.8	30.7	26	21.3	130
135	55.1	56.4	53.3	51.2	44.1	39.5	41.6	35.7	31.2	34.9	29.7	25.3	29.7	25.3	20.9	135
140	52	53.2	52.2	49.9	43.2	38.8	40.5	34.8	30.6	33.8	29	24.8	28.7	24.7	20.4	140
150	46.5	47.5	48.3	46.4	41.5	37.6	38.4	33.4	29.5	31.9	27.7	23.8	26.9	23.4	19.6	150
160	41.6	42.5	43.2	42.2	40	36.6	36.5	32	28.5	30.1	26.4	22.9	25.3	22.3	18.8	160
170	37.4	38.2	38.8	37.9	38.6	35.7	34.8	30.9	27.7	28.6	25.3	22	23.9	21.2	18.1	170
180	33.8	34.5	35	34.1	35.2	34.9	33.2	29.8	27	27.2	24.3	21.3	22.6	20.2	17.4	180
190	30.4	31.1	31.4	30.6	31.8	32.5	30.9	28.8	26.3	25.9	23.4	20.7	21.5	19.4	16.8	190
200	27.2	27.9		27.6	28.6	29.2	28	27.7	25.7	24.6	22.6	20.2	20.4	18.7	16.2	200
210	24.4	24.9		24.8	25.6		25.1	26.5	25.1	23.4	21.8	19.7	19.4	18	15.7	210
220	21.9	22.4		22.2	23		22.5	23.8	23.6	21.5	21	19.2	18.4	17.4	15.3	220
230				19.9	20.6		20.1	21.3	21.6	19.6	20.3	18.7	17.4	16.8	14.9	230
240				17.8			18	18.9		17.6	19.1	18.1	16.3	16.3	14.5	240
250							16	16.8		15.8	17		15	15.7	14.1	250
260							14.2	14.8		13.9	15		13.5	14.8	13.7	260
270										12.3	13.2		11.9	13.3	13.3	270
280										10.7			10.4	11.5		280
290													8.9	9.9		290
300													7.5	8.4		300

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



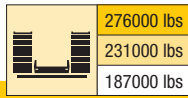
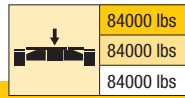
ft	SL 236															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
45	122															45
50	118															50
55	114	91.2		89.1												55
60	110	89.4		86			68.6			57.4						60
65	106	87.6	71	83.2	62.2		66.2			55.5			46.6			65
70	103	85.4	70	80.7	61		64			53.5			45.4			70
75	100	83.3	68.8	78.2	59.6		61.9	47.2		51.8			44.1			75
80	97.1	81.3	67.6	75.8	58.4	48.3	59.9	46		50.1			42.9			80
85	94.4	79.3	66.5	73.4	57.2	47.5	58.1	44.8		48.5	37.3		41.8			85
90	91.7	77.6	65.5	71.3	56	46.7	56.4	43.8		47	36.5		40.8			90
95	87.2	75.9	64.5	69.3	54.8	45.9	54.9	42.8	35.7	45.6	35.7		39.7			95
100	81.7	74.3	63.6	67.4	53.6	45.3	53.4	41.9	35.1	44.3	34.9		38.5	29.8		100
105	76.7	72.8	62.7	65.6	52.5	44.6	52	41	34.6	43.1	34.2	27.6	37.4	29		105
110	72.2	71.4	61.9	63.9	51.5	44	50.7	40.3	34	42	33.5	27.1	36.2	28.3		110
115	68.1	69.1	61.1	62.3	50.5	43.4	49.4	39.5	33.5	40.9	32.9	26.6	35.2	27.7		115
120	64.2	66.1	60.4	60.7	49.5	42.9	48.2	38.8	33	39.8	32.2	26.1	34.2	27	21.4	120
125	60.6	62.4	59.6	59.2	48.6	42.4	47	38.1	32.5	38.8	31.6	25.7	33.2	26.4	21	125
130	57.2	58.7	58.7	56.9	47.7	41.9	45.9	37.5	32.1	37.9	31	25.3	32.3	25.9	20.6	130
135	54	55.4	56.2	54.2	46.9	41.4	44.8	36.9	31.6	37	30.4	24.9	31.4	25.3	20.3	135
140	50.9	52.2	53.1	51.3	46.1	41	43.8	36.3	31.2	36.1	29.9	24.5	30.5	24.8	19.9	140
150	45.2	46.4	47.3	46	44.7	40.2	41.9	35.1	30.4	34.4	28.9	23.8	28.9	23.8	19.3	150
160	40.2	41.3	42.1	41	42.7	39.3	39.9	34.1	29.7	32.8	27.9	23.1	27.4	22.9	18.7	160
170	35.8	36.8	37.5	36.8	38.2	38.5	37.2	33.1	29	31.4	27	22.5	26	22	18.1	170
180	32	32.9	33.5	33	34.4	35.2	33.4	32.3	28.6	30.1	26.1	22	24.8	21.2	17.5	180
190	28.6	29.4	29.7	29.5	30.8	31.8	29.9	30.7	28.2	28.5	25.4	21.5	23.7	20.5	17	190
200	25.6	26.3	26.2	26.3	27.5	28.3	26.7	28.4	27.6	26.3	24.7	21.1	22.7	19.9	16.5	200
210	22.9	23.5		23.3	24.5	24.7	23.8	25.4	26.3	23.4	24	20.9	21.7	19.3	16.1	210
220	20.5	21		20.9	21.8	21.7	21	22.6	23.6	20.9	22.4	20.6	20.1	18.9	15.9	220
230	18.3	18.7		18.5	19.4		18.6	20.1	20.7	18.3	20.2	20	18.1	18.4	15.7	230
240	16.2			16.4	17.2		16.5	17.8	18	16	17.9	18.8	15.8	17.4	15.5	240
250				14.5	15.1		14.6	15.7		14	15.6	16.7	13.5	15.6	15.2	250
260				12.7	13.2		12.8	13.7		12.5	13.9	14.6	11.7	13.8	14.5	260
270							11.2	11.9		10.9	12.1		10.4	12.1	13.1	270
280										9.3	10.3		9	10.4	11.3	280
290										7.9	8.7			8.8		290
300										6.5	7.2			7.3		300

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



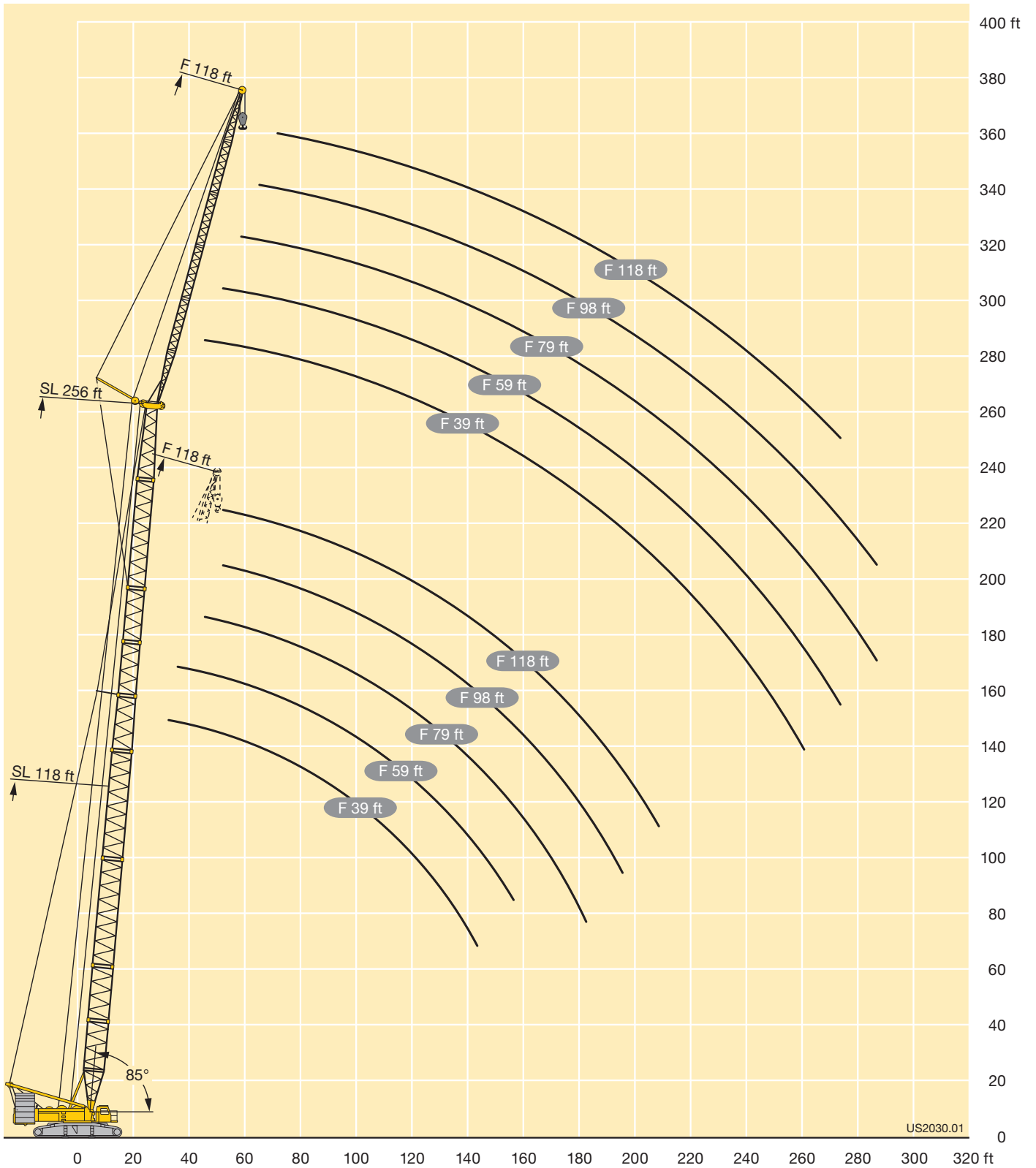
ft	SL 256															ft
	F 39			F 59			F 79			F 98			F 118			
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	
45	110															45
50	106															50
55	102			80.8												55
60	97.5	80.1		77.5			63.1									60
65	93.8	77.7	65.1	74.5	57.3		60.6			51.2						65
70	90.4	75.4	63.8	71.8	55.8		58.3			49.5						70
75	87.3	73.3	62.3	69.3	54.1		56.2			47.7			40.4			75
80	84.5	71.2	60.8	66.9	52.6	44.3	54.3	42.6		45.9			39			80
85	81.7	69.3	59.5	64.7	51.2	43.3	52.4	41.4		44.3	34.7		37.7			85
90	79.2	67.5	58.2	62.6	49.9	42.4	50.7	40.3		42.8	33.8		36.5			90
95	76.8	65.8	57	60.6	48.6	41.5	49	39.2	32.8	41.4	32.8		35.3			95
100	74.6	64.3	55.9	58.8	47.3	40.6	47.5	38.2	32.1	40	31.9		34.1	27.3		100
105	72.4	62.7	54.8	57	46.2	39.8	46.1	37.2	31.4	38.7	31.1	25.4	33	26.5		105
110	69.4	61.3	53.8	55.4	45.2	39.1	44.7	36.3	30.7	37.5	30.3	24.9	31.9	25.7		110
115	65.8	59.9	52.9	53.8	44.1	38.3	43.4	35.4	30.1	36.3	29.5	24.3	30.8	25		115
120	62	58.6	52	52.3	43.1	37.6	42.2	34.6	29.5	35.3	28.7	23.7	29.8	24.3		120
125	58.5	57.3	51	50.8	42.2	37	41	33.9	29	34.2	28	23.2	28.8	23.7	19.1	125
130	55.2	56.1	50.2	49.4	41.3	36.3	39.8	33.1	28.4	33.2	27.4	22.7	28	23.1	18.7	130
135	52.3	53.7	49.3	48.1	40.5	35.8	38.8	32.4	27.9	32.2	26.8	22.3	27.1	22.5	18.3	135
140	49.5	51	48.5	46.9	39.6	35.2	37.7	31.8	27.5	31.3	26.1	21.9	26.3	22	17.9	140
150	44.3	45.7	45.6	43.3	38.1	34.1	35.7	30.5	26.5	29.5	25	21.1	24.7	21	17.2	150
160	39.7	40.8	41.7	39.1	36.7	33.1	34	29.3	25.6	27.9	23.9	20.3	23.2	20	16.5	160
170	35.3	36.4	37.2	35	35.5	32.2	32.4	28.1	24.8	26.4	22.9	19.6	21.8	19.1	15.9	170
180	31.5	32.5	33.1	31.3	32.5	31.4	30.8	27.2	24.1	25.2	21.9	19	20.6	18.3	15.4	180
190	28	28.8	29.1	27.8	29.3	29.6	28.1	26.3	23.5	24	21.1	18.4	19.6	17.5	14.8	190
200	24.7	25.2	25.2	24.6	26	26.9	24.9	25.3	23	22.9	20.4	17.9	18.7	16.8	14.3	200
210	21.5	21.7	21.4	21.7	23	23.5	22	23.7	22.5	21.6	19.8	17.4	17.8	16.2	13.9	210
220	19.3	19.3	18.9	18.8	20.1	20.3	19.5	21	21.3	19.1	19.2	17.1	17	15.7	13.5	220
230	17.1	17.3		16.5	17.5	17.5	16.9	18.6	19.3	16.7	18	16.7	15.8	15.2	13.2	230
240	15	15.4		14.6	15.4		14.6	16.3	16.9	14.5	16.3	16.2	14.2	14.7	12.9	240
250	13.1	13.5		13	13.7		12.8	14.3	14.3	12.4	14.2	15.2	12.4	14.2	12.6	250
260	11.3	11.6		11.2	11.9		11.3	12.4	12.4	10.6	12.5	13.4	10.3	12.4	12.3	260
270				9.6	10.1		9.7	10.7		9.3	10.8	11.5	8.6	10.8	11.5	270
280							8.2	9		7.9	9.1			9.2	10.2	280

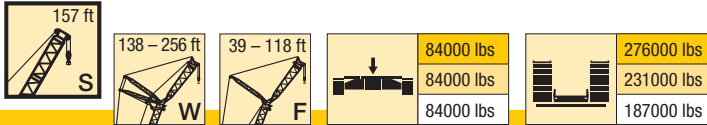
TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



ft	SL 276												SL 295						SL 315			ft							
	F 39			F 59			F 79			F 98			F 39			F 59			F 39										
	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°	10°	25°	40°		10°	25°	40°				
55	103			78.1												88.8								85.1			55		
60	100	77		75.6				59.7								85.6	71.5		68.9					83.5			60		
65	97.4	75.1	61.7	73.2				57.8				48.5				82.7	69.4		66.4					81.8	67.4		65		
70	94.5	73.4	60.8	71.1				56				47				79.9	67.5		64.2					78.6	67.1		70		
75	91.8	71.9	59.8	69.1	51.9			54.4				45.5				77.2	65.6	55.8	62.1	48.5				75.7	66.6	53.7	75		
80	89.3	70.6	59	67.2	50.9	42		52.9	40.2			44				74.6	63.8	54.5	60.2	47.3				73.2	66	52.8	80		
85	87	69.3	58.3	65.5	50	41.3		51.4	39.3			42.7				72.2	62.1	53.2	58.3	46.2	39.2			70.7	64.8	52	85		
90	84.8	68.2	57.6	63.9	49.1	40.7		50.1	38.4			41.4				70.1	60.5	52	56.6	45.2	38.3			69	63.3	51.4	90		
95	81.1	67.2	57	62.4	48.3	40.1		48.8	37.6			40.2	30.8			68	59	50.9	54.9	44.3	37.4			66.8	61.9	50.8	95		
100	76.4	66.2	56.4	61	47.5	39.5		47.7	36.8	30			39.1	30.1			66.1	57.5	49.9	53.3	43.3	36.6			64.5	60.7	50.2	100	
105	71.6	65.2	55.9	59.7	46.8	39		46.6	36.1	29.5			38.1	29.4			64.3	56.2	49	51.8	42.3	35.7			62.8	59.5	49.7	105	
110	67.3	64.3	55.4	58.4	46.2	38.5		45.6	35.4	29			37.2	28.7	22.7		62.5	54.8	48.1	50.3	41.4	35			60.3	58.3	49.2	110	
115	63.4	63.5	54.9	57.2	45.5	38.2		44.7	34.8	28.5			36.4	28.1	22.5		59.8	53.5	47.2	49	40.5	34.3			57.1	57.3	48.8	115	
120	59.7	61.7	54.4	56.1	44.9	37.9		43.8	34.2	28.1			35.6	27.5	22.1		56.6	52.3	46.4	47.7	39.6	33.7			53.7	55.5	48.3	120	
125	56.2	58.2	54	54.9	44.3	37.6		42.9	33.6	27.8			34.9	27	21.7		53.2	51.1	45.5	46.4	38.8	33.2			50.4	52.6	47.9	125	
130	53	54.9	53.6	52.8	43.8	37.3		42.1	33.1	27.5			34.2	26.6	21.3		50.1	50	44.8	45.2	38	32.7			47.3	49.4	47.5	130	
135	50.2	52	51.9	50.2	43.2	37.1		41.3	32.6	27.4			33.5	26.2	21		47.3	48.1	44	44.1	37.3	32.2			44.5	46.6	46.1	135	
140	47.4	49.1	49.8	47.5	42.7	36.8		40.5	32.2	27.1			32.8	25.8	20.7		44.5	45.9	43.3	43	36.5	31.8			41.9	43.8	44.4	140	
150	42.4	43.9	45.2	42.5	41.6	36.3		39	31.2	26.8			31.6	25	20.3		39.6	41.3	41.1	39.6	35.1	30.9			37	38.8	40.2	150	
160	37.9	39.3	40.4	38	39.7	35.8		36.9	30.4	26.4			30.4	24.3	19.8		35.1	36.7	37.9	35.4	33.8	30			32.6	34.2	35.5	160	
170	33.9	35.1	36.1	34	35.9	35.2		33.2	29.6	26.1			29.2	23.6	19.4		31.2	32.6	33.7	31.4	32.5	29.2			28.7	30.2	31.2	170	
180	30.1	31.2	32	30.4	32.1	32.9		29.7	28.9	25.8			28	23	19		27.7	29	29.9	28	29.7	28.4			25.3	26.7	27.5	180	
190	26.6	27.6	28.2	27	28.6	29.8		26.5	27.6	25.5			25.7	22.4	18.6		24.5	25.6	26.4	24.8	26.5	26.8			22.2	23.5	24.2	190	
200	23.5	24.3	24.7	23.9	25.3	26.3		23.5	25.5	25			22.9	21.9	18.3		21.4	22.4	23	21.8	23.4	24.5			19.3	20.5	21.1	200	
210	20.5	21	21.2	21	22.3	23.3		20.7	22.5	23.9			20.3	21.4	18		18.6	19.5	19.8	19	20.4	21.4			16.6	17.6	18.2	210	
220	17.7	17.9	18	18.5	19.7	20.4		18.2	19.8	21.1			17.7	19.6	17.9		15.8	16.5	16.7	16.4	17.8	18.7			14.3	15.1	15.4	220	
230	15.5	15.5	15.4	15.9	17.1	17.6		15.9	17.3	18.5			15.4	17.3	17.5		13.3	13.7	13.9	14.2	15.4	16.2			11.9	12.5	12.8	230	
240	13.8	13.7		13.6	14.7	14.9		13.7	15.1	16.1			13.4	15.1	16.4		11.3	11.4	11.4	12	13.2	13.7			9.7	10.1	10.3	240	
250	12.1	12.2		11.9	12.6			11.6	13.2	14			11.7	13.2	14.3		9.8	9.7		9.8	11	11.2				7.9		250	
260	10.3	10.7		10.5	11.2			9.9	11.6	11.7			9.6	11.5	12.5		8.4	8.5		8.4	9.1	9.1				6.5		260	
270	8.7	9.1		8.9	9.6			8.5	9.8	9.8			8	9.9	10.7						7.8	7.6						270	
280					8				8.1					8.2	9														280

TAB 136060 / 136061 / 136063 / 136066 / 136067 / 136069 / 136072 / 136073 / 136075



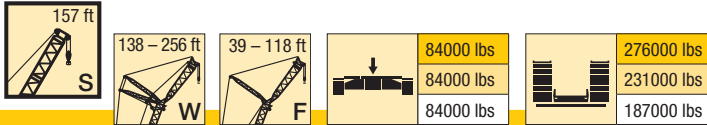


ft	S 157																				ft		
	W 138										W 157												
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118				
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°			
65	109																					65	
70	107																					70	
75	105			87.3							93.9											75	
80	103	89.6	85.9			67.8					92.3		78.4									80	
85	99.5	87.6	84			67.3		52.5			90.7	81.5	77.6		61.7							85	
90	94	85.7	82.2			66		52.1			89.1	80	76.2		61.2							90	
95	88.8	83.9	80	62		64.5		51.7		39.8	85.7	78.4	74.8		60.2		48.3			37.4		95	
100	84	82.2	77.7	60.5		63		51.3		39.3	81.3	77	73.3	56.7	59		47.9			37.1		100	
105	79.5	80.5	75.4	59.1		61.2	48	50.9		38.8	76.9	75.6	71.5	55.5	57.8		47.5			36.7		105	
110	75.6	77.5	73.3	57.8		59.4	46.8	49.9		38.4	73.1	73.9	69.7	54.4	56.5	43.6	47			36.4		110	
115	71.8	74	71	56.6		57.7	45.7	48.7		37.9	69.4	70.8	67.6	53.3	55	42.9	46.2			36.1		115	
120	68.4	70.4	68.3	55.5		56	44.7	47.4	37.2	37.4	66	67.3	65.1	52.3	53.5	42	45.2			35.7		120	
125	65.2	67.1	65.1	54.4		54.4	43.7	46.1	36.3	36.9	62.9	64.1	62	51.3	52	41.1	44	33.9		35.3		125	
130	62.2	64	62.2	53.3		52.9	42.8	44.8	35.4	36.5	60	61.1	59.2	50.3	50.7	40.3	42.9	33.1	34.8	27.8		130	
135	59.6	61.2	59.6	52.4		51.5	42	43.7	34.6	35.9	57.3	58.3	56.6	49.5	49.4	39.5	41.8	32.4	34.3	27.3		135	
140	57	58.5	57.1	51.6		50.1	41.2	42.5	33.9	35.3	54.8	55.7	54.1	48.6	48.1	38.8	40.8	31.7	33.7	26.7		140	
150	52.3	53.7	52.4	50		47.5	39.7	40.3	32.5	33.9	50.2	50.9	49.6	47.1	45.7	37.4	38.8	30.5	32.3	25.5		150	
160	48	49.1	48.2	48.2		45.1	38.3	38.3	31.2	32.4	46.1	46.6	45.5	43.5	36.2	36.9	29.3	30.9	24.4	160		160	
170	43.6	44.4	44.4	45		42.8	37.2	36.3	30	30.8	42.4	42.8	41.9	42.8	41.4	35	35.1	28.2	29.5	23.4		170	
180	39.6		40.5	41		40	36.2	34.6	28.8	29.3	38.7	38.8	38.5	39.3	38.3	34.1	33.5	27.3	28.1	22.5		180	
190			37			36.9	35.3	32.9	27.7	27.9	35.1		35.2	35.8	35	33.2	32	26.5	26.8	21.7		190	
200						33.7	34.1	31.5	26.7	26.5	32		32	32.3	31.8	32.2	30.5	25.8	25.6	20.9		200	
210								30.2	25.7	25.3						28.9	30.5	29.3	25.1	24.4	20.3		210
220								28.4	25	24.3						26.4	27.7	26.9	24.6	23.3	19.7		220
230								26.3		23.4						24		24.7	23.9	22.4	19.2		230
240										22.5								22.5	22.7	21.3	18.7		240
250																				19.9	18.3		250
260																				18.1	17.9		260
270																				16.6			270

TAB 136140 / 136141 / 136142 / 136146 / 136147 / 136148

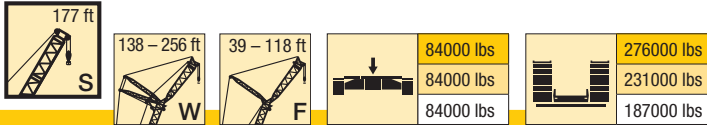
ft	S 157																				ft		
	W 177										W 197												
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118				
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°			
80	82																					80	
85	80.6			68.7							71.5											85	
90	79.3			67.5							70.5											90	
95	78	70.6		66.1		55.2					69.4	66.6	61.5									95	
100	76.2	69.2	64.8			54.1		44.3		34.7	68.4	65.5	60.8		50.3		40.7					100	
105	73.4	67.8	63.6	51.6		52.9		44		34.5	67.3	64.5	60.1		49.8		40.4			31.9		105	
110	69.6	66.5	62.2	50.5		51.8		43.3		34.2	66	63.6	59.4	49.6	49.1		40.1			31.6		110	
115	66.1	65.2	60.6	49.5		50.6		42.3		33.9	63.3	62.7	58.5	49	48.4		39.8			31.4		115	
120	62.8	63.5	59.1	48.4		49.4	38.5	41.3		33.6	60.1	61.1	57.5	48.2	47.7		39.5			31.2		120	
125	59.7	61	57.7	47.5		48.1	37.7	40.3		33.3	57.1	58.6	56.3	47.5	46.9	38.1	39.1			31		125	
130	56.8	58.1	56.3	46.5		46.8	36.9	39.3	30.2	32.8	54.3	55.7	54.4	46.7	46	37.4	38.5	30.8	30.8			130	
135	54.3	55.4	54.2	45.7		45.7	36.1	38.3	29.7	32.1	51.8	53.1	52.2	46	45.1	36.7	37.8	30.4	30.5			135	
140	51.8	52.9	52	44.8		44.5	35.4	37.3	29	31.3	49.3	50.5	49.8	45.2	44.2	36.1	37	29.8	30.3	25.4		140	
150	47.3	48.1	47.7	43.3		42.3	34	35.4	27.8	29.7	44.8	45.9	45.3	43.8	42.4	34.9	35.5	28.7	29.8	24.9		150	
160	43.2	43.9	43.6	41.8		40.2	32.7	33.6	26.6	28.2	40.8	41.7	41.4	42	40.4	33.8	34	27.7	29.1	24		160	
170	39.5	40.1	40	40.6		38.3	31.5	31.9	25.6	26.8	37.3	38	37.8	39.2	37.3	32.7	32.7	26.7	28.1	23.1		170	
180	35.9	36.4	36.3	37.8		36.1	30.5	30.4	24.6	25.5	34.2	34.7	34.7	36	34.3	31.8	31.4	25.8	27.1	22.3		180	
190	32.5	32.8	32.7	34.5		33.3	29.6	29	23.8	24.3	30.9	31.4	31.8	32.9	31.5	30.9	30	25	26	21.5		190	
200	29.3	29.4	29.4	31.1		30.3	28.8	27.7	23	23.1	27.7	28.1	28.9	29.9	28.8	29.6	28.2	24.2	25	20.8		200	
210			26.5	27.9		27.3	27.9	26.4	22.3	22	24.8	25	25.8	26.7	26	27.3	25.5	23.5	24	20.1		210	
220			24	25		24.8	25.5	24.4	21.7	21	22.3	22.4	23.3	23.8	23.2	24.5	22.9	22.9	22.9	19.5		220	
230			21.6			22.5	23	22.2	21.2	20	19.9		21	21.3	20.8	21.8	20.5	21.6	21.1	19		230	
240						20.3	20.6	20.1	20.3	18.9	17.4			18.9		18.8	19.4	18.4	19.7	19	18.5		240
250								18.3	18.8	17.5	16.9					17	17.3	16.5	17.5	17.1	17.9		250
260								16.6	16.9	16.1	16.5					15.4	15.6	15.1	15.6	15.4	16.6		260
270								15		14.7	15.8					13.8		13.7	14	15			270
280										13.4	14.7							12.4		12.8	13.5		280
290																			11.6	12.2			290
300																			10.5	10.9			300
310																			9.4				310

TAB 136140 / 136141 / 136142 / 136146 / 136147 / 136148



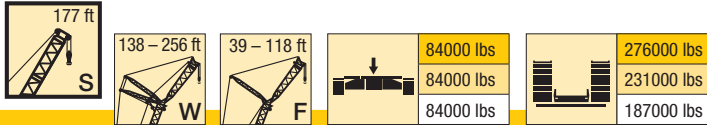
ft	S 157																		ft			
	W 217						W 236						W 256									
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 39			F 59		
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°		
85	63.1																					85
90	62.2																					90
95	61.3		54.1								53.6											95
100	60.5	58	53.4		45.5						52.9		47				45.6					100
105	59.7	57.1	52.6		45.1		36.5				52.1	51.6	46.4		40.4		45		40.3			105
110	58.9	56.3	51.8	44.6	44.4		36.3		29.1		51.5	50.9	45.9		40.2		44.5	44.4	39.9			110
115	57.8	55.5	51.1	44	43.7		36		29		50.8	50.2	45.3		40		44	44	39.5			115
120	56.6	54.7	50.4	43.2	42.9		35.7		28.8		50	49.5	44.8	41.2	39.5		43.5	43.5	39			120
125	55.1	54	49.6	42.5	42.1	34.2	35.2		28.6		49.1	48.9	44.2	40.7	39		43	42.9	38.6	35.3		125
130	52.3	53.2	48.7	41.7	41.3	33.6	34.6		28.4		48.1	48.2	43.6	40.1	38.5	33.2	42.3	42.4	38.2	34.8		130
135	49.9	51.1	47.4	41	40.5	33	33.9		28.2		46.5	47	42.9	39.7	38	32.9	41.6	41.8	37.6	34.3		135
140	47.5	48.7	46.1	40.4	39.6	32.4	33.3	27.2	28		44.7	45.7	42.1	39.2	37.5	32.5	40.8	41.2	37	33.8		140
150	43.1	44.2	42.6	39	38	31.2	31.9	26.6	27.3		40.9	42.2	39.7	38.2	36.3	31.7	38	38.9	35.7	32.9		150
160	39.1	40.1	38.7	37.8	36.3	30.1	30.5	25.6	26.3	21.4	37	38.1	36.6	37	34.8	30.8	34.3	35.6	33.9	32		160
170	35.5	36.4	35.2	36.6	34.7	29.1	29.2	24.7	25.3	20.6	33.5	34.5	33.2	34.9	32.7	29.9	30.9	32	30.6	31.1		170
180	32.5	33.2	32.2	33.6	31.8	28.2	28	23.8	24.3	19.8	30.5	31.3	30.2	31.8	29.8	29.1	27.9	28.9	27.6	29		180
190	29.5	30.2	29.4	30.6	29	27.3	26.8	23	23.3	19.1	27.7	28.4	27.4	28.8	27	28	25.1	26	24.9	26.5		190
200	26.6	27.2	26.6	27.7	26.4	26.4	25.3	22.2	22.4	18.4	25	25.6	24.9	26.1	24.5	26.4	22.6	23.3	22.4	23.8		200
210	23.5	23.9	23.8	24.8	24	25.4	23.1	21.5	21.5	17.8	22.1	22.8	22.5	23.6	22.2	23.9	20.3	20.9	20.1	21.2		210
220	21.1	21.2	21.1	22	21.3	22.8	20.9	20.9	20.5	17.2	19.4	20	19.9	21	20	21.6	17.8	18.5	18.1	18.9		220
230	18.9	18.9	18.8	19.3	18.8	20.3	18.7	20.3	18.9	16.6	17.2	17.5	17.4	18.5	17.9	19.5	15.5	16.1	15.9	16.8		230
240	16.9		16.8	17	16.6	17.9	16.6	19.1	17.1	16.1	15.4	15.4	15.3	16.2	15.7	17.6	13.4	13.9	13.9	14.7		240
250			15.1	15.1	14.7	15.7	14.7	17.2	15.4	15.7	13.7	13.7	13.4	14.1	13.7	15.8	11.7	11.9	11.9	12.8		250
260			13.6	13.5	13.3	13.8	13	15.3	13.8	14.9	12.2	12.1	12.1	12.4	12	13.9	10.3	10.4	10.3	11		260
270			12.1		12	12.3	11.7	13.6	12.3	13.6	10.8		10.8	10.9	10.7	12.2	9.1	9.1	9	9.4		270
280					10.8		10.6	12	11	12.2			9.6		9.5	10.7	7.8		7.9	8		280
290							9.4	10.6	9.9	10.8					8.4	9.3			6.8	6.8		290
300							8.4	9.3	8.9	9.5					7.3	8.1			5.7	5.6		300
310							7.4		7.9	8.4					6.3							310
320								6.9														320

TAB 136140 / 136141 / 136142 / 136146 / 136147 / 136148



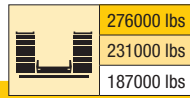
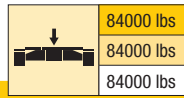
ft	S 177																				ft	
	W 138										W 157											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98		F 118			
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°		
65	96.9																					65
70	95																					70
75	93		80.3								82.3											75
80	91.1	86.3	79.8		62.9						81.7		70.5									80
85	89.1	84.5	78.8		62.6		49.7				80.2	77.6	70.5		57.7							85
90	86.6	82.9	77.6		62.2		49.4				78.6	76.3	69.5		57.3							90
95	84	81.3	75.9	60.9	61.5		49.1		38.1		76.7	75.1	68.4		57		45.3					95
100	81.2	79.7	74.1	59.6	60.5		48.7		37.7		74.6	73.7	67.2	56.5	56.6		45			35.3		100
105	77.6	78.2	72.2	58.3	59.1	47.3	48.4		37.3		72.4	72.3	65.8	55.3	56		44.6			35		105
110	73.7	74.9	70.3	57	57.6	46.3	48		37		70	70.3	64.1	54.3	55	43	44.3			34.7		110
115	70.1	71.4	68.3	55.9	56	45.2	47.2		36.6		66.9	67.8	62.5	53.3	53.8	42.3	44			34.4		115
120	66.8	67.9	65.8	54.8	54.5	44.2	46.2	36.7	36.1		63.6	64.9	61	52.3	52.6	41.5	43.5			34.1		120
125	63.7	64.7	62.8	53.8	53.1	43.3	45	35.9	35.7		60.5	61.7	59.5	51.4	51.3	40.6	42.7	33.4	33.8			125
130	60.8	61.8	60	52.8	51.8	42.4	43.9	35	35.3	29.5	57.8	58.8	56.9	50.5	50.1	39.8	41.7	32.7	33.4			130
135	58.3	59.1	57.5	51.9	50.5	41.6	42.8	34.3	34.8	29	55.2	56.2	54.5	49.7	49	39.1	40.7	32.1	33			135
140	55.8	56.5	55	51	49.2	40.8	41.8	33.5	34.3	28.4	52.8	53.7	52.1	48.9	47.9	38.4	39.8	31.4	32.6	26.8		140
150	51.2	51.7	50.5	49.4	46.8	39.3	39.8	32.2	33.2	27.1	48.3	49	47.7	47.2	45.7	37	38	30.2	31.5	26.2		150
160	47	47.3	46.5	47.3	44.5	38	37.8	31	31.8	25.9	44.3	44.8	43.7	44.9	43.5	35.8	36.2	29	30.3	25.1		160
170	42.9	43	42.9	43.5	42.3	36.9	36	29.8	30.2	24.8	40.7	41.1	40.2	41.2	40.5	34.7	34.6	28	29	24.2		170
180	38.9		39.1	39.5	38.7	35.9	34.3	28.8	28.8	23.8	37.2	37.3	37	37.9	37.5	33.7	33	27.1	27.6	23.3		180
190			35.6		35.4	34.9	32.7	27.7	27.5	22.7	33.8		33.7	34.9	34.4	32.9	31.6	26.3	26.4	22.4		190
200					32.3	33.4	31.2	26.7	26.2	21.7			30.6	31.9	31.4	31.6	30	25.5	25.2	21.6		200
210					29.5		30	25.8	25	20.8					28.5	29.3	28.3	24.9	24	21		210
220					26.9		27.4	25	24	20					26.1	26.5	25.7	24.4	23	20.4		220
230							25.1		23.1	19.3					23.7		23.5	23.4	22	19.8		230
240									22	18.7							21.4	21.9	20.8	19.3		240
250																			19.1	19		250
260																			17.4	18.4		260
270																			15.9			270

TAB 136140 / 136141 / 136142 / 136146 / 136147 / 136148



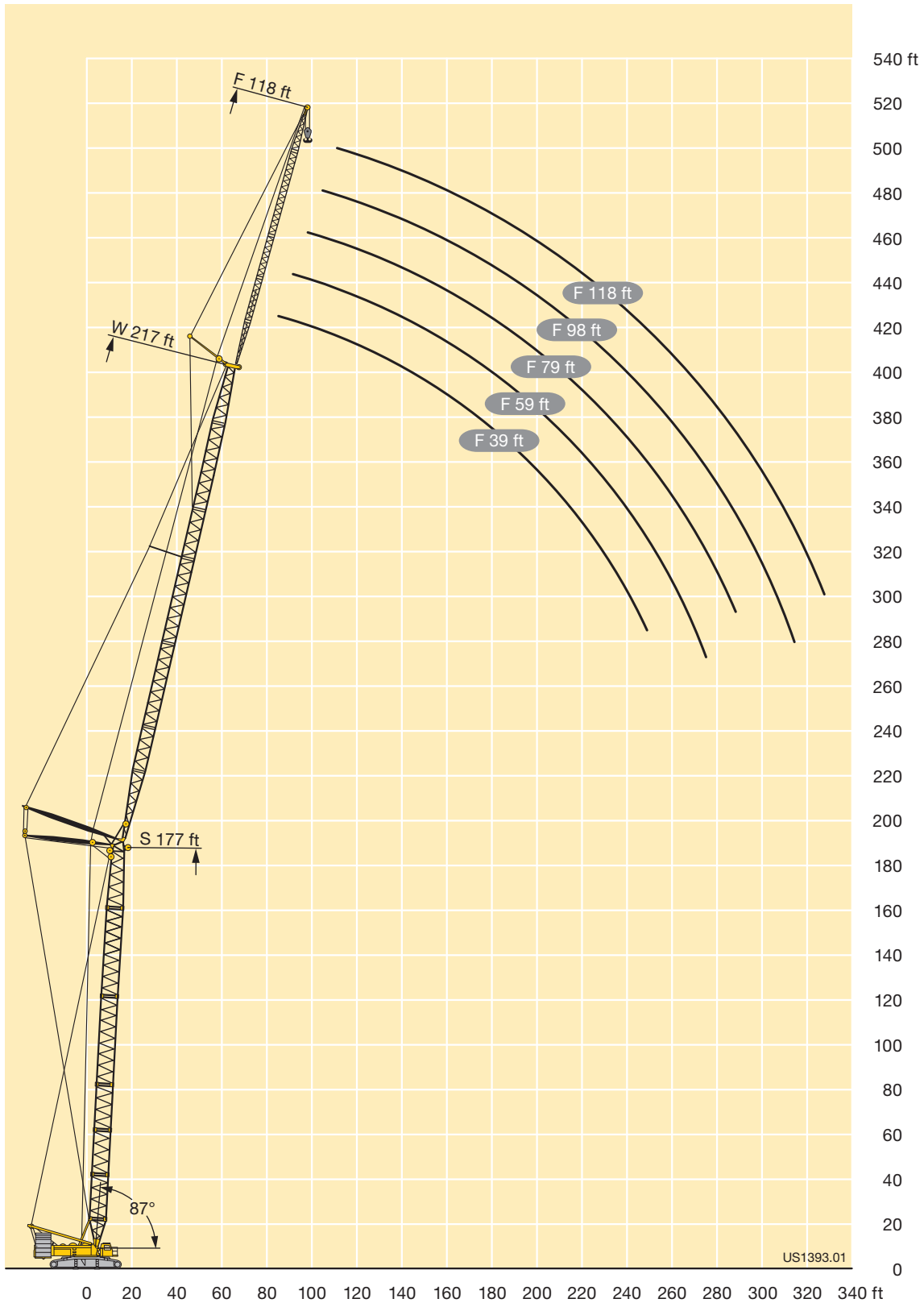
ft	S 177																		ft			
	W 177										W 197											
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		F 98			F 118		
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°		
80	72.4																					80
85	71		63.2								63.3											85
90	69.7		62.2								62.3											90
95	68.4	67.4	61.2		52						61.2		54.2									95
100	67	66.2	60.2		51.3		41.7		33		60.2	59.6	53.4		46.3							100
105	65.3	64.9	59.3	50.5	50.5		41.4		32.7		59.1	58.5	52.6		46		37.5		30.1			105
110	63.5	63.5	58.1	49.5	49.6		41.1		32.4		57.8	57.5	51.8	47.9	45.5		37.2		29.9			110
115	61.8	62	56.8	48.5	48.6		40.6		32.2		56.3	56.5	50.9	47.3	45		37		29.7			115
120	59.8	60.3	55.5	47.6	47.6	37.9	39.9		32		54.8	55.3	49.9	46.6	44.5		36.7		29.5			120
125	57.4	58.5	54.1	46.6	46.5	37.1	39		31.8		53.3	54	48.7	45.8	44	36.9	36.5		29.3			125
130	54.6	55.8	52.9	45.8	45.4	36.3	38.1	30.9	31.5		52	52.6	47.5	45.2	43.2	36.3	36.2	30.9	29.1			130
135	52.2	53.3	51.3	45	44.3	35.6	37.2	30.4	31.2		50.1	50.8	46.5	44.5	42.3	35.8	35.8	30.5	28.8			135
140	49.8	50.8	49.6	44.2	43.3	34.9	36.2	29.8	30.8	24.6	48.1	49	45.4	43.8	41.3	35.2	35.2	30	28.6	24.8		140
150	45.4	46.2	45.8	42.7	41.3	33.6	34.5	28.6	29.7	24	44	45	42.8	42.5	39.6	34.1	34	29	28.1	24.3		150
160	41.4	42.1	41.9	41.2	39.5	32.4	32.8	27.4	28.4	23	40.1	41	39.7	40.7	37.8	33.1	32.7	28	27.6	23.5		160
170	37.9	38.5	38.4	39.5	37.6	31.3	31.3	26.4	27.2	22	36.6	37.3	36.3	37.6	35.7	32	31.5	27.1	26.9	22.7		170
180	34.4	34.9	35.4	36.4	34.8	30.3	29.9	25.4	26	21.1	33.6	34.1	33.2	34.4	32.8	31.1	30.3	26.3	26	21.9		180
190	31	31.4	32.2	33.1	31.9	29.4	28.5	24.5	24.9	20.3	30.4	30.9	30.4	31.4	30	30.2	28.8	25.5	25.1	21.2		190
200	27.9	28	29	29.8	28.9	28.4	27.1	23.7	23.7	19.5	27.3	27.7	27.5	28.5	27.2	28.7	26.8	24.8	24.3	20.5		200
210			26.1	26.6	26	27.1	25.6	23	22.7	18.8	24.4	24.5	24.4	25.3	24.4	25.7	24	24.1	23.4	19.8		210
220			23.6	23.9	23.5	24.3	23	22.4	21.7	18.2	22	22	22	22.5	21.8	23	21.5	23.4	21.8	19.2		220
230			21.2		21.3	21.8	20.8	21.8	20.7	17.7	19.6		19.8	20	19.5	20.4	19.2	21.8	19.9	18.7		230
240					19.2	19.5	18.8	20.6	19.4	17.2			17.8		17.5	18.1	17.1	19.7	17.9	18.1		240
250							17.1	18.6	17.5	16.8					15.9	16.1	15.2	17.6	16	17.6		250
260							15.6	16.8	16.1	16.3					14.4	14.5	13.9	15.6	14.4	15.8		260
270							14.1		14.7	15.1					12.9		12.6	14	13.1	14.2		270
280									13.4	13.7							11.4		11.9	12.7		280
290																			10.8	11.4		290
300																			9.7	10.1		300
310																			8.7			310

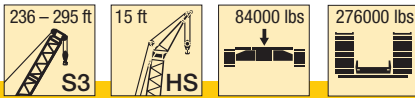
TAB 136140 / 136141 / 136142 / 136146 / 136147 / 136148



ft	S 177 W 217										S 197 W 138						ft
	F 39		F 59		F 79		F 98		F 118		F 39		F 59		F 79		
	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	3°	25°	
75											81.9						75
80											80	78.7	70.9				80
85	55.5										78.1	76.7	69.5			58.7	85
90	54.6										75.7	74.7	68.1			58.3	90
95	53.7		47.9								73.3	72.8	66.6			57.8	95
100	52.8	51.8	47.2		41.3						70.9	70.9	64.8	58.9	57.4		100
105	51.9	51.6	46.5		40.8		34.1				68.6	68.7	63	57.7	56.8		105
110	51.1	50.7	45.8	42.8	40.3		33.9		27.2		66.5	66.5	61.2	56.6	55.7	45.1	110
115	50.1	49.9	45.2	42.3	39.7		33.8		27.1		64.3	64.4	59.5	55.5	54.4	44.4	115
120	49	49	44.6	41.6	39.3		33.6		26.9		62.2	62.3	57.9	54.5	53	43.5	120
125	47.7	48.2	43.9	40.9	38.7	33.1	33.4		26.7		60	60.4	56.2	53.5	51.8	42.6	125
130	46.6	47.2	42.8	40.3	38.2	32.5	33.2		26.5		57.9	58.3	54.5	52.6	50.6	41.8	130
135	45.5	46	41.8	39.7	37.5	32	32.8		26.4		55.7	56.2	52.8	51.6	49.3	41	135
140	44.4	44.8	40.8	39.1	36.7	31.4	32.4	26.3	26.2		53.5	54.1	51.1	50.6	48.1	40.3	140
150	41.2	41.8	38.9	37.9	35.2	30.4	31.4	25.8	25.8		49.3	49.8	47.9	48.3	45.5	38.8	150
160	37.4	38.4	36.7	36.6	33.7	29.4	30.2	24.9	25.2	20.8	45.2	45.6	44.7	45.5	42.9	37.6	160
170	34	34.8	33.6	35.1	32.3	28.4	29	24.1	24.3	20.1	41.3	41.4	41.1	42	40.6	36.5	170
180	31	31.7	30.7	32.1	30	27.5	28	23.3	23.4	19.4	37.5		37.5	38.8	37.9	35.5	180
190	28.1	28.7	27.8	29.1	27.5	26.7	26.5	22.5	22.5	18.7			34.2		34.9	34.3	190
200	25.2	25.8	25	26.2	24.9	25.5	24.5	21.8	21.6	18					31.9	32.5	200
210	22.1	22.6	22.1	23.1	21.9	23.7	22.3	21.1	20.8	17.5					29.1		210
220	19.7	19.9	19.6	20.5	19.6	21	20.3	20.5	19.4	16.9					26.5		220
230	17.6	17.7	17.4	18.1	17.5	18.6	18.4	19.4	17.6	16.4							230
240	15.8		15.6	15.9	15.4	16.5	16.5	17.8	15.7	15.9							240
250			14	14.1	13.7	14.6	14.6	15.7	14	15.4							250
260			12.6	12.5	12.4	12.9	13	14.1	12.6	14.1							260
270			11.2		11.1	11.4	11.7	12.6	11.3	12.7							270
280					9.9		10.5	11.1	10.1	11.3							280
290							9.4	9.8	9.1	10							290
300							8.3	8.6	8.1	8.7							300
310							7.3		7.1	7.6							310
320									6.2								320

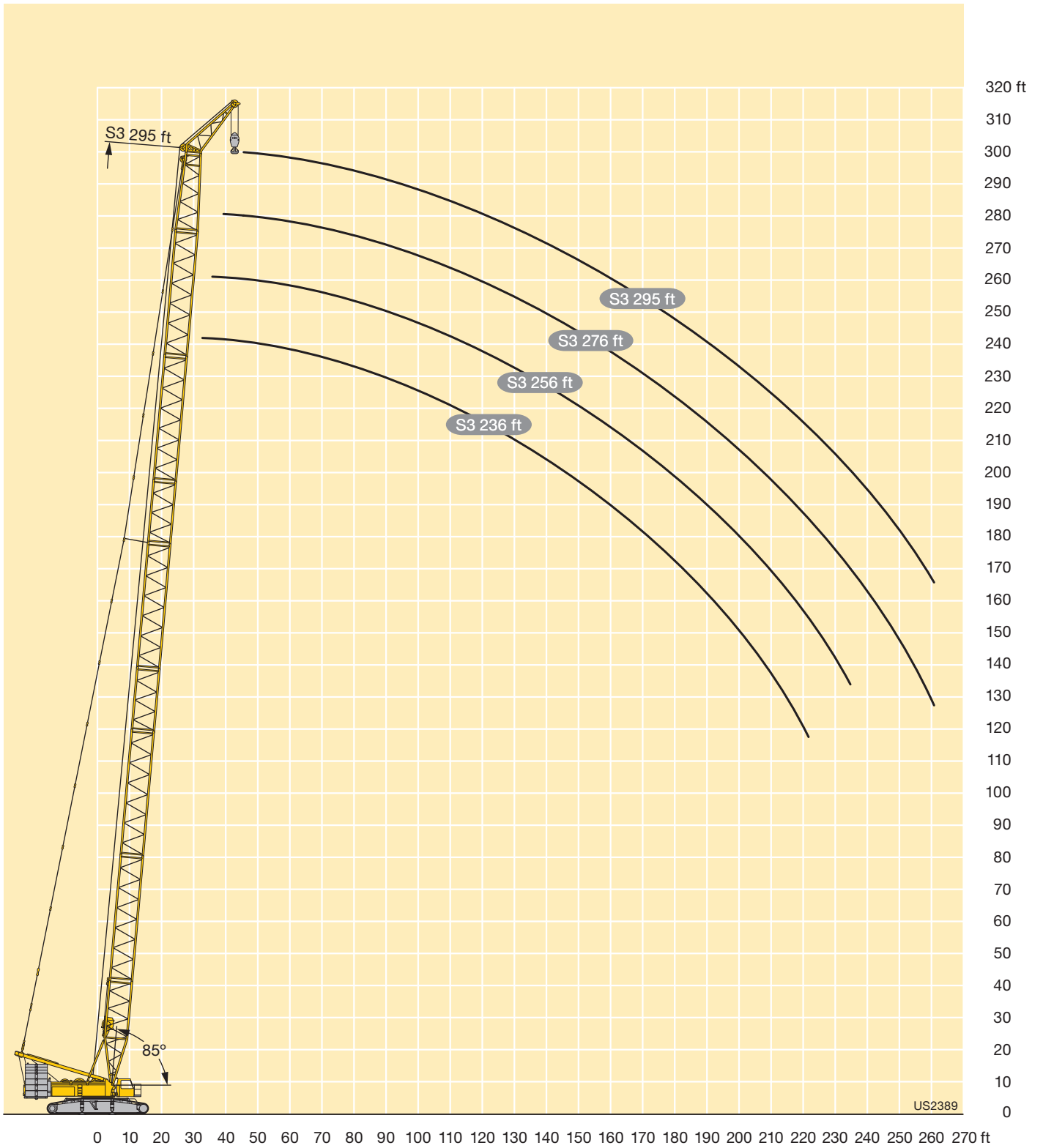
TAB 136140 / 136141 / 136142 / 136146 / 136147 / 136148





S3 236 - 295					
ft	236	256	276	295	ft
	HS 15	HS 15	HS 15	HS 15	
40	198				40
45	198	198	195	183	45
50	189	185	180	171	50
55	176	169	162	157	55
60	159	154	147	142	60
65	146	140	135	130	65
70	134	129	124	119	70
75	124	119	114	110	75
80	114	110	105	101	80
85	106	102	97.4	93.7	85
90	98.8	95	90.6	87	90
95	92.1	88.6	84.3	80.9	95
100	85.6	82.7	78.6	75.3	100
105	79.4	77.3	73.3	70.2	105
110	74.1	72.5	68.6	65.6	110
115	69.2	67.8	64.3	61.3	115
120	64.7	63.3	60.2	57.3	120
125	60.6	59.2	56.5	53.7	125
130	56.9	55.5	53	50.3	130
135	53.6	52.2	49.9	47.3	135
140	50.5	49	46.8	44.3	140
150	44.9	43.4	41	38.8	150
160	40	38.5	35.8	33.8	160
170	35.7	34	31.3	29.3	170
180	31.8	30.1	27.5	25.4	180
190	28.3	26.6	24	22	190
200	25.2	23.4	20.9	18.9	200
210	22.4	20.6	18.1	16.1	210
220	19.9	18.1	15.7	14	220
230		15.8	13.4	11.8	230
240			11.3	9.7	240
250			9.4	7.8	250
260			7.7	6.1	260

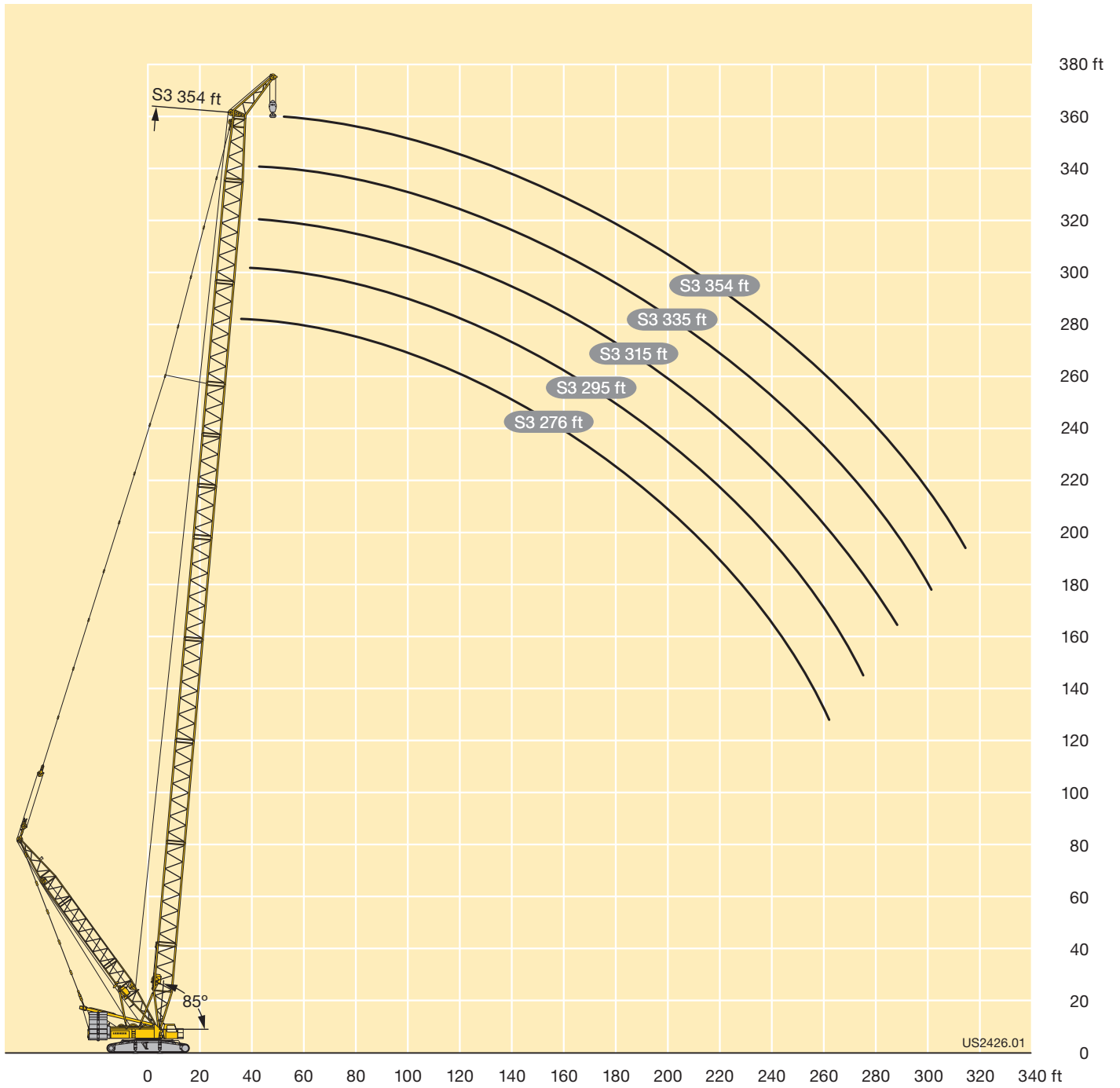
TAB 173108

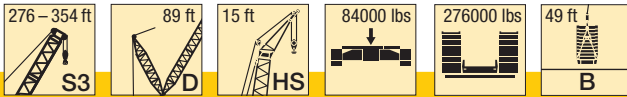




ft	S3 276 - 354					ft
	276	295	315	335	354	
	HS 15	HS 15	HS 15	HS 15	HS 15	
45	196	194				45
50	191	186				50
55	179	172	166	161	147	55
60	163	157	151	146	141	60
65	149	143	138	134	129	65
70	137	132	127	123	118	70
75	127	122	117	113	109	75
80	117	112	108	105	100	80
85	109	104	99.8	96.7	92.6	85
90	101	96.9	92.8	89.8	85.8	90
95	94.5	90.3	86.3	83.5	79.7	95
100	88.3	84.2	80.3	77.7	74	100
105	82.6	78.6	74.9	72.3	68.7	105
110	77.5	73.7	70	67.5	63.8	110
115	72.7	69	65.4	62.9	59.3	115
120	68.2	64.7	61.2	58.6	55	120
125	63.9	60.5	57	54.6	51.1	125
130	59.9	56.7	53.3	50.9	47.5	130
135	56.2	53.2	50	47.7	44.3	135
140	52.7	49.8	46.8	44.5	41.3	140
150	46.3	43.6	40.8	38.8	35.6	150
160	40.8	38.1	35.5	33.7	30.6	160
170	36	33.3	30.6	28.9	26.2	170
180	31.8	29.1	26.5	24.9	22.2	180
190	28.1	25.5	22.9	21.2	18.5	190
200	24.8	22.1	19.6	17.9	15.3	200
210	21.8	19.1	16.6	15.1	12.7	210
220	19.2	16.6	14.3	12.8	10.4	220
230	16.8	14.4	12.2	10.6	8.2	230
240	14.6	12.3	10.1	8.7	6.2	240
250	12.6	10.3	8.1	6.8		250
260	10.8	8.4	6.3	4.9		260
270		6.8				270

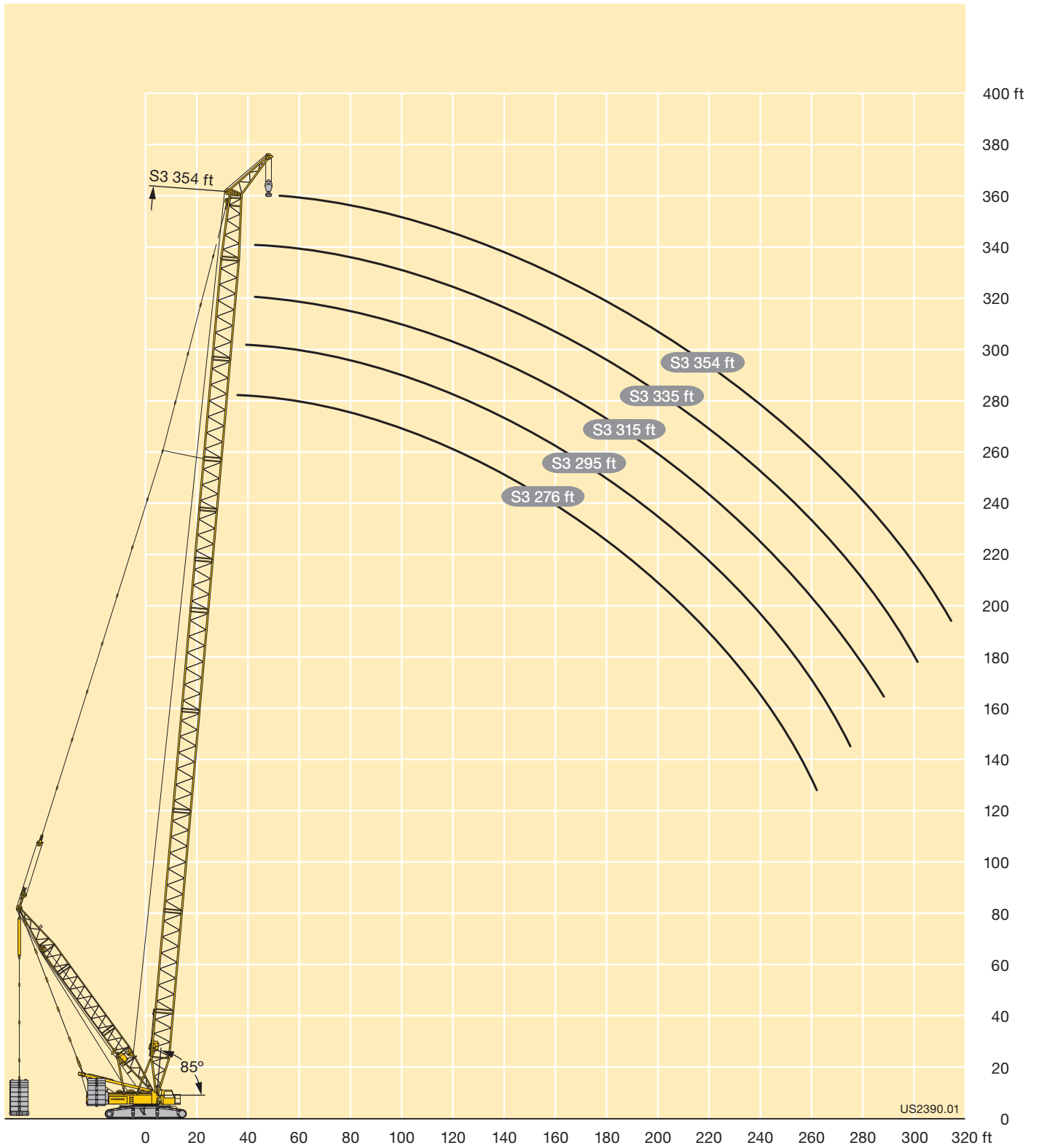
TAB 173107













ft	S3 276 - 354					ft
	276	295	315	335	354	
	HS 15 B 22050 lbs*	HS 15 B 22050 lbs*	HS 15 B 22050 lbs*	HS 15 B 22050 lbs*	HS 15 B 22050 lbs*	
40						40
45	198	195				45
50	195	192				50
55	191	188	184	169	152	55
60	187	184	182	167	152	60
65	183	181	179	165	152	65
70	180	178	176	164	151	70
75	177	175	173	162	150	75
80	173	171	171	161	149	80
85	170	168	168	158	147	85
90	168	165	166	155	146	90
95	165	163	164	152	144	95
100	162	160	161	150	143	100
105	159	158	159	147	142	105
110	157	155	156	145	140	110
115	155	153	154	143	139	115
120	152	151	152	140	137	120
125	150	148	150	136	135	125
130	148	144	145	132	131	130
135	145	140	140	128	127	135
140	141	135	135	124	123	140
150	132	126	127	117	116	150
160	122	118	119	110	110	160
170	115	112	111	105	104	170
180	108	106	106	99.9	99.4	180
190	101	100	100	95.2	94.6	190
200	95.1	95.1	95.6	90.8	90	200
210	89.1	90.7	90.9	86.5	85.6	210
220	83.5	86.6	86.5	83.2	81.9	220
230	78.2	82.7	82.6	80	78.5	230
240	73	78.9	79	76.9	75.1	240
250	68.1	75.1	75.5	73.9	71.9	250
260	63.5	70.5	72.2	71.1	68.9	260
270		66	69	68.4	65.9	270
280			65.4	65.4	63	280
290				62.1	60.2	290
300				58.9	57.6	300
310					55	310

* meets the minimum requirements for erection · corresponde aux exigences minimales pour élévation













Description of symbols Explication des symboles

General symbols Symboles généraux

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

Crane specific symbols Symboles spécifiques à la grue

	Main boom S Flèche principale S		Lattice type luffing fly jib W Fléchette treillis à volée variable W
	Main boom SL Flèche principale SL		Fixed lattice jib F Fléchette à treillis fixe F
	Main boom S2 Flèche principale S2		Wind plant jib HS Fléchette éolien HS
	Main boom S3 Flèche principale S3		Counterweight frame B Palette de lest B
	Derrick system D Système derrick D		Counterweight frame B / Counterweight trailer BW Palette de lest B / Remorque à contrepoids BW

Remarks referring to load charts

1. When calculating crane stresses and loads, German Industrial Standards (DIN) are applicable, in conformance with new German legislation (published 2/85). The lifting capacities (stability margin) DIN/ISO correspond to DIN 15019, part 2, and ISO 4305 (Tested load = 1.25 x lifting capacity + 0.1 x boom dead weight, reduced to the boom point). The crane's structural steel work is in accordance with DIN 15018, part 3. Design and construction of the crane comply with DIN 15018, part 2 and with F.E.M. regulations.
2. Lifting capacities are given in kips.
3. The weight of the load hook and hook blocks as well as of the lifting tackle must be deducted from the lifting capacities.
4. The working radii are measured from the slewing centreline.
5. The subsoil must be even and of good bearing capacity.
6. Subject to modification of lifting capacities.
7. The crane can be displaced with suspended loads as stated in the load charts. Operating conditions must conform to the rules in the operating instructions.
8. Lifting capacities above 661 kips only with special equipment.

Remarques relatives aux tableaux des charges

1. La grue est calculée selon normes DIN conformément au décret fédéral 2/85. Les charges DIN/ISO respectent les sécurités au basculement requises par les normes DIN 15019, partie 2 et ISO 4305. La structure de la grue est conçue selon la norme DIN 15018, partie 3. La conception générale est réalisée selon la norme DIN 15018, partie 2, ainsi que selon les recommandations de la F.E.M.
2. Les charges sont indiquées en kips.
3. Les poids du crochet ou du moufle ainsi que des élingues sont à déduire des charges indiquées.
4. Les portées sont prises à partir de l'axe de rotation de la partie tournante.
5. Le sol doit être plat et résistant.
6. Charges données sous réserve de modification.
7. La grue peut être déplacée avec les charges indiquées dans les tableaux des charges. Les conditions de service sont stipulées dans les instructions de service.
8. Forces de levage plus de 661 kips seulement avec équipement supplémentaire.

Subject to modification / Sous réserve de modifications

Printed in Germany (1)

TD 136.00.US05.2014

Liebherr-Werk Ehingen GmbH

Postfach 1361, 89582 Ehingen, Germany

☎ +49 73 91 5 02-0, Fax +49 73 91 5 02-33 99

www.liebherr.com, E-mail: info.lwe@liebherr.com

www.facebook.com/LiebherrConstruction