

LR 1500



550 USt



433 ft



276 ft +
276 ft

Powerful, smart, compact

LR 1500

Crawler crane
Grue sur chenilles

LIEBHERR

Mobile and crawler cranes

LIEBHERR

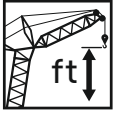


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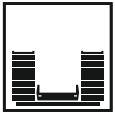
LR 1500



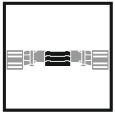
538 ft



472 ft



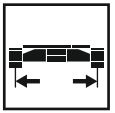
418,900 lb



121,250 lb



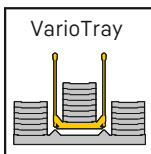
617,300 lb



24 ft 11 in



330 kW (449 h.p.)



Equipment

Max. capacity	882,000 lb at 39 ft radius, SDB-system with S 118 ft. 1,102,000 lb at 25 ft radius, S2DB-system with S2 113 ft.
Max. load moment	43,486,600 lb-ft, 650,000 lb at 66 ft radius, SDB-system with S 118 ft.

Crawler travel gear

Crawler chassis	Liebherr crawler chassis consisting of one centre section and two crawler carriers with crawler plates 4 ft 11 in and quadruple drive (double drive optional).
Central ballast	Total central ballast 121,250 lb. 2 x 27,550 lb walk, 2 x 33,075 lb (optional).



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.
Engine	6-cylinder Diesel, make Liebherr, watercooled, output 330 kW (449 h.p.), max. torque 1722 lb-ft. Exhaust emissions acc. to 97/68/EG, EPA/CARB, ECE-R.96. Fuel reservoir: 322 gallons.
Winch I	Standard hoist winch, hydraulically driven by variable axial piston motors with integrated planetary gears.
Winch IV	Boom hoist.
Reeving winch	Auxiliary winch for the reeving of ropes.
Slewing gear	2 slewing gears, hydraulically driven by variable axial piston motors with integrated planetary gears.
Crane cabin	Air conditioned crane cabin tiltable to the rear with safety glazing, heat insulating glass, roof window with bullet proof glass, standardized control units ergonomically positioned. Additional thermostatically controlled hot water heating.
Crane control	Setting of configuration data by convenient interactive functions. All crane movements are initiated by means of two 4-way joystick hand levers and two 2-way hand/foot levers. All working movements are independently controllable.
Safety devices	Hoist limit switch. Safety valves against hose and pipe rupture. Drum switch limit at 3 rest layers. Wind speed gauge. Electronic inclination indicator. Aircraft warning control light.
Camera observation	2 colour-screens, 3 cameras for winches and rear area.
Counterweight	2 brackets 11,000 lb each. Total counterweight at superstructure 418,900 lb. 18 ballast plates 22,050 lb each (option).



Boom system

Main boom S	System 2822 with head section for max. load capacity of 882,000 lb. Boom length S 79 ft – S 315 ft, boom length SDB 118 ft – SDB 374 ft with derrick system.
Lattice type luffing fly jib W	System 2418 with head section for max. 551,200 lb load capacity. Luffing jib lengths 59 ft – 276 ft. Winch V is needed for all luffing jib operations.
Fixed lattice fly jib F	System 1812 with head section for max. capacity of 271,200 lb, attachable at 10°, 15° and 30°, jib lengths F 39 ft – F 138 ft with integral whip line 26,500 lb.
Derrick system D	System 2420 including guy rods. Winch III is needed for all derrick operations. Length 98 ft.
Counterweight frame B	For max. derrick counterweight of 617,300 lb, for infinitely variable radius from 30 ft – 53 ft.
Counterweight trailer BW	For max. derrick counterweight of 617,300 lb at max. radius of 53 ft, infinitely variable radii from 39 ft – 53 ft.
Derrick-Counterweight	Plates for a total of 617,300 lb.
Heavy duty jib WV	Using existing parts of main boom and luffing jib. Length 59 ft – 276 ft.
Winch II	Second hoist winch.
Winch III	Reeving main boom / Derrick operation.
Winch V	Luffing for W-jib configuration.
Whip line 55,100 lb	To be mounted on the S and L-boom head.
Auxiliary jib 154,300 lb	For mounting on L head.

Additional equipment

Mechanical outriggers	For erection of long boom combinations without derrick-counterweight.
Hydraulic assembly jacks	Lifting of the basic machine for assembly/disassembly. Consisting of 4 lifting cylinders with supporting pads, installed on the centre part.
Hydraulic assembly cylinder	The crawler carrier is in the AS frame for self-assembly/dismantling.
Pin pulling device	Including mobile hydraulic power pack. For pinning of the basic unit and the S- and L- intermediate sections.

Other items of equipment available on request.

Équipement

Capacité max.	882,000 lb pour une portée de 39 ft. Système SDB avec S 118 ft. 1,102,000 lb pour une portée de 25 ft. Système S2DB avec S2 113 ft.
Couple de charge max.	43,486,600 lb-ft – 650,000 lb pour une portée de 66 ft. Système SDB avec S 118 ft.

Train de chenilles

Mécanisme de translation	Le train de chenilles Liebherr est composé d'une partie centrale et de deux longerons avec patins de chenilles 4 ft 11 in et un entraînement à 4 positions (2 positions en option).
Contrepoids central	Contrepoids central total 121,250 lb. 2 x 27,550 lb passerelle, 2 x 33,075 lb (en option).



Partie tournante

Cadre de la partie tournante	Le cadre de la partie tournante Liebherr est composé de la partie tournante avec treuil IV et du chevalet démontable A, il est relié à la partie centrale du train de roulement par une couronne d'orientation à rouleaux.
Moteur	Moteur diesel, 6 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 330 kW (449 ch), couple max. 1722 lb-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG, EPA/CARB, ECE-R.96. Capacité du réservoir à carburant: 322 gallons.
Treuil I	Treuil de levage standard, commande hydraulique avec moteurs à cylindrée variable et pistons axiaux, réducteur planétaire intégré.
Treuil IV	Mécanisme de relevage.
Treuil de mouflage	Treuil auxiliaire pour le mouflage des câbles.
Mécanisme d'orientation	2 mécanismes d'orientation, commande hydraulique avec moteurs à cylindrée variable et pistons axiaux, réducteur planétaire intégré.
Cabine du grutier	La cabine du grutier est climatisée, inclinable vers l'arrière, possède un vitrage de sécurité, un vitrage isolant thermiquement, une fenêtre de toit en verre blindé, des unités de commande normalisées disposées de façon ergonomique. Chauffage d'appoint et chauffage de l'eau régulé thermostatiquement.
Commande de la grue	Entrée des données de configuration par des fonctions interactives simples. Tous les mouvements de la grue sont commandés par deux manipulateurs à 4 voies et deux pédale/levier à 2 voies. Tous les mouvements de travail peuvent être commandés indépendamment.
Dispositifs de sécurité	Interrupteur de fin de course. Clapets de sécurité contre les ruptures de tuyaux et de flexibles. Coupure de fin de course du tambour avec 3 enroulements de sécurité. Anémomètre de sécurité. Inclinomètre électronique. Balise aérienne.
Surveillance vidéo	2 écrans couleur, 3 caméras pour la zone de treuils et la partie arrière.
Contrepoids	2 consoles de 11,000 lb chacune. Contrepoids total 418,900 lb. 18 plaques de lest à 22,050 lb (option).



Système de flèche

Flèche principale S	Système 2822 avec élément de tête pour une capacité de charge max. de 882,000 lb. Longueur de flèche S 79 ft – S 315 ft. Longueur de flèche SDB 118 ft – SDB 374 ft avec système derrick.
Fléchette treillis à volée variable W	Système 2418 avec élément de tête pour une capacité max. de 551,200 lb. Longueurs de flèche treillis 59 ft – 276 ft. Le treuil V est nécessaire pour fonctionnement fléchette treillis.
Fléchette treillis fixe F	Système 1812 avec élément de tête pour une capacité max. de 271,200 lb, montage possible sous 10°, 15° et 30°. Longueurs de flèche F 39 ft – F 138 ft avec extrémité de mât intégrée 26,500 lb.
Système derrick D	Le système 2420 comprend des tirants. Le treuil III est nécessaire au mode derrick. Longueur 98 ft.
PaLETTE de lest B	Pour un contrepoids derrick max. de 617,300 lb et rayons variables progressivement de 30 ft – 53 ft.
Remorque à contrepoids BW	Pour un contrepoids derrick max. de 617,300 lb pour un rayon max. de 53 ft, pour des rayons variables progressivement de 39 ft – 53 ft.
Contrepoids derrick	Plaques de poids total de 617,300 lb.
Fléchette pour charge lourde WV	Utilisation des parties disponibles de la flèche principale et de la fléchette treillis. Longueur 59 ft – 276 ft.
Treuil II	2. treuil de levage.
Treuil III	Réglage flèche principale/mode derrick.
Treuil V	Réglage fléchette treillis à volée variable.
Poulie en extrémité de mât 55,100 lb	Elle sert au montage au niveau de la tête S et L.
Pointe auxiliaire 154,300 lb	Pour le montage sur la tête en L.

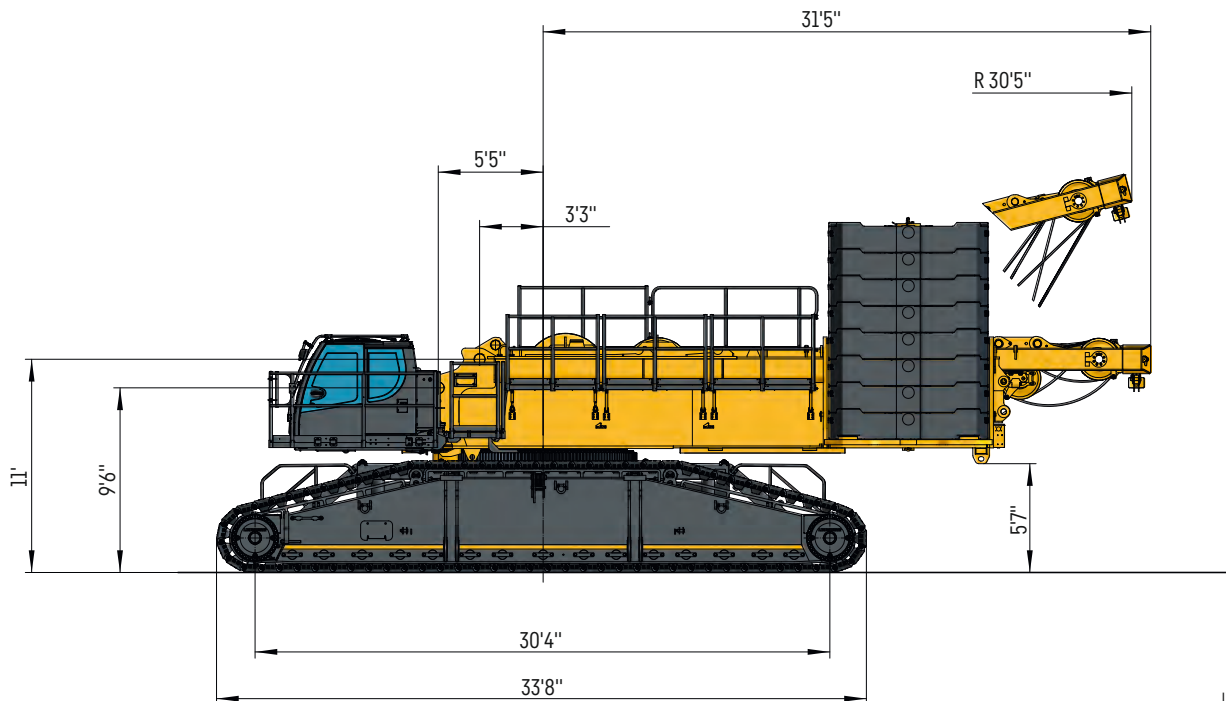
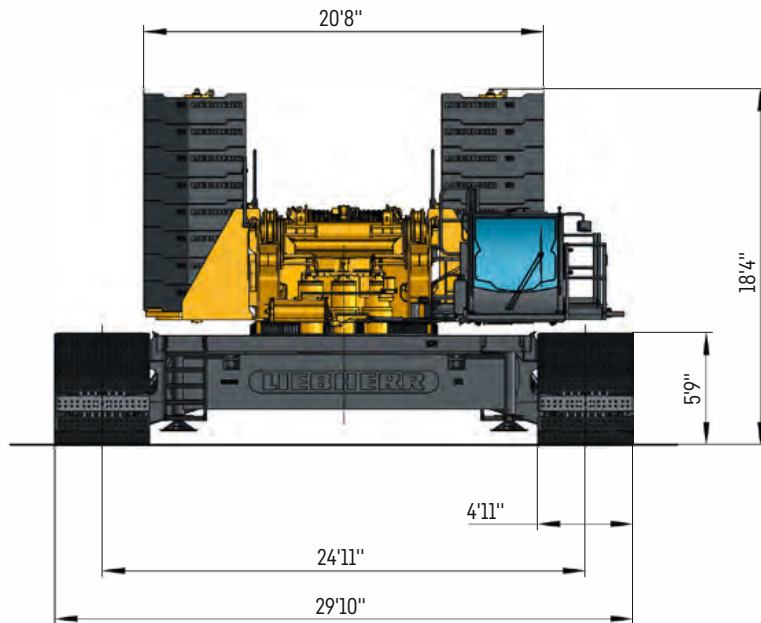
Équipement additionnel

Stab. additionnel mécanique	Il sert au relevage de longues combinaisons de flèche sans contrepoids derrick.
Stabilisateurs hydrauliques de montage	Ils soulèvent l'engin de base pour le montage/démontage. Ils sont constitués de 4 vérins de calage dont les patins de calage montés sur l'élément central.
Vérin hydraulique de montage	Pour le montage/démontage autonome des chenilles se trouve dans le chevalet SA.
Dispositif d'extraction des axes	Avec groupe hydraulique mobile. Pour le verrouillage de la machine de base et des éléments intermédiaires S et L.

D'autres équipements additionnels sont disponibles sur demande.

Dimensions

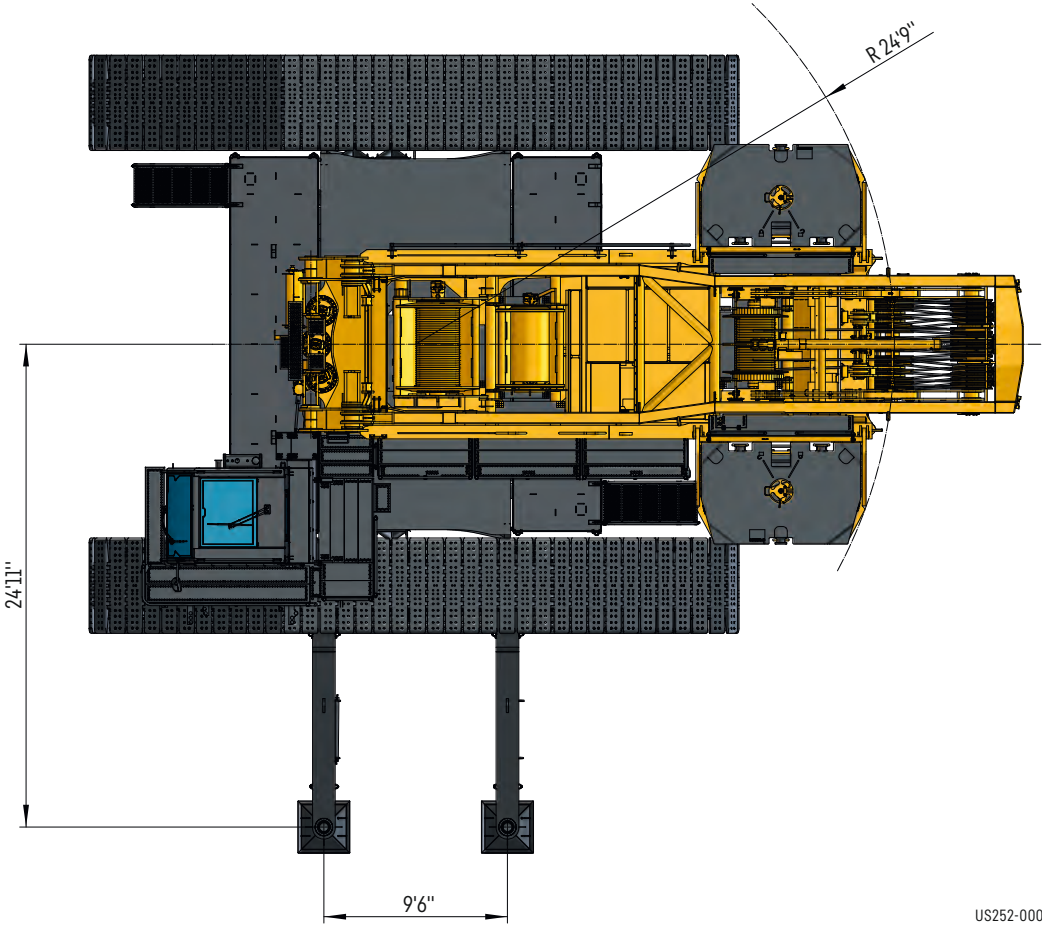
Encombrement



US252-0001.03

Dimensions

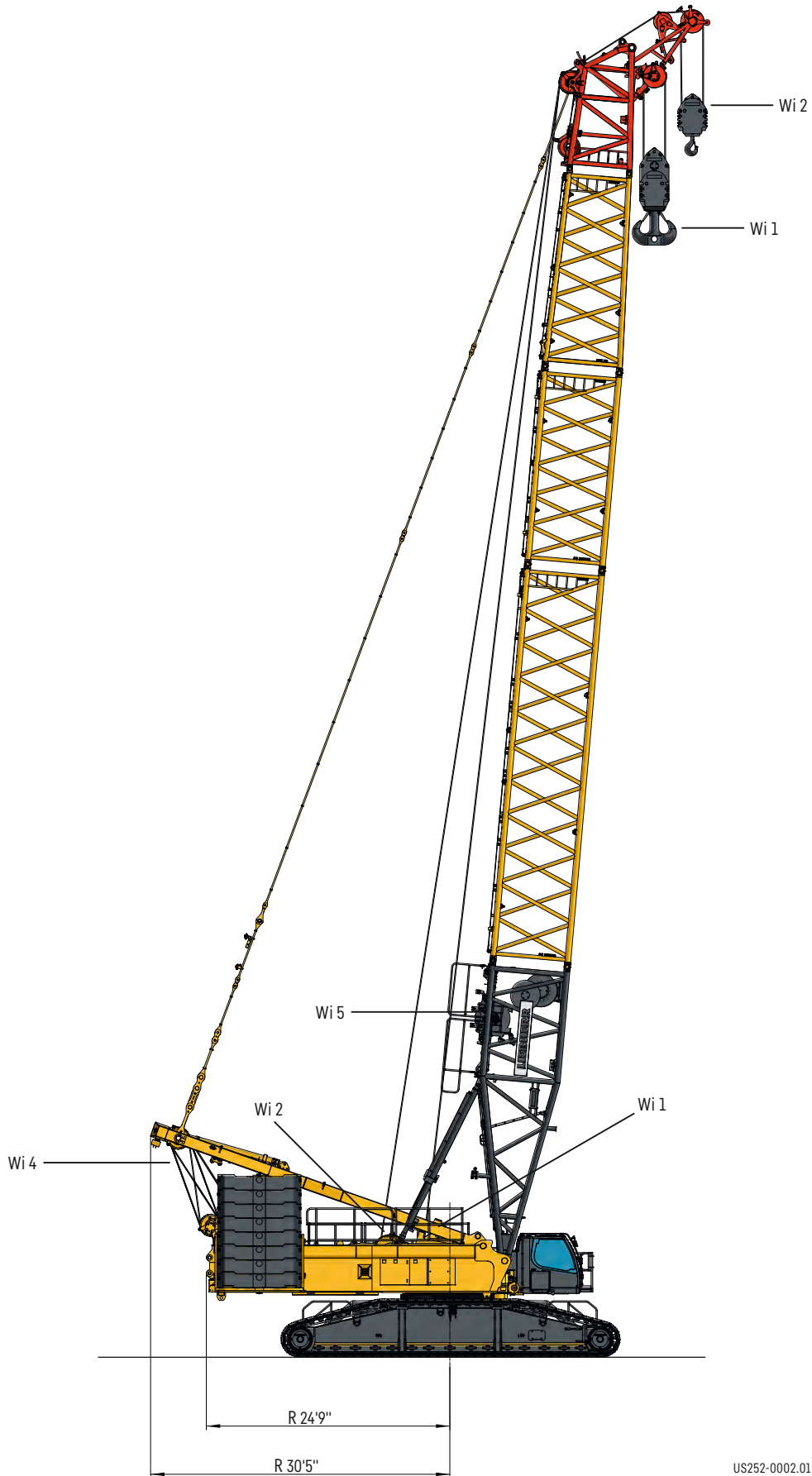
Encombrement



US252-0001.03

Dimensions

Encombrement



Wi = Winch - treuil

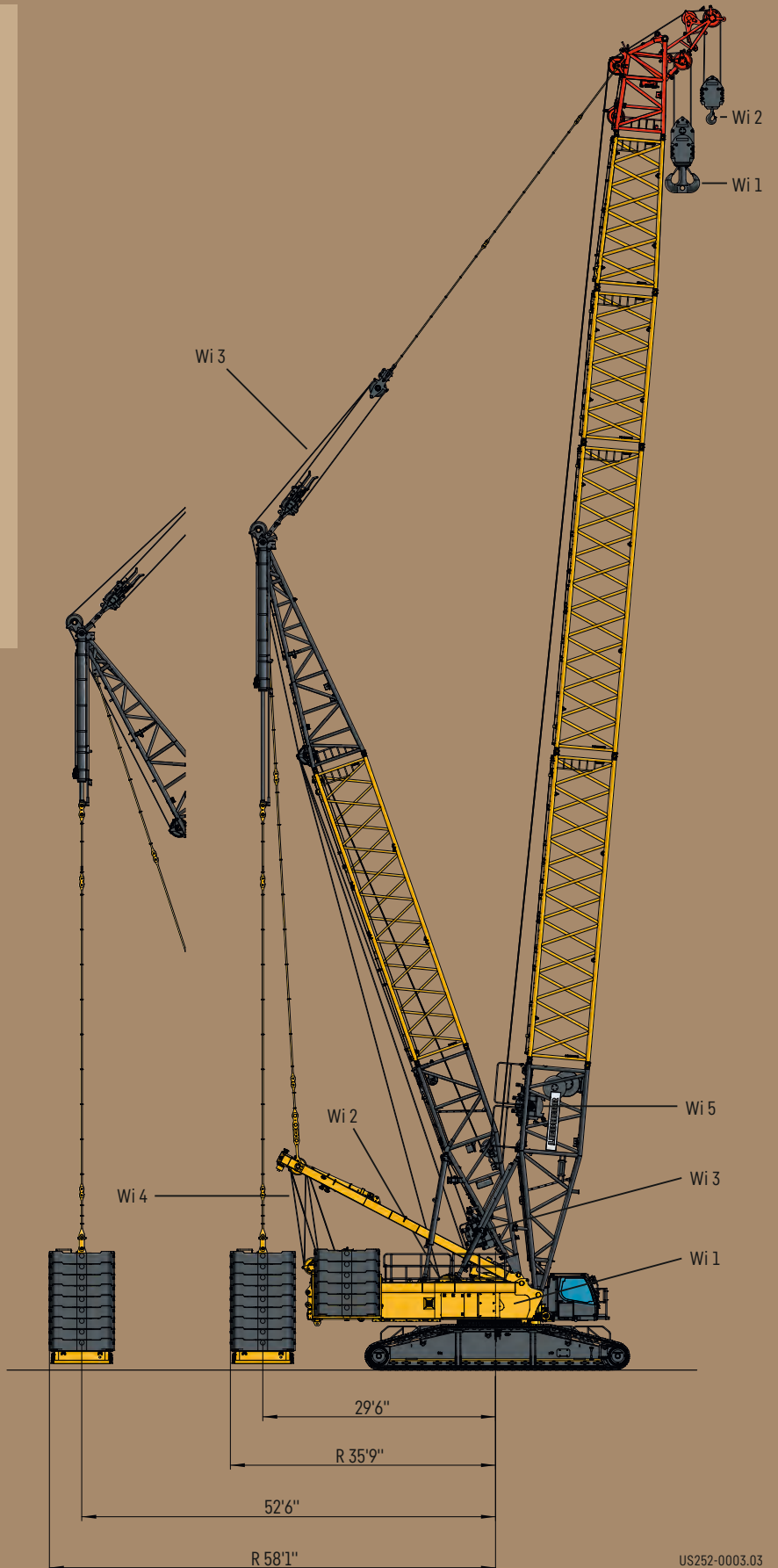
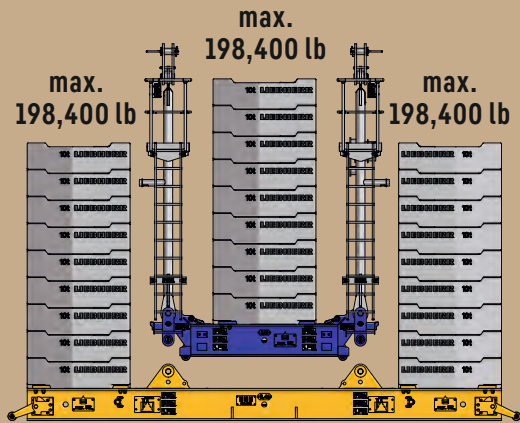
US252-0002.01

Dimensions

Encombrement

617,300 lb derrick counterweight optional VarioTray

VarioTray en option pour contrepoids derrick de 617,300 lb

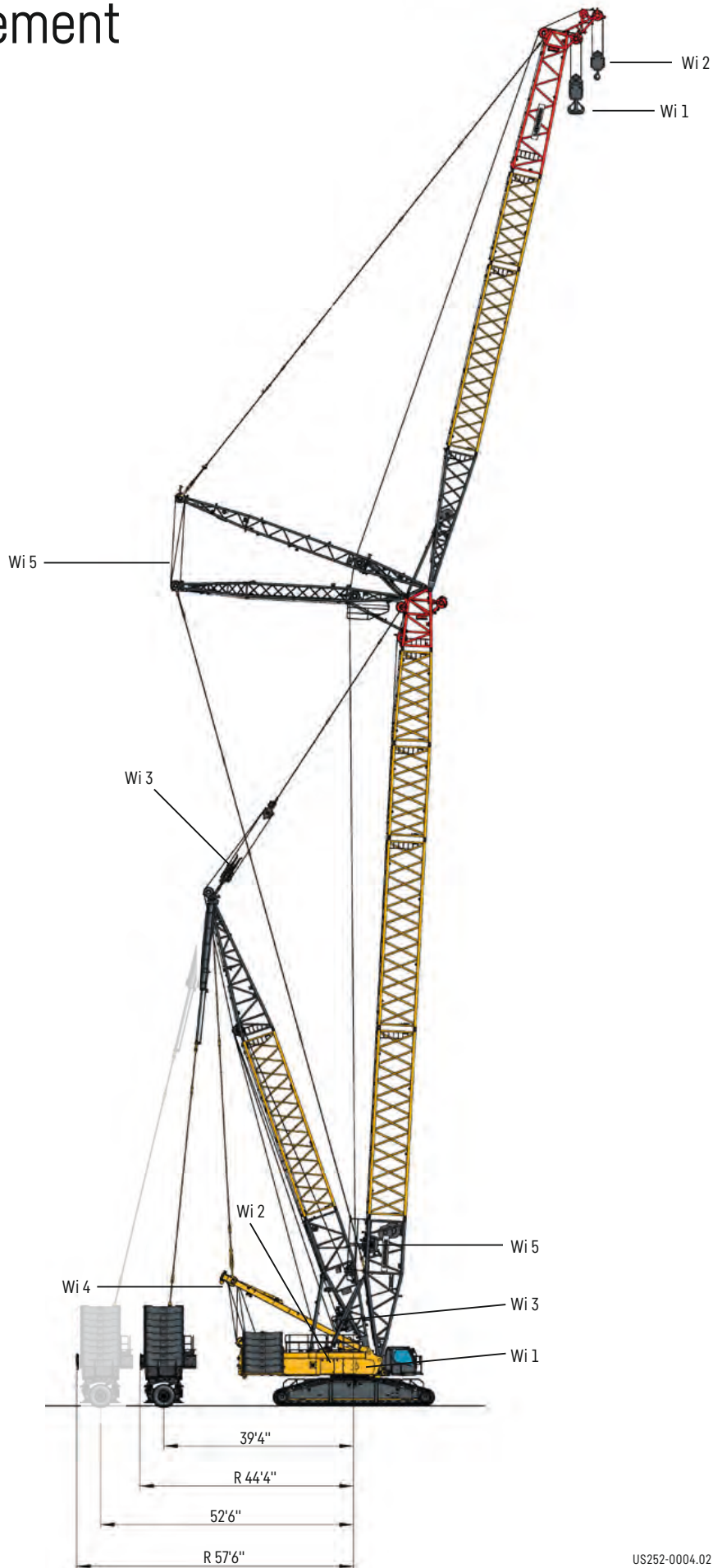


Wi = Winch - treuil

US252-0003.03

Dimensions

Encombrement







Wi = Winch - treuil

US252-0004.02



Crane data

Dates de la grue







Winches · Treuils

	$V_{m/min}$	 F	 \varnothing	
1	0 - 482 ft/min	40,500 lb	28 mm	4,100 ft
2	0 - 410 ft/min	28,100 lb	25 mm	1,970 ft
3	0 - 436 ft/min	-	-	-
4	0 - 2 x 249 ft/min	-	-	-
5	0 - 400 ft/min	-	-	-

Working speeds · Vitesses

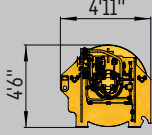
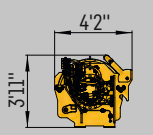

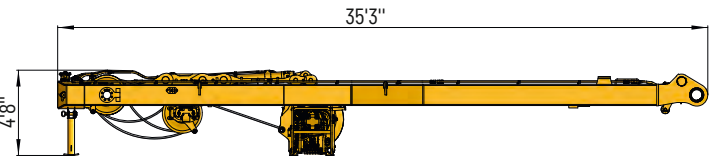
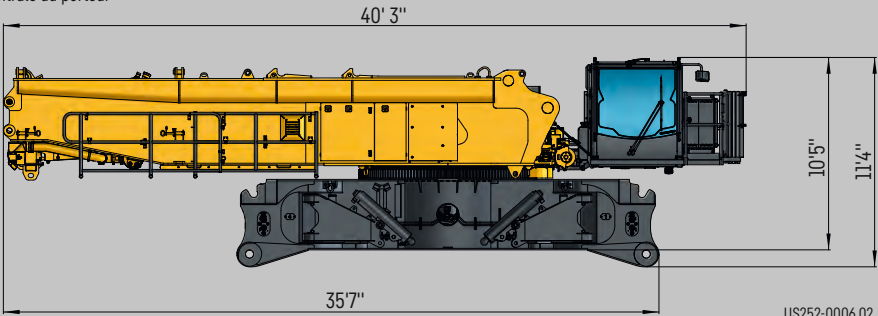

	Slewing speeds · Vitesses d'orientation	0 - 0.54 rpm
	Travel speeds · Vitesses de translation	0 - 0.95 mph

Hook blocks · Mouflés à crochet

	 max	 \varnothing			
948,000 lb	1,102,300 lb	28 mm	13	27	12,125 / 25,350 lb
694,450 lb	705,500 lb	28 mm	9	19	9,920 / 18,740 lb
551,200 lb	551,200 lb	28 mm	7	15	8,820 - 15,430 lb
418,880 lb	440,920 lb	28 mm	5	11	4,410 - 15,430 lb
264,550 lb	275,600 lb	28 mm	3	7	3,305 - 12,125 lb
110,230 lb	138,900 lb	28 mm	1	3	2,205 - 6,615 lb
39,680 lb	40,090 lb	28 mm	-	1	2,425 lb

Transportation plan

Plan de transport

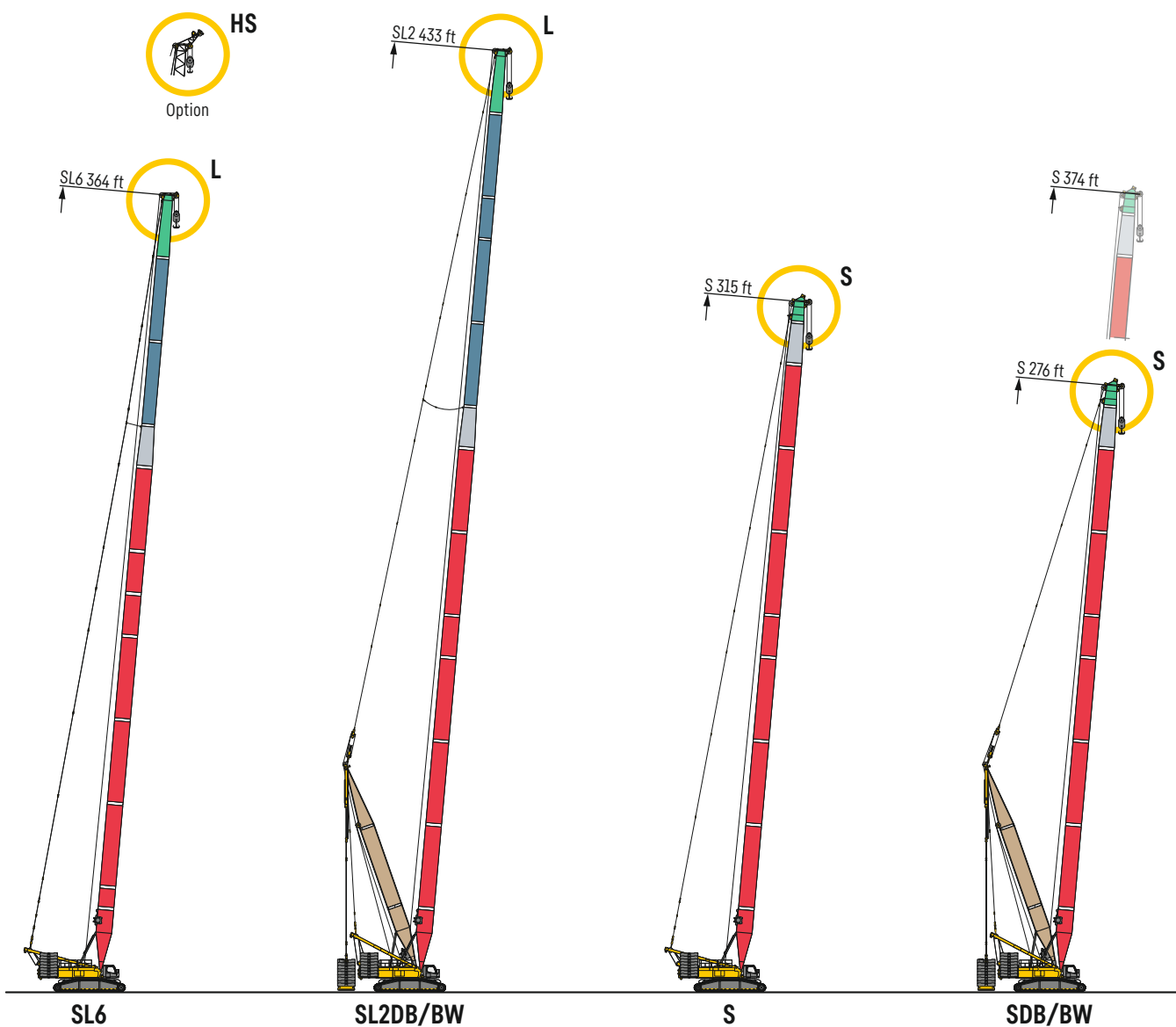
Part · Partie				
Winches 1 and 2 Treuils 1 et 2 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>US252-0009.02</p> </div> <div style="text-align: center;">  <p>US252-0010.02</p> </div> </div>	 19,200 lb + 9,500 lb			
SA-frame, winch 4 incl. rope and pulley block Chevalet SA, treuil 4 incl. câble et bloc de poulies <div style="text-align: center; margin-top: 20px;">  </div> <p style="text-align: right;">US252-0007.02</p>		26,700 lb		
Superstructure and crawler center section Partie tournante et partie centrale du porteur <div style="text-align: center; margin-top: 20px;">  </div> <p style="text-align: right;">US252-0006.02</p>	103,000 lb*			
Crawler with track pads 4 ft 11 in Chenille avec pains de chenille de 4 ft 11 in <div style="text-align: center; margin-top: 20px;">  </div> <p style="text-align: right;">S252-0008.02</p>	2 x 66,150 lb			
Total · total:	290,700 lb	129,700 lb	131,700 lb	158,400 lb
		+Transport bracket +Support de transport		

*option - option Quick Connection 44,100 lb + 71,650 lb

Boom/jib combinations

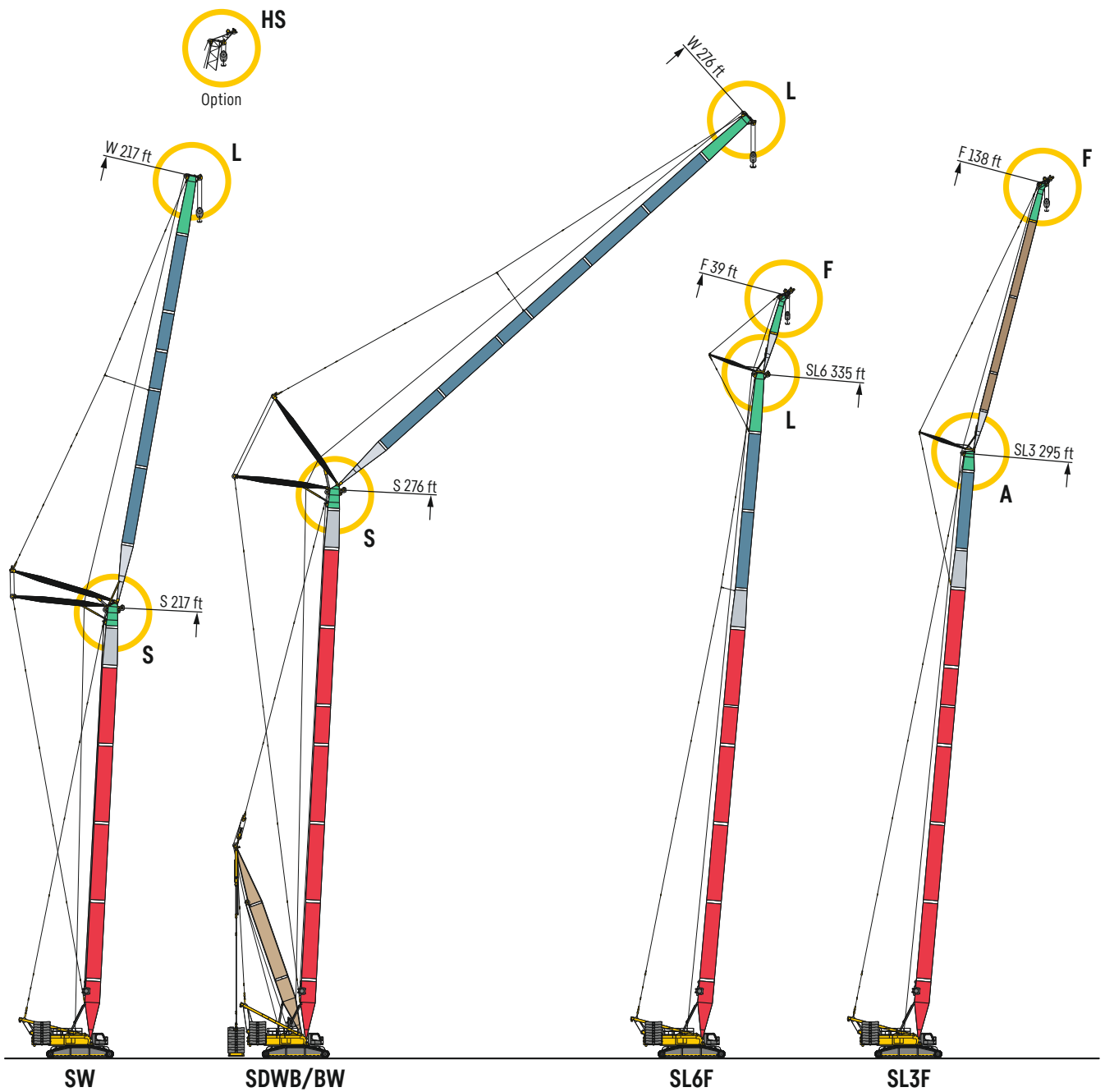
Configurations de flèche

S	Main boom, heavy · Flèche principale, lourde
SL	Main boom, heavy/light · Flèche principale, lourde/légère
D	Derrick · Flèche derrick
W	Luffing jib, heavy · Fléchette, lourde
B	Suspended ballast · Lest suspendu
F	Fixed lattice jib F · Fléchette a treillis fixe F



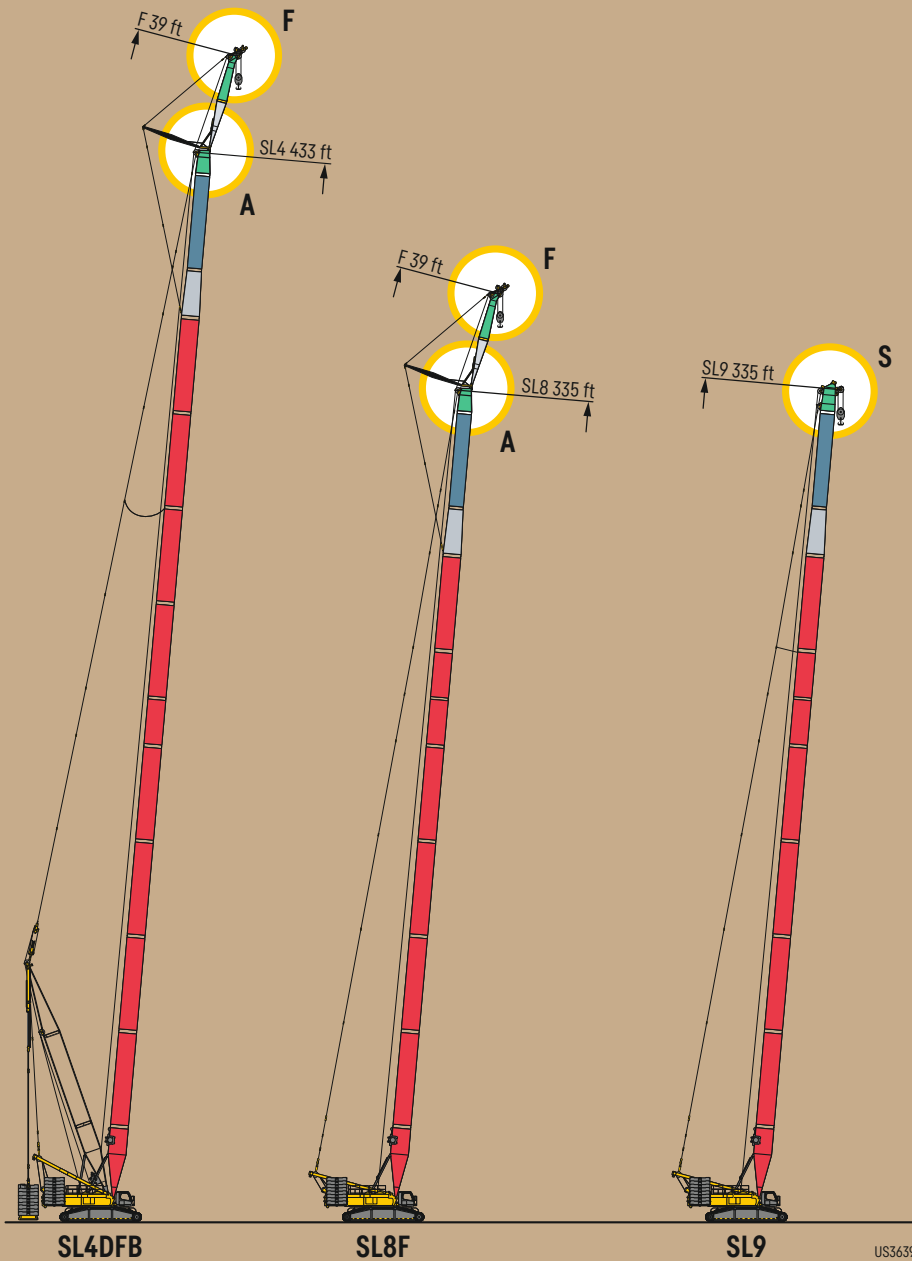
Boom/jib combinations

Configurations de flèche

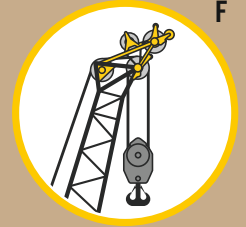


Boom/jib combinations

Configurations de flèche

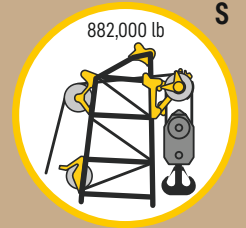


F-Head section
F-Tête de flèche



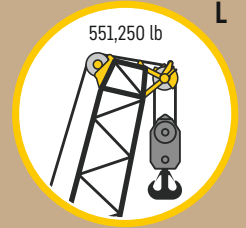
F

S-Head section
S-Tête de flèche



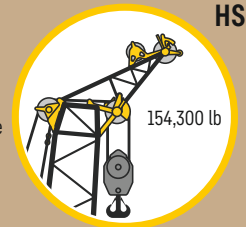
S

L-Head section
L-Tête de flèche



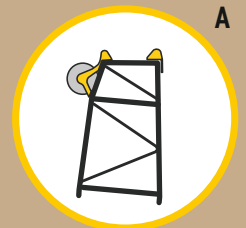
L

HS-Auxiliary jib
HS-Flechette auxiliaire

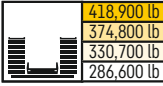


HS

F-adapter head
F-Tête de flèche



A

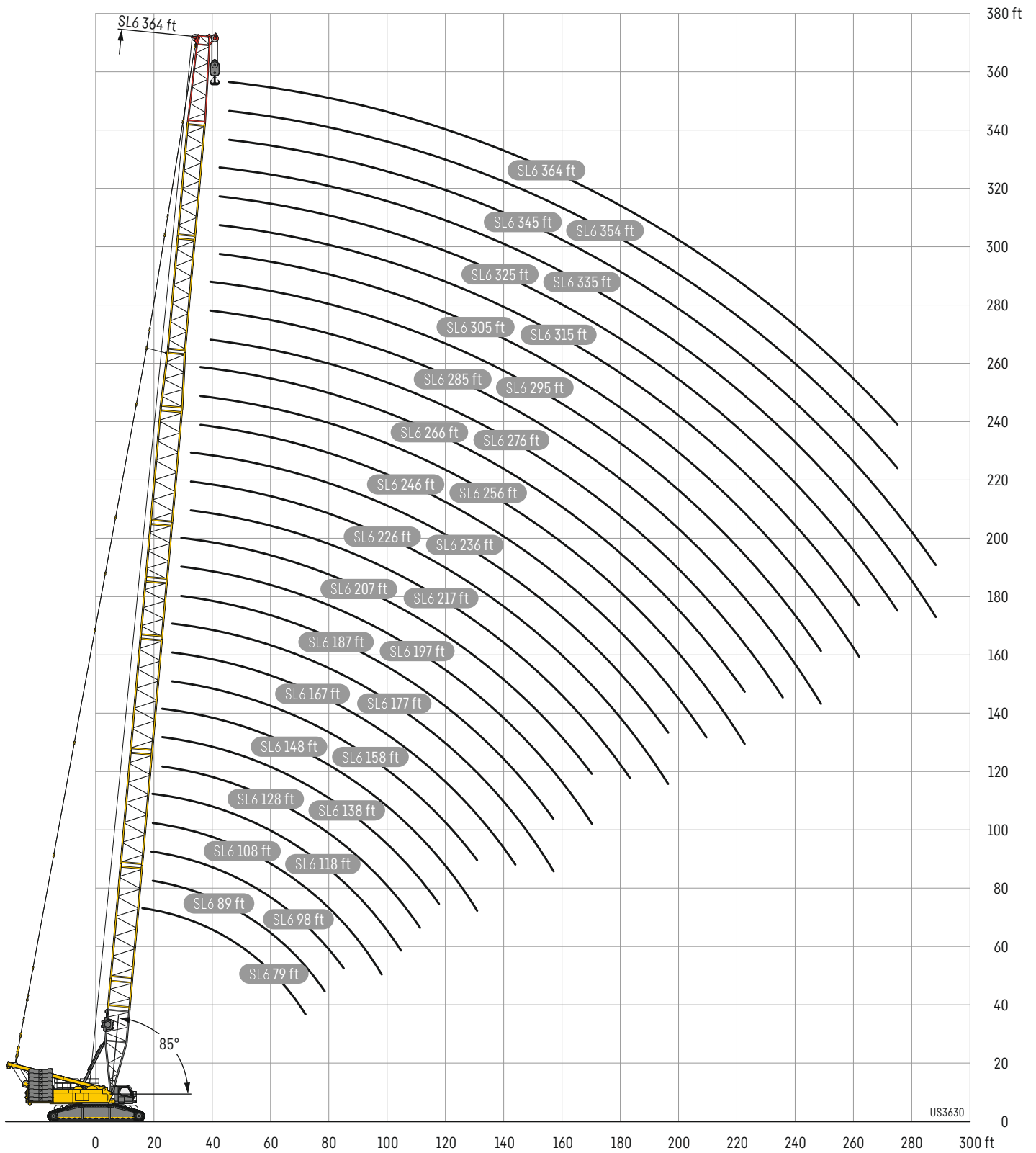


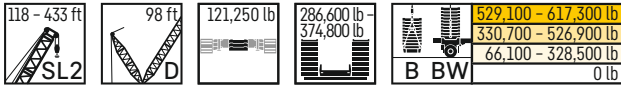
		SL6 79 - 364 ft																																	
ft		79 ft	89 ft	98 ft	108 ft	118 ft	128 ft	138 ft	148 ft	158 ft	167 ft	177 ft	187 ft	197 ft	207 ft	217 ft	226 ft	236 ft	246 ft	256 ft	266 ft	276 ft	285 ft	295 ft	305 ft	315 ft	325 ft	335 ft	345 ft	354 ft	364 ft	ft			
16		551																															16		
18		551	551	551																													18		
20		551	551	551	551	551																											20		
22		551	551	551	551	551	551	551																									22		
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40		484	496	489	480	471	463	453	445	438	431	423	413	405	395	388	380	369	360	356	344	337	327	305	288								40		
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130								101	100	98.8	99.4	98	96.5	95.3	94.1	93	90.9	89.7	89	87.6	86.5	85.6	86.2	84.6	82.6	80.8	79.7	76.7	74.8	71.9			130		
140									90.2	88.6	89.4	87.6	86.6	84.7	84.1	82.9	80.6	79.3	78.8	77.1	76.5	75	75.6	74.4	73.1	71.9	70.6	68.2	66.7	63.9			140		
150											80.7	79	77.7	76.1	75.3	74	72.2	70.8	70	68.3	67.2	66	66.7	65.5	64.3	62.9	62.6	59.9	58.5	56.1			150		
160												71.7	70.3	68.6	67.7	66.5	64.3	63.2	62.4	60.4	59.7	58.4	59.1	57.9	56.4	55.1	54.5	52.6	51.2	48.9			160		
170													63.9	62.2	61.2	59.8	58	56.5	55.6	53.9	52.8	51.4	52.4	51.1	49.7	48.5	47.9	46	44.7	42.3			170		
180														56.5	55.6	54.1	52.2	50.6	49.7	47.9	47	45.8	46.3	45.1	43.6	42.7	41.9	40.2	39.1	36.4			180		
190															50.6	49.2	47	45.5	44.6	42.6	41.6	40.4	40.9	39.9	38.4	37.2	36.7	34.8	33.9	31.4			190		
200																	42.6	40.9	40	37.9	37.1	35.7	36.4	35.2	33.7	32.7	32	30.1	29.2	27			200		
220																			32.3	30.3	29.3	27.8	28.4	27.2	25.7	24.6	24.1	22.3	21.7	19.7			220		
240																					22.9	21.6	22.2	21.1	19.9	18.9	18.4	17	16.1	14.3			240		
260																									16.9	15.7	14.5	13.9	12.3	11.5	9.7			260	
280																											10	9.6	7.9	7				280	

Lifting heights

Hauteurs de levage

SL6

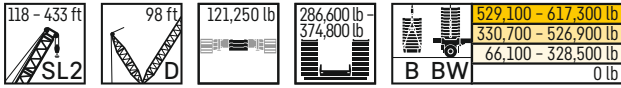




		SL2 118 - 433 ft																
ft		118 ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft	394 ft	413 ft	433 ft
22	0 lb	551																
	B	551																
	BW	551																
24	0 lb	551	551															
	B	551	551															
	BW	551	551															
26	0 lb	551	551	551														
	B	551	551	551														
	BW	551	551	551														
28	0 lb	551	551	551	530													
	B	551	551	551	551													
	BW	551	551	551	551													
30	0 lb	550	544	520	490	466												
	B	551	551	551	551	551												
	BW	551	551	551	551	551												
32	0 lb	537	506	485	460	445	413											
	B	551	551	551	551	551	551											
	BW	551	551	551	551	551	551											
34	0 lb	499	474	460	438	421	400	433										
	B	551	551	551	551	551	551	551										
	BW	551	551	551	551	551	551	551										
36	0 lb	466	455	433	414	396	378	415	348									
	B	551	551	551	551	551	551	551	503									
	BW	551	551	551	551	551	551	551	508									
38	0 lb	446	425	406	389	374	355	392	372	316								
	B	551	551	551	551	551	551	551	502	442								
	BW	551	551	551	551	551	551	551	508									
40	0 lb	420	400	384	369	352	337	372	360	343	291							
	B	551	551	551	551	551	551	551	502	442	369							
	BW	551	551	551	551	551	551	551	509	445								
45	0 lb	367	350	335	322	310	298	335	322	307	298	295	268					
	B	551	551	551	551	551	551	551	499	440	369	326	288					
	BW	551	551	550	551	551	551	551	507	444	341	296	254					
50	0 lb	323	309	297	286	275	264	303	290	282	272	263	256	245	213	191		
	B	551	551	551	549	551	551	551	498	436	368	325	287	253	223	193		
	BW	551	551	550	549	551	551	551	507	439	328	284	244	223	203			
60	0 lb	252	247	241	232	223	215	250	243	237	231	224	218	209	205	191	163	142
	B	551	551	549	546	548	548	549	490	426	358	321	284	250	222	191	163	142
	BW	551	551	550	547	551	549	549	499	423	306	261	231	221	200	179	138	113
70	0 lb	203	200	198	193	186	179	210	204	198	195	189	183	177	172	168	160	140
	B	524	547	548	546	546	540	546	477	414	348	315	279	247	219	188	162	140
	BW	525	547	548	545	547	541	516	473	402	305	246	226	220	198	178	137	112
80	0 lb	169	166	163	161	157	152	178	175	170	167	162	157	153	148	144	139	134
	B	498	515	516	511	505	504	505	463	402	339	306	273	242	215	184	160	137
	BW	499	515	516	512	507	506	472	439	382	305	238	226	219	196	176	136	112
90	0 lb	144	140	138	135	133	129	154	151	147	145	140	136	131	128	124	120	118
	B	435	460	457	454	450	446	452	445	389	332	300	267	236	210	182	156	133
	BW	453	462	458	455	451	447	435	406	365	305	238	226	218	193	175	135	112
100	0 lb	124	121	119	116	113	110	133	133	128	127	122	118	114	111	108	105	103
	B	372	403	411	407	403	399	406	404	373	315	294	259	233	206	177	153	129
	BW	390	414	412	408	404	400	396	382	347	305	238	226	216	191	174	134	111
110	0 lb		105	103	101	97.5	94.6	115	115	112	111	107	104	99.9	96.9	94.4	91.7	89.9
	B		353	369	368	364	360	365	364	358	288	288	257	226	202	173	149	126
	BW		368	372	369	365	362	358	354	333	305	238	226	216	190	172	134	111

SL2DB/BW

SL2 118 - 433

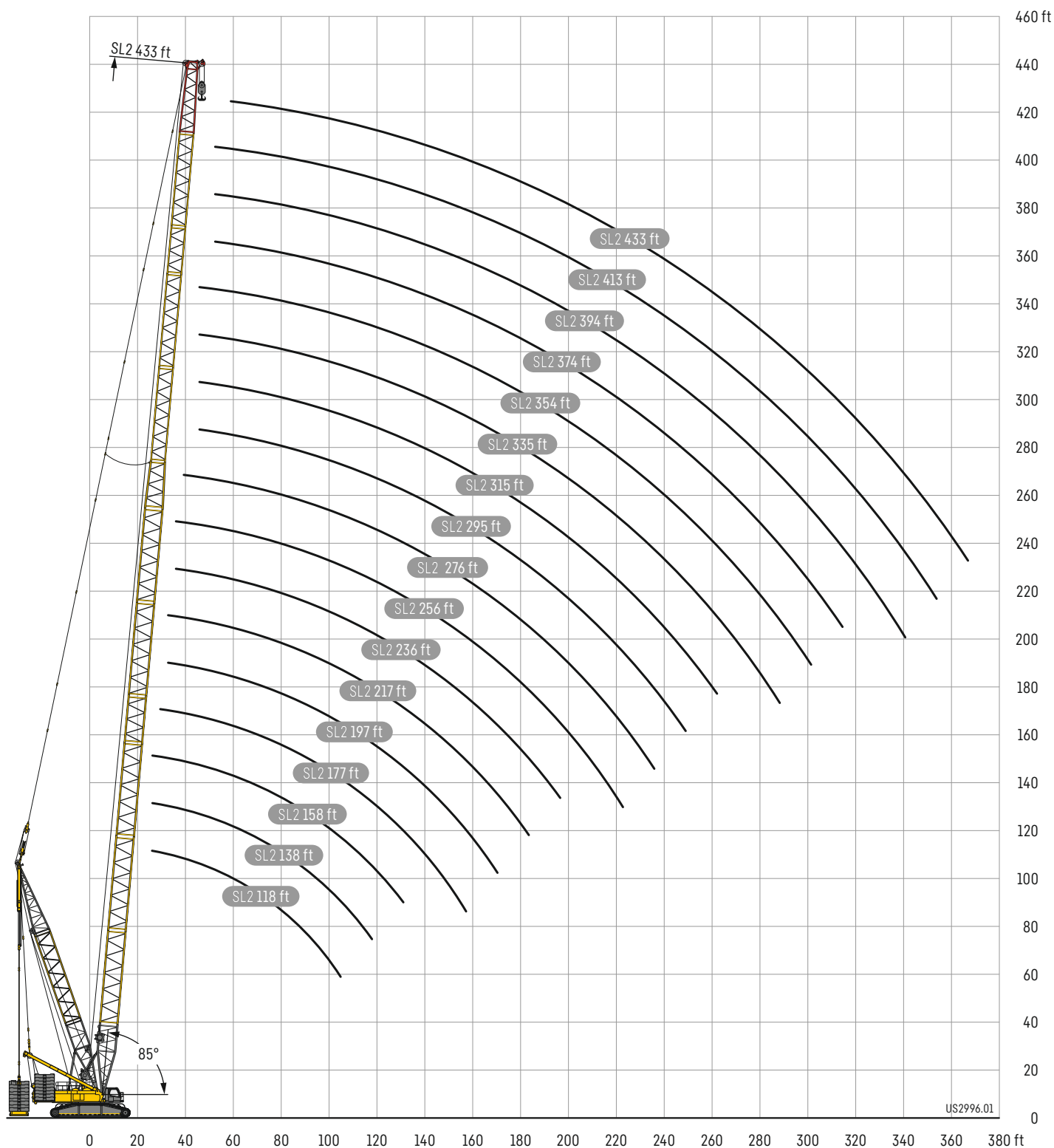



		SL2 118 - 433 ft																
ft		118 ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft	394 ft	413 ft	433 ft
120	0 lb		92.9	90.3	87.6	84.9	82.3	100	99.6	97.7	97.4	95	91.7	88	85.2	83.1	79.9	79.1
	B		309	328	334	332	329	330	330	327	266	277	248	221	197	168	145	124
	BW		323	338	335	333	330	325	324	314	304	238	226	216	190	171	134	111
130	0 lb			79.9	77.1	74.3	71.7	88.2	87.6	85.5	85.4	83.2	81.2	77.7	75.1	73.2	70.4	69.1
	B			292	303	304	301	301	300	298	253	260	238	216	192	165	142	120
	BW			307	307	305	302	298	297	292	288	238	226	216	190	168	134	111
140	0 lb			71.3	68.5	65.7	62.9	77.8	77.4	75.6	75	72.9	71	68.7	66.6	64.8	61.7	60.5
	B			260	276	280	278	276	275	273	238	248	230	207	187	159	138	116
	BW			272	283	281	278	275	274	271	269	238	226	216	190	163	134	111
150	0 lb				61.1	58.1	55.3	69.1	68.5	66.5	66.3	64.2	62.7	60	58.2	56.9	54.4	52.9
	B				249	257	256	254	253	251	224	239	219	198	179	153	134	112
	BW				258	259	257	254	253	250	250	237	225	213	189	156	134	111
160	0 lb					51.9	49	61.3	61.1	59.1	58.9	56.5	54.8	52.4	51	49.6	47.8	46.5
	B					235	237	235	235	233	218	228	209	191	175	147	130	109
	BW					240	237	234	235	233	233	228	218	206	184	150	133	110
170	0 lb					46.4	43.3	55	54.5	52.3	52.3	50	48.3	45.9	44.5	43	41.5	40.7
	B					212	219	218	217	216	211	214	203	182	167	141	127	106
	BW					222	220	218	217	216	217	214	207	196	179	145	130	107
180	0 lb						38.6	49.3	48.7	46.7	46.4	44	42.5	40.2	38.8	37.4	35.4	35.1
	B						200	202	203	201	200	199	196	176	161	133	123	102
	BW						206	203	203	201	202	199	196	188	173	140	126	104
190	0 lb						34.4	44.2	43.7	41.5	41.1	38.9	37.4	35	33.5	32.4	30.4	30.3
	B						182	188	190	188	187	186	184	172	155	129	119	98.8
	BW						191	189	189	188	188	187	185	179	168	135	123	100
200	0 lb							39.9	39.3	37	36.7	34.3	32.7	30.5	28.8	27.7	25.8	25.6
	B							174	178	175	176	174	173	166	150	125	114	95.3
	BW							178	178	175	176	174	173	170	163	131	119	97
220	0 lb								31.8	29.4	28.9	26.5	25	22.7	21.3	20.3	18.9	18.5
	B								155	154	155	153	152	150	141	115	107	89.5
	BW								157	155	155	153	153	151	149	122	113	91.1
240	0 lb									23.2	22.7	20.5	19	17.2	15.7	14.9	13.3	12.9
	B									132	136	136	135	133	129	108	99.1	83.4
	BW									138	138	136	135	133	132	115	106	85.9
260	0 lb											16.2	14.5	12.5	11.1	10.1		7.3
	B											118	117	118	115	103	94.9	78.1
	BW											122	120	119	118	108	101	81.3
280	0 lb												10.1	7.7				
	B												104	103	102	98.9	89.6	74.1
	BW												108	106	105	103	95.5	77.4
300	0 lb																	
	B													91.7	91.3	90.1	85.5	70.9
	BW													95.7	94.2	93.6	90.4	73.8
320	0 lb																	
	B														80	78.8	75.3	68.1
	BW														84.7	84.2	82.4	70.8
340	0 lb																	
	B															68.5	67.3	65.7
	BW															76	74.5	68.1
360	0 lb																	
	B																	59.4
	BW																	66

Lifting heights

Hauteurs de levage

SL2DB/BW



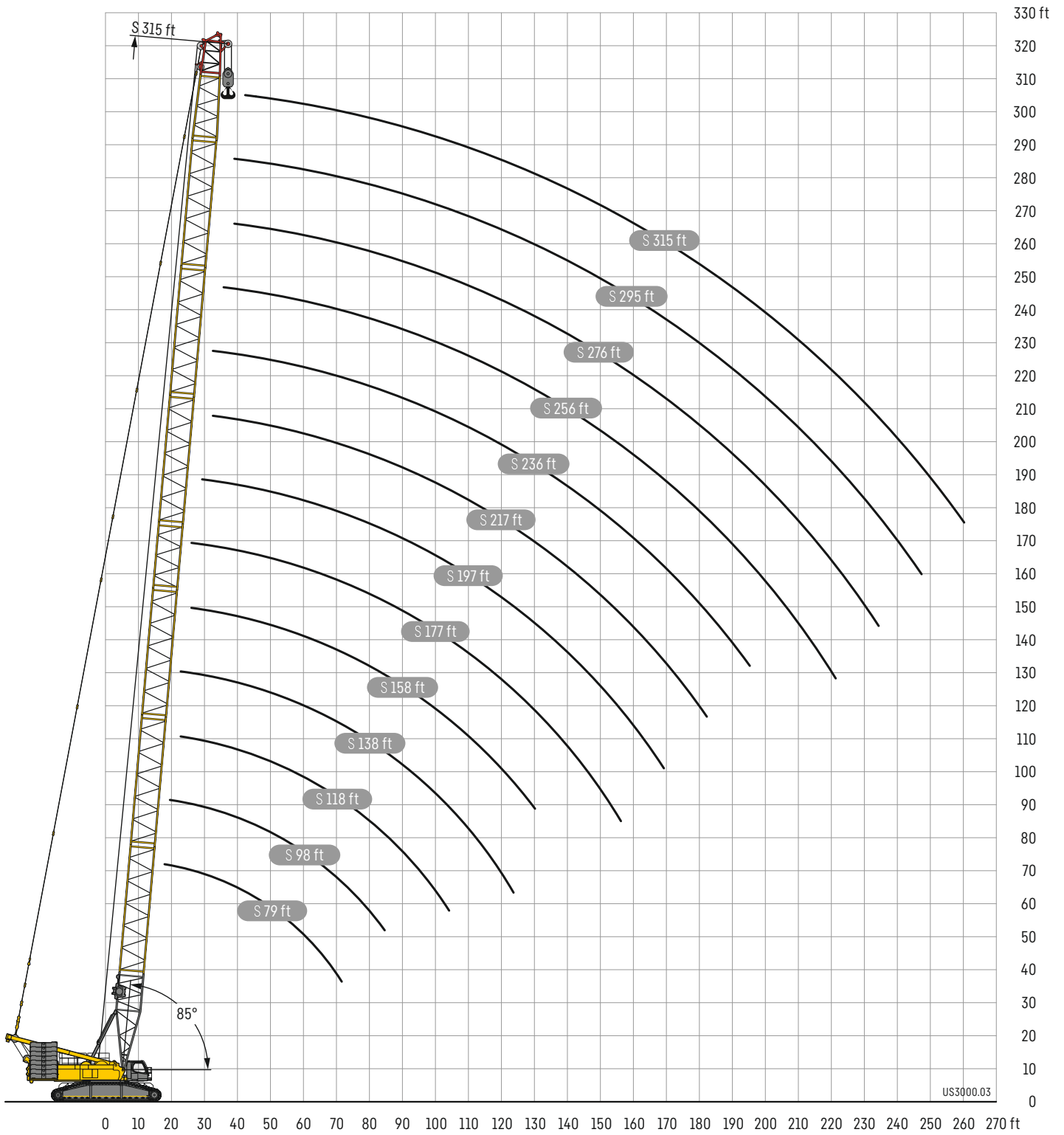
 79 - 315 ft	 121,250 lb	 418,900 lb
		374,800 lb
		330,700 lb
		286,600 lb

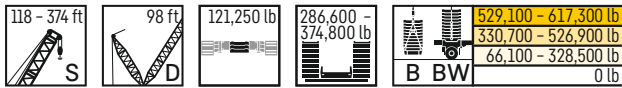
ft	SL 79 - 315 ft													ft
	79 ft	98 ft	118 ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	
18	882													18
20	882	882												20
22	853	846	837											22
24	786	779	772	764										24
26	728	722	735	721	700									26
28	679	690	683	664	638	617								28
30	636	646	630	609	591	568	547							30
32	612	600	583	568	551	531	509	487						32
34	578	557	543	526	511	493	475	453	434					34
36	546	521	506	494	480	461	445	428	410	386				36
38	517	492	475	462	448	435	419	406	387	366	340			38
40	491	467	447	437	423	409	396	381	366	349	327	286		40
45	434	421	395	379	368	359	346	336	323	306	293	266	216	45
50	382	377	359	336	326	317	306	297	287	275	261	244	200	50
60	296	294	291	285	269	256	248	241	234	223	214	201	172	60
70	239	236	234	232	230	221	209	202	194	186	180	170	147	70
80		196	194	192	190	188	184	175	166	158	153	145	128	80
90		167	164	163	160	159	156	153	147	138	131	124	111	90
100			142	140	138	135	134	132	129	123	117	108	97.4	100
110				122	120	118	116	114	112	109	106	97.7	89.2	110
120				107	105	103	101	99.6	97.5	94.8	93.2	89.1	82.7	120
130					92.7	90.6	88.6	87.4	85.3	82.7	81.7	78.1	75.4	130
140					82.8	80.4	78.2	77.2	75	72.3	71.2	68.8	66.9	140
150						71.8	69.5	68.3	66.4	63.4	62.4	59.8	58.5	150
160							61.9	60.7	58.4	55.9	54.5	51.9	50.7	160
170							55.6	54.3	52	49.1	47.8	45.1	44	170
180								48.5	46.1	43.1	41.9	39	38.1	180
190								43.5	40.8	38	36.5	33.8	32.8	190
200									36.4	33.2	31.7	29.2	28	200
220										25.6	23.9	21.4	20.4	220
240											18.4	15.8	14.6	240
260													9.2	260

Lifting heights

Hauteurs de levage

S



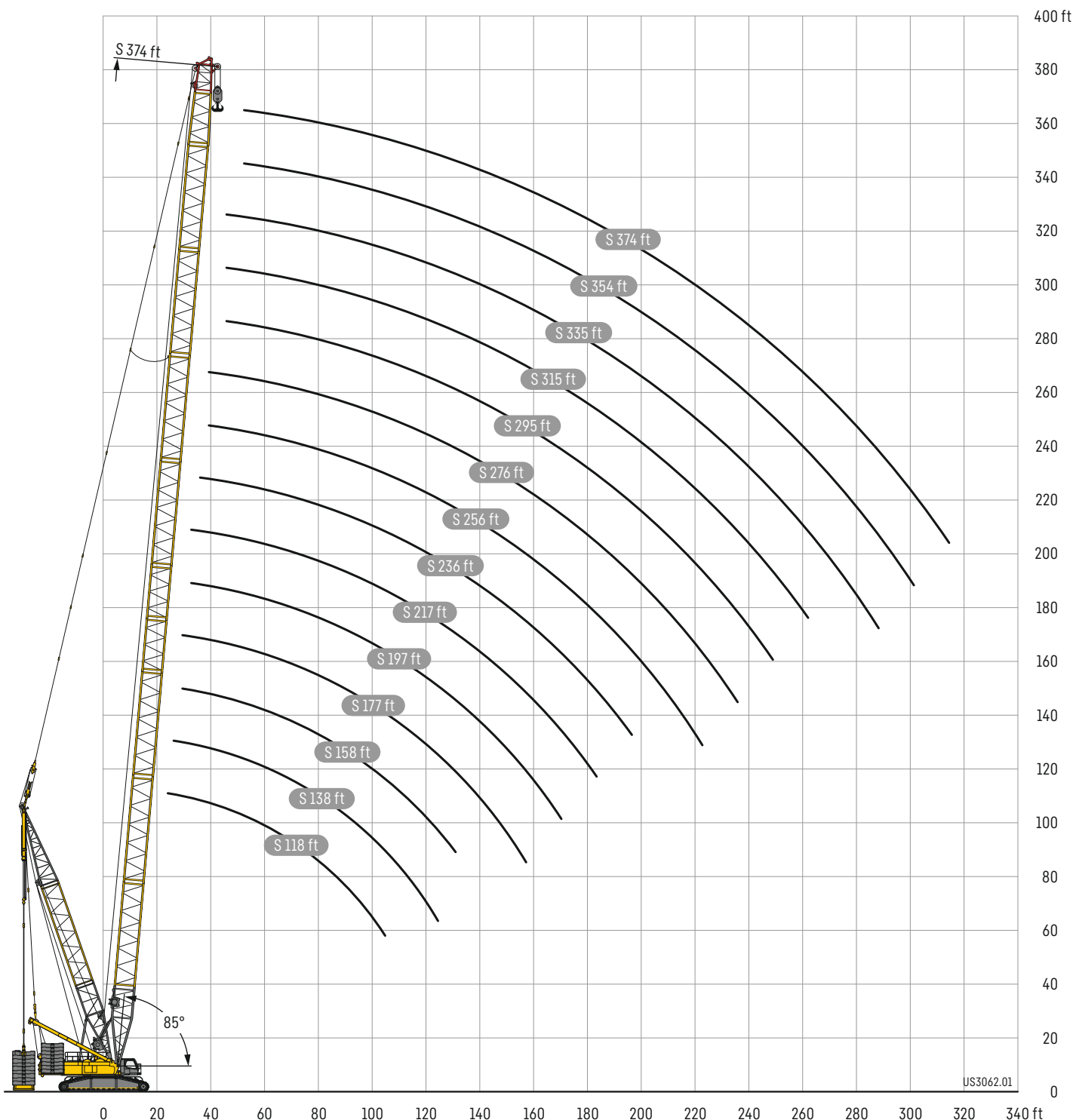


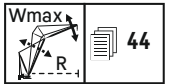
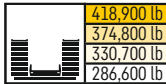
		S 118 - 374 ft													
ft		118 ft	138 ft	158 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft
24	O lb	756													
	B	882													
	BW	882													
26	O lb	685	638												
	B	882	882												
	BW	882	882												
28	O lb	624	600	563											
	B	882	882	882											
	BW	882	882	881											
30	O lb	585	550	522	495										
	B	882	878	882	818										
	BW	882	881	881	818										
32	O lb	540	511	486	463	499									
	B	882	878	876	818	755									
	BW	882	881	878	818	756									
34	O lb	501	474	451	431	472	446								
	B	882	874	876	816	755	659								
	BW	882	876	878	817	756	659								
36	O lb	468	444	425	403	445	427	405							
	B	882	874	876	814	754	659	583							
	BW	882	876	878	816	755	659	592							
38	O lb	438	416	397	381	419	406	388	372						
	B	882	874	867	814	750	659	583	508						
	BW	882	876	872	816	752	659	592	515						
40	O lb	412	393	375	358	401	386	368	360	339					
	B	882	868	851	812	750	655	582	508	445					
	BW	882	870	872	812	752	655	591	515	449					
45	O lb	358	340	326	314	360	342	337	323	307	297	282	276		
	B	832	809	822	786	742	654	577	503	443	383	333	295		
	BW	881	866	847	801	745	655	583	509	447	380	326			
50	O lb	314	299	288	277	319	310	299	290	280	272	257	253	246	217
	B	795	790	771	743	713	651	569	500	438	381	329	294	256	222
	BW	823	814	794	766	728	652	579	508	444	376	320	275	231	200
60	O lb	245	240	231	222	259	253	245	236	230	222	217	209	203	196
	B	683	676	666	658	674	632	563	492	429	372	319	292	254	219
	BW	692	689	682	672	660	619	562	499	432	361	305	270	222	195
70	O lb	196	193	190	184	216	211	203	198	193	188	181	176	169	165
	B	591	587	579	574	588	582	550	477	421	360	307	290	251	217
	BW	593	589	585	580	574	554	507	468	413	369	289	269	219	191
80	O lb	162	159	156	153	184	179	173	168	164	159	154	148	144	139
	B	508	512	508	504	515	511	502	467	411	345	293	286	248	213
	BW	518	513	509	506	504	500	463	427	393	329	274	269	217	187
90	O lb	136	133	130	128	155	153	149	144	141	136	133	127	123	119
	B	432	454	449	447	454	452	448	439	395	328	280	278	244	209
	BW	443	455	450	448	444	442	428	396	368	315	258	269	214	184
100	O lb	117	114	111	108	132	131	129	125	122	118	115	110	107	103
	B	368	398	403	398	406	404	401	397	380	321	268	270	241	206
	BW	381	406	404	399	397	395	392	372	345	307	249	268	213	181
110	O lb		98.5	95.4	92.8	114	113	111	109	107	103	99.4	95.4	92.5	89.9
	B		346	362	360	365	363	361	359	354	311	258	263	234	202
	BW		359	364	361	358	356	353	346	326	298	243	264	212	179
120	O lb		86.1	82.9	80.2	99.1	98.4	95.9	93.6	92.7	90.3	87.3	83.2	80.4	76.9
	B		302	324	327	329	329	326	325	323	303	254	250	228	200
	BW		313	330	328	325	324	321	318	306	286	240	256	212	179
130	O lb			72.7	69.9	87.1	85.9	83.8	81.4	80.4	78.1	76.2	72.4	70.1	66.2
	B			287	299	300	299	297	295	294	289	246	239	223	197
	BW			296	300	298	296	294	291	286	269	233	243	212	179
140	O lb			64.4	61.3	76.8	75.7	73.5	71.2	69.9	68.1	66.3	63.5	60.9	57.7
	B			254	270	274	274	272	269	268	266	235	226	215	192
	BW			262	276	274	273	270	267	265	265	224	232	212	179
150	O lb				54.1	68.2	66.9	64.7	62.3	61.2	59.4	57.6	55	53.3	50
	B				241	252	251	250	247	246	244	222	217	208	187
	BW				250	252	251	249	246	245	240	213	221	208	179
160	O lb					60.8	59.5	56.9	54.8	53.5	51.6	49.9	47.5	45.9	43.1
	B					230	232	230	229	227	225	209	209	201	183
	BW					233	232	230	229	227	224	201	210	197	179
170	O lb						54.5	53	50.6	48.2	47	45	43.4	40.7	36.9
	B						207	216	214	211	208	197	200	193	177
	BW						215	216	214	212	211	191	199	187	175
180	O lb							47.4	44.8	42.3	41.3	39.1	37.7	34.8	31.3
	B							197	199	197	196	194	185	190	183
	BW							201	199	197	196	194	182	188	178
190	O lb								42.5	39.7	37.3	36	34	32.5	29.7
	B								179	185	183	182	180	175	174
	BW								186	185	183	182	180	173	170
200	O lb									35.4	32.8	31.4	29.4	27.8	25.1
	B														23.6
	BW														21.7
220	O lb														
	B														16.8
	BW														14.3
240	O lb														
	B														10.6
	BW														124
260	O lb														
	B														110
	BW														110
280	O lb														
	B														97.9
	BW														97.6
300	O lb														
	B														86.4
	BW														86.7
320	O lb														
	B														73.9
	BW														77.5

Lifting heights

Hauteurs de levage

SDB/BW

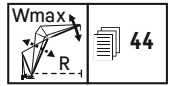
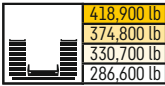




ft	S 98 ft												ft
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
32	551 ^(A)	551 ^(A)											32
34	551 ^(A)	551 ^(A)											34
36	531 ^(A)	531 ^(A)	508 ^(A)	508 ^(A)									36
38	500 ^(A)	501 ⁽²⁾	479 ^(A)	480 ⁽¹⁾									38
40	470 ^(A)	472 ⁽¹⁾	455 ^(A)	455 ^(A)									40
45	410 ^(A)	413 ⁽¹⁾	403 ^(A)	403 ^(A)	387 ^(A)	387 ⁽¹⁾	373 ^(A)	373 ^(A)					45
50	363 ^(A)	363 ⁽³⁾	357 ^(A)	357 ⁽¹⁾	348 ^(A)	348 ^(A)	336 ^(A)	336 ^(A)	325 ^(A)	325 ^(A)			50
60	294 ^(A)	294 ^(A)	289 ^(A)	289 ^(A)	284 ^(A)	284 ^(A)	278 ^(A)	278 ^(A)	272 ^(A)	272 ^(A)	263 ^(A)	263 ^(A)	60
70	246 ^(A)	246 ^(A)	243 ^(A)	243 ^(A)	238 ^(A)	238 ^(A)	234 ^(A)	234 ^(A)	230 ^(A)	230 ^(A)	224 ^(A)	224 ^(A)	70
80		204 ⁽¹¹⁾	208 ^(A)	208 ^(A)	204 ^(A)	204 ^(A)	200 ^(A)	200 ^(A)	197 ^(A)	197 ^(A)	192 ^(A)	192 ^(A)	80
90		171 ⁽¹¹⁾	181 ^(A)	181 ^(A)	178 ^(A)	178 ^(A)	175 ^(A)	175 ^(A)	171 ^(A)	171 ^(A)	168 ^(A)	168 ^(A)	90
100		147 ⁽¹⁰⁾		153 ⁽¹¹⁾	157 ^(A)	157 ⁽¹⁰⁾	154 ^(A)	154 ^(A)	151 ^(A)	151 ^(A)	148 ^(A)	148 ^(A)	100
110		125 ⁽⁸⁾		131 ⁽¹¹⁾	139 ^(A)	139 ^(A)	137 ^(A)	137 ^(A)	134 ^(A)	134 ^(A)	132 ^(A)	132 ^(A)	110
120		108 ⁽⁸⁾		114 ⁽¹⁰⁾		118 ^(C)	123 ^(A)	123 ^(A)	121 ^(A)	121 ^(A)	118 ^(A)	118 ^(A)	120
130		92.0 ⁽⁶⁾		98.8 ⁽⁸⁾		103 ⁽¹¹⁾	111 ^(A)	111 ^(A)	109 ^(A)	109 ^(A)	107 ^(A)	107 ^(A)	130
140				85.5 ⁽⁸⁾		91.2 ⁽¹¹⁾		94.8 ^(C)	98.9 ^(A)	98.9 ^(A)	96.8 ^(A)	96.8 ^(A)	140
150				73.6 ⁽⁶⁾		79.5 ⁽⁹⁾		82.6 ⁽¹¹⁾	89.7 ^(A)	89.7 ^(A)	88.0 ^(A)	88.0 ^(A)	150
160						69.1 ⁽⁹⁾		73.9 ⁽¹¹⁾		77.0 ^(C)	80.2 ^(A)	80.2 ^(A)	160
170						59.5 ⁽⁷⁾		64.7 ⁽⁹⁾		67.2 ^(C)	73.5 ^(A)	73.5 ^(A)	170
180								56.3 ⁽⁹⁾		60.1 ⁽¹¹⁾		62.8 ^(C)	180
190								48.2 ⁽⁷⁾		52.3 ⁽⁹⁾		54.8 ⁽⁹⁾	190
200										45.3 ⁽⁹⁾		48.8 ⁽¹¹⁾	200
220												36.1 ⁽⁹⁾	220

ft	S 98 ft												ft
	W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
60	255 ^(A)	255 ^(A)											60
70	219 ^(A)	219 ^(A)	213 ^(A)	213 ⁽¹⁾	206 ^(A)	206 ^(A)							70
80	188 ^(A)	188 ⁽²⁾	185 ^(A)	185 ^(A)	180 ^(A)	180 ^(A)	175 ^(A)	175 ^(A)	153 ^(A)	153 ^(A)			80
90	164 ^(A)	164 ^(A)	161 ^(A)	161 ^(A)	157 ^(A)	157 ^(A)	154 ^(A)	154 ^(A)	149 ^(A)	149 ^(A)	125 ^(A)	126 ⁽¹⁾	90
100	145 ^(A)	145 ^(A)	142 ^(A)	143 ⁽³⁾	139 ^(A)	139 ^(A)	136 ^(A)	136 ^(A)	133 ^(A)	133 ⁽¹⁾	123 ^(B)	123 ⁽¹⁾	100
110	129 ^(A)	129 ^(A)	127 ^(A)	127 ^(A)	123 ^(A)	123 ⁽³⁾	121 ^(A)	121 ^(A)	118 ^(A)	121 ⁽¹⁾	114 ^(A)	115 ⁽¹⁾	110
120	115 ^(A)	115 ^(A)	114 ^(A)	114 ^(A)	110 ^(A)	110 ^(A)	108 ^(A)	108 ⁽³⁾	106 ^(A)	108 ⁽¹⁾	103 ^(A)	107 ⁽¹⁾	120
130	104 ^(A)	104 ^(A)	103 ^(A)	103 ^(A)	99.1 ^(A)	99.1 ^(A)	97.6 ^(A)	97.6 ^(A)	95.5 ^(A)	96.1 ⁽¹⁾	92.6 ^(A)	99.3 ⁽¹⁾	130
140	94.5 ^(A)	94.5 ^(A)	93.0 ^(A)	93.0 ^(A)	89.8 ^(A)	89.8 ^(A)	88.0 ^(A)	88.0 ^(A)	86.4 ^(A)	86.4 ^(A)	83.8 ^(A)	91.3 ⁽¹⁾	140
150	86.1 ^(A)	86.1 ^(A)	84.5 ^(A)	84.5 ^(A)	81.7 ^(A)	81.7 ^(A)	80.1 ^(A)	80.1 ^(A)	78.1 ^(A)	78.1 ^(A)	75.8 ^(A)	83.3 ⁽¹⁾	150
160	78.7 ^(A)	78.7 ^(A)	77.4 ^(A)	77.4 ^(A)	74.6 ^(A)	74.6 ^(A)	73.1 ^(A)	73.1 ^(A)	71.1 ^(A)	71.1 ^(A)	68.9 ^(A)	75.3 ⁽¹⁾	160
170	71.7 ^(A)	71.7 ^(A)	70.8 ^(A)	70.8 ^(A)	68.4 ^(A)	68.4 ^(A)	66.9 ^(A)	66.9 ^(A)	65.1 ^(A)	65.1 ^(A)	62.7 ^(A)	67.3 ⁽¹⁾	170
180	65.7 ^(A)	65.7 ^(A)	64.9 ^(A)	64.9 ^(A)	62.6 ^(A)	62.6 ^(A)	61.4 ^(A)	61.4 ^(A)	59.6 ^(A)	59.6 ^(A)	57.4 ^(A)	59.4 ⁽¹⁾	180
190	60.6 ^(A)	60.6 ^(A)	59.5 ^(A)	59.5 ^(A)	57.2 ^(A)	57.2 ^(A)	56.2 ^(A)	56.2 ^(A)	54.7 ^(A)	54.7 ^(A)	52.7 ^(A)	52.7 ^(A)	190
200		51.3 ^(C)	54.6 ^(A)	54.6 ^(A)	52.4 ^(A)	52.4 ^(A)	51.5 ^(A)	51.5 ^(A)	50.0 ^(A)	50.0 ^(A)	48.3 ^(A)	48.3 ^(A)	200
220		39.2 ⁽¹¹⁾		42.4 ^(C)	44.1 ^(A)	44.1 ^(A)	43.1 ^(A)	43.1 ⁽¹⁰⁾	41.6 ^(A)	41.6 ^(A)	40.3 ^(A)	40.3 ^(A)	220
240		28.3 ⁽⁹⁾		31.8 ⁽¹¹⁾			33.7 ^(C)	36.4 ^(A)	34.7 ^(A)	34.7 ^(A)	33.2 ^(A)	33.2 ^(A)	240
260				22.4 ⁽⁹⁾			24.5 ⁽¹¹⁾		27.2 ^(C)	29.0 ^(A)	29.0 ^(A)	27.3 ^(A)	260
280							17.2 ⁽⁹⁾		19.7 ⁽¹¹⁾		21.1 ^(C)	22.6 ^(A)	280
300									13.3 ⁽⁹⁾		15.1 ⁽¹¹⁾		300
320										8.7 ⁽⁹⁾		11.2 ⁽¹¹⁾	320

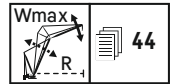
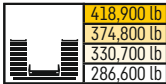
Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



ft	S 118 ft												ft
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
32	551 ^(A)	551 ^(A)											32
34	536 ^(A)	536 ^(A)											34
36	506 ^(A)	506 ^(A)											36
38	479 ^(A)	479 ^(A)	458 ^(A)	458 ⁽¹⁾									38
40	454 ^(A)	454 ^(A)	436 ^(A)	436 ^(A)									40
45	403 ^(A)	403 ^(A)	388 ^(A)	388 ^(A)	373 ^(A)	373 ^(A)							45
50	358 ^(A)	358 ^(A)	349 ^(A)	349 ^(A)	336 ^(A)	336 ^(A)	324 ^(A)	325 ⁽¹⁾					50
60	290 ^(A)	290 ^(A)	286 ^(A)	286 ^(A)	280 ^(A)	280 ^(A)	271 ^(A)	271 ^(A)	262 ^(A)	262 ^(A)	254 ^(A)	254 ^(A)	60
70	243 ^(A)	243 ^(A)	240 ^(A)	240 ^(A)	235 ^(A)	235 ^(A)	231 ^(A)	231 ^(A)	224 ^(A)	224 ^(A)	218 ^(A)	218 ^(A)	70
80		203 ⁽¹¹⁾	206 ^(A)	206 ^(A)	201 ^(A)	201 ^(A)	198 ^(A)	198 ^(A)	194 ^(A)	194 ^(A)	189 ^(A)	189 ^(A)	80
90		170 ⁽¹¹⁾	180 ^(A)	180 ^(A)	176 ^(A)	176 ^(A)	173 ^(A)	173 ^(A)	168 ^(A)	168 ^(A)	165 ^(A)	165 ^(A)	90
100		144 ⁽⁷⁾		152 ⁽¹¹⁾	155 ^(A)	155 ^(A)	152 ^(A)	152 ^(A)	149 ^(A)	149 ^(A)	145 ^(A)	145 ^(A)	100
110		125 ⁽¹⁰⁾		130 ⁽¹¹⁾	138 ^(A)	138 ^(A)	136 ^(A)	136 ^(A)	133 ^(A)	133 ^(A)	130 ^(A)	130 ^(A)	110
120		106 ⁽⁸⁾		112 ⁽¹⁰⁾		118 ⁽¹¹⁾	122 ^(A)	122 ^(A)	119 ^(A)	119 ^(A)	116 ^(A)	116 ^(A)	120
130		91.3 ⁽⁸⁾		98.3 ⁽¹⁰⁾		102 ⁽¹¹⁾	110 ^(A)	110 ^(A)	108 ^(A)	108 ^(A)	105 ^(A)	105 ^(A)	130
140		77.9 ⁽⁶⁾		84.7 ⁽⁸⁾		88.8 ⁽¹¹⁾		93.7 ⁽¹¹⁾	98 ^(A)	98 ^(A)	95.6 ^(A)	95.6 ^(A)	140
150		66.7 ⁽⁶⁾		73.3 ⁽⁸⁾		78.5 ⁽¹¹⁾		81.7 ⁽¹¹⁾	88.8 ^(A)	88.8 ^(A)	87.2 ^(A)	87.2 ^(A)	150
160				62.6 ⁽⁶⁾		68.1 ⁽⁹⁾		72 ⁽¹¹⁾		75.1 ⁽¹¹⁾	79.4 ^(A)	79.4 ^(A)	160
170				53.8 ⁽⁶⁾		58.9 ⁽⁹⁾		63.7 ⁽¹¹⁾		65.7 ⁽¹¹⁾	72.6 ^(A)	72.6 ^(A)	170
180						50.1 ⁽⁷⁾		55 ⁽⁹⁾		57.9 ⁽¹¹⁾		60.8 ^(C)	180
190						42.8 ⁽⁷⁾		47.4 ⁽⁹⁾		51.2 ⁽¹¹⁾		53 ⁽¹¹⁾	190
200								40 ⁽⁷⁾		43.8 ⁽⁹⁾		46.7 ⁽¹¹⁾	200
220										30.9 ⁽⁷⁾		34.6 ⁽⁹⁾	220
240												23.8 ⁽⁷⁾	240

ft	S 118 ft												ft
	W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
70	212 ^(A)	212 ^(A)	206 ^(A)	206 ^(A)									70
80	185 ^(A)	185 ^(A)	181 ^(A)	181 ^(A)	175 ^(A)	175 ^(A)	162 ^(A)	162 ^(A)	143 ^(A)	143 ^(A)			80
90	161 ^(A)	161 ^(A)	158 ^(A)	158 ^(A)	155 ^(A)	155 ^(A)	151 ^(A)	151 ^(A)	138 ^(A)	138 ^(A)	119 ^(A)	119 ^(A)	90
100	142 ^(A)	142 ^(A)	140 ^(A)	140 ^(A)	137 ^(A)	137 ^(A)	133 ^(A)	133 ⁽²⁾	130 ^(A)	130 ^(A)	116 ^(A)	116 ^(A)	100
110	127 ^(A)	127 ^(A)	125 ^(A)	125 ^(A)	122 ^(A)	122 ⁽³⁾	119 ^(A)	119 ^(A)	116 ^(A)	116 ^(A)	111 ^(A)	111 ^(A)	110
120	114 ^(A)	114 ^(A)	112 ^(A)	112 ^(A)	110 ^(A)	110 ^(A)	106 ^(A)	106 ^(A)	104 ^(A)	104 ^(A)	101 ^(A)	101 ^(A)	120
130	103 ^(A)	103 ^(A)	101 ^(A)	101 ^(A)	98.8 ^(A)	98.8 ^(A)	96 ^(A)	96 ^(A)	93.9 ^(A)	93.9 ^(A)	90.8 ^(A)	90.8 ^(A)	130
140	93 ^(A)	93 ^(A)	91.6 ^(A)	91.6 ^(A)	89.4 ^(A)	89.4 ^(A)	86.7 ^(A)	86.7 ^(A)	84.8 ^(A)	84.8 ^(A)	82 ^(A)	82 ^(A)	140
150	84.9 ^(A)	84.9 ^(A)	83.4 ^(A)	83.4 ^(A)	81.3 ^(A)	81.3 ^(A)	78.7 ^(A)	78.7 ^(A)	76.9 ^(A)	76.9 ^(A)	74.6 ^(A)	74.6 ^(A)	150
160	77.8 ^(A)	77.8 ^(A)	76.4 ^(A)	76.4 ^(A)	74.3 ^(A)	74.3 ^(A)	71.9 ^(A)	71.9 ^(A)	69.9 ^(A)	69.9 ^(A)	67.8 ^(A)	67.8 ^(A)	160
170	70.9 ^(A)	70.9 ^(A)	70 ^(A)	70 ^(A)	68.1 ^(A)	68.1 ^(A)	65.7 ^(A)	65.7 ^(A)	64 ^(A)	64 ^(A)	61.7 ^(A)	61.7 ^(A)	170
180	64.9 ^(A)	64.9 ^(A)	64.2 ^(A)	64.2 ^(A)	62.4 ^(A)	62.4 ^(A)	60.3 ^(A)	60.3 ^(A)	58.6 ^(A)	58.6 ^(A)	56.3 ^(A)	56.3 ^(A)	180
190	59.6 ^(A)	59.6 ^(A)	58.7 ^(A)	58.7 ^(A)	57.2 ^(A)	57.2 ^(A)	55.6 ^(A)	55.6 ^(A)	53.8 ^(A)	53.8 ^(A)	51.7 ^(A)	51.7 ^(A)	190
200		49.5 ^(C)	53.9 ^(A)	53.9 ^(A)	52.3 ^(A)	52.3 ^(A)	50.9 ^(A)	50.9 ^(A)	49.3 ^(A)	49.3 ^(A)	47.5 ^(A)	47.5 ^(A)	200
220		37.3 ⁽¹¹⁾		40.7 ^(C)	44.1 ^(A)	44.1 ^(A)	42.6 ^(A)	42.6 ^(A)	41 ^(A)	41 ^(A)	39.4 ^(A)	39.4 ^(A)	220
240		27 ⁽⁹⁾		30.1 ⁽¹¹⁾		32.5 ^(C)	35.9 ^(A)	35.9 ^(A)	34.2 ^(A)	34.2 ^(A)	32.6 ^(A)	32.6 ^(A)	240
260		18 ⁽⁷⁾		21.3 ⁽⁹⁾		23.4 ⁽¹¹⁾		25.7 ^(C)	28.5 ^(A)	28.5 ^(A)	26.9 ^(A)	26.9 ^(A)	260
280				13.6 ⁽⁷⁾		16.3 ⁽⁹⁾		18.3 ⁽¹¹⁾		20 ^(C)	22.2 ^(A)	22.2 ^(A)	280
300						9 ⁽⁷⁾		11.9 ⁽⁹⁾		13.8 ⁽¹¹⁾		15.6 ^(C)	300
320												9.7 ⁽¹¹⁾	320

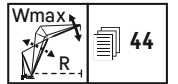
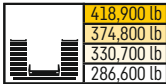
Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



ft	S 138 ft												ft
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
34	510 ^(A)	510 ^(A)											34
36	483 ^(A)	483 ^(A)											36
38	457 ^(A)	457 ^(A)	439 ^(A)	439 ^(A)									38
40	435 ^(A)	435 ^(A)	418 ^(A)	418 ^(A)									40
45	387 ^(A)	387 ^(A)	373 ^(A)	373 ^(A)	358 ^(A)	358 ^(A)							45
50	349 ^(A)	349 ^(A)	336 ^(A)	336 ^(A)	323 ^(A)	323 ^(A)	313 ^(A)	313 ^(A)					50
60	287 ^(A)	287 ^(A)	280 ^(A)	280 ^(A)	270 ^(A)	271 ^(B)	263 ^(A)	263 ^(A)	255 ^(A)	255 ^(A)	246 ^(A)	246 ^(A)	60
70	241 ^(A)	241 ^(A)	237 ^(A)	237 ^(A)	231 ^(A)	231 ^(A)	225 ^(A)	225 ^(A)	218 ^(A)	218 ^(A)	212 ^(A)	212 ^(A)	70
80		201 ⁽¹¹⁾	203 ^(A)	203 ^(A)	199 ^(A)	199 ^(A)	195 ^(A)	195 ^(A)	191 ^(A)	191 ^(A)	185 ^(A)	185 ^(A)	80
90		167 ^(C)	178 ^(A)	178 ^(A)	173 ^(A)	173 ^(A)	171 ^(A)	171 ^(A)	167 ^(A)	167 ^(A)	163 ^(A)	163 ^(A)	90
100		141 ⁽¹¹⁾		152 ⁽¹¹⁾	154 ^(A)	154 ^(A)	151 ^(A)	151 ^(A)	147 ^(A)	147 ^(A)	144 ^(A)	144 ^(A)	100
110		123 ⁽⁹⁾		129 ^(C)	137 ^(A)	137 ^(A)	135 ^(A)	135 ^(A)	131 ^(A)	131 ^(A)	128 ^(A)	128 ^(A)	110
120		105 ⁽¹⁰⁾		110 ⁽¹¹⁾		117 ⁽¹¹⁾	121 ^(A)	121 ^(A)	118 ^(A)	118 ^(A)	115 ^(A)	115 ^(A)	120
130		90.0 ⁽⁸⁾		96.3 ⁽¹⁰⁾		101 ^(C)	110 ^(A)	110 ^(A)	107 ^(A)	107 ⁽⁹⁾	104 ^(A)	104 ^(A)	130
140		77.3 ⁽⁸⁾		83.8 ⁽¹⁰⁾		86.4 ⁽¹¹⁾		93.3 ⁽¹¹⁾	97.3 ^(A)	97.3 ^(A)	94.8 ^(A)	94.8 ^(A)	140
150		65.4 ⁽⁶⁾		72.1 ⁽⁸⁾		76.5 ⁽¹¹⁾		82.2 ^(C)	88.3 ^(A)	88.3 ^(A)	86.7 ^(A)	86.7 ^(A)	150
160		56.2 ⁽⁶⁾		62.1 ⁽⁸⁾		66.8 ⁽¹¹⁾		69.9 ^(D)		74.6 ⁽¹¹⁾	79.1 ^(A)	79.1 ^(A)	160
170				52.5 ⁽⁶⁾		57.3 ⁽⁹⁾		61.9 ⁽¹¹⁾		64.8 ⁽¹¹⁾	72.1 ^(A)	72.1 ^(A)	170
180				44.9 ⁽⁶⁾		49.1 ⁽⁹⁾		54.0 ⁽¹¹⁾		56.3 ^(D)		60.2 ⁽¹¹⁾	180
190						41.2 ⁽⁷⁾		46.0 ⁽⁹⁾		49.5 ⁽¹¹⁾		52.2 ⁽¹¹⁾	190
200						34.8 ⁽⁷⁾		39.2 ⁽⁹⁾		43.0 ⁽¹¹⁾		45.4 ^(D)	200
220								26.9 ⁽⁷⁾		30.3 ⁽⁹⁾		34.0 ⁽¹¹⁾	220
240										20.3 ⁽⁷⁾		23.2 ⁽⁹⁾	240
260												14.9 ⁽⁷⁾	260

ft	S 138 ft												ft
	W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
70	206 ^(A)	206 ^(A)	195 ^(A)	195 ^(A)									70
80	180 ^(A)	180 ^(A)	176 ^(A)	176 ^(A)	166 ^(A)	166 ^(A)	149 ^(A)	149 ^(A)					80
90	159 ^(A)	159 ^(A)	156 ^(A)	156 ^(A)	151 ^(A)	151 ^(A)	142 ^(A)	142 ^(A)	127 ^(A)	127 ^(A)	111 ^(A)	111 ^(A)	90
100	141 ^(A)	141 ^(A)	138 ^(A)	138 ^(A)	134 ^(A)	134 ^(A)	130 ^(A)	130 ^(A)	121 ^(B)	121 ^(B)	107 ^(A)	107 ^(A)	100
110	125 ^(A)	125 ^(A)	123 ^(A)	123 ^(A)	119 ^(A)	120 ⁽³⁾	116 ^(A)	116 ^(A)	113 ^(A)	113 ^(A)	103 ^(B)	103 ^(B)	110
120	113 ^(A)	113 ⁽⁵⁾	111 ^(A)	111 ^(A)	107 ^(A)	107 ^(A)	104 ^(A)	104 ^(A)	102 ^(A)	102 ^(A)	97.8 ^(A)	97.8 ^(A)	120
130	102 ^(A)	102 ^(A)	100 ^(A)	100 ^(A)	96.9 ^(A)	96.9 ^(A)	94.0 ^(A)	94.0 ^(A)	91.6 ^(A)	91.6 ^(A)	88.7 ^(A)	88.7 ^(A)	130
140	92.3 ^(A)	92.3 ^(A)	90.7 ^(A)	90.7 ^(A)	87.8 ^(A)	87.8 ^(A)	85.0 ^(A)	85.0 ^(A)	83.1 ^(A)	83.1 ^(A)	80.3 ^(A)	80.3 ^(A)	140
150	84.2 ^(A)	84.2 ^(A)	82.8 ^(A)	82.8 ^(A)	79.8 ^(A)	79.8 ^(A)	77.2 ^(A)	77.2 ^(A)	75.5 ^(A)	75.5 ^(A)	72.8 ^(A)	72.8 ^(A)	150
160	77.1 ^(A)	77.1 ^(A)	75.8 ^(A)	75.8 ^(A)	72.8 ^(A)	72.8 ^(A)	70.5 ^(A)	70.5 ^(A)	68.6 ^(A)	68.6 ^(A)	66.2 ^(A)	66.2 ^(A)	160
170	70.7 ^(A)	70.7 ^(A)	69.6 ^(A)	69.6 ^(A)	66.8 ^(A)	66.8 ^(A)	64.5 ^(A)	64.5 ^(A)	62.6 ^(A)	62.6 ^(A)	60.3 ^(A)	60.3 ^(A)	170
180	64.7 ^(A)	64.7 ^(A)	64.0 ^(A)	64.0 ^(A)	61.3 ^(A)	61.3 ^(A)	59.2 ^(A)	59.2 ^(A)	57.4 ^(A)	57.4 ^(A)	55.1 ^(A)	55.1 ^(A)	180
190	59.3 ^(A)	59.3 ^(A)	58.6 ^(A)	58.6 ^(A)	56.3 ^(A)	56.3 ^(A)	54.5 ^(A)	54.5 ^(A)	52.6 ^(A)	52.6 ^(A)	50.4 ^(A)	50.4 ^(A)	190
200		48.5 ⁽¹¹⁾	53.8 ^(A)	53.8 ^(A)	51.7 ^(A)	51.7 ^(A)	50.0 ^(A)	50.0 ^(A)	48.3 ^(A)	48.3 ^(A)	46.3 ^(A)	46.3 ^(A)	200
220		36.3 ^(D)		39.4 ⁽¹¹⁾	43.3 ^(A)	43.3 ^(A)	42.0 ^(A)	42.0 ^(A)	40.4 ^(A)	40.4 ^(A)	38.7 ^(A)	38.7 ^(A)	220
240		26.4 ⁽¹¹⁾		29.2 ^(D)		30.8 ^(C)	35.3 ^(A)	35.3 ^(A)	33.6 ^(A)	33.6 ^(A)	31.8 ^(A)	31.8 ^(A)	240
260		17.7 ⁽⁹⁾		21.1 ⁽¹¹⁾		22.1 ^(D)		24.0 ^(C)	27.9 ^(A)	27.9 ^(A)	26.1 ^(A)	26.1 ^(A)	260
280		9.9 ⁽⁷⁾		13.6 ⁽⁹⁾		15.9 ⁽¹¹⁾		17.6 ^(D)		18.8 ^(C)	21.7 ^(A)	21.7 ^(A)	280
300						8.7 ⁽⁹⁾		11.9 ⁽¹¹⁾		12.4 ⁽¹¹⁾		14.4 ^(C)	300
320										7.8 ⁽¹¹⁾			320

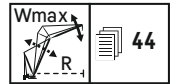
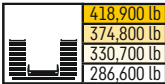
Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



ft	S 158 ft												ft
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
36	459 ^(A)	459 ^(A)											36
38	437 ^(A)	437 ^(A)											38
40	415 ^(A)	415 ⁽²⁾	401 ^(A)	401 ^(A)									40
45	371 ^(A)	371 ⁽³⁾	358 ^(A)	358 ^(A)									45
50	335 ^(A)	335 ^(A)	324 ^(A)	324 ^(A)	313 ^(A)	313 ^(A)							50
60	280 ^(A)	280 ^(A)	271 ^(A)	271 ^(A)	262 ^(A)	262 ^(A)	254 ^(A)	255 ⁽²⁾	246 ^(A)	246 ^(A)			60
70	237 ^(A)	237 ^(A)	233 ^(A)	233 ^(A)	225 ^(A)	225 ^(A)	219 ^(A)	219 ^(A)	213 ^(A)	213 ^(A)	206 ^(A)	206 ^(A)	70
80	200 ^(B)	200 ^(B)	201 ^(A)	201 ^(A)	196 ^(A)	196 ^(A)	192 ^(A)	192 ^(A)	186 ^(A)	186 ^(A)	181 ^(A)	181 ^(A)	80
90		166 ⁽¹¹⁾	176 ^(A)	176 ^(A)	171 ^(A)	171 ^(A)	169 ^(A)	169 ^(A)	164 ^(A)	164 ^(A)	160 ^(A)	160 ^(A)	90
100		140 ⁽¹¹⁾	151 ^(B)	151 ^(B)	152 ^(A)	152 ^(A)	149 ^(A)	149 ^(A)	146 ^(A)	146 ^(A)	142 ^(A)	142 ^(A)	100
110		119 ⁽⁷⁾		128 ⁽¹¹⁾	136 ^(A)	136 ^(A)	133 ^(A)	133 ^(A)	130 ^(A)	130 ^(A)	127 ^(A)	127 ^(A)	110
120		103 ⁽¹⁰⁾		109 ⁽¹¹⁾		116 ⁽¹¹⁾	120 ^(A)	120 ^(A)	117 ^(A)	117 ^(A)	114 ^(A)	114 ^(A)	120
130		88.5 ⁽¹⁰⁾		93.7 ⁽¹⁰⁾		99.0 ⁽¹¹⁾	109 ^(A)	109 ^(A)	106 ^(A)	106 ^(A)	104 ^(A)	104 ⁽⁷⁾	130
140		75.8 ⁽⁸⁾		82.2 ⁽¹⁰⁾		85.7 ⁽¹¹⁾		92.9 ⁽¹¹⁾	96.6 ^(A)	96.6 ^(A)	94.1 ^(A)	94.1 ^(A)	140
150		64.8 ⁽⁸⁾		70.8 ⁽¹⁰⁾		74.1 ⁽¹⁰⁾		80.1 ^(C)	87.9 ^(A)	87.9 ^(A)	86.0 ^(A)	86.0 ^(A)	150
160		54.1 ⁽⁶⁾		60.5 ⁽⁸⁾		65.0 ⁽¹⁰⁾		69.1 ⁽¹¹⁾		74.3 ⁽¹¹⁾	78.7 ^(A)	78.7 ^(A)	160
170		46.2 ⁽⁶⁾		51.7 ⁽⁸⁾		55.9 ⁽¹⁰⁾		60.1 ⁽¹¹⁾		64.7 ^(C)	71.8 ^(A)	71.8 ^(A)	170
180				42.9 ⁽⁶⁾		47.7 ⁽⁹⁾		52.6 ⁽¹¹⁾		55.3 ⁽¹¹⁾		59.9 ⁽¹¹⁾	180
190				36.3 ⁽⁶⁾		40.4 ⁽⁹⁾		45.2 ⁽¹¹⁾		48.0 ⁽¹¹⁾		52.5 ^(C)	190
200						33.0 ⁽⁷⁾		38.0 ⁽⁹⁾		41.7 ⁽¹¹⁾		44.2 ⁽¹¹⁾	200
220								25.6 ⁽⁷⁾		29.3 ⁽⁹⁾		32.8 ⁽¹¹⁾	220
240										18.8 ⁽⁷⁾		22.4 ⁽⁹⁾	240
260												13.6 ⁽⁷⁾	260

ft	S 158 ft												ft
	W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
70	200 ^(A)	200 ^(A)											70
80	174 ^(A)	174 ^(A)	171 ^(A)	171 ^(A)	158 ^(A)	158 ^(A)							80
90	155 ^(A)	155 ^(A)	151 ^(A)	151 ^(A)	146 ^(A)	146 ^(A)	135 ^(A)	135 ^(A)	120 ^(A)	120 ^(A)			90
100	138 ^(A)	138 ^(A)	135 ^(A)	135 ^(A)	131 ^(A)	131 ^(A)	127 ^(A)	127 ^(A)	115 ^(A)	115 ^(A)	102 ^(A)	102 ^(A)	100
110	123 ^(A)	123 ^(A)	121 ^(A)	121 ^(A)	117 ^(A)	117 ^(A)	114 ^(A)	114 ^(A)	109 ^(A)	109 ^(A)	98.5 ^(B)	98.5 ^(B)	110
120	111 ^(A)	111 ^(A)	109 ^(A)	109 ^(A)	105 ^(A)	105 ^(A)	102 ^(A)	102 ^(A)	99.9 ^(A)	99.9 ^(A)	94.4 ^(A)	94.4 ^(A)	120
130	99.9 ^(A)	99.9 ^(A)	98.2 ^(A)	98.2 ^(A)	94.8 ^(A)	94.8 ^(A)	91.8 ^(A)	91.8 ^(A)	89.9 ^(A)	89.9 ^(A)	86.6 ^(A)	86.6 ^(A)	130
140	90.9 ^(A)	90.9 ^(A)	89.2 ^(A)	89.2 ^(A)	86.0 ^(A)	86.0 ^(A)	83.3 ^(A)	83.3 ^(A)	81.1 ^(A)	81.1 ^(A)	78.4 ^(A)	78.4 ^(A)	140
150	83.0 ^(A)	83.0 ^(A)	81.4 ^(A)	81.4 ^(A)	78.3 ^(A)	78.3 ^(A)	75.8 ^(A)	75.8 ^(A)	73.9 ^(A)	73.9 ^(A)	71.3 ^(A)	71.3 ^(A)	150
160	75.9 ^(A)	75.9 ^(A)	74.6 ^(A)	74.6 ^(A)	71.5 ^(A)	71.5 ^(A)	69.1 ^(A)	69.1 ^(A)	67.3 ^(A)	67.3 ^(A)	65.0 ^(A)	65.0 ^(A)	160
170	69.8 ^(A)	69.8 ^(A)	68.5 ^(A)	68.5 ^(A)	65.5 ^(A)	65.5 ^(A)	63.2 ^(A)	63.2 ^(A)	61.3 ^(A)	61.3 ^(A)	59.1 ^(A)	59.1 ^(A)	170
180	63.9 ^(A)	63.9 ^(A)	63.1 ^(A)	63.1 ^(A)	60.1 ^(A)	60.1 ^(A)	58.0 ^(A)	58.0 ^(A)	56.2 ^(A)	56.2 ^(A)	54.0 ^(A)	54.0 ^(A)	180
190	58.5 ^(A)	58.5 ^(A)	57.9 ^(A)	57.9 ^(A)	55.5 ^(A)	55.5 ^(A)	53.5 ^(A)	53.5 ^(A)	51.5 ^(A)	51.5 ^(A)	49.3 ^(A)	49.3 ^(A)	190
200		47.6 ⁽¹¹⁾	53.0 ^(A)	53.0 ^(A)	50.9 ^(A)	50.9 ^(A)	49.1 ^(A)	49.1 ^(A)	47.4 ^(A)	47.4 ^(A)	45.2 ^(A)	45.2 ^(A)	200
220		34.4 ⁽¹¹⁾		38.6 ⁽¹¹⁾	42.6 ^(A)	42.6 ^(A)	41.3 ^(A)	41.3 ^(A)	39.6 ^(A)	39.6 ^(A)	37.8 ^(A)	37.8 ^(A)	220
240		25.2 ⁽¹¹⁾		27.3 ⁽¹¹⁾		29.7 ⁽¹¹⁾	34.4 ^(A)	34.4 ^(A)	32.8 ^(A)	32.8 ^(A)	31.2 ^(A)	31.2 ^(A)	240
260		16.4 ⁽⁹⁾		20.0 ⁽¹¹⁾		20.4 ⁽¹¹⁾		22.8 ⁽¹¹⁾	27.3 ^(A)	27.3 ^(A)	25.5 ^(A)	25.5 ^(A)	260
280				12.3 ⁽⁹⁾		14.6 ⁽¹¹⁾		15.6 ⁽¹¹⁾		17.5 ⁽¹¹⁾	21.2 ^(A)	21.2 ^(A)	280
300								10.6 ⁽¹¹⁾		11.4 ^(D)		13.2 ^(C)	300
320												7.7 ^(D)	320

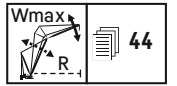
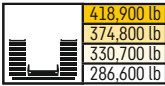
Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



ft	S 177 ft												ft
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
36	431 ^(A)	431 ^(A)											36
38	418 ^(A)	418 ^(A)											38
40	398 ^(A)	398 ^(A)	370 ^(A)	370 ^(A)									40
45	357 ^(A)	357 ^(A)	345 ^(A)	345 ^(A)									45
50	323 ^(A)	323 ^(A)	313 ^(A)	313 ^(A)	301 ^(A)	301 ^(A)							50
60	271 ^(A)	271 ^(A)	262 ^(A)	262 ^(A)	254 ^(A)	254 ^(A)	247 ^(A)	247 ^(A)	236 ^(A)	236 ^(A)			60
70	234 ^(A)	234 ⁽¹⁰⁾	226 ^(A)	226 ^(A)	218 ^(A)	218 ^(A)	213 ^(A)	213 ^(A)	205 ^(A)	205 ^(A)	199 ^(A)	199 ^(A)	70
80	197 ^(B)	197 ^(B)	198 ^(A)	198 ^(A)	191 ^(A)	191 ^(A)	186 ^(A)	186 ^(A)	180 ^(A)	180 ^(A)	175 ^(A)	175 ^(A)	80
90		166 ⁽¹¹⁾	173 ^(A)	173 ⁽¹¹⁾	169 ^(A)	169 ^(A)	165 ^(A)	165 ^(A)	160 ^(A)	160 ^(A)	155 ^(A)	155 ^(A)	90
100		139 ⁽¹¹⁾	149 ^(B)	149 ^(B)	150 ^(A)	150 ^(A)	147 ^(A)	147 ^(A)	143 ^(A)	143 ^(A)	139 ^(A)	139 ^(A)	100
110		116 ⁽¹¹⁾		127 ⁽¹¹⁾	134 ^(A)	134 ^(A)	132 ^(A)	132 ^(A)	127 ^(A)	127 ^(A)	125 ^(A)	125 ^(A)	110
120		101 ^(B)		108 ⁽¹¹⁾	117 ^(B)	117 ^(B)	119 ^(A)	119 ^(A)	115 ^(A)	115 ^(A)	112 ^(A)	112 ^(A)	120
130		87.4 ⁽¹⁰⁾		91.4 ⁽¹¹⁾		98.6 ⁽¹¹⁾	108 ^(A)	108 ^(A)	104 ^(A)	104 ^(A)	101 ^(A)	101 ^(A)	130
140		73.9 ⁽¹⁰⁾		79.8 ⁽¹⁰⁾		84.6 ⁽¹¹⁾	94.3 ^(B)	94.3 ^(B)	94.8 ^(A)	94.8 ^(A)	92.2 ^(A)	92.2 ^(A)	140
150		63.2 ^(B)		69.3 ⁽¹⁰⁾		72.0 ⁽¹¹⁾		79.2 ⁽¹¹⁾	86.8 ^(A)	86.8 ^(A)	84.6 ^(A)	84.6 ^(A)	150
160		53.5 ^(B)		58.7 ⁽¹⁰⁾		63.0 ⁽¹⁰⁾		68.3 ⁽¹¹⁾	75.8 ^(B)	75.8 ^(B)	77.5 ^(A)	77.5 ^(A)	160
170		43.8 ^(A)		49.9 ^(B)		54.5 ⁽¹⁰⁾		58.1 ⁽¹¹⁾		62.7 ⁽¹¹⁾	71.0 ^(A)	71.0 ^(A)	170
180		36.9 ^(A)		42.0 ^(B)		46.0 ⁽¹⁰⁾		51.0 ⁽¹¹⁾		54.0 ⁽¹¹⁾	62.0 ^(B)	62.0 ^(B)	180
190		30.1 ^(A)		34.0 ^(A)		38.4 ^(B)		43.9 ⁽¹¹⁾		45.9 ^(B)		50.3 ^(C)	190
200				28.3 ^(A)		31.9 ^(B)		36.8 ⁽¹¹⁾		39.7 ⁽¹¹⁾		43.0 ⁽¹¹⁾	200
220						20.9 ^(A)			25.0 ^(B)		27.8 ⁽¹¹⁾		220
240								15.4 ⁽⁷⁾		18.3 ^(B)		21.1 ⁽¹¹⁾	240
260										8.8 ^(B)		13.1 ^(B)	260

ft	S 177 ft												ft
	W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
70	185 ^(A)	185 ^(A)											70
80	170 ^(A)	170 ^(A)	160 ^(A)	160 ^(A)	144 ^(A)	144 ^(A)							80
90	151 ^(A)	151 ^(A)	146 ^(A)	146 ^(A)	137 ^(A)	137 ^(A)	123 ^(A)	123 ^(A)	110 ^(A)	110 ^(A)			90
100	135 ^(A)	135 ^(A)	131 ^(A)	131 ^(A)	127 ^(A)	127 ^(A)	117 ^(A)	117 ^(A)	105 ^(A)	105 ^(A)	92.9 ^(A)	92.9 ^(A)	100
110	121 ^(A)	121 ^(A)	118 ^(A)	118 ^(A)	114 ^(A)	114 ^(A)	110 ^(A)	110 ^(A)	101 ^(B)	101 ^(B)	89.9 ^(B)	89.9 ^(B)	110
120	109 ^(A)	109 ^(A)	106 ^(A)	106 ^(A)	103 ^(A)	103 ^(A)	99.7 ^(A)	99.7 ^(A)	96.0 ^(A)	96.0 ^(A)	87.1 ^(B)	87.1 ^(B)	120
130	98.8 ^(A)	98.8 ^(A)	96.2 ^(A)	96.2 ^(A)	92.6 ^(A)	92.6 ^(A)	89.7 ^(A)	89.7 ^(A)	87.5 ^(A)	87.5 ^(A)	83.4 ^(A)	83.4 ^(A)	130
140	89.7 ^(A)	89.7 ^(A)	87.4 ^(A)	87.4 ^(A)	84.1 ^(A)	84.1 ^(A)	81.2 ^(A)	81.2 ^(A)	79.1 ^(A)	79.1 ^(A)	76.6 ^(A)	76.6 ^(A)	140
150	82.2 ^(A)	82.2 ^(A)	79.9 ^(A)	79.9 ^(A)	76.7 ^(A)	76.7 ^(A)	74.0 ^(A)	74.0 ^(A)	71.9 ^(A)	71.9 ^(A)	69.3 ^(A)	69.3 ^(A)	150
160	75.4 ^(A)	75.4 ^(A)	73.1 ^(A)	73.1 ^(A)	70.1 ^(A)	70.1 ^(A)	67.7 ^(A)	67.7 ^(A)	65.8 ^(A)	65.8 ^(A)	63.2 ^(A)	63.2 ^(A)	160
170	69.3 ^(A)	69.3 ^(A)	67.2 ^(A)	67.2 ^(A)	64.1 ^(A)	64.1 ^(A)	61.8 ^(A)	61.8 ^(A)	59.9 ^(A)	59.9 ^(A)	57.7 ^(A)	57.7 ^(A)	170
180	63.7 ^(A)	63.7 ^(A)	61.8 ^(A)	61.8 ^(A)	58.9 ^(A)	58.9 ^(A)	56.7 ^(A)	56.7 ^(A)	54.9 ^(A)	54.9 ^(A)	52.5 ^(A)	52.5 ^(A)	180
190	58.1 ^(A)	58.1 ^(A)	57.0 ^(A)	57.0 ^(A)	54.3 ^(A)	54.3 ^(A)	52.1 ^(A)	52.1 ^(A)	50.2 ^(A)	50.2 ^(A)	48.0 ^(A)	48.0 ^(A)	190
200	50.9 ^(B)	50.9 ^(B)	52.1 ^(A)	52.1 ^(A)	49.9 ^(A)	49.9 ^(A)	48.0 ^(A)	48.0 ^(A)	46.1 ^(A)	46.1 ^(A)	44.0 ^(A)	44.0 ^(A)	200
220		33.8 ⁽¹¹⁾	41.8 ^(B)	41.8 ^(B)	41.9 ^(A)	41.9 ^(A)	40.4 ^(A)	40.4 ^(A)	38.7 ^(A)	38.7 ^(A)	36.8 ^(A)	36.8 ^(A)	220
240		24.1 ⁽¹¹⁾		26.2 ⁽¹¹⁾		28.8 ⁽¹¹⁾	33.6 ^(A)	33.6 ^(A)	32.1 ^(A)	32.1 ^(A)	30.4 ^(A)	30.4 ^(A)	240
260		16.1 ⁽¹¹⁾		18.3 ⁽¹¹⁾		19.6 ⁽¹¹⁾		22.3 ⁽¹¹⁾	26.6 ^(A)	26.6 ^(A)	24.7 ^(A)	24.7 ^(A)	260
280		8.3 ^(B)		12.0 ⁽¹¹⁾		13.1 ⁽¹¹⁾		14.8 ⁽¹¹⁾		16.9 ⁽¹¹⁾	20.7 ^(A)	20.7 ^(A)	280
300										10.4 ⁽¹¹⁾		12.3 ⁽¹¹⁾	300
320												6.5 ⁽¹¹⁾	320

Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



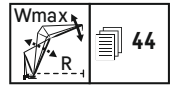
ft	S 197 ft												ft	
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft			
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax		
36	417 ^(A)	417 ^(A)											36	
38	400 ^(A)	400 ^(A)											38	
40	382 ^(A)	382 ^(A)											40	
45	343 ^(A)	343 ^(A)	331 ^(A)	331 ^(A)									45	
50	311 ^(A)	311 ^(A)	301 ^(A)	301 ^(A)	290 ^(A)	290 ^(A)							50	
60	262 ^(A)	262 ^(A)	254 ^(A)	254 ^(A)	245 ^(A)	245 ^(A)	238 ^(A)	238 ^(A)	225 ^(A)	225 ^(A)			60	
70	226 ^(A)	226 ^(A)	219 ^(A)	219 ^(A)	212 ^(A)	212 ^(A)	206 ^(A)	206 ^(A)	199 ^(A)	199 ^(A)	192 ^(A)	192 ^(A)	70	
80	191 ^(B)	192 ⁽¹¹⁾	193 ^(A)	193 ^(A)	186 ^(A)	186 ^(A)	180 ^(A)	180 ^(A)	175 ^(A)	175 ⁽⁵⁾	169 ^(A)	169 ^(A)	80	
90		164 ⁽¹¹⁾	171 ^(A)	171 ^(A)	165 ^(A)	165 ^(A)	160 ^(A)	160 ^(A)	155 ^(A)	155 ^(A)	150 ^(A)	150 ^(A)	90	
100		137 ^(C)	147 ^(B)	147 ^(B)	148 ^(A)	148 ^(A)	144 ^(A)	144 ^(A)	140 ^(A)	140 ^(A)	134 ^(A)	134 ^(A)	100	
110		116 ⁽¹¹⁾		126 ⁽¹¹⁾	132 ^(A)	132 ^(A)	129 ^(A)	129 ^(A)	126 ^(A)	126 ^(A)	121 ^(A)	121 ^(A)	110	
120		97.4 ⁽⁹⁾		106 ^(C)	115 ^(B)	115 ^(B)	117 ^(A)	117 ^(A)	113 ^(A)	113 ^(A)	110 ^(A)	110 ^(A)	120	
130		85.0 ⁽¹⁰⁾		90.7 ⁽¹¹⁾			98.1 ⁽¹¹⁾	106 ^(A)	106 ^(A)	103 ^(A)	103 ^(A)	99.1 ^(A)	99.1 ^(A)	130
140		72.8 ⁽¹⁰⁾		77.2 ⁽¹⁰⁾			84.2 ^(C)	92.6 ^(B)	92.6 ^(B)	93.7 ^(A)	93.7 ^(A)	90.4 ^(A)	90.4 ^(A)	140
150		60.5 ⁽¹⁰⁾		67.4 ⁽¹⁰⁾			71.4 ⁽¹¹⁾		78.3 ⁽¹¹⁾	86.0 ^(A)	86.0 ^(A)	82.7 ^(A)	82.7 ^(A)	150
160		51.5 ^(B)		57.6 ⁽¹⁰⁾			60.8 ⁽¹⁰⁾		68.0 ^(C)	74.9 ^(B)	74.9 ^(B)	75.9 ^(A)	75.9 ^(A)	160
170		43.0 ^(B)		47.8 ⁽¹⁰⁾			52.8 ⁽¹⁰⁾		56.9 ⁽¹¹⁾		62.4 ⁽¹¹⁾	69.8 ^(A)	69.8 ^(A)	170
180		34.5 ^(B)		40.3 ^(B)			44.8 ⁽¹⁰⁾		48.7 ⁽¹¹⁾		53.2 ⁽¹¹⁾	60.6 ^(B)	60.6 ^(B)	180
190		28.5 ^(A)		33.2 ^(B)			37.0 ^(E)		42.0 ⁽¹¹⁾		45.0 ⁽¹¹⁾		49.2 ⁽¹¹⁾	190
200		22.9 ^(A)		26.2 ^(B)			30.6 ^(B)		35.3 ⁽¹¹⁾		38.2 ⁽¹¹⁾		41.7 ⁽¹¹⁾	200
220				16.8 ^(A)			19.2 ^(F)		23.6 ⁽⁹⁾		26.9 ⁽¹¹⁾		29.3 ⁽¹¹⁾	220
240							10.7 ^(A)				16.9 ⁽⁹⁾		20.3 ⁽¹¹⁾	240
260													6.4 ^(A)	260

ft	S 197 ft												ft	
	W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft			
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax		
70	175 ^(A)	175 ^(A)											70	
80	164 ^(A)	164 ^(A)	150 ^(A)	150 ^(A)	135 ^(A)	135 ^(A)							80	
90	146 ^(A)	146 ^(A)	142 ^(A)	142 ^(A)	128 ^(A)	128 ^(A)	115 ^(A)	115 ^(A)	103 ^(A)	103 ^(A)			90	
100	131 ^(A)	131 ^(A)	127 ^(A)	127 ^(A)	121 ^(A)	121 ^(A)	110 ^(B)	110 ^(B)	98.4 ^(A)	98.4 ^(A)	87.1 ^(A)	87.1 ^(A)	100	
110	118 ^(A)	118 ^(A)	114 ^(A)	114 ^(A)	110 ^(A)	110 ^(A)	105 ^(A)	105 ^(A)	94.6 ^(B)	94.6 ^(B)	83.9 ^(A)	83.9 ^(A)	110	
120	107 ^(A)	107 ^(A)	104 ^(A)	104 ^(A)	99.7 ^(A)	99.7 ^(A)	96.4 ^(A)	96.4 ^(A)	91.0 ^(A)	91.0 ^(A)	81.3 ^(B)	81.3 ^(B)	120	
130	96.6 ^(A)	96.6 ^(A)	94.0 ^(A)	94.0 ^(A)	90.5 ^(A)	90.5 ^(A)	87.4 ^(A)	87.4 ^(A)	85.2 ^(A)	85.2 ^(A)	78.3 ^(A)	78.3 ^(A)	130	
140	87.8 ^(A)	87.8 ^(A)	85.4 ^(A)	85.4 ^(A)	82.1 ^(A)	82.1 ^(A)	79.2 ^(A)	79.2 ^(A)	77.2 ^(A)	77.2 ^(A)	73.9 ^(A)	73.9 ^(A)	140	
150	80.4 ^(A)	80.4 ^(A)	77.9 ^(A)	77.9 ^(A)	74.7 ^(A)	74.7 ^(A)	72.0 ^(A)	72.0 ^(A)	70.1 ^(A)	70.1 ^(A)	67.5 ^(A)	67.5 ^(A)	150	
160	73.9 ^(A)	73.9 ^(A)	71.3 ^(A)	71.3 ⁽⁷⁾	68.5 ^(A)	68.5 ^(A)	65.9 ^(A)	65.9 ^(A)	64.0 ^(A)	64.0 ^(A)	61.4 ^(A)	61.4 ^(A)	160	
170	68.0 ^(A)	68.0 ^(A)	65.8 ^(A)	65.8 ^(A)	62.7 ^(A)	62.7 ^(A)	60.4 ^(A)	60.4 ^(A)	58.5 ^(A)	58.5 ^(A)	56.0 ^(A)	56.0 ^(A)	170	
180	62.4 ^(A)	62.4 ^(A)	60.5 ^(A)	60.5 ^(A)	57.6 ^(A)	57.6 ^(A)	55.2 ^(A)	55.2 ^(A)	53.5 ^(A)	53.5 ^(A)	51.2 ^(A)	51.2 ^(A)	180	
190	57.1 ^(A)	57.1 ^(A)	55.7 ^(A)	55.7 ^(A)	53.0 ^(A)	53.0 ^(A)	50.8 ^(A)	50.8 ^(A)	48.9 ^(A)	48.9 ^(A)	46.7 ^(A)	46.7 ^(A)	190	
200	49.5 ^(B)	49.5 ^(B)	51.1 ^(A)	51.1 ^(A)	48.8 ^(A)	48.8 ^(A)	46.7 ^(A)	46.7 ^(A)	44.8 ^(A)	44.8 ^(A)	42.7 ^(A)	42.7 ^(A)	200	
220		32.7 ⁽¹¹⁾	40.4 ^(B)	40.4 ^(B)	41.0 ^(A)	41.0 ^(A)	39.3 ^(A)	39.3 ^(A)	37.7 ^(A)	37.7 ^(A)	35.7 ^(A)	35.7 ^(A)	220	
240		22.3 ⁽¹¹⁾		25.4 ⁽¹¹⁾	31.6 ^(B)	31.6 ^(B)	32.7 ^(A)	32.7 ^(A)	31.4 ^(A)	31.4 ^(A)	29.5 ^(A)	29.5 ^(A)	240	
260		15.0 ⁽¹¹⁾		16.8 ⁽¹¹⁾			18.6 ⁽¹¹⁾	24.9 ^(B)	24.9 ^(B)	25.8 ^(A)	25.8 ^(A)	24.0 ^(A)	24.0 ^(A)	260
280				10.2 ⁽¹¹⁾					13.9 ⁽¹¹⁾	19.5 ^(B)	19.5 ^(B)	20.1 ^(A)	20.1 ^(A)	280
300										9.6 ⁽¹¹⁾	15.1 ^(B)	15.1 ^(B)	300	

Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



418,900 lb
374,800 lb
330,700 lb
286,600 lb

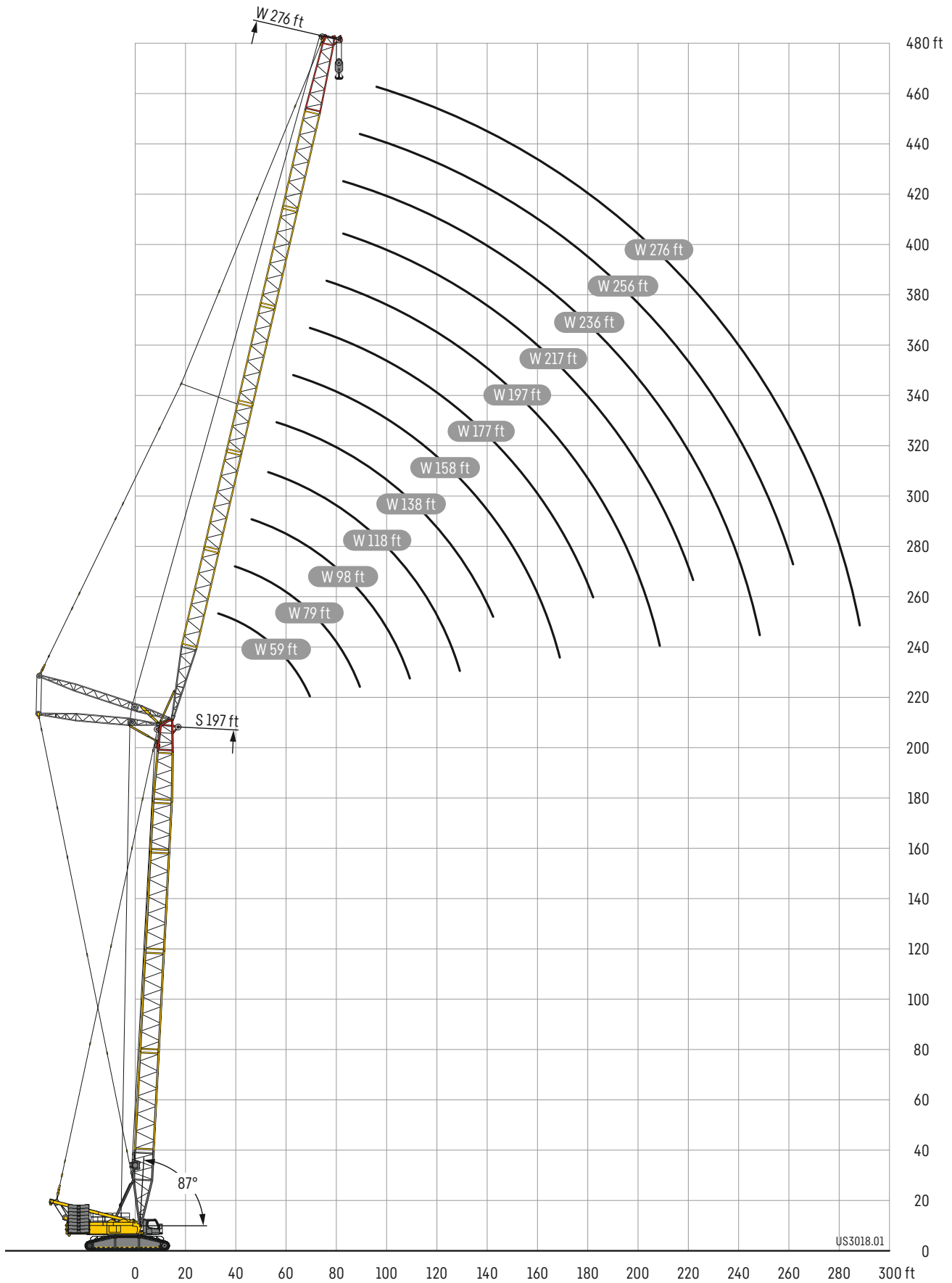


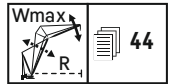
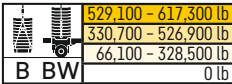
ft	S 217 ft																		ft
	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		
	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
38	344 ^(A)	344 ^(A)																	38
40	337 ^(A)	337 ^(A)																	40
45	320 ^(A)	320 ^(A)	289 ^(A)	289 ^(A)															45
50	301 ^(A)	301 ^(A)	276 ^(A)	276 ^(A)	253 ^(A)	253 ^(A)													50
60	254 ^(A)	254 ^(A)	246 ^(A)	246 ^(A)	232 ^(A)	232 ^(A)	213 ^(A)	213 ^(A)	194 ^(A)	194 ^(A)									60
70	220 ^(A)	220 ^(A)	213 ^(A)	213 ^(A)	206 ^(A)	206 ^(A)	197 ^(A)	197 ^(A)	181 ^(A)	181 ^(A)	167 ^(A)	167 ^(A)	152 ^(A)	152 ^(A)					70
80	186 ^(B)	189 ⁽¹¹⁾	187 ^(A)	187 ^(A)	181 ^(A)	181 ^(A)	176 ^(A)	176 ^(A)	168 ^(A)	168 ^(A)	157 ^(A)	157 ^(A)	144 ^(A)	144 ^(A)	132 ^(A)	132 ^(A)	118 ^(A)	118 ^(A)	80
90		161 ⁽¹¹⁾	167 ^(A)	167 ^(A)	161 ^(A)	161 ^(A)	156 ^(A)	156 ⁽⁵⁾	151 ^(A)	151 ^(A)	145 ^(A)	145 ^(A)	135 ^(A)	135 ^(A)	125 ^(B)	125 ^(B)	112 ^(A)	112 ^(A)	90
100		136 ⁽¹¹⁾	144 ⁽⁸⁾	144 ⁽¹¹⁾	145 ^(A)	145 ^(A)	141 ^(A)	141 ^(A)	135 ^(A)	135 ^(A)	130 ^(A)	130 ^(A)	126 ^(A)	126 ^(A)	116 ^(B)	116 ^(B)	107 ^(B)	107 ^(B)	100
110		115 ⁽¹¹⁾		125 ⁽¹¹⁾	130 ^(A)	130 ⁽¹¹⁾	127 ^(A)	127 ^(A)	122 ^(A)	122 ^(A)	118 ^(A)	118 ^(A)	114 ^(A)	114 ^(A)	109 ^(A)	109 ^(A)	100 ^(B)	100 ^(B)	110
120		96.3 ⁽¹¹⁾		105 ⁽¹¹⁾	113 ^(B)	113 ^(B)	115 ^(A)	115 ^(A)	111 ^(A)	111 ^(A)	107 ^(A)	107 ^(A)	104 ^(A)	104 ^(A)	100 ^(A)	100 ^(A)	94.7 ^(A)	94.7 ^(A)	120
130		83.2 ⁽¹⁰⁾		90.0 ⁽¹¹⁾		97.6 ⁽¹¹⁾	104 ^(A)	104 ^(A)	101 ^(A)	101 ^(A)	97.0 ^(A)	97.0 ^(A)	94.3 ^(A)	94.3 ^(A)	91.6 ^(A)	91.6 ^(A)	87.8 ^(A)	87.8 ^(A)	130
140		71.9 ⁽¹⁰⁾		75.6 ⁽¹¹⁾		82.4 ⁽¹¹⁾	91.3 ^(B)	91.3 ^(B)	91.8 ^(A)	91.8 ^(A)	88.4 ^(A)	88.4 ^(A)	85.8 ^(A)	85.8 ^(A)	83.3 ^(A)	83.3 ^(A)	79.8 ^(A)	79.8 ^(A)	140
150		60.7 ⁽¹⁰⁾		65.5 ⁽¹⁰⁾		70.8 ⁽¹¹⁾		77.9 ⁽¹¹⁾	84.2 ^(A)	84.2 ^(A)	80.9 ^(A)	80.9 ^(A)	78.5 ^(A)	78.5 ^(A)	76.0 ^(A)	76.0 ^(A)	72.8 ^(A)	72.8 ^(A)	150
160		49.7 ⁽⁸⁾		56.5 ⁽¹⁰⁾		59.3 ⁽¹¹⁾		66.2 ^(C)	73.4 ^(B)	73.4 ^(B)	74.2 ^(A)	74.2 ^(A)	72.0 ^(A)	72.0 ^(A)	69.6 ^(A)	69.6 ^(A)	66.4 ^(A)	66.4 ^(A)	160
170		42.1 ⁽⁸⁾		47.4 ⁽¹⁰⁾		51.3 ⁽¹⁰⁾		56.5 ⁽¹¹⁾		61.6 ⁽¹¹⁾	68.4 ^(A)	68.4 ^(A)	66.3 ^(A)	66.3 ^(A)	64.0 ^(A)	64.0 ^(A)	60.9 ^(A)	60.9 ^(A)	170
180		34.5 ⁽⁸⁾		38.5 ⁽⁸⁾		43.8 ⁽¹⁰⁾		47.1 ⁽¹¹⁾		52.6 ^(C)	59.1 ^(B)	59.1 ^(B)	61.1 ^(A)	61.1 ^(A)	59.1 ^(A)	59.1 ^(A)	56.1 ^(A)	56.1 ^(A)	180
190		27.0 ⁽⁸⁾		32.3 ⁽⁸⁾		36.4 ⁽¹⁰⁾		40.7 ⁽¹¹⁾		44.0 ⁽¹¹⁾		48.5 ⁽¹¹⁾	56.2 ^(A)	56.2 ^(A)	54.5 ^(A)	54.5 ^(A)	51.7 ^(A)	51.7 ^(A)	190
200		21.6 ⁽⁶⁾		26.2 ⁽⁸⁾		29.0 ⁽⁸⁾		34.3 ⁽¹¹⁾		36.3 ⁽⁸⁾		41.5 ^(C)	48.3 ^(B)	48.3 ^(B)	50.1 ^(A)	50.1 ^(A)	47.6 ^(A)	47.6 ^(A)	200
220		12.2 ⁽⁶⁾		15.3 ⁽⁶⁾		19.2 ⁽⁸⁾		21.7 ⁽⁹⁾		26.0 ⁽¹¹⁾		27.4 ⁽⁸⁾		32.8 ^(C)	39.1 ^(B)	39.1 ^(B)	40.2 ^(A)	40.2 ^(A)	220
240				7.1 ⁽⁶⁾				13.4 ⁽⁹⁾				19.1 ⁽¹¹⁾		20.9 ⁽⁸⁾		25.6 ^(C)	30.3 ^(B)	30.3 ^(B)	240
260														13.1 ⁽¹¹⁾		16.1 ⁽⁸⁾		19.3 ^(C)	260
280																		11.3 ⁽⁸⁾	280

Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°

Lifting heights

Hauteurs de levage

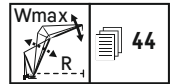
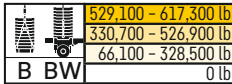




		S 118 ft																										
ft	O B BW	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft				
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
38	O B BW	402 ^(B) 551 ^(B) 551 ^(B)	402 ^(B) 551 ^(B) 551 ^(B)	392 ^(A) 488 ^(A)	393 ⁽¹⁾ 488 ⁽¹⁾																							
40	O B BW	381 ^(B) 551 ^(B) 551 ^(B)	383 ⁽¹⁾ 551 ^(B) 551 ^(B)	373 ^(A) 488 ^(A)	373 ^(A) 489 ⁽¹⁾																							
45	O B BW	338 ^(B) 551 ^(B) 551 ^(B)	341 ⁽¹⁾ 551 ^(B) 551 ^(B)	332 ^(A) 490 ^(B) 491 ^(B)	332 ^(A) 490 ^(B) 491 ^(B)	318 ^(A) 490 ^(A)	318 ^(A) 491 ⁽¹⁾																					
50	O B BW	303 ^(B) 533 ^(B) 534 ^(B)	304 ⁽²⁾ 551 ⁽¹⁾ 551 ⁽¹⁾	298 ^(A) 489 ^(B) 491 ^(B)	298 ^(A) 490 ⁽¹⁾ 491 ^(B)	286 ^(A) 491 ^(B) 490 ^(B)	286 ^(A) 491 ⁽¹⁾ 490 ^(B)	276 ^(A) 396 ^(A)	276 ⁽¹⁾ 398 ⁽¹⁾																			
60	O B BW	251 ^(B) 481 ^(B) 481 ^(B)	251 ^(B) 539 ⁽²⁾ 539 ⁽²⁾	247 ^(A) 485 ^(B) 484 ^(B)	247 ^(A) 490 ⁽¹⁾ 491 ⁽¹⁾	237 ^(A) 466 ^(B) 491 ⁽¹⁾	237 ^(A) 490 ⁽¹⁾ 404 ^(B)	229 ^(A) 401 ^(B) 404 ^(B)	229 ^(A) 405 ⁽¹⁾ 405 ⁽¹⁾	222 ^(A) 376 ^(B) 375 ^(B)	222 ^(A) 376 ^(B) 375 ^(B)	215 ^(A) 309 ^(A)	215 ⁽¹⁾ 309 ^(A)															
70	O B BW	213 ^(B) 405 ^(B) 406 ^(B)	213 ^(B) 496 ⁽³⁾ 497 ⁽²⁾	210 ^(A) 437 ^(B) 433 ^(B)	210 ^(A) 490 ⁽¹⁾ 490 ⁽¹⁾	202 ^(A) 422 ^(B) 413 ^(B)	202 ^(A) 490 ⁽¹⁾ 489 ⁽¹⁾	196 ^(A) 393 ^(B) 387 ^(B)	196 ^(A) 405 ⁽¹⁾ 409 ⁽¹⁾	189 ^(A) 360 ^(B) 360 ^(B)	189 ^(A) 363 ^(B) 360 ^(B)	184 ^(A) 309 ^(B) 309 ^(B)	184 ^(A) 309 ^(B) 309 ^(B)	179 ^(A) 270 ^(A)	179 ^(A) 272 ⁽¹⁾	173 ^(A) 228 ^(A)	173 ⁽¹⁾ 229 ⁽¹⁾	169 ^(A) 192 ^(A)	169 ^(A) 192 ^(A)									
80	O B BW		177 ⁽¹⁾ 465 ⁽³⁾ 465 ⁽³⁾	181 ^(A) 362 ^(B) 471 ⁽³⁾	181 ^(A) 470 ⁽³⁾ 471 ⁽³⁾	175 ^(A) 359 ^(B) 359 ^(B)	175 ^(A) 452 ⁽²⁾ 452 ⁽²⁾	170 ^(A) 353 ^(B) 411 ⁽³⁾	170 ^(A) 411 ⁽³⁾ 411 ⁽³⁾	164 ^(A) 339 ^(B) 335 ^(B)	164 ^(A) 349 ⁽²⁾ 346 ⁽²⁾	160 ^(A) 308 ^(B) 307 ^(B)	160 ^(A) 308 ^(B) 307 ^(B)	155 ^(A) 271 ^(B) 271 ^(B)	155 ^(A) 271 ^(B) 271 ^(B)	151 ^(A) 229 ^(B) 230 ^(B)	151 ^(A) 229 ^(B) 230 ^(B)	147 ^(A) 189 ^(A)	147 ^(A) 191 ⁽¹⁾	143 ^(A) 166 ^(A)	143 ^(A) 166 ⁽¹⁾	138 ^(A) 140 ^(A)	138 ^(A) 140 ^(A)					
90	O B BW		145 ⁽¹⁾ 430 ⁽³⁾ 431 ⁽³⁾	155 ^(A) 311 ^(B) 311 ^(B)	155 ^(A) 439 ⁽³⁾ 440 ⁽³⁾	152 ^(A) 306 ^(B) 306 ^(B)	152 ^(A) 434 ^(B) 435 ^(B)	150 ^(A) 305 ^(B) 305 ^(B)	150 ^(A) 377 ⁽²⁾ 377 ⁽²⁾	144 ^(A) 303 ^(B) 302 ^(B)	144 ^(A) 353 ⁽²⁾ 355 ⁽²⁾	141 ^(A) 292 ^(B) 290 ^(B)	141 ^(A) 300 ⁽²⁾ 299 ⁽²⁾	136 ^(A) 259 ^(B) 262 ⁽²⁾	136 ^(A) 261 ⁽²⁾ 262 ⁽²⁾	133 ^(A) 227 ^(B) 228 ^(B)	133 ^(A) 227 ^(B) 228 ^(B)	129 ^(A) 189 ^(B) 190 ^(B)	129 ^(A) 189 ^(B) 190 ^(B)	125 ^(A) 164 ^(B) 164 ^(B)	125 ^(A) 164 ^(B) 164 ^(B)	121 ^(A) 137 ^(A)	121 ^(A) 138 ⁽¹⁾	115 ^(A) 115 ^(A)	115 ^(A) 116 ⁽¹⁾			
100	O B BW		121 ⁽¹⁾ 395 ⁽³⁾ 396 ⁽³⁾	129 ⁽¹⁾ 401 ⁽³⁾ 402 ⁽³⁾	133 ^(A) 269 ^(B) 270 ^(B)	133 ^(A) 385 ⁽²⁾ 385 ⁽²⁾	131 ^(A) 265 ^(B) 264 ^(B)	131 ^(A) 360 ^(B) 360 ^(B)	128 ^(A) 263 ^(B) 263 ^(B)	128 ^(A) 319 ⁽²⁾ 319 ⁽²⁾	125 ^(A) 262 ^(B) 262 ^(B)	125 ^(A) 300 ⁽²⁾ 300 ⁽²⁾	121 ^(A) 244 ^(B) 244 ^(B)	121 ^(A) 258 ⁽²⁾ 261 ⁽²⁾	118 ^(A) 224 ^(B) 226 ^(B)	118 ^(A) 224 ^(B) 226 ^(B)	115 ^(A) 185 ^(B) 186 ^(B)	115 ^(A) 185 ^(B) 186 ^(B)	111 ^(A) 158 ^(B) 159 ^(B)	111 ^(A) 158 ^(B) 159 ^(B)	108 ^(A) 136 ^(B) 136 ^(B)	108 ^(A) 136 ^(B) 136 ^(B)	105 ^(A) 114 ^(B) 114 ^(B)	105 ^(A) 114 ^(B) 114 ^(B)	105 ^(A) 114 ^(B) 114 ^(B)	105 ^(A) 114 ^(B) 114 ^(B)		
110	O B BW		102 ⁽¹⁾ 360 ⁽³⁾ 361 ⁽³⁾	109 ⁽¹⁾ 363 ⁽³⁾ 364 ⁽³⁾	117 ^(A) 235 ^(B) 234 ^(B)	117 ^(A) 355 ⁽²⁾ 356 ⁽²⁾	115 ^(A) 234 ^(B) 233 ^(B)	115 ^(A) 324 ⁽²⁾ 324 ⁽²⁾	113 ^(A) 231 ^(B) 231 ^(B)	113 ^(A) 304 ⁽²⁾ 304 ⁽²⁾	111 ^(A) 231 ^(B) 231 ^(B)	111 ^(A) 275 ⁽²⁾ 276 ⁽²⁾	109 ^(A) 224 ^(B) 225 ^(B)	109 ^(A) 245 ⁽²⁾ 246 ⁽²⁾	106 ^(A) 217 ^(B) 219 ^(B)	106 ^(A) 202 ^(B) 202 ^(B)	102 ⁽³⁾ 182 ^(B) 183 ^(B)	102 ⁽³⁾ 182 ^(B) 183 ^(B)	99.4 ^(A) 153 ^(B) 154 ^(B)	99.4 ^(A) 153 ^(B) 154 ^(B)	96.5 ^(A) 134 ^(B) 134 ^(B)	96.5 ^(A) 134 ^(B) 134 ^(B)	93.2 ^(A) 112 ^(B) 112 ^(B)	93.2 ^(A) 112 ^(B) 112 ^(B)	93.2 ^(A) 112 ^(B) 112 ^(B)	93.2 ^(A) 112 ^(B) 112 ^(B)		
120	O B BW		84.3 ^(B) 327 ^(B) 328 ^(B)	92.1 ⁽¹⁾ 328 ⁽⁴⁾ 329 ⁽⁴⁾	97.8 ⁽¹⁾ 325 ⁽²⁾ 326 ⁽²⁾	102 ^(A) 304 ⁽²⁾ 304 ⁽²⁾	102 ^(A) 304 ⁽²⁾ 304 ⁽²⁾	100 ^(A) 206 ^(B) 206 ^(B)	100 ^(A) 276 ⁽²⁾ 276 ⁽²⁾	98.4 ^(A) 205 ^(B) 205 ^(B)	98.4 ^(A) 263 ⁽²⁾ 264 ⁽²⁾	96.4 ^(A) 204 ^(B) 204 ^(B)	96.4 ^(A) 233 ⁽²⁾ 234 ⁽²⁾	95.1 ^(A) 220 ^(B) 220 ^(B)	95.1 ^(A) 203 ^(B) 204 ^(B)	92.5 ^(A) 180 ^(B) 181 ^(B)	92.5 ^(A) 182 ⁽²⁾ 182 ⁽²⁾	89.3 ^(A) 149 ^(B) 150 ^(B)	89.3 ^(A) 150 ⁽²⁾ 151 ⁽²⁾	86.4 ^(A) 132 ^(B) 133 ^(B)	86.4 ^(A) 132 ^(B) 133 ^(B)	83.4 ^(A) 108 ^(B) 109 ⁽²⁾	83.4 ^(A) 108 ^(B) 109 ⁽²⁾	83.4 ^(A) 108 ^(B) 109 ⁽²⁾	83.4 ^(A) 108 ^(B) 109 ⁽²⁾			
130	O B BW		71.4 ^(B) 292 ^(B) 295 ^(B)	78.5 ⁽¹⁾ 301 ⁽³⁾ 302 ⁽³⁾	83.6 ⁽¹⁾ 297 ⁽³⁾ 298 ⁽³⁾	91.9 ^(A) 186 ^(B) 186 ^(B)	91.9 ^(A) 285 ⁽²⁾ 284 ⁽²⁾	89.6 ^(A) 188 ^(B) 188 ^(B)	89.6 ^(A) 259 ⁽²⁾ 260 ⁽²⁾	87.9 ^(A) 185 ^(B) 185 ^(B)	87.9 ^(A) 239 ⁽²⁾ 240 ⁽²⁾	86.0 ^(A) 183 ^(B) 183 ^(B)	86.0 ^(A) 227 ^(B) 228 ^(B)	84.8 ^(A) 183 ^(B) 183 ^(B)	84.8 ^(A) 209 ⁽²⁾ 210 ⁽²⁾	83.0 ^(A) 175 ^(B) 176 ^(B)	83.0 ^(A) 181 ⁽²⁾ 182 ⁽²⁾	80.8 ^(A) 143 ^(B) 144 ^(B)	80.8 ^(A) 148 ⁽²⁾ 149 ⁽²⁾	78.2 ^(A) 130 ^(B) 131 ^(B)	78.2 ^(A) 131 ⁽²⁾ 132 ⁽²⁾	75.4 ^(A) 108 ^(B) 109 ⁽²⁾	75.4 ^(A) 108 ^(B) 109 ⁽²⁾	75.4 ^(A) 108 ^(B) 109 ⁽²⁾	75.4 ^(A) 108 ^(B) 109 ⁽²⁾			
140	O B BW		59.8 ⁽⁴⁾ 257 ⁽⁴⁾	65.6 ^(B) 274 ⁽⁴⁾	71.6 ⁽¹⁾ 272 ⁽³⁾ 274 ⁽³⁾	76.8 ⁽¹⁾ 225 ⁽²⁾ 265 ⁽²⁾	80.8 ^(A) 170 ^(B) 170 ^(B)	80.8 ^(A) 243 ⁽²⁾ 244 ⁽²⁾	79.1 ^(A) 170 ^(B) 170 ^(B)	79.1 ^(A) 226 ⁽²⁾ 227 ⁽²⁾	77.0 ^(A) 166 ^(B) 165 ^(B)	77.0 ^(A) 211 ⁽²⁾ 210 ⁽²⁾	76.0 ^(A) 165 ^(B) 165 ^(B)	76.0 ^(A) 204 ^(B) 204 ^(B)	74.2 ^(A) 164 ^(B) 164 ^(B)	74.2 ^(A) 179 ^(C) 181 ^(C)	72.2 ^(A) 138 ^(B) 139 ^(B)	72.2 ^(A) 144 ⁽²⁾ 145 ⁽²⁾	70.5 ^(A) 129 ^(B) 130 ^(B)	70.5 ^(A) 129 ^(B) 130 ^(B)	67.9 ^(A) 107 ^(B) 107 ^(B)	67.9 ^(A) 107 ^(B) 107 ^(B)	67.9 ^(A) 107 ^(B) 107 ^(B)	67.9 ^(A) 107 ^(B) 107 ^(B)				
150	O B BW		50.2 ⁽⁶⁾ 226 ⁽⁶⁾	55.8 ^(B) 245 ⁽⁶⁾	61.2 ⁽¹⁾ 247 ⁽⁴⁾ 250 ⁽⁴⁾	66.2 ⁽¹⁾ 245 ⁽²⁾ 246 ⁽²⁾	73.3 ^(A) 152 ^(B) 152 ^(B)	73.3 ^(A) 231 ⁽³⁾ 231 ⁽³⁾	71.5 ^(A) 155 ^(B) 155 ^(B)	71.5 ^(A) 213 ⁽²⁾ 214 ⁽²⁾	69.6 ^(A) 150 ^(B) 150 ^(B)	69.6 ^(A) 199 ⁽²⁾ 199 ⁽²⁾	68.5 ^(A) 150 ^(B) 151 ^(B)	68.5 ^(A) 188 ⁽²⁾ 188 ⁽²⁾	66.7 ^(A) 150 ^(B) 150 ^(B)	66.7 ^(A) 175 ^(B) 177 ^(B)	64.8 ^(A) 133 ^(B) 136 ^(B)	64.8 ^(A) 141 ⁽²⁾ 142 ⁽²⁾	63.1 ^(A) 127 ^(B) 129 ^(C)	63.1 ^(A) 127 ^(B) 129 ^(C)	61.3 ^(A) 105 ^(B) 105 ^(B)	61.3 ^(A) 105 ^(B) 105 ^(B)	61.3 ^(A) 105 ^(B) 105 ^(B)	61.3 ^(A) 105 ^(B) 105 ^(B)				
160	O B BW			46.6 ⁽⁶⁾ 218 ⁽⁶⁾	51.0 ⁽⁹⁾ 225 ⁽⁴⁾ 227 ⁽⁴⁾	57.0 ⁽¹⁾ 225 ⁽²⁾ 227 ⁽²⁾	60.6 ⁽¹⁾ 214 ⁽²⁾ 215 ⁽²⁾	65.0 ^(A) 140 ^(B) 140 ^(B)	65.0 ^(A) 206 ⁽²⁾ 206 ⁽²⁾	63.1 ^(A) 139 ^(B) 139 ^(B)	63.1 ^(A) 188 ⁽²⁾ 188 ⁽²⁾	61.9 ^(A) 178 ⁽²⁾ 178 ⁽²⁾	61.9 ^(A) 178 ⁽²⁾ 178 ⁽²⁾	60.2 ^(A) 137 ^(B) 136 ^(B)	60.2 ^(A) 168 ⁽²⁾ 168 ⁽²⁾	58.4 ^(A) 127 ^(B) 128 ^(B)	58.4 ^(A) 137 ⁽²⁾ 138 ⁽²⁾	56.6 ^(A) 128 ^(B) 128 ^(B)	56.6 ^(A) 137 ⁽²⁾ 138 ⁽²⁾	55.0 ^(A) 125 ^(B) 125 ^(B)	55.0 ^(A) 125 ^(B) 125 ^(B)	53.0 ^(A) 104 ^(B) 104 ^(B)	53.0 ^(A) 104 ^(B) 104 ^(B)	53.0 ^(A) 104 ^(B) 104 ^(B)	53.0 ^(A) 104 ^(B) 104 ^(B)			
170	O B BW			39.1 ⁽⁶⁾ 193 ⁽⁶⁾	43.1 ⁽⁹⁾ 207 ⁽³⁾ 209 ⁽⁷⁾	48.6 ⁽¹⁾ 205 ⁽²⁾ 209 ⁽²⁾	52.3 ⁽¹⁾ 201 ⁽²⁾ 203 ⁽²⁾	59.5 ^(A) 123 ^(B) 122 ^(B)	59.5 ^(A) 189 ⁽²⁾ 189 ⁽²⁾	57.4 ^(A) 129 ^(B) 129 ^(B)	57.4 ^(A) 183 ⁽²⁾ 183 ⁽²⁾	56.2 ^(A) 168 ⁽²⁾ 168 ⁽²⁾	56.2 ^(A) 168 ⁽²⁾ 168 ⁽²⁾	54.5 ^(A) 125 ^(B) 125 ^(B)	54.5 ^(A) 159 ⁽²⁾ 160 ⁽²⁾	52.7 ^(A) 121 ^(B) 121 ^(B)	52.7 ^(A) 134 ⁽³⁾ 135 ⁽³⁾	51.2 ^(A) 119 ^(B) 120 ^(B)	51.2 ^(A) 119 ^(B) 120 ^(B)	49.3 ^(A) 103 ^(C) 103 ^(C)	49.3 ^(A) 103 ^(C) 103 ^(C)	49.3 ^(A) 103 ^(C) 103 ^(C)	49.3 ^(A) 103 ^(C) 103 ^(C)					
180	O B BW				35.6 ⁽⁷⁾ 188 ⁽⁷⁾	40.2 ⁽⁹⁾ 190 ⁽⁴⁾ 194 ⁽⁷⁾	44.9 ⁽¹⁾ 188 ⁽²⁾ 192 ⁽⁷⁾	48.6 ⁽¹⁾ 180 ⁽²⁾ 180 ⁽²⁾	48.6 ⁽¹⁾ 180 ⁽²⁾ 180 ⁽²⁾																			

SDWB/BW

S 138



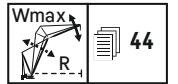
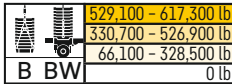
		S 138 ft																									
ft	ft	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft			
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax
38	0 lb B BW			375 ^(A)	375 ^(A)																						
40	0 lb B BW	362 ^(B)	362 ^(B)	357 ^(A)	357 ^(A)																						
45	0 lb B BW	321 ^(B)	325 ^(B)	318 ^(A)	318 ^(A)	304 ^(A)	304 ^(A)																				
50	0 lb B BW	289 ^(B)	291 ^(B)	286 ^(A)	286 ^(A)	274 ^(A)	274 ^(A)	265 ^(A)	265 ^(A)																		
60	0 lb B BW	240 ^(B)	240 ^(B)	238 ^(A)	238 ^(A)	229 ^(A)	229 ^(A)	222 ^(A)	222 ^(A)	214 ^(A)	214 ^(A)	207 ^(A)	207 ^(A)														
70	0 lb B BW	205 ^(B)	205 ^(B)	204 ^(A)	204 ^(A)	195 ^(A)	195 ^(A)	189 ^(A)	189 ^(A)	183 ^(A)	183 ^(A)	177 ^(A)	177 ^(A)	172 ^(A)	172 ^(A)	167 ^(A)	167 ^(A)										
80	0 lb B BW	175 ^(B)	178 ^(A)	178 ^(A)	170 ^(A)	170 ^(A)	165 ^(A)	165 ^(A)	159 ^(A)	159 ^(A)	155 ^(A)	155 ^(A)	150 ^(A)	150 ^(A)	146 ^(A)	146 ^(A)	142 ^(A)	142 ^(A)	142 ^(A)	142 ^(A)	137 ^(A)	137 ^(A)					
90	0 lb B BW	142 ^(B)	153 ^(A)	153 ^(A)	150 ^(A)	150 ^(A)	146 ^(A)	146 ^(A)	141 ^(A)	141 ^(A)	136 ^(A)	136 ^(A)	132 ^(A)	132 ^(A)	129 ^(A)	129 ^(A)	125 ^(A)	125 ^(A)	125 ^(A)	125 ^(A)	121 ^(A)	121 ^(A)	117 ^(A)	117 ^(A)	109 ^(A)	109 ^(A)	
100	0 lb B BW	118 ^(B)	118 ^(B)	128 ^(B)	131 ^(A)	131 ^(A)	129 ^(A)	129 ^(A)	125 ^(A)	125 ^(A)	121 ^(A)	121 ^(A)	117 ^(A)	117 ^(A)	114 ^(A)	114 ^(A)	111 ^(A)	111 ^(A)	111 ^(A)	111 ^(A)	107 ^(A)	107 ^(A)	104 ^(A)	104 ^(A)	101 ^(A)	101 ^(A)	
110	0 lb B BW	99.8 ^(B)	108 ^(C)	115 ^(A)	115 ^(A)	114 ^(A)	114 ^(A)	111 ^(A)	111 ^(A)	108 ^(A)	108 ^(A)	105 ^(A)	105 ^(A)	102 ^(A)	102 ^(A)	102 ^(A)	99.0 ^(A)	99.0 ^(A)	99.0 ^(A)	99.0 ^(A)	96.1 ^(A)	96.1 ^(A)	93.0 ^(A)	93.0 ^(A)	89.8 ^(A)	89.8 ^(A)	
120	0 lb B BW	83.3 ^(B)	90.3 ^(B)	99.9 ^(B)	101 ^(A)	101 ^(A)	98.9 ^(A)	98.9 ^(A)	96.8 ^(A)	96.8 ^(A)	94.5 ^(A)	94.5 ^(A)	92.2 ^(A)	92.2 ^(A)	89.4 ^(A)	89.4 ^(A)	86.3 ^(A)	86.3 ^(A)	86.3 ^(A)	86.3 ^(A)	83.6 ^(A)	83.6 ^(A)	80.7 ^(A)	80.7 ^(A)	77.5 ^(A)	77.5 ^(A)	
130	0 lb B BW	69.1 ^(B)	77.2 ^(B)	83.3 ^(C)	90.7 ^(A)	90.7 ^(A)	88.4 ^(A)	88.5 ^(A)	86.3 ^(A)	86.3 ^(A)	84.5 ^(A)	84.5 ^(A)	83.2 ^(A)	83.2 ^(A)	80.9 ^(A)	80.9 ^(A)	78.1 ^(A)	78.1 ^(A)	78.1 ^(A)	78.1 ^(A)	75.3 ^(A)	75.3 ^(A)	72.5 ^(A)	72.5 ^(A)	69.1 ^(A)	69.1 ^(A)	
140	0 lb B BW	58.1 ^(B)	65.1 ^(B)	69.7 ^(B)	76.0 ^(B)	76.0 ^(B)	73.3 ^(A)	73.3 ^(A)	70.1 ^(A)	70.1 ^(A)	68.2 ^(A)	68.2 ^(A)	67.1 ^(A)	67.1 ^(A)	65.3 ^(A)	65.3 ^(A)	63.4 ^(A)	63.4 ^(A)	63.4 ^(A)	63.4 ^(A)	61.8 ^(A)	61.8 ^(A)	59.4 ^(A)	59.4 ^(A)	56.6 ^(A)	56.6 ^(A)	
150	0 lb B BW	47.9 ^(B)	54.0 ^(B)	59.9 ^(B)	66.5 ^(C)	66.5 ^(C)	62.3 ^(A)	62.3 ^(A)	58.3 ^(A)	58.3 ^(A)	56.2 ^(A)	56.2 ^(A)	55.0 ^(A)	55.0 ^(A)	53.4 ^(A)	53.4 ^(A)	51.6 ^(A)	51.6 ^(A)	51.6 ^(A)	51.6 ^(A)	49.9 ^(A)	49.9 ^(A)	48.0 ^(A)	48.0 ^(A)	45.4 ^(A)	45.4 ^(A)	
160	0 lb B BW	40.0 ^(B)	45.4 ^(B)	50.3 ^(B)	55.4 ^(B)	55.4 ^(B)	51.9 ^(A)	51.9 ^(A)	47.7 ^(A)	47.7 ^(A)	45.4 ^(A)	45.4 ^(A)	44.0 ^(A)	44.0 ^(A)	42.4 ^(A)	42.4 ^(A)	40.6 ^(A)	40.6 ^(A)	40.6 ^(A)	40.6 ^(A)	38.9 ^(A)	38.9 ^(A)	37.1 ^(A)	37.1 ^(A)	34.6 ^(A)	34.6 ^(A)	
170	0 lb B BW	37.1 ^(B)	41.5 ^(B)	47.5 ^(B)	51.3 ^(B)	51.3 ^(B)	47.7 ^(A)	47.7 ^(A)	44.0 ^(A)	44.0 ^(A)	42.4 ^(A)	42.4 ^(A)	41.1 ^(A)	41.1 ^(A)	39.6 ^(A)	39.6 ^(A)	38.0 ^(A)	38.0 ^(A)	38.0 ^(A)	38.0 ^(A)	36.4 ^(A)	36.4 ^(A)	34.8 ^(A)	34.8 ^(A)	32.3 ^(A)	32.3 ^(A)	
180	0 lb B BW	30.7 ^(B)	34.5 ^(B)	39.7 ^(B)	43.8 ^(B)	43.8 ^(B)	40.2 ^(A)	40.2 ^(A)	37.0 ^(A)	37.0 ^(A)	35.4 ^(A)	35.4 ^(A)	34.0 ^(A)	34.0 ^(A)	32.4 ^(A)	32.4 ^(A)	30.8 ^(A)	30.8 ^(A)	30.8 ^(A)	30.8 ^(A)	29.2 ^(A)	29.2 ^(A)	27.6 ^(A)	27.6 ^(A)	25.1 ^(A)	25.1 ^(A)	
190	0 lb B BW	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	27.7 ^(B)	
200	0 lb B BW	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	22.5 ^(B)	
220	0 lb B BW	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	16.8 ^(B)	
240	0 lb B BW	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	10.9 ^(B)	
260	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	
280	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	
300	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	
320	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	
340	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	
360	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	
380	0 lb B BW	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	9.4 ^(B)	

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

Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°

SDWB/BW

S 158

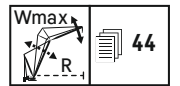
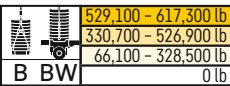


S 158 ft

ft	ft	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft			
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax
		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
40	0 lb B BW			342 ^(A)	342 ^(A)																						
45	0 lb B BW	307 ^(B)	309 ⁽¹⁾	305 ^(A)	305 ^(A)	293 ^(A)	293 ^(A)																				
50	0 lb B BW	277 ^(B)	278 ⁽¹⁾	275 ^(A)	275 ^(A)	265 ^(A)	265 ^(A)	257 ^(A)	257 ^(A)																		
60	0 lb B BW	231 ^(B)	231 ^(B)	230 ^(A)	230 ^(A)	221 ^(A)	221 ^(A)	215 ^(A)	215 ^(A)	207 ^(A)	207 ^(A)	201 ^(A)	201 ^(A)														
70	0 lb B BW	197 ^(B)	197 ^(B)	197 ^(A)	197 ^(A)	190 ^(A)	190 ^(A)	184 ^(A)	184 ^(A)	178 ^(A)	178 ^(A)	172 ^(A)	172 ^(A)	168 ^(A)	168 ^(A)	163 ^(A)	163 ^(A)										
80	0 lb B BW	173 ^(B)	173 ^(B)	172 ^(A)	172 ^(A)	165 ^(A)	165 ^(A)	161 ^(A)	161 ^(A)	155 ^(A)	155 ^(A)	151 ^(A)	151 ^(A)	146 ^(A)	146 ^(A)	142 ^(A)	142 ^(A)	137 ^(A)	137 ^(A)	133 ^(A)	133 ^(A)						
90	0 lb B BW	141 ⁽¹⁾	152 ^(A)	152 ^(A)	146 ^(A)	146 ^(A)	142 ^(A)	142 ^(A)	137 ^(A)	137 ^(A)	133 ^(A)	133 ^(A)	129 ^(A)	129 ^(A)	126 ^(A)	126 ^(A)	122 ^(A)	122 ^(A)	117 ^(A)	117 ^(A)	113 ^(A)	113 ^(A)	105 ^(A)	105 ^(A)	105 ^(A)	105 ^(A)	
100	0 lb B BW	117 ⁽¹⁾	128 ^(B)	128 ^(B)	130 ^(A)	130 ^(A)	127 ^(A)	127 ^(A)	122 ^(A)	122 ^(A)	118 ^(A)	118 ^(A)	115 ^(A)	115 ^(A)	112 ^(A)	112 ^(A)	108 ^(A)	108 ^(A)	104 ^(A)	104 ^(A)	101 ^(A)	101 ^(A)	97.3 ^(A)	97.3 ^(A)	97.3 ^(A)	97.3 ^(A)	
110	0 lb B BW	97.2 ⁽¹⁾	106 ⁽¹⁾	114 ^(A)	114 ^(A)	113 ^(A)	113 ^(A)	110 ^(A)	110 ^(A)	106 ^(A)	106 ^(A)	103 ^(A)	103 ^(A)	100 ^(A)	100 ^(A)	96.4 ^(A)	96.4 ^(A)	92.9 ^(A)	92.9 ^(A)	90.3 ^(A)	90.3 ^(A)	86.8 ^(A)	86.8 ^(A)	86.8 ^(A)	86.8 ^(A)		
120	0 lb B BW	82.6 ⁽¹⁾	89.5 ⁽¹⁾	96.3 ⁽¹⁾	100 ^(A)	100 ^(A)	98.0 ^(A)	98.0 ^(A)	95.8 ^(A)	95.8 ^(A)	92.8 ^(A)	92.8 ^(A)	90.5 ^(A)	90.5 ^(A)	87.6 ^(A)	87.6 ^(A)	83.8 ^(A)	83.8 ^(A)	81.2 ^(A)	81.2 ^(A)	78.0 ^(A)	78.0 ^(A)	78.0 ^(A)	78.0 ^(A)	78.0 ^(A)	78.0 ^(A)	
130	0 lb B BW	68.0 ⁽¹⁾	75.2 ⁽¹⁾	81.0 ⁽¹⁾	89.9 ^(A)	89.9 ^(A)	87.7 ^(A)	87.7 ^(A)	85.8 ^(A)	85.8 ^(A)	83.8 ^(A)	83.8 ^(A)	82.0 ^(A)	82.0 ^(A)	78.4 ^(A)	78.4 ^(A)	75.4 ^(A)	75.4 ^(A)	73.1 ^(A)	73.1 ^(A)	70.1 ^(A)	70.1 ^(A)	70.1 ^(A)	70.1 ^(A)	70.1 ^(A)	70.1 ^(A)	
140	0 lb B BW	56.3 ⁽¹⁾	64.2 ⁽¹⁾	69.1 ⁽¹⁾	75.5 ⁽¹⁾	75.5 ⁽¹⁾	72.0 ^(A)	72.0 ^(A)	70.0 ^(A)	70.0 ^(A)	68.2 ^(A)	68.2 ^(A)	66.7 ^(A)	66.7 ^(A)	64.1 ^(A)	64.1 ^(A)	62.2 ^(A)	62.2 ^(A)	60.2 ^(A)	60.2 ^(A)	57.5 ^(A)	57.5 ^(A)	57.5 ^(A)	57.5 ^(A)	57.5 ^(A)	57.5 ^(A)	
150	0 lb B BW	46.8 ⁽¹⁾	53.1 ⁽¹⁾	58.6 ⁽¹⁾	64.5 ⁽¹⁾	64.5 ⁽¹⁾	61.6 ^(A)	61.6 ^(A)	59.6 ^(A)	59.6 ^(A)	57.8 ^(A)	57.8 ^(A)	56.3 ^(A)	56.3 ^(A)	54.1 ^(A)	54.1 ^(A)	52.3 ^(A)	52.3 ^(A)	50.6 ^(A)	50.6 ^(A)	48.9 ^(A)	48.9 ^(A)	47.1 ^(A)	47.1 ^(A)	47.1 ^(A)	47.1 ^(A)	
160	0 lb B BW	37.7 ⁽¹⁾	43.8 ⁽¹⁾	49.8 ⁽¹⁾	54.8 ⁽¹⁾	54.8 ⁽¹⁾	52.2 ^(A)	52.2 ^(A)	50.4 ^(A)	50.4 ^(A)	48.8 ^(A)	48.8 ^(A)	47.3 ^(A)	47.3 ^(A)	45.4 ^(A)	45.4 ^(A)	43.8 ^(A)	43.8 ^(A)	42.4 ^(A)	42.4 ^(A)	41.1 ^(A)	41.1 ^(A)	39.8 ^(A)	39.8 ^(A)	39.8 ^(A)	39.8 ^(A)	
170	0 lb B BW	31.0 ⁽¹⁾	36.2 ⁽¹⁾	40.9 ⁽¹⁾	46.5 ⁽¹⁾	46.5 ⁽¹⁾	44.5 ^(A)	44.5 ^(A)	42.8 ^(A)	42.8 ^(A)	41.3 ^(A)	41.3 ^(A)	40.0 ^(A)	40.0 ^(A)	38.8 ^(A)	38.8 ^(A)	37.8 ^(A)	37.8 ^(A)	36.9 ^(A)	36.9 ^(A)	36.1 ^(A)	36.1 ^(A)	35.3 ^(A)	35.3 ^(A)	35.3 ^(A)	35.3 ^(A)	
180	0 lb B BW		28.8 ⁽¹⁾	33.3 ⁽¹⁾	39.2 ⁽¹⁾	39.2 ⁽¹⁾	37.2 ^(A)	37.2 ^(A)	35.6 ^(A)	35.6 ^(A)	34.2 ^(A)	34.2 ^(A)	33.0 ^(A)	33.0 ^(A)	32.0 ^(A)	32.0 ^(A)	31.1 ^(A)	31.1 ^(A)	30.3 ^(A)	30.3 ^(A)	29.5 ^(A)	29.5 ^(A)	28.8 ^(A)	28.8 ^(A)	28.8 ^(A)	28.8 ^(A)	
190	0 lb B BW		23.5 ⁽¹⁾	27.0 ⁽¹⁾	31.9 ⁽¹⁾	31.9 ⁽¹⁾	30.3 ^(A)	30.3 ^(A)	28.9 ^(A)	28.9 ^(A)	27.7 ^(A)	27.7 ^(A)	26.7 ^(A)	26.7 ^(A)	25.9 ^(A)	25.9 ^(A)	25.2 ^(A)	25.2 ^(A)	24.5 ^(A)	24.5 ^(A)	23.9 ^(A)	23.9 ^(A)	23.4 ^(A)	23.4 ^(A)	23.4 ^(A)	23.4 ^(A)	
200	0 lb B BW		20.8 ⁽¹⁾	25.6 ⁽¹⁾	30.9 ⁽¹⁾	30.9 ⁽¹⁾	29.9 ^(A)	29.9 ^(A)	29.0 ^(A)	29.0 ^(A)	28.3 ^(A)	28.3 ^(A)	27.7 ^(A)	27.7 ^(A)	27.2 ^(A)	27.2 ^(A)	26.7 ^(A)	26.7 ^(A)	26.3 ^(A)	26.3 ^(A)	25.9 ^(A)	25.9 ^(A)	25.5 ^(A)	25.5 ^(A)	25.5 ^(A)	25.5 ^(A)	
220	0 lb B BW			15.3 ⁽¹⁾	18.6 ⁽¹⁾	18.6 ⁽¹⁾	17.7 ^(A)	17.7 ^(A)	17.0 ^(A)	17.0 ^(A)	16.5 ^(A)	16.5 ^(A)	16.1 ^(A)	16.1 ^(A)	15.8 ^(A)	15.8 ^(A)	15.5 ^(A)	15.5 ^(A)	15.3 ^(A)	15.3 ^(A)	15.1 ^(A)	15.1 ^(A)	14.9 ^(A)	14.9 ^(A)	14.9 ^(A)	14.9 ^(A)	
240	0 lb B BW				13.2 ⁽¹⁾	13.2 ⁽¹⁾	13.2 ^(A)	13.2 ^(A)	12.9 ^(A)	12.9 ^(A)	12.7 ^(A)	12.7 ^(A)	12.5 ^(A)	12.5 ^(A)	12.4 ^(A)	12.4 ^(A)	12.3 ^(A)	12.3 ^(A)	12.2 ^(A)	12.2 ^(A)	12.1 ^(A)	12.1 ^(A)	12.0 ^(A)	12.0 ^(A)	12.0 ^(A)	12.0 ^(A)	
260	0 lb B BW																										
280	0 lb B BW																										
300	0 lb B BW																										
320	0 lb B BW																										
340	0 lb B BW																										
360	0 lb B BW																										
380	0 lb B BW																										

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

Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°



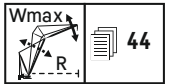
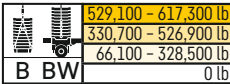
		S 177 ft																									
ft	0 lb B BW	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft			
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax
40				327 ^(A)	327 ^(A)																						
45		294 ^(B)	295 ^(B)	293 ^(A)	293 ^(A)	282 ^(A)	282 ^(A)																				
50		265 ^(B)	268 ^(B)	266 ^(A)	266 ^(A)	256 ^(A)	256 ^(A)	248 ^(A)	248 ^(A)																		
60		222 ^(B)	222 ^(A)	222 ^(A)	222 ^(A)	214 ^(A)	214 ^(A)	208 ^(A)	208 ^(A)	201 ^(A)	201 ^(A)	195 ^(A)	195 ^(A)														
70		190 ^(B)	190 ^(B)	191 ^(A)	191 ^(A)	184 ^(A)	184 ^(A)	179 ^(A)	179 ^(A)	173 ^(A)	173 ^(A)	168 ^(A)	168 ^(A)	162 ^(A)	162 ^(A)	158 ^(A)	158 ^(A)										
80		167 ^(B)	167 ^(B)	167 ^(A)	167 ^(A)	161 ^(A)	161 ^(A)	156 ^(A)	156 ^(A)	151 ^(A)	151 ^(A)	146 ^(A)	146 ^(A)	141 ^(A)	141 ^(A)	137 ^(A)	137 ^(A)	133 ^(A)	133 ^(A)	128 ^(A)	128 ^(A)						
90		140 ^(B)	148 ^(A)	148 ^(A)	148 ^(A)	142 ^(A)	142 ^(A)	138 ^(A)	138 ^(A)	134 ^(A)	134 ^(A)	129 ^(A)	129 ^(A)	125 ^(A)	125 ^(A)	121 ^(A)	121 ^(A)	117 ^(A)	117 ^(A)	113 ^(A)	113 ^(A)	110 ^(A)	110 ^(A)	98.2 ^(A)	98.2 ^(A)		
100		116 ^(B)	126 ^(B)	126 ^(B)	127 ^(A)	127 ^(A)	127 ^(A)	124 ^(A)	124 ^(A)	119 ^(A)	119 ^(A)	115 ^(A)	115 ^(A)	111 ^(A)	111 ^(A)	108 ^(A)	108 ^(A)	104 ^(A)	104 ^(A)	100 ^(A)	100 ^(A)	97.3 ^(A)	97.3 ^(A)	93.5 ^(A)	93.5 ^(A)		
110		95.9 ^(B)	104 ^(B)	113 ^(A)	113 ^(A)	111 ^(A)	111 ^(A)	107 ^(A)	107 ^(A)	104 ^(A)	104 ^(A)	99.3 ^(A)	99.3 ^(A)	97.1 ^(A)	97.1 ^(A)	93.2 ^(A)	93.2 ^(A)	89.8 ^(A)	89.8 ^(A)	87.0 ^(A)	87.0 ^(A)	84.1 ^(A)	84.1 ^(A)	81.2 ^(A)	81.2 ^(A)		
120		81.1 ^(B)	88.4 ^(B)	96.9 ^(B)	96.9 ^(B)	99.4 ^(A)	99.4 ^(A)	97.1 ^(A)	97.1 ^(A)	93.7 ^(A)	93.7 ^(A)	89.8 ^(A)	89.8 ^(A)	87.5 ^(A)	87.5 ^(A)	83.8 ^(A)	83.8 ^(A)	81.0 ^(A)	81.0 ^(A)	78.2 ^(A)	78.2 ^(A)	75.2 ^(A)	75.2 ^(A)	72.4 ^(A)	72.4 ^(A)		
130		68.1 ^(B)	73.8 ^(B)	80.7 ^(B)	80.7 ^(B)	89.1 ^(A)	89.1 ^(A)	87.1 ^(A)	87.1 ^(A)	85.1 ^(A)	85.1 ^(A)	81.5 ^(A)	81.5 ^(A)	79.5 ^(A)	79.5 ^(A)	75.7 ^(A)	75.7 ^(A)	72.9 ^(A)	72.9 ^(A)	70.4 ^(A)	70.4 ^(A)	67.8 ^(A)	67.8 ^(A)	65.0 ^(A)	65.0 ^(A)		
140		55.0 ^(B)	62.8 ^(B)	68.2 ^(B)	68.2 ^(B)	77.1 ^(B)	77.1 ^(B)	78.4 ^(A)	78.4 ^(A)	76.4 ^(A)	76.4 ^(A)	74.0 ^(A)	74.0 ^(A)	72.4 ^(A)	72.4 ^(A)	68.9 ^(A)	68.9 ^(A)	66.1 ^(A)	66.1 ^(A)	63.8 ^(A)	63.8 ^(A)	61.2 ^(A)	61.2 ^(A)	58.8 ^(A)	58.8 ^(A)		
150		46.4 ^(B)	52.6 ^(B)	57.0 ^(B)	57.0 ^(B)	63.5 ^(B)	63.5 ^(B)	70.9 ^(A)	70.9 ^(A)	69.0 ^(A)	69.0 ^(A)	66.7 ^(A)	66.7 ^(A)	65.6 ^(A)	65.6 ^(A)	62.8 ^(A)	62.8 ^(A)	60.1 ^(A)	60.1 ^(A)	57.9 ^(A)	57.9 ^(A)	55.5 ^(A)	55.5 ^(A)	53.3 ^(A)	53.3 ^(A)		
160		37.2 ^(B)	42.5 ^(B)	48.6 ^(B)	48.6 ^(B)	54.0 ^(B)	54.0 ^(B)	61.6 ^(B)	61.6 ^(B)	62.6 ^(A)	62.6 ^(A)	60.3 ^(A)	60.3 ^(A)	59.2 ^(A)	59.2 ^(A)	56.9 ^(A)	56.9 ^(A)	54.9 ^(A)	54.9 ^(A)	52.8 ^(A)	52.8 ^(A)	50.2 ^(A)	50.2 ^(A)	48.1 ^(A)	48.1 ^(A)		
170		29.0 ^(B)	34.7 ^(B)	40.4 ^(B)	40.4 ^(B)	45.1 ^(B)	45.1 ^(B)	49.8 ^(B)	49.8 ^(B)	57.1 ^(A)	57.1 ^(A)	54.8 ^(A)	54.8 ^(A)	53.7 ^(A)	53.7 ^(A)	51.3 ^(A)	51.3 ^(A)	49.5 ^(A)	49.5 ^(A)	47.8 ^(A)	47.8 ^(A)	45.7 ^(A)	45.7 ^(A)	43.8 ^(A)	43.8 ^(A)		
180		23.6 ^(B)	27.9 ^(B)	32.2 ^(B)	32.2 ^(B)	38.2 ^(B)	38.2 ^(B)	42.2 ^(B)	42.2 ^(B)	49.6 ^(B)	49.6 ^(B)	50.0 ^(A)	50.0 ^(A)	48.9 ^(A)	48.9 ^(A)	46.5 ^(A)	46.5 ^(A)	44.8 ^(A)	44.8 ^(A)	43.2 ^(A)	43.2 ^(A)	41.2 ^(A)	41.2 ^(A)	39.4 ^(A)	39.4 ^(A)		
190		18.2 ^(B)	21.1 ^(B)	26.0 ^(B)	26.0 ^(B)	31.3 ^(B)	31.3 ^(B)	35.2 ^(B)	35.2 ^(B)	39.1 ^(B)	39.1 ^(B)	45.7 ^(A)	45.7 ^(A)	44.6 ^(A)	44.6 ^(A)	42.2 ^(A)	42.2 ^(A)	40.5 ^(A)	40.5 ^(A)	38.9 ^(A)	38.9 ^(A)	37.1 ^(A)	37.1 ^(A)	35.4 ^(A)	35.4 ^(A)		
200		16.7 ^(B)	20.6 ^(B)	24.5 ^(B)	24.5 ^(B)	28.5 ^(B)	28.5 ^(B)	32.8 ^(B)	32.8 ^(B)	39.5 ^(B)	39.5 ^(B)	47.1 ^(A)	47.1 ^(A)	46.0 ^(A)	46.0 ^(A)	43.4 ^(A)	43.4 ^(A)	41.7 ^(A)	41.7 ^(A)	40.1 ^(A)	40.1 ^(A)	38.5 ^(A)	38.5 ^(A)	37.0 ^(A)	37.0 ^(A)		
220																											
240																											
260																											
280																											
300																											
320																											
340																											
360																											
380																											
400																											

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

Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°

SDWB/BW

S 197

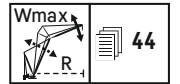
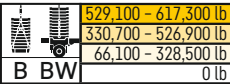


S197 ft

ft	ft	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft				
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		
45	0 lb B BW	281 ^(B) 419 ^(B) 419 ^(B)	281 ^(B) 419 ^(B) 419 ^(B)	282 ^(A) 375 ^(A) 377 ^(A)	282 ^(A) 380 ^(A) 381 ^(A)																							
50	0 lb B BW	255 ^(B) 419 ^(B) 419 ^(B)	257 ^(B) 419 ^(B) 419 ^(B)	256 ^(A) 367 ^(A) 369 ^(A)	256 ^(A) 382 ^(A) 382 ^(A)	247 ^(A) 309 ^(A) 309 ^(A)	247 ^(A) 309 ^(A) 309 ^(A)	239 ^(A) 272 ^(A) 272 ^(A)	239 ^(A) 272 ^(A) 272 ^(A)																			
60	0 lb B BW	214 ^(B) 405 ^(B) 406 ^(B)	214 ^(B) 419 ^(B) 419 ^(B)	215 ^(A) 369 ^(A) 370 ^(A)	215 ^(A) 382 ^(A) 383 ^(A)	208 ^(A) 309 ^(A) 309 ^(A)	208 ^(A) 309 ^(A) 309 ^(A)	201 ^(A) 272 ^(A) 272 ^(A)	201 ^(A) 272 ^(A) 272 ^(A)	194 ^(A) 234 ^(A) 234 ^(A)	194 ^(A) 234 ^(A) 234 ^(A)	188 ^(A) 228 ^(A) 228 ^(A)	188 ^(A) 228 ^(A) 228 ^(A)															
70	0 lb B BW	184 ^(B) 375 ^(B) 375 ^(B)	184 ^(B) 419 ^(B) 419 ^(B)	185 ^(A) 345 ^(A) 345 ^(A)	185 ^(A) 382 ^(A) 383 ^(A)	179 ^(A) 309 ^(A) 309 ^(A)	179 ^(A) 309 ^(A) 309 ^(A)	173 ^(A) 272 ^(A) 272 ^(A)	173 ^(A) 272 ^(A) 272 ^(A)	168 ^(A) 234 ^(A) 234 ^(A)	168 ^(A) 234 ^(A) 234 ^(A)	162 ^(A) 220 ^(A) 219 ^(A)	162 ^(A) 228 ^(A) 227 ^(A)	157 ^(A) 196 ^(A) 195 ^(A)	157 ^(A) 196 ^(A) 195 ^(A)	152 ^(A) 174 ^(A) 175 ^(A)	152 ^(A) 174 ^(A) 175 ^(A)											
80	0 lb B BW	161 ^(B) 348 ^(B) 346 ^(B)	161 ^(B) 419 ^(B) 419 ^(B)	162 ^(A) 322 ^(A) 319 ^(A)	162 ^(A) 380 ^(A) 382 ^(A)	157 ^(A) 298 ^(A) 296 ^(A)	157 ^(A) 309 ^(A) 309 ^(A)	152 ^(A) 271 ^(A) 270 ^(A)	152 ^(A) 272 ^(A) 272 ^(A)	147 ^(A) 234 ^(A) 234 ^(A)	147 ^(A) 234 ^(A) 234 ^(A)	141 ^(A) 224 ^(A) 224 ^(A)	141 ^(A) 224 ^(A) 224 ^(A)	137 ^(A) 196 ^(A) 196 ^(A)	137 ^(A) 196 ^(A) 196 ^(A)	133 ^(A) 170 ^(A) 170 ^(A)	133 ^(A) 170 ^(A) 170 ^(A)	128 ^(A) 149 ^(A) 149 ^(A)	128 ^(A) 149 ^(A) 149 ^(A)	124 ^(A) 130 ^(A) 130 ^(A)	124 ^(A) 130 ^(A) 130 ^(A)							
90	0 lb B BW		137 ^(B) 419 ^(B) 419 ^(B)	144 ^(A) 299 ^(A) 298 ^(A)	144 ^(A) 374 ^(A) 374 ^(A)	139 ^(A) 279 ^(A) 276 ^(A)	139 ^(A) 309 ^(A) 309 ^(A)	134 ^(A) 272 ^(A) 255 ^(A)	134 ^(A) 272 ^(A) 255 ^(A)	130 ^(A) 233 ^(A) 232 ^(A)	130 ^(A) 234 ^(A) 234 ^(A)	125 ^(A) 215 ^(A) 214 ^(A)	125 ^(A) 218 ^(A) 217 ^(A)	121 ^(A) 193 ^(A) 193 ^(A)	121 ^(A) 193 ^(A) 193 ^(A)	117 ^(A) 172 ^(A) 172 ^(A)	117 ^(A) 172 ^(A) 172 ^(A)	113 ^(A) 149 ^(A) 149 ^(A)	113 ^(A) 149 ^(A) 149 ^(A)	109 ^(A) 126 ^(A) 127 ^(A)	109 ^(A) 126 ^(A) 127 ^(A)	106 ^(A) 110 ^(A) 110 ^(A)	106 ^(A) 110 ^(A) 110 ^(A)	93.5 ^(A) 93.6 ^(A) 93.7 ^(A)	93.5 ^(A) 93.6 ^(A) 93.7 ^(A)	93.5 ^(A) 93.6 ^(A) 93.7 ^(A)		
100	0 lb B BW		114 ^(C) 387 ^(C) 389 ^(C)	123 ^(B) 272 ^(B) 275 ^(B)	123 ^(B) 365 ^(B) 374 ^(B)	124 ^(A) 259 ^(A) 259 ^(A)	124 ^(A) 309 ^(A) 309 ^(A)	120 ^(A) 242 ^(A) 239 ^(A)	120 ^(A) 272 ^(A) 272 ^(A)	116 ^(A) 221 ^(A) 221 ^(A)	116 ^(A) 234 ^(A) 234 ^(A)	111 ^(A) 205 ^(A) 203 ^(A)	111 ^(A) 218 ^(A) 217 ^(A)	108 ^(A) 186 ^(A) 185 ^(A)	108 ^(A) 190 ^(A) 190 ^(A)	105 ^(A) 167 ^(A) 167 ^(A)	105 ^(A) 167 ^(A) 167 ^(A)	100 ^(A) 146 ^(A) 147 ^(A)	100 ^(A) 146 ^(A) 147 ^(A)	96.8 ^(A) 126 ^(A) 126 ^(A)	96.8 ^(A) 126 ^(A) 126 ^(A)	94.1 ^(A) 110 ^(A) 110 ^(A)	94.1 ^(A) 110 ^(A) 110 ^(A)	89.9 ^(A) 91.5 ^(A) 91.6 ^(A)	89.9 ^(A) 91.5 ^(A) 91.6 ^(A)	89.9 ^(A) 91.5 ^(A) 91.6 ^(A)		
110	0 lb B BW		95.3 ^(B) 353 ^(B) 355 ^(B)	104 ^(B) 293 ^(B) 292 ^(B)	113 ^(A) 345 ^(A) 347 ^(A)	113 ^(A) 240 ^(A) 243 ^(A)	113 ^(A) 309 ^(A) 309 ^(A)	109 ^(A) 228 ^(A) 224 ^(A)	109 ^(A) 272 ^(A) 272 ^(A)	105 ^(A) 212 ^(A) 209 ^(A)	105 ^(A) 234 ^(A) 234 ^(A)	100 ^(A) 195 ^(A) 193 ^(A)	100 ^(A) 221 ^(A) 217 ^(A)	96.9 ^(A) 179 ^(A) 177 ^(A)	96.9 ^(A) 190 ^(A) 190 ^(A)	93.7 ^(A) 162 ^(A) 161 ^(A)	93.7 ^(A) 162 ^(A) 161 ^(A)	89.9 ^(A) 144 ^(A) 144 ^(A)	89.9 ^(A) 144 ^(A) 144 ^(A)	86.6 ^(A) 126 ^(A) 124 ^(A)	86.6 ^(A) 126 ^(A) 124 ^(A)	84.0 ^(A) 109 ^(A) 109 ^(A)	84.0 ^(A) 109 ^(A) 109 ^(A)	80.8 ^(A) 91.8 ^(A) 91.8 ^(A)	80.8 ^(A) 91.8 ^(A) 91.8 ^(A)	80.8 ^(A) 91.8 ^(A) 91.8 ^(A)		
120	0 lb B BW		78.9 ^(B) 322 ^(B) 321 ^(B)	87.3 ^(B) 319 ^(B) 319 ^(B)	95.8 ^(B) 220 ^(B) 221 ^(B)	95.8 ^(B) 308 ^(B) 306 ^(B)	98.4 ^(A) 212 ^(A) 213 ^(A)	98.4 ^(A) 272 ^(A) 272 ^(A)	88.1 ^(A) 271 ^(A) 271 ^(A)	88.1 ^(A) 271 ^(A) 271 ^(A)	86.2 ^(A) 234 ^(A) 234 ^(A)	86.2 ^(A) 234 ^(A) 234 ^(A)	82.4 ^(A) 195 ^(A) 188 ^(A)	82.4 ^(A) 221 ^(A) 217 ^(A)	79.6 ^(A) 179 ^(A) 170 ^(A)	79.6 ^(A) 190 ^(A) 190 ^(A)	76.7 ^(A) 162 ^(A) 156 ^(A)	76.7 ^(A) 162 ^(A) 156 ^(A)	73.2 ^(A) 144 ^(A) 140 ^(A)	73.2 ^(A) 144 ^(A) 140 ^(A)	70.3 ^(A) 123 ^(A) 121 ^(A)	70.3 ^(A) 123 ^(A) 121 ^(A)	67.9 ^(A) 105 ^(A) 105 ^(A)	67.9 ^(A) 105 ^(A) 105 ^(A)	65.1 ^(A) 89.3 ^(A) 89.3 ^(A)	65.1 ^(A) 89.3 ^(A) 89.3 ^(A)	65.1 ^(A) 89.3 ^(A) 89.3 ^(A)	
130	0 lb B BW		67.2 ^(B) 295 ^(B) 293 ^(B)	73.2 ^(B) 293 ^(B) 292 ^(B)	88.1 ^(A) 289 ^(A) 286 ^(A)	88.1 ^(A) 271 ^(A) 271 ^(A)	88.1 ^(A) 271 ^(A) 271 ^(A)	88.1 ^(A) 271 ^(A) 271 ^(A)	88.1 ^(A) 271 ^(A) 271 ^(A)	86.2 ^(A) 234 ^(A) 234 ^(A)	86.2 ^(A) 234 ^(A) 234 ^(A)	82.4 ^(A) 178 ^(A) 175 ^(A)	82.4 ^(A) 215 ^(A) 215 ^(A)	79.6 ^(A) 165 ^(A) 163 ^(A)	79.6 ^(A) 190 ^(A) 190 ^(A)	76.7 ^(A) 152 ^(A) 156 ^(A)	76.7 ^(A) 152 ^(A) 156 ^(A)	73.2 ^(A) 137 ^(A) 136 ^(A)	73.2 ^(A) 137 ^(A) 136 ^(A)	70.3 ^(A) 111 ^(A) 111 ^(A)	70.3 ^(A) 111 ^(A) 111 ^(A)	67.9 ^(A) 105 ^(A) 105 ^(A)	67.9 ^(A) 105 ^(A) 105 ^(A)	65.1 ^(A) 89.3 ^(A) 89.3 ^(A)	65.1 ^(A) 89.3 ^(A) 89.3 ^(A)	65.1 ^(A) 89.3 ^(A) 89.3 ^(A)		
140	0 lb B BW		55.4 ^(B) 269 ^(B) 267 ^(B)	60.8 ^(B) 271 ^(B) 268 ^(B)	75.8 ^(B) 269 ^(B) 266 ^(B)	75.8 ^(B) 269 ^(B) 266 ^(B)	75.8 ^(B) 269 ^(B) 266 ^(B)	75.8 ^(B) 269 ^(B) 266 ^(B)	75.8 ^(B) 269 ^(B) 266 ^(B)	77.6 ^(A) 245 ^(A) 242 ^(A)	77.6 ^(A) 245 ^(A) 242 ^(A)	75.1 ^(A) 171 ^(A) 171 ^(A)	75.1 ^(A) 213 ^(A) 213 ^(A)	72.7 ^(A) 159 ^(A) 188 ^(A)	72.7 ^(A) 159 ^(A) 188 ^(A)	69.9 ^(A) 146 ^(A) 144 ^(A)	69.9 ^(A) 146 ^(A) 144 ^(A)	66.4 ^(A) 133 ^(A) 131 ^(A)	66.4 ^(A) 133 ^(A) 131 ^(A)	63.6 ^(A) 114 ^(A) 115 ^(A)	63.6 ^(A) 114 ^(A) 115 ^(A)	61.4 ^(A) 103 ^(A) 104 ^(A)	61.4 ^(A) 103 ^(A) 104 ^(A)	58.7 ^(A) 88.6 ^(A) 89.1 ^(A)	58.7 ^(A) 88.6 ^(A) 89.1 ^(A)	58.7 ^(A) 88.6 ^(A) 89.1 ^(A)		
150	0 lb B BW		43.7 ^(B) 243 ^(B) 243 ^(B)	51.5 ^(B) 250 ^(B) 247 ^(B)	56.9 ^(B) 249 ^(B) 246 ^(B)	56.9 ^(B) 249 ^(B) 246 ^(B)	56.9 ^(B) 249 ^(B) 246 ^(B)	56.9 ^(B) 249 ^(B) 246 ^(B)	56.9 ^(B) 249 ^(B) 246 ^(B)	63.1 ^(A) 245 ^(A) 242 ^(A)	63.1 ^(A) 245 ^(A) 242 ^(A)	61.4 ^(A) 171 ^(A) 163 ^(A)	61.4 ^(A) 211 ^(A) 211 ^(A)	59.8 ^(A) 149 ^(A) 186 ^(A)	59.8 ^(A) 149 ^(A) 186 ^(A)	58.0 ^(A) 135 ^(A) 162 ^(A)	58.0 ^(A) 135 ^(A) 162 ^(A)	55.2 ^(A) 124 ^(A) 142 ^(A)	55.2 ^(A) 124 ^(A) 142 ^(A)	52.8 ^(A) 107 ^(A) 116 ^(A)	52.8 ^(A) 107 ^(A) 116 ^(A)	50.5 ^(A) 99.2 ^(A) 104 ^(A)	50.5 ^(A) 99.2 ^(A) 104 ^(A)	48.2 ^(A) 87.5 ^(A) 88.7 ^(A)	48.2 ^(A) 87.5 ^(A) 88.7 ^(A)	48.2 ^(A) 87.5 ^(A) 88.7 ^(A)		
160	0 lb B BW		36.0 ^(B) 224 ^(B)	42.3 ^(B) 230 ^(B) 228 ^(B)	47.5 ^(B) 231 ^(B) 228 ^(B)	47.5 ^(B) 231 ^(B) 228 ^(B)	47.5 ^(B) 231 ^(B) 228 ^(B)	47.5 ^(B) 231 ^(B) 228 ^(B)	47.5 ^(B) 231 ^(B) 228 ^(B)	54.4 ^(A) 229 ^(A) 225 ^(A)	54.4 ^(A) 229 ^(A) 225 ^(A)	61.4 ^(A) 149 ^(A) 153 ^(A)	61.4 ^(A) 206 ^(A) 206 ^(A)	59.8 ^(A) 181 ^(A) 142 ^(A)	59.8 ^(A) 181 ^(A) 142 ^(A)	58.0 ^(A) 135 ^(A) 162 ^(A)	58.0 ^(A) 135 ^(A) 162 ^(A)	55.2 ^(A) 124 ^(A) 142 ^(A)	55.2 ^(A) 124 ^(A) 142 ^(A)	52.8 ^(A) 107 ^(A) 116 ^(A)	52.8 ^(A) 107 ^(A) 116 ^(A)	50.5 ^(A) 99.2 ^(A) 104 ^(A)	50.5 ^(A) 99.2 ^(A) 104 ^(A)	48.2 ^(A) 87.5 ^(A) 88.7 ^(A)	48.2 ^(A) 87.5 ^(A) 88.7 ^(A)	48.2 ^(A) 87.5 ^(A) 88.7 ^(A)		
170	0 lb B BW		28.8 ^(B) 207 ^(B)	33.0 ^(B) 210 ^(B) 210 ^(B)	39.9 ^(B) 215 ^(B) 212 ^(B)	39.9 ^(B) 215 ^(B) 212 ^(B)	39.9 ^(B) 215 ^(B) 212 ^(B)	39.9 ^(B) 215 ^(B) 212 ^(B)	39.9 ^(B) 215 ^(B) 212 ^(B)	44.5 ^(A) 214 ^(A) 210 ^(A)	44.5 ^(A) 214 ^(A) 210 ^(A)	56.0 ^(A) <																

SDWB/BW

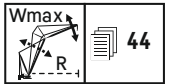
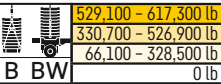
S 217



		S 217 ft																										
ft	B BW	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft				
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
45	O lb			272 ^(A)	272 ^(A)																							
45	B			309 ^(A)	309 ^(A)																							
45	BW			309 ^(A)	309 ^(A)																							
50	O lb	244 ^(B)	246 ⁽¹⁾	247 ^(A)	247 ^(A)	239 ^(A)	239 ^(A)																					
50	B	383 ^(B)	383 ^(B)	309 ^(A)	309 ⁽²⁾	272 ^(A)	272 ^(A)																					
50	BW	383 ^(B)	383 ^(B)	309 ^(A)	309 ⁽²⁾	272 ^(A)	272 ^(A)																					
60	O lb	205 ^(B)	206 ⁽³⁾	209 ^(A)	209 ^(A)	201 ^(A)	201 ^(A)	195 ^(A)	195 ^(A)	188 ^(A)	188 ^(A)																	
60	B	361 ^(B)	382 ⁽¹⁾	309 ^(B)	309 ^(B)	272 ^(B)	272 ^(B)	234 ^(A)	234 ⁽¹⁾	224 ^(A)	225 ⁽¹⁾																	
60	BW	356 ^(B)	378 ⁽¹⁾	309 ^(B)	309 ^(B)	272 ^(B)	272 ^(B)	234 ^(A)	234 ⁽¹⁾	222 ^(A)	223 ⁽¹⁾																	
70	O lb	177 ^(B)	177 ^(B)	180 ^(A)	180 ^(A)	174 ^(A)	174 ^(A)	168 ^(A)	168 ^(A)	162 ^(A)	162 ^(A)	156 ^(A)	156 ^(A)	151 ^(A)	151 ^(A)	146 ^(A)	146 ^(A)											
70	B	334 ^(B)	382 ⁽¹⁾	305 ^(B)	305 ^(B)	272 ^(B)	272 ^(B)	234 ^(B)	234 ⁽²⁾	225 ^(B)	225 ^(B)	193 ^(A)	197 ⁽¹⁾	173 ^(A)	173 ⁽¹⁾	154 ^(A)	154 ^(A)											
70	BW	324 ^(B)	374 ⁽¹⁾	300 ^(B)	309 ⁽¹⁾	272 ^(B)	272 ^(B)	234 ^(B)	234 ⁽¹⁾	222 ^(B)	222 ^(B)	191 ^(A)	195 ⁽¹⁾	171 ^(A)	172 ⁽¹⁾	154 ^(A)	154 ^(A)											
80	O lb	155 ^(B)	155 ^(B)	158 ^(A)	158 ^(A)	152 ^(A)	152 ^(A)	148 ^(A)	148 ^(A)	142 ^(A)	142 ^(A)	137 ^(A)	137 ^(A)	132 ^(A)	132 ^(A)	128 ^(A)	128 ^(A)	123 ^(A)	123 ^(A)	117 ^(A)	117 ^(A)							
80	B	315 ^(B)	372 ⁽¹⁾	284 ^(B)	284 ^(B)	262 ^(B)	272 ⁽¹⁾	234 ^(B)	234 ⁽¹⁾	217 ^(B)	221 ⁽¹⁾	195 ^(B)	195 ^(B)	174 ^(B)	174 ^(B)	150 ^(A)	152 ⁽¹⁾	133 ^(A)	133 ⁽¹⁾	117 ^(A)	117 ^(A)							
80	BW	306 ^(B)	365 ⁽¹⁾	277 ^(B)	309 ^(B)	257 ^(B)	272 ⁽¹⁾	233 ^(B)	234 ⁽¹⁾	214 ^(B)	219 ⁽¹⁾	193 ^(B)	193 ^(B)	172 ^(B)	172 ^(B)	149 ^(A)	151 ⁽¹⁾	131 ^(A)	132 ⁽¹⁾	116 ^(A)	116 ^(A)							
90	O lb		134 ⁽¹¹⁾	141 ^(A)	141 ^(A)	135 ^(A)	135 ^(A)	131 ^(A)	131 ^(A)	126 ^(A)	126 ^(A)	121 ^(A)	121 ^(A)	117 ^(A)	117 ^(A)	113 ^(A)	113 ^(A)	109 ^(A)	109 ^(A)	105 ^(A)	105 ^(A)	99.7 ^(A)	99.7 ^(A)	86.5 ^(A)	86.5 ^(A)	86.5 ^(A)	86.5 ^(A)	86.5 ^(A)
90	B		360 ⁽¹⁾	266 ^(B)	308 ^(C)	246 ^(B)	272 ^(C)	226 ^(B)	234 ⁽¹⁾	207 ^(B)	218 ⁽¹⁾	188 ^(B)	188 ⁽²⁾	168 ^(B)	168 ^(B)	150 ^(B)	150 ^(B)	128 ^(A)	131 ⁽¹⁾	113 ^(A)	115 ⁽¹⁾	100 ^(A)	100 ⁽¹⁾	86.5 ^(A)	86.5 ^(A)	86.5 ^(A)	86.5 ^(A)	86.5 ^(A)
90	BW		356 ⁽¹⁾	259 ^(B)	306 ⁽²⁾	240 ^(B)	272 ^(C)	222 ^(B)	234 ⁽¹⁾	204 ^(B)	215 ⁽¹⁾	185 ^(B)	186 ⁽²⁾	167 ^(B)	167 ^(B)	149 ^(B)	149 ^(B)	127 ^(A)	131 ⁽¹⁾	113 ^(A)	114 ⁽¹⁾	99.0 ^(A)	99.0 ^(A)	84.7 ^(A)	84.7 ^(A)	85.4 ⁽¹⁾	85.4 ⁽¹⁾	85.4 ⁽¹⁾
100	O lb		111 ⁽¹¹⁾	120 ^(B)	120 ⁽¹¹⁾	121 ^(A)	121 ^(A)	117 ^(A)	117 ^(A)	112 ^(A)	112 ^(A)	108 ^(A)	108 ^(A)	104 ^(A)	104 ^(A)	101 ^(A)	101 ^(A)	96.6 ^(A)	96.6 ^(A)	93.4 ^(A)	93.4 ^(A)	90.4 ^(A)	90.4 ^(A)	84.1 ^(A)	84.1 ^(A)	84.1 ^(A)	84.1 ^(A)	84.1 ^(A)
100	B		345 ^(B)	250 ^(B)	305 ⁽¹⁾	229 ^(B)	269 ⁽²⁾	212 ^(B)	234 ^(C)	195 ^(B)	215 ^(C)	179 ^(B)	187 ⁽²⁾	163 ^(B)	164 ⁽²⁾	146 ^(B)	146 ^(B)	129 ^(B)	129 ^(B)	114 ^(B)	114 ^(B)	97.8 ^(A)	97.8 ^(A)	84.5 ^(A)	84.5 ^(A)	85.3 ⁽¹⁾	85.3 ⁽¹⁾	85.3 ⁽¹⁾
100	BW		341 ^(B)	242 ^(B)	302 ⁽¹⁾	223 ^(B)	267 ⁽¹⁾	207 ^(B)	234 ^(C)	192 ^(B)	212 ^(C)	176 ^(B)	184 ⁽²⁾	160 ^(B)	162 ⁽²⁾	144 ^(B)	144 ^(B)	128 ^(B)	128 ^(B)	113 ^(B)	113 ^(B)	97.1 ^(A)	97.1 ^(A)	84.7 ^(A)	84.7 ^(A)	85.4 ⁽¹⁾	85.4 ⁽¹⁾	85.4 ⁽¹⁾
110	O lb		93.4 ⁽¹¹⁾		103 ⁽¹¹⁾	110 ^(A)	110 ⁽¹¹⁾	106 ^(A)	106 ^(A)	101 ^(A)	101 ^(A)	96.9 ^(A)	96.9 ^(A)	93.7 ^(A)	93.7 ^(A)	90.6 ^(A)	90.6 ^(A)	86.7 ^(A)	86.7 ^(A)	83.6 ^(A)	83.6 ^(A)	80.6 ^(A)	80.6 ^(A)	77.6 ^(A)	77.6 ^(A)	77.6 ^(A)	77.6 ^(A)	77.6 ^(A)
110	B		328 ^(B)		298 ^(B)	218 ^(B)	266 ⁽¹⁾	200 ^(B)	232 ⁽²⁾	185 ^(B)	209 ^(C)	170 ^(B)	187 ^(C)	156 ^(B)	163 ⁽²⁾	142 ^(B)	144 ⁽²⁾	126 ^(B)	126 ^(B)	111 ^(B)	111 ^(B)	98.4 ^(B)	98.4 ^(B)	84.7 ^(B)	84.7 ^(B)	84.7 ^(B)	84.7 ^(B)	84.7 ^(B)
110	BW		291 ⁽¹⁰⁾		293 ^(B)	212 ^(B)	264 ⁽¹⁾	194 ^(B)	231 ⁽²⁾	181 ^(B)	206 ^(C)	168 ^(B)	185 ^(C)	154 ^(B)	161 ⁽²⁾	140 ^(B)	142 ⁽²⁾	125 ^(B)	125 ^(B)	111 ^(B)	111 ^(B)	97.7 ^(B)	97.7 ^(B)	84.9 ^(B)	84.9 ^(B)	84.9 ^(B)	84.9 ^(B)	84.9 ^(B)
120	O lb		77.5 ⁽¹¹⁾		86.3 ⁽¹¹⁾	94.3 ^(B)	94.3 ^(B)	96.4 ^(A)	96.4 ^(A)	91.8 ^(A)	91.8 ^(A)	87.7 ^(A)	87.7 ^(A)	84.8 ^(A)	84.8 ^(A)	81.6 ^(A)	81.6 ^(A)	77.9 ^(A)	77.9 ^(A)	75.0 ^(A)	75.0 ^(A)	72.5 ^(A)	72.5 ^(A)	69.6 ^(A)	69.6 ^(A)	69.6 ^(A)	69.6 ^(A)	69.6 ^(A)
120	B		314 ^(B)		285 ^(B)	205 ^(B)	260 ^(B)	190 ^(B)	229 ⁽²⁾	176 ^(B)	205 ⁽²⁾	163 ^(B)	183 ^(C)	150 ^(B)	163 ^(C)	137 ^(B)	143 ⁽²⁾	123 ^(B)	125 ⁽²⁾	109 ^(B)	109 ^(B)	96.8 ^(B)	96.8 ^(B)	83.7 ^(B)	83.7 ^(B)	83.7 ^(B)	83.7 ^(B)	83.7 ^(B)
120	BW		300 ^(B)		279 ^(B)	197 ^(B)	256 ^(B)	184 ^(B)	227 ⁽²⁾	171 ^(B)	202 ⁽²⁾	159 ^(B)	180 ^(C)	148 ^(B)	162 ^(C)	135 ^(B)	141 ⁽²⁾	121 ^(B)	124 ⁽²⁾	108 ^(B)	108 ^(B)	96.0 ^(B)	96.0 ^(B)	84.0 ^(B)	84.0 ^(B)	84.0 ^(B)	84.0 ^(B)	84.0 ^(B)
130	O lb		65.5 ⁽¹⁰⁾		72.9 ⁽¹¹⁾		80.2 ⁽¹¹⁾	87.3 ^(A)	87.3 ^(A)	83.7 ^(A)	83.7 ^(A)	79.8 ^(A)	79.8 ^(A)	76.9 ^(A)	76.9 ^(A)	74.1 ^(A)	74.1 ^(A)	70.5 ^(A)	70.5 ^(A)	67.7 ^(A)	67.7 ^(A)	65.2 ^(A)	65.2 ^(A)	62.4 ^(A)	62.4 ^(A)	62.4 ^(A)	62.4 ^(A)	62.4 ^(A)
130	B		291 ⁽¹⁰⁾		270 ^(B)		250 ^(B)	182 ^(B)	227 ⁽²⁾	167 ^(B)	202 ⁽²⁾	156 ^(B)	181 ⁽²⁾	144 ^(B)	161 ^(C)	132 ^(B)	143 ^(C)	120 ^(B)	125 ⁽²⁾	107 ^(B)	107 ^(B)	95.1 ^(B)	95.1 ^(B)	82.6 ^(B)	82.6 ^(B)	82.6 ^(B)	82.6 ^(B)	82.6 ^(B)
130	BW		279 ⁽⁹⁾		264 ⁽¹⁾		246 ⁽¹⁾	177 ^(B)	224 ^(B)	162 ^(B)	199 ⁽²⁾	152 ^(B)	178 ⁽²⁾	141 ^(B)	158 ⁽²⁾	130 ^(B)	142 ^(C)	118 ^(B)	123 ⁽²⁾	106 ^(B)	106 ^(B)	94.8 ^(B)	94.8 ^(B)	82.7 ^(B)	82.7 ^(B)	82.7 ^(B)	82.7 ^(B)	82.7 ^(B)
140	O lb		54.9 ⁽¹⁰⁾		60.2 ⁽¹¹⁾		66.5 ⁽¹¹⁾	74.5 ^(B)	74.5 ^(B)	76.2 ^(A)	76.2 ^(A)	73.0 ^(A)	73.0 ^(A)	70.2 ^(A)	70.2 ^(A)	67.5 ^(A)	67.5 ^(A)	63.9 ^(A)	63.9 ^(A)	61.2 ^(A)	61.2 ^(A)	58.9 ^(A)	58.9 ^(A)	56.2 ^(A)	56.2 ^(A)	56.2 ^(A)	56.2 ^(A)	56.2 ^(A)
140	B		268 ⁽¹⁰⁾		262 ⁽¹⁰⁾		239 ^(B)	173 ^(B)	219 ⁽³⁾	163 ^(B)	197 ^(B)	148 ^(B)	178 ⁽²⁾	138 ^(B)	159 ⁽²⁾	128 ^(B)	141 ⁽²⁾	116 ^(B)	125 ^(C)	105 ^(B)	109 ^(C)	93.5 ^(B)	93.5 ^(B)	81.2 ^(B)	81.2 ^(B)	81.2 ^(B)	81.2 ^(B)	81.2 ^(B)
140	BW		260 ⁽⁹⁾		250 ⁽⁴⁾		236 ⁽¹⁾	165 ^(B)	216 ⁽²⁾	158 ^(B)	190 ^(B)	144 ^(B)	177 ^(B)	135 ^(B)	157 ⁽²⁾	125 ^(B)	140 ⁽²⁾	114 ^(B)	124 ^(C)	103 ^(B)	109 ^(C)	92.3 ^(B)	92.3 ^(B)	81.8 ^(B)	81.8 ^(B)	81.8 ^(B)	81.8 ^(B)	81.8 ^(B)
150	O lb		44.3 ⁽¹⁰⁾		50.7 ⁽¹⁰⁾		56.3 ⁽¹¹⁾		62.8 ⁽¹¹⁾	68.9 ^(A)	68.9 ^(A)	66.5 ^(A)	66.5 ^(A)	64.3 ^(A)	64.3 ^(A)	61.6 ^(A)	61.6 ^(A)	58.2 ^(A)	58.2 ^(A)	55.6 ^(A)	55.6 ^(A)	53.5 ^(A)	53.5 ^(A)	50.9 ^(A)	50.9 ^(A)	50.9 ^(A)	50.9 ^(A)	50.9 ^(A)
150	B		244 ⁽¹⁰⁾		244 ⁽¹⁰⁾		231 ^(B)		211 ^(B)	154 ^(B)	194 ^(B)	145 ^(B)	175 ^(B)	132 ^(B)	156 ⁽²⁾	123 ^(B)	139 ⁽²⁾	112 ^(B)	123 ^(C)	102 ^(B)	108 ^(C)	91.6 ^(B)	91.6 ^(B)	79.3 ^(B)	79.3 ^(B)	79.3 ^(B)	79.3 ^(B)	79.3 ^(B)
150	BW		240 ⁽⁹⁾		236 ⁽¹⁾		226 ⁽¹⁾		209 ⁽²⁾	149 ^(B)	191 ⁽²⁾	141 ^(B)																

SDWB/BW

S 256

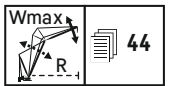
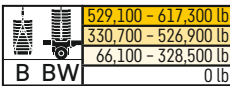


		S 256 ft																									
ft	ft	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft			
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax
45	0 lb B BW			234 ^(A)	234 ^(A)																						
50	0 lb B BW	224 ^(B)	224 ^(B)	229 ^(A)	234 ^(A)	220 ^(A)	220 ^(A)																				
60	0 lb B BW	190 ^(B)	190 ^(B)	195 ^(A)	195 ^(A)	187 ^(A)	187 ^(A)	180 ^(A)	180 ^(A)	170 ^(A)	170 ^(A)																
70	0 lb B BW	164 ^(B)	164 ^(B)	169 ^(A)	169 ^(A)	162 ^(A)	162 ^(A)	156 ^(A)	156 ^(A)	150 ^(A)	150 ^(A)	144 ^(A)	144 ^(A)	133 ^(A)	133 ^(A)												
80	0 lb B BW	144 ^(B)	144 ^(B)	149 ^(A)	149 ^(A)	143 ^(A)	143 ^(A)	137 ^(A)	137 ^(A)	132 ^(A)	132 ^(A)	126 ^(A)	126 ^(A)	122 ^(A)	122 ^(A)	114 ^(A)	114 ^(A)	102 ^(A)	102 ^(A)								
90	0 lb B BW	124 ^(B)	124 ^(B)	132 ^(A)	132 ^(A)	127 ^(A)	127 ^(A)	122 ^(A)	122 ^(A)	117 ^(A)	117 ^(A)	112 ^(A)	112 ^(A)	108 ^(A)	108 ^(A)	105 ^(A)	105 ^(A)	97.8 ^(A)	97.8 ^(A)	87.2 ^(A)	87.2 ^(A)	77.6 ^(A)	77.6 ^(A)				
100	0 lb B BW	107 ^(B)	107 ^(B)	111 ^(B)	111 ^(B)	114 ^(A)	114 ^(A)	109 ^(A)	109 ^(A)	104 ^(A)	104 ^(A)	99.8 ^(A)	99.8 ^(A)	96.8 ^(A)	96.8 ^(A)	93.4 ^(A)	93.4 ^(A)	89.0 ^(A)	89.0 ^(A)	82.2 ^(A)	82.2 ^(A)	75.2 ^(A)	75.2 ^(A)	66.1 ^(A)	66.1 ^(A)	66.1 ^(A)	66.1 ^(A)
110	0 lb B BW	87.0 ^(C)	87.0 ^(C)	97.9 ^(B)	97.9 ^(B)	103 ^(A)	103 ^(A)	98.6 ^(A)	98.6 ^(A)	94.0 ^(A)	94.0 ^(A)	89.8 ^(A)	89.8 ^(A)	86.8 ^(A)	86.8 ^(A)	83.5 ^(A)	83.5 ^(A)	79.9 ^(A)	79.9 ^(A)	76.7 ^(A)	76.7 ^(A)	72.8 ^(A)	72.8 ^(A)	64.3 ^(A)	64.3 ^(A)	64.3 ^(A)	64.3 ^(A)
120	0 lb B BW	73.6 ^(B)	73.6 ^(B)	82.9 ^(B)	82.9 ^(B)	87.2 ^(A)	87.2 ^(A)	89.8 ^(A)	89.8 ^(A)	85.3 ^(A)	85.3 ^(A)	81.3 ^(A)	81.3 ^(A)	78.4 ^(A)	78.4 ^(A)	75.3 ^(A)	75.3 ^(A)	71.6 ^(A)	71.6 ^(A)	68.9 ^(A)	68.9 ^(A)	66.3 ^(A)	66.3 ^(A)	62.1 ^(A)	62.1 ^(A)	62.1 ^(A)	62.1 ^(A)
130	0 lb B BW	60.3 ^(B)	60.3 ^(B)	69.2 ^(B)	69.2 ^(B)	76.2 ^(B)	76.2 ^(B)	82.2 ^(A)	82.2 ^(A)	77.8 ^(A)	77.8 ^(A)	73.8 ^(A)	73.8 ^(A)	71.2 ^(A)	71.2 ^(A)	68.3 ^(A)	68.3 ^(A)	64.7 ^(A)	64.7 ^(A)	62.0 ^(A)	62.0 ^(A)	59.8 ^(A)	59.8 ^(A)	56.4 ^(A)	56.4 ^(A)	56.4 ^(A)	56.4 ^(A)
140	0 lb B BW	50.1 ^(B)	50.1 ^(B)	57.8 ^(B)	57.8 ^(B)	64.2 ^(B)	64.2 ^(B)	69.7 ^(B)	69.7 ^(B)	71.3 ^(A)	71.3 ^(A)	67.5 ^(A)	67.5 ^(A)	64.9 ^(A)	64.9 ^(A)	62.0 ^(A)	62.0 ^(A)	58.6 ^(A)	58.6 ^(A)	56.0 ^(A)	56.0 ^(A)	53.9 ^(A)	53.9 ^(A)	50.8 ^(A)	50.8 ^(A)	50.8 ^(A)	50.8 ^(A)
150	0 lb B BW	41.5 ^(B)	41.5 ^(B)	47.1 ^(B)	47.1 ^(B)	54.2 ^(B)	54.2 ^(B)	59.8 ^(B)	59.8 ^(B)	65.8 ^(A)	65.8 ^(A)	61.8 ^(A)	61.8 ^(A)	59.3 ^(A)	59.3 ^(A)	56.6 ^(A)	56.6 ^(A)	53.3 ^(A)	53.3 ^(A)	50.6 ^(A)	50.6 ^(A)	48.6 ^(A)	48.6 ^(A)	45.9 ^(A)	45.9 ^(A)	45.9 ^(A)	45.9 ^(A)
160	0 lb B BW	33.0 ^(B)	33.0 ^(B)	38.7 ^(B)	38.7 ^(B)	44.1 ^(B)	44.1 ^(B)	49.9 ^(B)	49.9 ^(B)	55.3 ^(B)	55.3 ^(B)	57.0 ^(A)	57.0 ^(A)	54.4 ^(A)	54.4 ^(A)	51.8 ^(A)	51.8 ^(A)	48.5 ^(A)	48.5 ^(A)	46.2 ^(A)	46.2 ^(A)	44.0 ^(A)	44.0 ^(A)	41.5 ^(A)	41.5 ^(A)	41.5 ^(A)	41.5 ^(A)
170	0 lb B BW	24.4 ^(B)	24.4 ^(B)	31.5 ^(B)	31.5 ^(B)	35.2 ^(B)	35.2 ^(B)	42.1 ^(B)	42.1 ^(B)	46.3 ^(B)	46.3 ^(B)	52.2 ^(A)	52.2 ^(A)	50.1 ^(A)	50.1 ^(A)	47.6 ^(A)	47.6 ^(A)	44.3 ^(A)	44.3 ^(A)	41.8 ^(A)	41.8 ^(A)	39.9 ^(A)	39.9 ^(A)	37.5 ^(A)	37.5 ^(A)	37.5 ^(A)	37.5 ^(A)
180	0 lb B BW	185 ^(B)	185 ^(B)	24.0 ^(B)	24.0 ^(B)	28.5 ^(B)	28.5 ^(B)	33.3 ^(B)	33.3 ^(B)	37.8 ^(B)	37.8 ^(B)	43.3 ^(B)	43.3 ^(B)	45.9 ^(A)	45.9 ^(A)	43.7 ^(A)	43.7 ^(A)	40.5 ^(A)	40.5 ^(A)	38.1 ^(A)	38.1 ^(A)	36.2 ^(A)	36.2 ^(A)	33.8 ^(A)	33.8 ^(A)	33.8 ^(A)	33.8 ^(A)
190	0 lb B BW	172 ^(B)	172 ^(B)	17.0 ^(B)	17.0 ^(B)	22.3 ^(B)	22.3 ^(B)	25.8 ^(B)	25.8 ^(B)	32.1 ^(B)	32.1 ^(B)	35.1 ^(B)	35.1 ^(B)	41.8 ^(A)	41.8 ^(A)	40.0 ^(A)	40.0 ^(A)	37.0 ^(A)	37.0 ^(A)	34.7 ^(A)	34.7 ^(A)	32.7 ^(A)	32.7 ^(A)	30.5 ^(A)	30.5 ^(A)	30.5 ^(A)	30.5 ^(A)
200	0 lb B BW	160 ^(B)	160 ^(B)	16.0 ^(B)	16.0 ^(B)	16.0 ^(B)	16.0 ^(B)	24.1 ^(B)	24.1 ^(B)	28.0 ^(B)	28.0 ^(B)	34.2 ^(B)	34.2 ^(B)	36.5 ^(A)	36.5 ^(A)	34.0 ^(A)	34.0 ^(A)	31.7 ^(A)	31.7 ^(A)	29.8 ^(A)	29.8 ^(A)	27.5 ^(A)	27.5 ^(A)	25.4 ^(A)	25.4 ^(A)	25.4 ^(A)	25.4 ^(A)
220	0 lb B BW	136 ^(B)	136 ^(B)	141 ^(B)	141 ^(B)	131 ^(B)	131 ^(B)	120 ^(B)	120 ^(B)	119 ^(B)	119 ^(B)	109 ^(B)	109 ^(B)	104 ^(B)	104 ^(B)	101 ^(B)	101 ^(B)	98.3 ^(A)	98.3 ^(A)	96.2 ^(A)	96.2 ^(A)	94.7 ^(A)	94.7 ^(A)	92.3 ^(A)	92.3 ^(A)	92.3 ^(A)	92.3 ^(A)
240	0 lb B BW	117 ^(B)	117 ^(B)	120 ^(B)	120 ^(B)	123 ^(B)	123 ^(B)	121 ^(B)	121 ^(B)	112 ^(B)	112 ^(B)	112 ^(B)	112 ^(B)	104 ^(B)	104 ^(B)	105 ^(B)	105 ^(B)	102 ^(A)	102 ^(A)	100 ^(A)	100 ^(A)	98.4 ^(A)	98.4 ^(A)	96.1 ^(A)	96.1 ^(A)	96.1 ^(A)	96.1 ^(A)
260	0 lb B BW			104 ^(B)	104 ^(B)	106 ^(B)	106 ^(B)	108 ^(B)	108 ^(B)	105 ^(B)	105 ^(B)	97.1 ^(B)	97.1 ^(B)	90.0 ^(B)	90.0 ^(B)	82.5 ^(B)	82.5 ^(B)	81.4 ^(B)	81.4 ^(B)	77.6 ^(B)	77.6 ^(B)	75.2 ^(B)	75.2 ^(B)	72.6 ^(B)	72.6 ^(B)	72.6 ^(B)	72.6 ^(B)
280	0 lb B BW					91.8 ^(B)	91.8 ^(B)	94.0 ^(B)	94.0 ^(B)	94.3 ^(B)	94.3 ^(B)	92.4 ^(B)	92.4 ^(B)	83.7 ^(B)	83.7 ^(B)	78.1 ^(B)	78.1 ^(B)	70.7 ^(B)	70.7 ^(B)	63.1 ^(B)	63.1 ^(B)	55.9 ^(B)	55.9 ^(B)	51.2 ^(B)	51.2 ^(B)	51.2 ^(B)	51.2 ^(B)
300	0 lb B BW							81.4 ^(B)	81.4 ^(B)	82.9 ^(B)	82.9 ^(B)	83.5 ^(B)	83.5 ^(B)	79.3 ^(B)	79.3 ^(B)	72.8 ^(B)	72.8 ^(B)	67.0 ^(B)	67.0 ^(B)	61.0 ^(B)	61.0 ^(B)	54.3 ^(B)	54.3 ^(B)	47.4 ^(B)	47.4 ^(B)	47.4 ^(B)	47.4 ^(B)
320	0 lb B BW									71.7 ^(B)	71.7 ^(B)	73.3 ^(B)	73.3 ^(B)	72.5 ^(B)	72.5 ^(B)	69.3 ^(B)	69.3 ^(B)	63.1 ^(B)	63.1 ^(B)	58.0 ^(B)	58.0 ^(B)	52.5 ^(B)	52.5 ^(B)	46.1 ^(B)	46.1 ^(B)	46.1 ^(B)	46.1 ^(B)
340	0 lb B BW											63.2 ^(B)	63.2 ^(B)	63.7 ^(B)	63.7 ^(B)	63.4 ^(B)	63.4 ^(B)	59.8 ^(B)	59.8 ^(B)	55.0 ^(B)	55.0 ^(B)	50.1 ^(B)	50.1 ^(B)	44.8 ^(B)	44.8 ^(B)	44.8 ^(B)	44.8 ^(B)
360	0 lb B BW													55.5 ^(B)	55.5 ^(B)	55.7 ^(B)	55.7 ^(B)	54.5 ^(B)	54.5 ^(B)	51.9 ^(B)	51.9 ^(B)	47.6 ^(B)	47.6 ^(B)	42.7 ^(B)	42.7 ^(B)	42.7 ^(B)	42.7 ^(B)
380	0 lb B BW															48.9 ^(B)	48.9 ^(B)	47.8 ^(B)	47.8 ^(B)	44.7 ^(B)	44.7 ^(B)	43.8 ^(B)	43.8 ^(B)	41.0 ^(B)	41.0 ^(B)	41.0 ^(B)	41.0 ^(B)
400	0 lb B BW																	42.3 ^(B)	42.3 ^(B)	40.3 ^(B)	40.3 ^(B)	38.2 ^(B)	38.2 ^(B)	38.2 ^(B)	38.2 ^(B)	38.2 ^(B)	38.2 ^(B)
420	0 lb B BW																			36.3 ^(B)	36.3 ^(B)	34.4 ^(B)	34.4 ^(B)	34.3 ^(B)	34.3 ^(B)	34.3 ^(B)	34.3 ^(B)
440	0 lb B BW																					29.4 ^(B)	29.4 ^(B)	26.5 ^(B)	26.5 ^(B)	26.5 ^(B)	26.5 ^(B)
460	0 lb B BW																									18.6 ^(B)	18.6 ^(B)

Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°

SDWB/BW

S 276



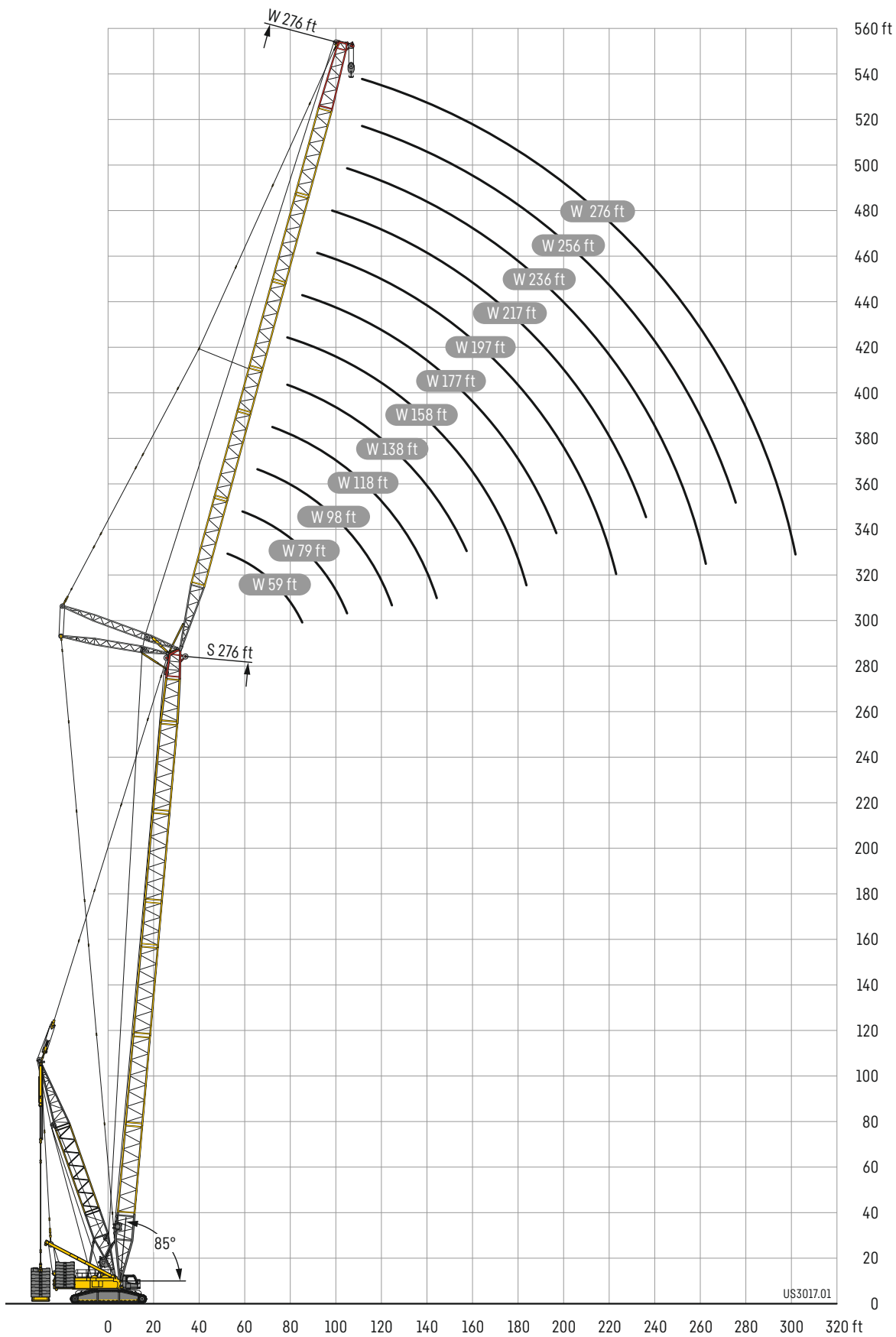
		S 276 ft																										
ft	0 lb B BW	W 59 ft		W 79 ft		W 98 ft		W 118 ft		W 138 ft		W 158 ft		W 177 ft		W 197 ft		W 217 ft		W 236 ft		W 256 ft		W 276 ft				
		87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	87/85	Wmax	
45				224 ^(A)	224 ^(A)																							
50				218 ^(A)	218 ^(A)	196 ^(A)	196 ^(A)																					
60		182 ^(B)	182 ^(B)	187 ^(A)	187 ^(A)	180 ^(A)	180 ^(A)	167 ^(A)	167 ^(A)	151 ^(A)	151 ^(A)																	
70		158 ^(B)	158 ^(B)	163 ^(A)	163 ^(A)	156 ^(A)	156 ^(A)	150 ^(A)	150 ^(A)	143 ^(A)	143 ^(A)	130 ^(A)	130 ^(A)	117 ^(A)	117 ^(A)													
80		139 ^(B)	139 ^(B)	143 ^(A)	143 ^(A)	137 ^(A)	137 ^(A)	132 ^(A)	132 ^(A)	126 ^(A)	126 ^(A)	121 ^(A)	121 ^(A)	112 ^(A)	112 ^(A)	101 ^(A)	101 ^(A)	89 ^(A)	89 ^(A)									
90		124 ^(B)	124 ^(B)	128 ^(A)	128 ^(A)	122 ^(A)	122 ^(A)	117 ^(A)	117 ^(A)	112 ^(A)	112 ^(A)	107 ^(A)	107 ^(A)	104 ^(A)	104 ^(A)	96 ^(A)	96 ^(A)	86 ^(A)	86 ^(A)	76 ^(A)	76 ^(A)							
100		104 ^(B)	104 ^(B)	116 ^(A)	116 ^(A)	110 ^(A)	110 ^(A)	105 ^(A)	105 ^(A)	101 ^(A)	101 ^(A)	95 ^(A)	95 ^(A)	92 ^(A)	92 ^(A)	89 ^(A)	89 ^(A)	82 ^(A)	82 ^(A)	73 ^(A)	73 ^(A)							
110		85 ^(B)	85 ^(B)	96 ^(A)	96 ^(A)	91 ^(A)	91 ^(A)	86 ^(A)	86 ^(A)	82 ^(A)	82 ^(A)	78 ^(A)	78 ^(A)	75 ^(A)	75 ^(A)	72 ^(A)	72 ^(A)	68 ^(A)	68 ^(A)	65 ^(A)	65 ^(A)							
120		71 ^(B)	71 ^(B)	80 ^(A)	80 ^(A)	76 ^(A)	76 ^(A)	72 ^(A)	72 ^(A)	68 ^(A)	68 ^(A)	64 ^(A)	64 ^(A)	61 ^(A)	61 ^(A)	58 ^(A)	58 ^(A)	55 ^(A)	55 ^(A)	52 ^(A)	52 ^(A)							
130		58 ^(B)	58 ^(B)	66 ^(A)	66 ^(A)	63 ^(A)	63 ^(A)	60 ^(A)	60 ^(A)	57 ^(A)	57 ^(A)	54 ^(A)	54 ^(A)	51 ^(A)	51 ^(A)	48 ^(A)	48 ^(A)	45 ^(A)	45 ^(A)	42 ^(A)	42 ^(A)							
140		47 ^(B)	47 ^(B)	55 ^(A)	55 ^(A)	52 ^(A)	52 ^(A)	49 ^(A)	49 ^(A)	46 ^(A)	46 ^(A)	43 ^(A)	43 ^(A)	40 ^(A)	40 ^(A)	37 ^(A)	37 ^(A)	34 ^(A)	34 ^(A)	31 ^(A)	31 ^(A)							
150		39 ^(B)	39 ^(B)	45 ^(A)	45 ^(A)	42 ^(A)	42 ^(A)	39 ^(A)	39 ^(A)	36 ^(A)	36 ^(A)	33 ^(A)	33 ^(A)	30 ^(A)	30 ^(A)	27 ^(A)	27 ^(A)	24 ^(A)	24 ^(A)	21 ^(A)	21 ^(A)							
160		31 ^(B)	31 ^(B)	35 ^(A)	35 ^(A)	32 ^(A)	32 ^(A)	29 ^(A)	29 ^(A)	26 ^(A)	26 ^(A)	23 ^(A)	23 ^(A)	20 ^(A)	20 ^(A)	17 ^(A)	17 ^(A)	14 ^(A)	14 ^(A)	11 ^(A)	11 ^(A)							
170		23 ^(B)	23 ^(B)	29 ^(A)	29 ^(A)	26 ^(A)	26 ^(A)	23 ^(A)	23 ^(A)	20 ^(A)	20 ^(A)	17 ^(A)	17 ^(A)	14 ^(A)	14 ^(A)	11 ^(A)	11 ^(A)	8 ^(A)	8 ^(A)	5 ^(A)	5 ^(A)							
180		15 ^(B)	15 ^(B)	22 ^(A)	22 ^(A)	19 ^(A)	19 ^(A)	16 ^(A)	16 ^(A)	13 ^(A)	13 ^(A)	10 ^(A)	10 ^(A)	7 ^(A)	7 ^(A)	4 ^(A)	4 ^(A)	1 ^(A)	1 ^(A)									
190		15 ^(B)	15 ^(B)	15 ^(A)	15 ^(A)	12 ^(A)	12 ^(A)	9 ^(A)	9 ^(A)	6 ^(A)	6 ^(A)	3 ^(A)	3 ^(A)															
200		15 ^(B)	15 ^(B)	8 ^(A)	8 ^(A)	5 ^(A)	5 ^(A)	2 ^(A)	2 ^(A)																			
220		13 ^(B)	13 ^(B)	12 ^(A)	12 ^(A)	11 ^(A)	11 ^(A)	10 ^(A)	10 ^(A)	9 ^(A)	9 ^(A)	8 ^(A)	8 ^(A)	7 ^(A)	7 ^(A)	6 ^(A)	6 ^(A)	5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)							
240		11 ^(B)	11 ^(B)	11 ^(A)	11 ^(A)	10 ^(A)	10 ^(A)	9 ^(A)	9 ^(A)	8 ^(A)	8 ^(A)	7 ^(A)	7 ^(A)	6 ^(A)	6 ^(A)	5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)							
260		9 ^(B)	9 ^(B)	10 ^(A)	10 ^(A)	9 ^(A)	9 ^(A)	8 ^(A)	8 ^(A)	7 ^(A)	7 ^(A)	6 ^(A)	6 ^(A)	5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)							
280				8 ^(A)	8 ^(A)	7 ^(A)	7 ^(A)	6 ^(A)	6 ^(A)	5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)									
300						7 ^(A)	7 ^(A)	6 ^(A)	6 ^(A)	5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)									
320								6 ^(A)	6 ^(A)	5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)									
340										5 ^(A)	5 ^(A)	4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)									
360												4 ^(A)	4 ^(A)	3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)									
380													3 ^(A)	3 ^(A)	2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)										
400														2 ^(A)	2 ^(A)	1 ^(A)	1 ^(A)											
420															1 ^(A)	1 ^(A)												
440																												
460																												

Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°

Lifting heights

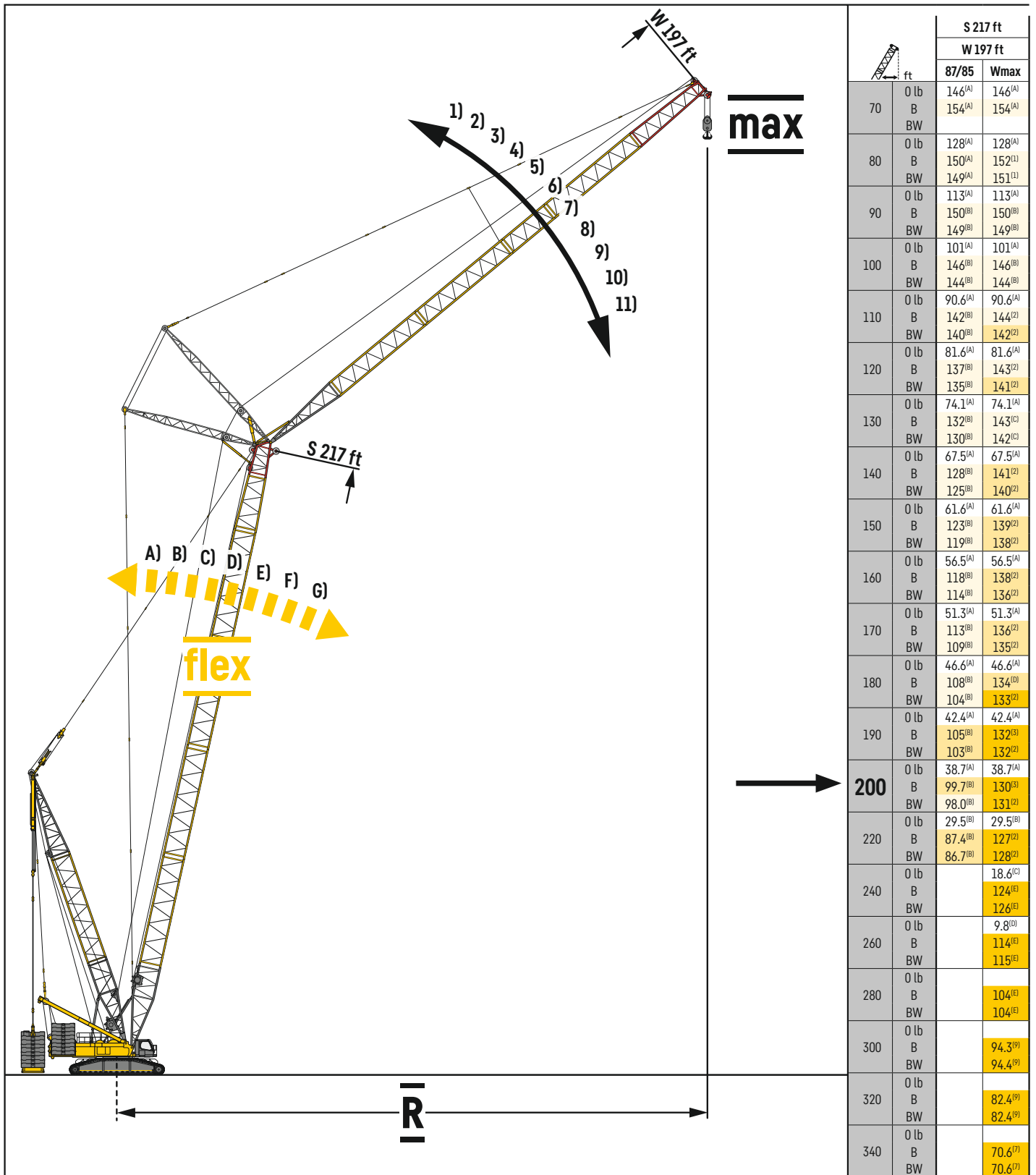
Hauteurs de levage

SDWB

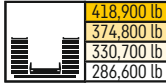


Example Exemple

Wmax 87/85



Intermediate angle - angle intermédiaire 1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°
 Main boom angle - angle de la flèche principale A) 87°; B) 85°; C) 80°; D) 75°; E) 65°; F) 55°; G) 45°

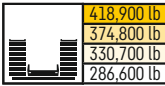


ft	SL6 79 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
28	271																28
30	271																30
32	271	271															32
34	271	267		242													34
36	271	258		233													36
38	271	249		224													38
40	271	241	157	216	192		185										40
45	264	224	149	198	178		169			153							45
50	244	209	142	183	166		156	141		141							50
60	211	184	129	158	146	107	134	123		121	110		104		98.2		60
70	186	164	119	140	130	98	118	109	86.5	105	97.3		91		86		70
80	167	149	112	125	118	90.6	105	98.2	79.4	93.4	87	73	80.8	67.6	75.9		80
90	152	137	106	114	108	84.5	94.7	89.1	73.4	83.5	78.5	67.1	72.4	61.7	67.7	57.4	90
100	139	127	101	104	99.3	79.4	86.1	81.6	68.3	75.6	71.6	61.9	65.5	56.6	61.2	52.5	100
110				95.7	92.3	75.5	79	75.4	64.1	68.9	65.7	57.6	59.9	52.3	55.6	48.2	110
120				89	86.7	72.5	72.7	69.9	60.5	63.2	60.6	53.9	54.9	48.6	50.7	44.6	120
130							67.6	65.5	57.6	58.4	56.1	50.6	50.6	45.2	46.5	41.3	130
140							63.3	61.6	55.3	54.2	52.4	47.9	46.9	42.4	42.8	38.4	140
150										50.6	49.1	45.6	43.7	39.9	39.7	35.9	150
160										47.5	46.4	43.7	40.9	37.7	36.9	33.7	160
170													38.4	35.9	34.5	31.7	170
180													36.3	34.4	32.3	30	180
190															30.4	28.5	190
200																27.3	200

ft	SL6 89 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
28	271																28
30	271																30
32	271	271															32
34	271	270															34
36	271	262		235													36
38	271	254		227													38
40	271	246	159	219	194												40
45	270	229	151	202	180		172										45
50	253	214	144	187	168		158	142		144							50
60	220	190	132	163	149	108	137	125		124	111		104		98.7		60
70	195	170	122	145	134	99.5	121	111	87.2	109	98.9		92.1		86.7		70
80	176	155	114	130	122	92.4	108	101	80.6	96.5	88.8	73.6	82.3	68	77.2		80
90	160	143	108	118	112	86.4	98	91.7	74.7	87	80.4	67.8	74.1	62.2	69.2	57.8	90
100	147	133	104	108	103	81.4	89.1	84.3	69.8	78.8	73.4	63	67.2	57.3	62.5	52.9	100
110	135	125	100	100	95.9	77.3	82.1	78	65.6	71.9	67.6	58.7	61.6	53.3	56.9	48.8	110
120				93.1	90	74.1	75.8	72.6	61.9	66.3	62.5	55.1	56.7	49.5	52.3	45.3	120
130				87.5	85.2	71.8	70.6	67.9	58.9	61.3	58.2	51.8	52.3	46.3	48	42.1	130
140							66	64	56.5	57	54.3	49.1	48.6	43.4	44.3	39.3	140
150								60.7	54.8	53.3	51	46.7	45.3	40.9	41.1	36.8	150
160										50	48.2	44.8	42.4	38.8	38.3	34.5	160
170												43.3	39.9	36.9	35.8	32.6	170
180													37.7	35.3	33.6	30.9	180
190														34	31.6	29.4	190
200															29.9	28	200

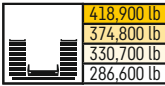
SL6F

SL6 98 - 108



ft	SL6 98 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
28	271																28
30	271																30
32	271	271															32
34	271	271															34
36	271	265		237													36
38	271	257		229													38
40	271	250		222													40
45	271	233	152	205	182		173										45
50	261	219	145	191	170		160	143		145							50
60	228	195	134	167	152	109	140	127		126	113			105		99.1	60
70	203	176	125	149	137	101	124	114	88	111	100			93.2		87.5	70
80	183	161	117	134	125	93.8	111	103	81.2	99.2	90.3	74.1		83.5	68.2	78.1	80
90	167	149	111	122	115	88	101	94	75.7	89.3	82.1	68.5	75.6	62.6	70.2	58.1	90
100	152	138	106	112	106	83.1	92.3	86.7	71	81.1	75.3	63.7	68.9	58	63.7	53.5	100
110	135	130	102	104	99.3	79	84.8	80	66.8	74.3	69.4	59.7	63	53.8	58.4	49.4	110
120	120	120	99.4	97	93.2	75.6	78.7	74.8	63.3	68.5	64.3	56.1	58.1	50.3	53.5	46	120
130				91	88.1	73.1	73.4	70.2	60.3	63.7	59.9	52.9	53.9	47.2	49.3	42.8	130
140					84	71.3	68.8	66.2	57.7	59.1	56.2	50.2	50.2	44.4	45.7	40.1	140
150							64.8	62.7	55.7	55.4	52.8	47.8	46.8	42	42.5	37.6	150
160									54.3	52	49.9	45.8	43.9	39.8	39.7	35.4	160
170										49.1	47.4	44.1	41.3	37.8	37.1	33.4	170
180												42.8	39.1	36.2	34.8	31.7	180
190													37.1	34.8	32.8	30.2	190
200														33.7	31	28.8	200
220																26.7	220

ft	SL6 108 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
30	271																30
32	271																32
34	271	271															34
36	271	268															36
38	271	261		231													38
40	271	254		224													40
45	271	237	154	208	183		174										45
50	267	223	148	194	173		163	144		146							50
60	236	200	137	171	154	110	143	128		128	114		105			99.7	60
70	210	181	128	153	140	102	127	116	88.4	113	102		94			88.3	70
80	190	166	120	138	128	95.4	114	105	82	101	91.8	75.7	84.7			79.2	80
90	173	154	114	127	118	89.4	104	96.2	76.7	91.6	83.8	70.2	76.8	63.2	71.3	58.3	90
100	153	143	109	116	110	84.7	95	88.8	72.1	83.3	76.9	65.4	70.1	58.6	65.1	53.8	100
110	134	133	104	108	102	80.6	87.5	82.5	68	76.6	71.1	61.4	64.4	54.5	59.5	49.8	110
120	119	120	101	101	96.2	77.2	81.5	77	64.5	70.6	66	57.8	59.5	51	54.6	46.5	120
130		107	99.4	94.5	91	74.4	76	72.4	61.6	65.7	61.6	54.8	55.3	48	50.6	43.5	130
140				89.3	86.6	72.3	71.2	68.4	58.9	61.2	57.8	51.9	51.6	45.3	47	40.8	140
150						70.9	67.1	64.8	56.8	57.4	54.4	49.6	48.4	42.8	43.6	38.4	150
160							63.7	61.8	55.1	53.9	51.5	47.4	45.3	40.6	40.8	36.2	160
170									54	50.9	48.9	45.6	42.8	38.7	38.2	34.2	170
180										48.3	46.6	44.1	40.4	37.1	36	32.5	180
190													38.4	35.6	34	30.9	190
200													36.6	34.3	32.1	29.6	200
220																27.3	220

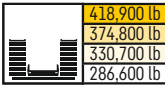


ft	SL6 118 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
30	271																30
32	271																32
34	271	271															34
36	271	270															36
38	271	263		233													38
40	271	256		228													40
45	271	241	155	212	185		175										45
50	270	227	149	198	175		164	145		147							50
60	242	204	139	176	157	111	145	129		129	114		106				60
70	217	186	130	158	142	103	129	117	88.8	115	103		94.8		89.3		70
80	197	171	122	143	131	96.5	117	107	82.7	103	93.4	76.2	85.8		80.3		80
90	175	158	116	131	121	91	107	98.1	77.6	93.8	85.3	70.9	77.9	63.6	72.6	58.7	90
100	153	147	111	121	112	86.1	97.8	91	73	85.5	78.6	66.2	71.5	59.1	66.1	54.4	100
110	134	134	106	112	105	82.1	90.2	84.6	69.1	78.6	72.7	62.1	65.8	55.2	60.7	50.4	110
120	119	119	103	105	99.1	78.6	84	79.1	65.6	72.8	67.7	58.7	60.9	51.7	55.8	47.1	120
130	106	106	100	98.4	93.8	75.7	78.6	74.5	62.7	67.6	63.2	55.7	56.7	48.8	51.7	44.1	130
140			96.7	92.9	89.2	73.3	73.9	70.4	60.1	63.2	59.4	53	52.9	46.1	48	41.4	140
150				87.4	85.3	71.7	69.6	66.8	57.8	59.3	56.1	50.5	49.7	43.7	44.9	39.1	150
160							65.8	63.6	56	55.9	53.1	48.4	46.8	41.5	42	36.9	160
170							62.7	61	54.6	52.8	50.3	46.6	44.1	39.6	39.5	34.9	170
180										50.1	48	45	41.7	37.8	37.1	33.2	180
190										47.7	46	43.7	39.6	36.4	35.1	31.7	190
200													37.8	35.1	33.2	30.3	200
220															30	27.9	220

ft	SL6 128 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
32	271																32
34	271																34
36	271	270															36
38	271	265															38
40	271	258		229													40
45	271	244	155	214	186		176										45
50	271	231	150	201	176		165			148							50
60	248	208	140	179	159	111	147	130		131	115						60
70	223	191	131	161	145	104	132	118	89.3	116	104		95.7		89.9		70
80	202	175	124	147	133	97.4	120	109	83.4	105	94.4	76.4	86.8		81.1		80
90	174	163	118	134	124	92.2	109	100	78.3	95.5	86.5	71.4	79.1	63.8	73.4	58.9	90
100	151	150	113	124	115	87.4	100	92.8	73.8	87.6	80	66.8	72.6	59.5	67.1	54.5	100
110	133	133	108	116	108	83.5	93	86.6	70.1	80.5	74.2	63.1	67.2	55.7	61.7	50.9	110
120	117	118	105	108	102	79.8	86.3	81.1	66.7	74.8	69.2	59.5	62.3	52.4	57.1	47.6	120
130	105	105	102	102	96.3	77.1	80.9	76.2	63.7	69.6	64.8	56.4	57.9	49.4	52.9	44.6	130
140	94.1	94.5	95.9	95.4	91.7	74.5	76.2	72.3	61.1	65.1	60.9	53.9	54.2	46.7	49.2	42	140
150				86.8	86.7	72.6	71.9	68.7	58.9	61.2	57.6	51.4	50.9	44.5	46	39.7	150
160				79	79.6	71.2	68.1	65.5	57	57.7	54.5	49.3	47.9	42.3	43.2	37.5	160
170							64.8	62.6	55.4	54.5	51.8	47.4	45.3	40.4	40.6	35.6	170
180							61.9	60.2	54.2	51.7	49.4	45.8	43	38.7	38.2	33.8	180
190										49.2	47.3	44.4	40.8	37.1	36.1	32.3	190
200										47.1	45.5	43.3	38.9	35.8	34.2	30.9	200
220													35.7	33.7	31	28.6	220
240															26.7		240

SL6F

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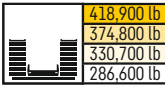


ft	SL6 138 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
32	271																32
34	271																34
36	271	271															36
38	271	267															38
40	271	260		229													40
45	271	247	156	215	187												45
50	271	234	150	202	177		166										50
60	253	212	141	181	160	111	148	131		131	115						60
70	229	194	132	164	147	104	133	120	89.5	118	104		96.1		90.2		70
80	202	179	125	150	136	98.3	121	110	83.9	107	95.5	76.8	87.4		81.7		80
90	173	167	120	137	126	93.1	111	102	79	97.1	87.8	71.7	80.1	64.1	74.3	58.9	90
100	150	151	115	127	117	88.7	103	94.5	74.6	89.2	81.2	67.4	73.7	60	68	54.8	100
110	132	132	110	119	110	84.7	95	88.4	70.8	82.5	75.5	63.6	68.3	56.2	62.7	51.1	110
120	117	117	106	111	104	81.3	88.7	82.8	67.4	76.4	70.6	60.3	63.4	53	58	48	120
130	104	104	102	104	98.7	78.3	83	78	64.7	71.3	66.1	57.2	59.1	50	53.9	45.2	130
140	93.1	93.7	95.4	95.1	93.4	75.8	78.2	73.9	62	66.7	62.3	54.6	55.5	47.4	50.3	42.6	140
150	84.1	84.4	85.9	86	86.6	73.6	73.8	70.4	59.8	62.9	58.9	52.2	52.1	45.1	47	40.3	150
160				78.2	78.8	72	70.1	67.1	57.8	59.2	55.9	50.1	49.1	43	44.1	38.1	160
170				71.2	71.8	70.8	66.7	64.3	56.2	56.2	53.2	48.3	46.5	41.1	41.6	36.2	170
180							63.6	61.7	54.9	53.3	50.7	46.6	44.1	39.4	39.3	34.5	180
190							60.4	59.4	54	50.7	48.6	45.1	41.9	37.8	37.1	32.9	190
200										48.5	46.6	43.9	40	36.5	35.2	31.5	200
220													36.7	34.2	31.8	29.1	220
240															29.1	27.2	240

ft	SL6 148 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
34	271																34
36	271																36
38	271	268															38
40	271	262															40
45	271	248	156	217													45
50	271	236	151	204	178		167										50
60	258	215	142	184	162	112	150	132		133	117						60
70	233	198	134	166	149	105	135	121	89.7	119	107		96.9		90.7		70
80	201	183	127	153	138	99.1	123	111	84.3	108	97.7	77	88.1		82.1		80
90	172	169	121	141	128	94	113	103	79.7	98.8	90	72.1	81	64.3	74.9	59.1	90
100	149	149	116	130	120	89.5	105	96.1	75.3	91	83.5	68	74.7	60.3	68.8	55	100
110	130	131	112	122	113	85.6	97	90	71.7	84.2	77.7	64.3	69.3	56.7	63.8	51.6	110
120	115	116	108	114	106	82.2	90.8	84.5	68.3	78.3	72.7	60.9	64.5	53.4	59.1	48.4	120
130	103	103	104	105	101	79.4	85.1	79.8	65.5	73	68.4	58	60.3	50.5	54.8	45.7	130
140	91.9	92.4	94.2	93.9	94.1	76.7	80.2	75.6	62.9	68.4	64.4	55.4	56.5	48	51.3	43.1	140
150	82.8	83.2	84.8	84.7	85.7	74.6	75.9	72	60.7	64.5	60.9	53.1	53.2	45.7	48	40.7	150
160		75.3	76.6	76.8	77.7	72.8	72.1	68.6	58.7	61	57.9	50.9	50.3	43.6	45.1	38.6	160
170				69.9	70.7	71.3	68.4	65.7	57	57.7	55.1	49	47.6	41.7	42.5	36.8	170
180						65.6	64.9	63	55.6	54.8	52.7	47.4	45.2	40	40.1	35	180
190							59.8	59.8	54.4	52.3	50.4	45.9	43.1	38.5	38.1	33.5	190
200									53.6	49.9	48.3	44.6	41.1	37.1	36.1	32.1	200
220													42.8	37.6	34.9	32.6	220
240															29.9	27.7	240
260																26.3	260

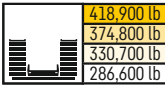
SL6F

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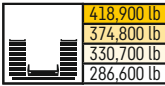
ft		SL6 158 ft																ft	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
34	34	271																34	
36	36	271																36	
38	38	271	268															38	
40	40	271	263															40	
45	45	271	250		218													45	
50	50	271	238	152	205	178		167										50	
60	60	262	217	143	185	163	112	151	133		133							60	
70	70	230	201	135	169	150	106	137	122	89.9	120	107						70	
80	80	199	186	128	155	139	99.9	125	112	84.6	109	98.3	76.9	88.8			82.7	80	
90	90	171	170	122	143	130	95	115	105	80.1	100	90.8	72.4	81.6	64.5		75.5	90	
100	100	148	148	117	133	122	90.5	106	97.4	76	92.2	84.6	68.4	75.5	60.6		69.6	100	
110	110	129	130	113	124	115	86.7	99.2	91.2	72.3	85.5	78.9	64.8	70.2	57		64.5	110	
120	120	114	115	109	115	109	83.4	92.6	86	69.2	79.8	73.9	61.6	65.5	53.9		59.9	120	
130	130	101	102	103	104	103	80.4	86.9	81.3	66.2	74.6	69.7	58.7	61.3	51.1		55.8	130	
140	140	91	91.6	93.6	93.1	94.1	77.9	82.1	77.2	63.7	70	65.7	56	57.6	48.5		52.1	140	
150	150	81.9	82.2	84.1	83.8	84.7	75.6	77.8	73.4	61.4	65.9	62.3	53.7	54.3	46.3		48.9	150	
160	160	74.1	74.4	75.9	76	76.9	73.6	73.7	70.3	59.6	62.4	59.2	51.7	51.2	44.2		46	160	
170	170			68.8	69.1	69.7	70.7	69.6	67.2	57.7	59.2	56.3	49.8	48.6	42.4		43.5	170	
180	180				62.9	63.5	65	64.3	63.9	56.3	56.3	53.8	48.1	46.2	40.6		41	180	
190	190						59.2	58.7	59.4	55	53.6	51.5	46.6	44	39.2		39	190	
200	200							53.7	54.4	53.7	51.2	49.5	45.2	42.1	37.8		36.9	200	
220	220										46.2	45.8	43.2	38.5	35.4		33.5	220	
240	240													35.8	33.6		30.7	240	
260	260																26.6	260	

ft		SL6 167 ft																ft	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
36	36	271																36	
38	38	271																38	
40	40	271	264															40	
45	45	271	251		218													45	
50	50	271	240	152	207	179		168										50	
60	60	263	220	144	187	164	112	151	133		134							60	
70	70	226	203	136	171	152	106	138	123	90.1	121	108		97.3			91.1	70	
80	80	196	189	130	157	141	100	126	113	85	111	99.1	77.2	89.5			83.2	80	
90	90	170	171	124	146	132	95.8	117	106	80.6	102	92	72.8	82.5	64.7		76.2	90	
100	100	146	147	119	136	124	91.4	108	99	76.5	93.8	85.6	68.7	76.2	60.8		70.4	100	
110	110	128	129	114	126	117	87.6	101	92.8	73	87.1	79.9	65.3	71.1	57.3		65.2	110	
120	120	113	113	111	115	111	84.3	94.5	87.5	69.8	81.2	75.2	62.1	66.4	54.3		60.6	120	
130	130	100	101	103	102	103	81.4	89	82.7	67.1	76	70.7	59.3	62.2	51.6		56.6	130	
140	140	89.6	90	92.7	91.7	92.9	78.8	84	78.6	64.5	71.5	66.9	56.7	58.6	49.1		53.1	140	
150	150	80.6	81	83.1	82.6	83.7	76.4	79.5	75	62.3	67.3	63.3	54.4	55.3	46.8		49.9	150	
160	160	72.7	73.1	74.9	74.8	75.6	74.3	74.7	71.6	60.2	63.8	60.2	52.3	52.3	44.8		46.9	160	
170	170	65.9	66.1	67.8	67.7	68.5	69.9	68.9	68.2	58.5	60.7	57.5	50.4	49.6	42.9		44.3	170	
180	180				61.6	62.4	64	62.7	63.6	57	57.6	54.9	48.8	47.2	41.3		41.9	180	
190	190				56.3	56.9	58.2	57.1	58.2	55.6	54.9	52.6	47.3	45	39.7		39.7	190	
200	200							52.3	53.1	53.8	52.2	50.5	46	43	38.3		37.9	200	
220	220										44.9	45.7	43.7	39.6	35.9		34.4	220	
240	240													36.6	34		31.5	240	
260	260																29.1	260	



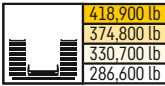
		SL6 177 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
36	ft	271																36	ft
38		271																38	
40		271	249															40	
45		269	240		202													45	
50		258	232	152	194	175		162										50	
60		238	217	143	179	163	112	149	132		132							60	
70		221	202	136	166	151	106	137	122		120	106		96.2			89.3	70	
80		193	190	130	155	141	100	126	113	84.5	110	98.4		88.5			82.1	80	
90		170	170	124	145	132	95.8	117	106	80.4	101	91.4	72.3	82	64		75.6	90	
100		147	148	119	135	124	91.7	109	99.1	76.6	93.7	85.4	68.6	76	60.3		69.9	54.9	100
110		128	129	115	127	117	88.1	102	93.2	73.1	87.4	80.1	65.2	71	57.1		65	51.8	110
120		113	114	112	115	112	84.8	95.3	88	70	81.7	75.4	62.2	66.6	54.2		60.5	48.8	120
130		101	102	104	103	104	81.9	89.8	83.4	67.3	76.8	71.2	59.4	62.6	51.5		56.8	46.2	130
140		90.1	90.9	93.2	92.2	93.1	79.3	85	79.3	64.9	72.2	67.3	56.9	58.9	49.1		53.2	43.9	140
150		81.2	81.6	83.9	83.1	84.1	77.1	80.5	75.7	62.6	68.2	63.9	54.7	55.7	47		50.1	41.7	150
160		73.4	73.6	75.7	75.3	76.1	75	75.3	72.4	60.7	64.6	60.9	52.7	52.7	45		47.2	39.7	160
170		66.6	66.8	68.5	68.2	69.2	71.1	69.1	69	59	61.5	58.2	50.8	50.2	43.1		44.6	38	170
180		60.6	60.8	62.3	62	62.9	64.8	62.9	64.1	57.5	58.5	55.7	49.1	47.8	41.5		42.3	36.3	180
190					56.6	57.3	58.8	57.4	58.4	56.1	55.8	53.4	47.7	45.6	40		40.2	34.8	190
200					51.7	52.3	53.6	52.5	53.3	54.2	53.1	51.3	46.4	43.7	38.7		38.4	33.4	200
220								44.1	44.7	45.8	45	45.9	44.1	40.1	36.3		34.9	31.1	220
240											38	38.7	40	37.2	34.4		32	29.1	240
260															33.1		29.7	27.4	260
280																		26.1	280

		SL6 187 ft																		
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft				
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°			
38	ft	271																38	ft	
40		271																40		
45		266	237		199													45		
50		255	229	152	191	172												50		
60		237	214	144	177	161		147	132		131							60		
70		218	201	137	165	151	106	137	122		120	106		96			89.2	70		
80		190	187	131	154	142	101	127	114	84.7	111	98.6		88.7			82	80		
90		167	168	126	144	134	96.4	118	106	80.6	102	92.2	72.4	82.2	64		75.8	90		
100		146	147	121	136	126	92.5	110	100	76.9	94.8	86.1	68.9	76.7	60.5		70.5	55	100	
110		127	128	117	126	119	88.8	103	94.3	73.6	88.6	81	65.6	71.7	57.4		65.4	51.9	110	
120		112	113	112	114	112	85.5	96.8	89.1	70.6	82.8	76.3	62.5	67.3	54.5		61.3	49.1	120	
130		99.4	99.9	103	101	103	82.7	91.4	84.8	67.9	77.9	72.1	59.9	63.3	51.9		57.4	46.6	130	
140		88.8	89.5	92.3	91	92	80.1	86.5	80.7	65.5	73.5	68.3	57.5	59.8	49.6		53.8	44.3	140	
150		79.8	80.3	82.9	81.9	83.1	77.9	81.4	77	63.2	69.5	64.9	55.2	56.5	47.4		50.8	42.1	150	
160		72	72.6	74.6	73.7	74.8	74.7	74.8	73.6	61.3	65.9	61.9	53.2	53.6	45.4		47.9	40.2	160	
170		65.3	65.6	67.5	66.8	67.9	69.7	67.7	68.7	59.6	62.8	59.1	51.4	51	43.7		45.4	38.4	170	
180		59.2	59.5	61.3	60.6	61.4	63.4	61.5	62.7	58	59.8	56.6	49.7	48.6	42		43.1	36.8	180	
190		53.9	54.1	55.5	55.1	55.8	57.7	56	57.1	56.5	56.7	54.4	48.3	46.5	40.5		41	35.3	190	
200					50.2	50.9	52.4	51.1	52.1	53.4	52.1	52	47	44.5	39.1		39	33.9	200	
220								42.7	43.4	44.7	43.6	44.6	44.5	40.9	36.8		35.6	31.5	220	
240											36.6	37.4	38.8	37.5	34.9		32.7	29.5	240	
260														31.6	33.1		30.3	27.8	260	
280																		26.7	26.5	280



		SL6 197 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
40	40	271																	40
45	45	261	234																45
50	50	252	226	152	188														50
60	60	234	212	144	175	158			146			128							60
70	70	214	199	138	163	149	106		136	122		119	107		95.8		89		70
80	80	187	186	132	153	140	101		127	114	84.7	111	99.1		88.9		82.1		80
90	90	164	165	126	144	133	96.9		119	107	80.8	103	92.6	72.5	82.6		75.9		90
100	100	144	145	122	136	126	92.9	112	101	77.3	95.7	86.7	69	77.1	60.6	70.8	54.9		100
110	110	126	127	118	127	119	89.5	105	95	74	89.5	81.7	65.8	72.3	57.6	66	52		110
120	120	111	111	112	114	112	86.3	99.2	90.3	71	84	77.2	62.9	67.8	54.7	61.8	49.2		120
130	130	98.2	98.7	102	101	102	83.4	93.7	85.6	68.4	79	72.9	60.3	64	52.2	57.9	46.8		130
140	140	88	88.4	91.2	90.3	91.3	80.9	88.5	81.7	66.1	74.6	69.3	57.9	60.4	50	54.7	44.5		140
150	150	78.9	79.3	81.9	81.2	81.9	78.7	81.8	78.2	63.9	70.5	65.9	55.7	57.2	47.8	51.5	42.4		150
160	160	71.1	71.5	73.6	72.9	73.7	75.5	74.2	74	61.9	67.1	62.8	53.7	54.4	45.9	48.7	40.6		160
170	170	64.1	64.5	66.8	66	66.5	69	67	67.8	60.2	63.7	60.1	51.9	51.8	44.1	46.1	38.8		170
180	180	57.9	58.2	60.4	59.8	60.2	62.5	60.9	61.6	58.6	60.1	57.6	50.2	49.4	42.5	43.8	37.2		180
190	190	52.5	52.8	54.6	54.3	54.7	56.6	55.3	55.9	56.7	55.9	55.4	48.8	47.2	41	41.6	35.7		190
200	200		47.9	49.4	49.4	49.7	51.4	50.3	50.8	52.6	51	52	47.5	45.2	39.6	39.8	34.3		200
220	220						42.5	41.9	42.3	43.7	42.4	43.5	44.7	41.7	37.3	36.3	31.9		220
240	240								35.2	36.2	35.5	36.4	37.9	36.5	35.3	33.4	29.9		240
260	260													30.5	32.1	30.5	28.2		260
280	280														26.7	25.6	26.8		280
300	300																22.7		300

		SL6 207 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
40	40	268																	40
45	45	259	231																45
50	50	249	224		186														50
60	60	233	210	145	174	157			144			127							60
70	70	211	198	138	162	148	106		134	122		118	106		95.6				70
80	80	183	184	132	152	140	102		126	114	84.9	110	99.3		88.8		82		80
90	90	161	161	127	143	132	97.3		118	108	81.1	103	92.8	72.5	82.9		76.1		90
100	100	142	143	123	135	125	93.5	112	101	77.6	96.4	87.4	69.1	77.5	60.7	71	54.9		100
110	110	125	126	119	126	119	90.1	105	96.1	74.4	90.3	82.3	66	72.6	57.7	66.4	52.1		110
120	120	110	111	113	112	111	86.9	99.6	91.2	71.6	84.9	77.8	63.3	68.4	55	62.1	49.4		120
130	130	96.7	98.4	101	99.9	101	84.2	94.5	86.8	68.9	79.9	73.7	60.7	64.6	52.5	58.3	47		130
140	140	86.5	87.8	90	88.9	89.8	81.7	88.5	82.8	66.5	75.5	70	58.4	61.1	50.2	55.2	44.8		140
150	150	77.5	78.4	80.8	79.7	80.6	79.4	80.8	78.8	64.4	71.6	66.7	56.2	58	48.2	52	42.7		150
160	160	69.4	70.4	72.5	71.6	72.2	75	72.9	73.4	62.5	68.1	63.8	54.2	55.1	46.3	49.3	40.9		160
170	170	62.4	63.3	65.4	64.5	65	67.8	65.6	66.5	60.8	64.7	60.9	52.4	52.4	44.5	46.7	39		170
180	180	56.5	57.1	59	58.3	58.8	61.3	59.5	60.2	59	59.9	58.5	50.8	50.1	42.9	44.3	37.5		180
190	190	51	51.7	53.3	52.8	53.3	55.3	53.9	54.6	56.2	54.4	55.7	49.3	48	41.4	42.3	36		190
200	200	46.2	46.8	48.2	47.8	48.3	50.2	49	49.5	51.6	49.4	50.9	48	46	40.1	40.4	34.7		200
220	220				39.5	39.8	41.3	40.5	40.9	42.6	41.1	42.3	44.3	42.1	37.7	37	32.3		220
240	240							33.6	33.8	35.1	34	35.1	36.8	35.1	35.7	34.1	30.3		240
260	260										28.3	29.1	30.4	29.2	31	29.4	28.6		260
280	280													24.2	25.6	24.3	26.2		280
300	300																21.8		300

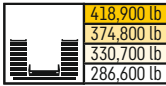


ft		SL6 217 ft																ft	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
45	45	256	228																45
50	50	246	221		184														50
60	60	231	208	145	172	155		142				126							60
70	70	207	197	139	161	147	106	134	121			117	106						70
80	80	180	180	133	151	139	102	125	114	84.9		110	99.7			89.1		82.4	80
90	90	158	159	128	143	131	97.7	118	108	81.3		103	93.4	72.7		83.1		76.4	90
100	100	139	141	124	135	125	94	111	102	77.9		96.7	87.9	69.4	77.8	60.7	71.2	54.9	100
110	110	123	125	119	124	119	90.7	105	96.9	74.8		91.2	83	66.3	73.1	57.8	66.9	52.1	110
120	120	108	110	111	111	112	87.6	99.8	92.2	71.9		85.8	78.5	63.5	68.9	55.2	62.8	49.5	120
130	130	95.9	97	100	98.5	99.8	84.8	94.8	87.7	69.4		81.1	74.4	61	65.2	52.8	59	47.3	130
140	140	85.3	86.7	89.5	87.8	88.6	82.3	88.3	83.7	67.1		76.7	70.7	58.8	61.8	50.5	55.7	45	140
150	150	76.2	77.4	79.6	78.5	79.3	79.5	79.7	79	65		72.8	67.5	56.6	58.7	48.5	52.6	43	150
160	160	68.1	69.1	71.5	70.4	71	74	71.8	72.7	63		69.1	64.5	54.7	55.8	46.6	50	41.1	160
170	170	61.3	62.3	64.3	63.4	64.1	66.9	64.6	65.5	61.3		64.8	61.8	52.9	53.2	45	47.4	39.5	170
180	180	55.1	56	57.8	57	57.7	60.2	58.4	59.1	59.6		58.6	59.1	51.4	50.9	43.3	45	37.9	180
190	190	49.8	50.5	52.2	51.7	52.2	54.4	52.7	53.4	55.6		53.2	54.8	49.8	48.8	41.9	42.9	36.4	190
200	200	45	45.6	47.2	46.8	47.2	49.2	47.8	48.5	50.5		48.4	49.9	48.4	46.7	40.5	41	35.1	200
220	220				38.4	38.6	40.3	39.3	39.9	41.5		40	41	43.4	41.3	38.1	37.7	32.7	220
240	240							32.4	32.7	34.1		32.9	34	35.8	34.1	35.7	34	30.7	240
260	260											27.2	28.1	29.6	28.2	30.1	28.2	28.9	260
280	280													24.1	23.1	24.7	23.3	25.3	280
300	300																19.7	21	300
320	320																		320

ft		SL6 226 ft																ft		
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft				
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°			
45	45	252	225																45	
50	50	243	218		182														50	
60	60	228	206	145	170	153		141											60	
70	70	202	195	139	160	145	107	132	119			116	105						70	
80	80	175	177	134	150	137	102	124	113	85		109	98.6			88.7		81.6	80	
90	90	155	156	129	142	130	98	117	107	81.4		102	93.4	72.6		83.3		76.7	90	
100	100	137	138	124	133	124	94.5	111	102	78.1		96.1	88.3	69.3	78.2	60.8	71.4	54.8	100	
110	110	121	123	120	122	118	91.2	105	96.9	75		90.8	83.4	66.6	73.5	57.9	67.1	52.2	110	
120	120	107	109	112	109	110	88.2	99.5	92.5	72.3		85.9	79	63.8	69.5	55.4	63.1	49.6	120	
130	130	94.6	96	99.1	97.1	98	85.6	94.2	88.2	69.8		81.6	75.1	61.4	65.8	53	59.4	47.3	130	
140	140	83.6	85	87.9	86.5	87.2	83	87	84.4	67.6		77.5	71.6	59.1	62.3	50.8	56.1	45.2	140	
150	150	74.5	75.7	78.3	77.1	77.9	79.4	78.3	78.8	65.4		73.6	68.4	57.1	59.3	48.8	53.2	43.3	150	
160	160	66.6	67.7	70.3	68.9	69.7	72.8	70.4	71.4	63.5		69.5	65.4	55.2	56.4	47	50.5	41.4	160	
170	170	59.5	60.7	62.9	61.8	62.7	65.4	63.3	63.8	61.8		63.6	62.5	53.4	53.9	45.2	47.9	39.8	170	
180	180	53.6	54.4	56.4	55.6	56.4	59	56.9	57.8	60		57.5	58.9	51.7	51.6	43.7	45.7	38.2	180	
190	190	48.2	49	50.7	50.1	50.7	53.2	51.4	52	54.5		52	53.4	50.2	49.4	42.2	43.6	36.8	190	
200	200	43.3	44.1	45.8	45.3	45.8	48	46.4	47	49.3		47	48.6	48.9	47.4	40.9	41.6	35.4	200	
220	220	35.2	35.7	37.1	36.8	37.3	39.1	37.9	38.4	40.4		38.6	39.9	42.2	39.9	38.5	38.1	33.1	220	
240	240				30	30.2	31.6	31	31.3	32.9		31.6	32.7	34.8	32.8	35.3	32.7	31	240	
260	260							25.2	25.4	26.6		25.7	26.8	28.3	26.8	28.9	26.9	29	260	
280	280													21.8	22.9	21.9	23.5	22	24.1	280
300	300															19.5	18.6	20	300	
320	320																	16.8	320	

SL6F

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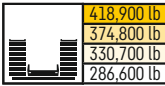


ft	SL6 236 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
45	248																45
50	240	215		179													50
60	226	203	145	168	152		139										60
70	199	193	139	158	144	106	131	118			114	103					70
80	172	173	134	149	137	102	123	112	84.9		108	97.7			87.6		80
90	151	152	129	141	130	98.3	116	106	81.5		101	92.4	72.5		82.8	75.8	90
100	134	135	125	132	124	94.7	110	101	78.2		95.2	87.7	69.4		78.4	60.7	100
110	118	120	120	119	119	91.5	105	96.3	75.3		90.1	83.4	66.6		73.8	58	110
120	105	107	111	107	109	88.7	99.2	91.9	72.7		85.4	79.5	64		69.8	55.5	120
130	92.8	94.2	97.3	95.1	97.2	86	94.6	88.1	70.2		81.2	75.8	61.6		66.2	53.1	130
140	81.8	83.2	86.6	84.6	86.5	83.4	85.9	83.9	67.9		77.4	72.2	59.4		63	51	140
150	72.6	74	76.9	75.3	77.1	79	76.9	77.6	65.8		73.7	68.9	57.3		60	49	150
160	64.8	65.9	68.6	67.1	68.7	71.2	68.6	69.9	64		69.2	66	55.5		57.1	47.3	160
170	57.7	58.9	61.3	60.1	61.6	64	61.5	62.4	62.2		61.9	62.7	53.7		54.5	45.7	170
180	51.7	52.6	55	54.1	55.2	57.4	55.2	56.3	58.7		55.7	57.8	52.2		52.2	44.1	180
190	46.3	47.2	49.3	48.4	49.8	51.6	49.7	50.5	53.3		50.2	52	50.7		50	42.6	190
200	41.4	42.2	44.1	43.5	44.6	46.5	44.7	45.6	47.9		45.3	47.1	49.2		47.1	41.2	200
220	33.3	33.9	35.4	35.1	36.1	37.5	36.4	36.8	39		36.9	38.3	40.9		38.4	38.9	220
240				28.3	29.1	30.2	29.4	29.8	31.4		30	31.2	33.4		31.3	34	240
260							23.5	23.9	25.2		24.1	25.2	27		25.3	27.7	260
280											19.9	20.6	21.7		20.8	22.3	280
300															17.2	18.5	300
320																	320

ft	SL6 246 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
45	244																45
50	237	213															50
60	223	201	145	166	150		138										60
70	195	191	140	157	143	106	130	117			113						70
80	168	170	135	148	135	102	122	111			106	96.5			86.6		80
90	147	148	130	141	129	98.6	116	105	81.4		100	91.7	72.4		81.9	74.9	90
100	130	132	125	129	123	95.2	109	100	78.4		94.8	87.2	69.5		77.7	60.6	100
110	116	117	121	116	116	91.9	104	95.9	75.6		89.9	82.9	66.7		73.9	57.9	110
120	103	105	108	104	106	89.2	98.8	91.7	72.8		85.3	79.2	64.1		70.1	55.6	120
130	90.9	92.8	96.1	93.6	95.9	86.5	92.6	87.8	70.5		81.3	75.7	61.8		66.5	53.4	130
140	80.4	81.7	84.8	83	84.9	83.5	84.4	83.9	68.3		77.4	72.4	59.7		63.5	51.3	140
150	71.1	72.3	75.4	73.7	75.5	78.2	75.1	76.4	66.3		73.6	69.4	57.7		60.4	49.3	150
160	63	64.4	67.2	65.8	67.2	70.1	67.3	68.2	64.4		67.4	66.4	55.8		57.5	47.6	160
170	56.1	57.2	59.8	58.7	60.1	62.5	60	61.1	62.3		60.5	62.6	54.1		55	45.9	170
180	50	51	53.5	52.3	53.7	56.1	53.9	54.7	57.6		54.3	56.1	52.6		52.7	44.4	180
190	44.6	45.7	47.7	46.9	48.2	50.2	48.4	49.2	51.8		48.9	50.7	51.1		50.5	42.9	190
200	39.8	40.7	42.7	42	43.2	45.1	43.3	44.1	46.6		43.9	45.6	48.2		45.5	41.6	200
220	31.6	32.3	33.9	33.5	34.6	36.2	34.7	35.4	37.6		35.5	36.8	39.7		36.9	39	220
240	24.9	25.5	26.8	26.7	27.5	28.7	27.9	28.3	30.1		28.5	29.7	32.1		29.9	32.8	240
260				21.2	21.8	22.6	22.1	22.5	23.8		22.7	23.8	25.7		24	26.4	260
280								18.3	19.2		18.7	19.5	20.7		19.6	21.3	280
300													16.9		16.1	17.5	300
320																	320
340																	340

SL6F

SL6 256 - 266

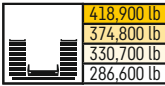


ft	SL6 256 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
45	239																45
50	233	210															50
60	220	199	145	164	149		136										60
70	190	189	140	155	141	106	128	116			112						70
80	164	166	135	147	135	102	121	110			106	95.9		85.7		78.9	80
90	143	145	131	140	129	98.8	115	105	81.5		100	91		81.4		74.5	90
100	127	129	126	126	123	95.5	109	99.7	78.5		95.1	86.6	69.5	77.2	60.6	70.6	100
110	113	115	118	113	115	92.4	104	95.3	75.7		90.2	82.5	66.8	73.4	58.1	66.9	110
120	101	102	106	102	104	89.6	98.5	91.4	73.2		85.8	78.8	64.4	69.8	55.7	63.5	120
130	89.2	91.3	95.1	91.9	93.7	86.8	91.3	87.2	70.8		81.8	75.5	62.1	66.7	53.5	60.2	130
140	79	80.3	83.9	81.8	83.5	84.6	83	82.6	68.6		77.9	72.3	59.9	63.5	51.4	57.3	140
150	69.8	71.1	74.5	72.6	74.3	77.3	74.1	75.3	66.6		73.5	69.3	58	60.8	49.6	54.4	150
160	62	63.2	66.1	64.4	66	69	66	67.3	64.7		67.3	66.5	56.2	58.1	47.8	51.9	160
170	55	56.2	58.7	57.4	58.9	61.5	58.8	59.9	61.9		60.2	61.4	54.5	55.6	46.1	49.5	170
180	48.7	49.9	52.3	51.4	52.5	55.1	52.5	53.6	56.8		54.1	55.1	52.9	53.1	44.7	47.2	180
190	43.4	44.5	46.7	45.7	47	49.2	47.1	48.1	50.9		48.4	49.7	51.3	49.3	43.2	45	190
200	38.7	39.5	41.6	40.9	42	44.2	42.1	43	45.8		43.5	44.5	47.8	44.7	41.9	43.2	200
220	30.4	31.1	32.9	32.4	33.5	35.3	33.7	34.3	36.6		34.9	36	38.6	35.9	38.9	36	220
240	23.7	24.4	25.8	25.5	26.4	27.9	26.7	27.3	29.2		28.1	28.8	31.1	28.9	31.8	28.9	240
260				20.3	20.9	21.8	21.2	21.5	22.9		22.3	22.8	24.8	23	25.5	23	260
280							17.2	17.5	18.5		18.2	18.6	20	18.8	20.5	18.9	280
300											14.8	15.1	16.2	15.2	16.7	15.4	300
320														12.2	13.4	12.4	320
340																11	340

ft	SL6 266 ft																ft	
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
50	228	207															50	
60	216	196	145	162	147		134										60	
70	187	186	140	154	140	106	127	115			111						70	
80	162	162	135	146	133	103	120	109			105	94.8		84.8		77.7	80	
90	141	142	131	138	127	98.9	114	104	81.4		99.3	90		80.5		73.7	90	
100	125	125	127	123	122	95.6	108	99.7	78.5		94.3	85.8	69.4	76.6	60.6	69.7	100	
110	112	112	116	110	112	92.7	103	95.3	75.9		89.7	82	66.9	72.7	58	66.3	110	
120	99	99.9	104	99.1	101	89.9	96.4	91.6	73.4		85.3	78.4	64.5	69.5	55.7	63	120	
130	87.8	89.4	93.2	89.8	91.6	87.2	89	87.9	71.1		81.5	75.2	62.2	66.3	53.5	60	130	
140	78	78.9	82.2	79.9	81.8	83.4	80.9	82	68.9		77.3	72.1	60.2	63.4	51.5	57.2	140	
150	68.9	69.6	72.9	71	72.9	76	72.6	74.5	67		72.8	69.2	58.2	60.7	49.8	54.7	150	
160	60.7	61.4	64.6	62.9	64.7	67.7	64.4	66.5	65		65.8	65.4	56.5	58.2	48	52.2	160	
170	53.8	54.3	57.2	56	57.6	60.2	57.2	59.2	62.1		58.7	60.3	54.8	55.8	46.5	49.8	170	
180	47.8	48.3	50.8	49.6	51.2	53.7	51.1	52.9	55.4		52.4	53.8	53.3	52.7	45	47.7	180	
190	42.4	42.7	45.3	44.2	45.7	47.8	45.7	47.1	49.5		46.9	48.2	50.9	48.3	43.6	45.5	190	
200	37.5	37.8	40.1	39.2	40.6	42.7	40.7	42.1	44.4		42.1	43	46.5	43.3	42.2	42.4	200	
220	29.2	29.6	31.4	30.9	31.9	33.8	32.2	33.6	35.3		33.6	34.4	37.4	34.5	38.2	34.6	220	
240	22.5	22.7	24.3	23.9	24.9	26.5	25.2	26.5	27.9		26.5	27.3	29.9	27.4	30.5	27.6	240	
260		18.1	19.1	19.1	19.7	20.7	20	20.8	21.8		21.1	21.5	23.5	21.8	24.3	21.9	260	
280						16.4	16	16.7	17.4		17	17.4	19	17.6	19.5	17.7	280	
300									13.7		13.6	13.9	15.1	14.1	15.7	14.2	16.2	300
320													11.6	10.9	12.4	11.2	13	320
340																8.1	9.9	340

SL6F

SL6 276 - 285

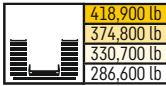


ft	SL6 276 ft																ft			
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft					
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°				
50	219																50			
60	208	190	145	158	144				131								60			
70	183	181	140	150	137				124	113			109				70			
80	158	159	135	143	131	102			118	107			103	93.1		83.1	76.9	80		
90	138	139	131	135	125	98.8			112	103	81.2		97.6	88.6		79		72.9	90	
100	122	123	126	121	120	95.7			107	98	78.4		92.7	84.3	69.5	75.1	60.4	69.4	100	
110	109	109	113	108	109	92.9			102	93.9	75.8		88.2	80.7	66.8	71.5	57.8	65.8	51.8	110
120	96.6	97.6	101	96.8	98.7	90.1			95.2	90.2	73.5		84.1	77.2	64.4	68.3	55.6	62.8	49.7	120
130	86.4	87.3	91.4	87.7	89.4	87.6			86.5	86.2	71.2		80.3	74.1	62.3	65.3	53.5	60	47.6	130
140	76.5	77.5	81.3	78.4	80.5	82.7			79	80.4	69.1		76.2	71.2	60.3	62.5	51.6	57.2	45.6	140
150	67.6	68.4	71.6	69.6	71.3	74.8			71	73.5	67.1		71	68.3	58.5	60	49.8	54.7	43.9	150
160	59.5	60.3	63.3	61.6	63.3	66.6			63.1	65.3	65.4		64.4	65.2	56.6	57.5	48.2	52.3	42.3	160
170	52.5	53.3	56.2	54.7	56	59.2			56.1	58.2	60.7		57.6	58.8	55	54.9	46.7	50.1	40.8	170
180	46.3	47	49.8	48.4	49.7	52.5			50	51.7	54.5		51.4	52.7	53.5	51.9	45.1	48.1	39.4	180
190	40.9	41.5	44	43	44.2	46.9			44.3	46	48.7		45.7	46.9	50.5	46.8	43.8	45.8	38	190
200	36.2	36.6	39	38	39.3	41.6			39.4	41	43.3		40.9	42.1	45.5	42.1	42.4	42.7	36.8	200
220	27.9	28.2	30.3	29.7	30.8	32.8			30.9	32.4	34.2		32.3	33.4	36.5	33.5	37.1	34.1	34.4	220
240	21.4	21.6	23.2	22.8	23.7	25.4			24.1	25.2	26.8		25.4	26.1	28.9	26.3	29.6	27.1	30.1	240
260	16.9	17.1	18.2	18	18.7	19.8			19	19.8	20.9		20	20.7	22.7	20.7	23.3	21.5	23.8	260
280				14.1	14.7	15.6			15	15.8	16.6		16.1	16.5	18.2	16.7	18.7	17.4	19.2	280
300									11.3	12	12.8		12.6	13	14.3	13.1	14.9	13.9	15.4	300
320														9.4	10.8	9.9	11.6	10.9	12.2	320
340																	8	7.6	9.1	340
360																			5.8	360

ft	SL6 285 ft																ft			
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft					
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°				
50	214																			50
60	204	186	145	155	141															60
70	179	178	140	147	135				123				107							70
80	154	156	135	140	129	102			116	106			102	92		82.2		75.9		80
90	134	137	131	132	124	98.9			111	101	81.1		96.7	87.4		78		72		90
100	119	121	124	118	118	95.8			105	97	78.5		91.9	83.6	68.8	74.3		68.6		100
110	105	107	110	105	107	92.9			101	93.2	75.9		87.6	79.9	66.4	70.9	57.7	65.3	51.7	110
120	94	95.7	98.3	94	96.1	90.4			93	89.5	73.5		83.6	76.7	64.1	67.7	55.5	62.2	49.6	120
130	83.6	85.4	88.8	84.7	86.5	86.6			84	84.4	71.3		79.8	73.6	62.1	64.8	53.5	59.5	47.7	130
140	74.3	76.2	79.6	76.1	78.4	81.2			76.4	78.2	69.2		75.3	70.7	60.2	62.1	51.7	56.9	45.7	140
150	65.8	67.3	70.1	67.8	69.9	73.7			69.1	71.1	67.3		69.3	67.5	58.5	59.6	50	54.4	44.1	150
160	57.7	59.2	61.9	59.9	61.7	65.3			61.6	63.8	64.8		62.9	63.5	56.7	57.2	48.4	52.1	42.4	160
170	50.9	52.3	54.6	52.9	54.9	58			54.4	56.8	59.7		55.9	57.3	55.1	54.8	46.7	49.9	40.9	170
180	44.7	46	48.2	46.7	48.3	51.3			48.5	50.4	53.1		49.9	51.4	53.1	50.8	45.3	47.8	39.6	180
190	39.3	40.6	42.7	41.4	42.9	45.4			43	44.8	47.1		44.4	45.7	49.6	45.7	43.9	45.2	38.2	190
200	34.6	35.6	37.6	36.4	37.9	40.4			37.9	39.6	42.1		39.5	40.4	44.2	40.7	42.7	41.1	37	200
220	26.2	27.3	28.8	27.9	29.2	31.3			29.4	30.9	32.8		30.8	31.8	35.1	32	35.8	33	34.4	220
240	20.1	20.8	21.8	21.4	22.3	24			22.6	23.9	25.4		24	24.7	27.7	25	28.3	25.8	29	240
260	15.5	16.2	17	16.7	17.5	18.7			17.8	18.7	19.8		18.9	19.5	21.6	19.7	22.1	20.3	22.6	260
280				12.6	13.3	14.4			13.8	14.6	15.5		14.9	15.4	17.1	15.5	17.7	16.3	18.2	280
300									9.8	10.6	11.6		11.3	11.7	13.3	12	13.9	12.8	14.4	300
320													7.6	8	9.6	8.6	10.5	9.5	11.1	320
340																	6.9	6.3	7.9	340

SL6F

SL6 295 - 305

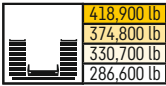


ft	SL6 295 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
50	189																50
60	181	165		139													60
70	172	158	132	132	120		110			97							70
80	153	150	127	125	115	97.2	105	95.9		91.8	83.7			75.5			80
90	134	135	123	119	110	93.7	99.3	91.5	77.1	87.1	79.6			71.9		66.1	90
100	118	119	119	114	106	90.5	94.8	87.5	74.3	82.7	76	64.1		68.5		62.7	100
110	105	106	109	104	101	87.4	90.4	83.7	71.8	78.7	72.6	61.6	65.4	54.2	59.8		110
120	94.5	95.1	98.2	94.2	94.8	84.7	86.4	80.2	69.4	75.1	69.5	59.5	62.3	52.3	56.9	47	120
130	84.6	85.8	88.3	85.2	85.5	82	82	77.1	67.1	71.7	66.6	57.4	59.7	50.3	54.2	45.1	130
140	75.3	76.4	79.5	76.8	77.9	79.3	76.3	73.9	64.9	68.3	63.8	55.5	57	48.5	51.8	43.4	140
150	66.9	67.6	70.3	68.9	70	73.5	69.9	69.4	62.9	65.2	61.2	53.6	54.6	46.7	49.4	41.8	150
160	59.1	59.6	62.3	61.1	61.9	65.3	62.5	63.7	61	61.6	58.7	51.9	52.4	45.1	47.3	40.1	160
170	51.9	52.8	55	54.1	54.9	58.2	55.6	56.7	58.7	55.9	55.6	50.1	50.1	43.6	45.3	38.7	170
180	45.8	46.6	48.7	48	48.8	51.6	49.5	50.5	54.1	50	51.4	48.5	48	42	43.4	37.3	180
190	40.4	40.9	43	42.5	43.1	45.9	44	44.7	48.3	44.6	45.9	47	45.4	40.7	41.4	36	190
200	35.5	36.2	37.9	37.6	38.2	40.6	39	40	43.1	39.5	40.8	43.9	41.5	39.3	39.3	34.7	200
220	27.3	27.7	29.4	29.1	29.7	31.9	30.4	31.3	34	31	32.2	35.4	33	35.4	32.9	32.2	220
240	20.9	21.2	22.4	22.3	22.7	24.5	23.5	24.1	26.6	24.2	25	27.9	25.9	28.6	25.9	29.1	240
260	16.4	16.6	17.5	17.6	17.9	19.2	18.5	19.1	20.7	19.2	19.7	21.8	20.4	22.3	20.5	22.8	260
280	12.1	12.3	13.2	13.6	13.9	14.9	14.6	15	16.3	15.2	15.6	17.4	16.4	17.9	16.4	18.4	280
300				9.5	9.7	10.8	10.8	11.2	12.6	11.7	12.1	13.7	12.8	14.1	13	14.6	300
320								7.4	8.6	8.1	8.6	10.2	9.5	10.8	9.8	11.3	320
340												6.4	6.1	7.4	6.7	8.2	340

ft	SL6 305 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft				
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°			
50	184																50
60	176	161		135													60
70	168	154	129	129	118		107			94.6							70
80	150	147	125	122	112	95	102	93.8		89.7	81.8						80
90	131	131	120	117	108	91.7	97.3	89.4	75.4	85.4	77.8			70.3			90
100	115	116	116	111	103	88.5	92.9	85.7	72.6	81.1	74.4		62.5	67			100
110	102	103	106	102	99.3	85.6	88.5	81.9	70.3	77.2	71.1	60.2	63.9	53			110
120	91.7	91.9	95.6	91.9	92.1	83	84.9	78.8	68	73.8	68	58.1	61	51			120
130	82.3	83.2	85.8	82.6	83.1	80.5	79.9	75.6	65.8	70.5	65.4	56.2	58.5	49.2			130
140	73.5	74.6	77.1	74.6	75.4	77	74.1	72.7	63.8	67.4	62.8	54.3	56	47.4			140
150	65.2	65.9	68.9	67	68.1	71.5	67.8	68.2	61.7	63.9	60.1	52.6	53.6	45.8			150
160	57.1	58.1	60.7	59.6	60.5	64.2	61.1	62.5	59.9	59.6	57.7	50.9	51.5	44.2			160
170	50.5	51	53.5	52.4	53.3	56.7	54.3	55.3	58.1	54.4	55.3	49.2	49.4	42.7			170
180	44.4	44.8	47.3	46.4	47.4	50.4	47.9	49.3	52.9	48.5	49.9	47.7	47.2	41.3			180
190	38.8	39.5	41.6	40.9	41.6	44.4	42.3	43.6	47.1	43.2	44.5	45.8	44.3	39.9			190
200	33.9	34.6	36.6	35.9	36.7	39.2	37.5	38.6	41.7	37.9	39.5	43	39.9	38.6			200
220	25.7	26.1	28	27.5	28.2	30.4	29.1	29.8	32.7	29.8	30.8	34.2	31.6	34.7			220
240	19.7	19.9	21.1	21	21.5	23.1	22.3	22.7	25.2	22.8	23.6	26.7	24.4	27.3			240
260	15.1	15.3	16.3	16.4	16.7	18.1	17.4	17.8	19.6	18	18.7	20.7	19.3	21.2			260
280	10.6	10.8	11.8	12.2	12.5	13.7	13.3	13.7	15.3	13.8	14.5	16.4	15.1	16.9			280
300				8	8.3	9.4	9.5	9.8	11.3	10.1	10.7	12.6	11.5	13.1			300
320							5.7	6	7.4	6.7	7.2	8.9	8.1	9.6			320
340														6.2			340

SL6F

SL6 315 - 335

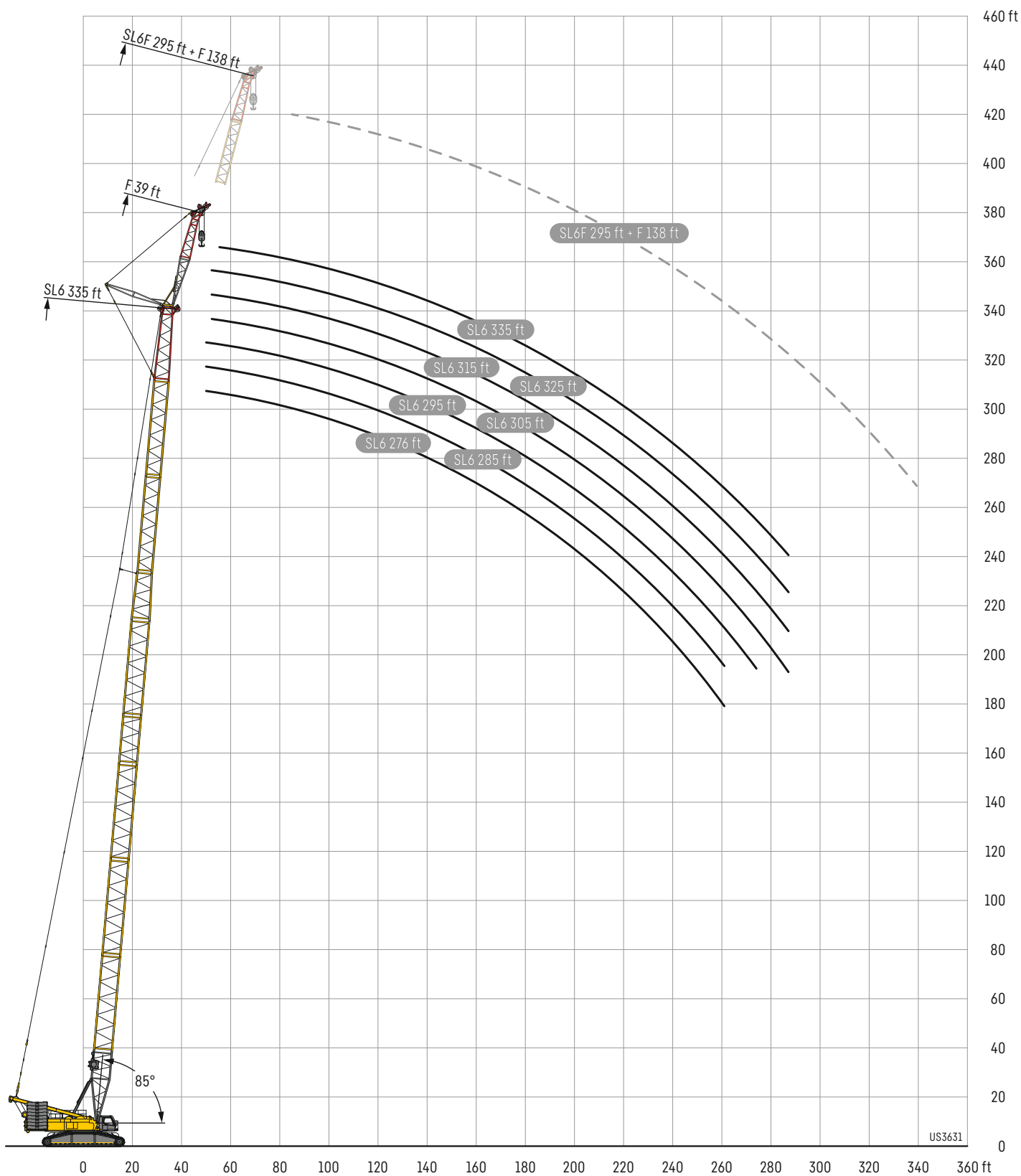


ft	SL6 315 ft												SL6 325 ft						SL6 335 ft			ft	
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 39 ft			F 59 ft			F 39 ft				
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°		10°
60	167	154		130										162	149		126			150	142		60
70	161	148	124	123	114		104							157	144	121	120	111		144	136	116	70
80	146	142	120	118	109	91.8	98.4	90.5		86.6	79			143	138	117	115	106	89.7	138	131	112	80
90	128	130	116	113	104	88.5	94	86.5	73	82.3	75.1			124	127	113	110	102	86.4	123	123	108	90
100	112	115	112	108	100	85.6	89.7	82.8	70.4	78.4	71.8	60.5		109	112	110	105	97.8	83.5	108	109	105	100
110	100	101	104	99.2	96.2	82.8	85.8	79.4	67.9	74.6	68.8	58.4		96.4	98.4	101	97.1	94.3	81	95.7	96.5	99.9	110
120	89.1	90.7	92.8	89.2	90.7	80.1	81.9	76.1	65.7	71.3	65.9	56.3		85.8	88.1	90.5	86.3	88.5	78.4	85.5	86.1	89.8	120
130	80.4	81.7	83.4	80.3	82.4	77.8	77.7	73.2	63.6	68.3	63.1	54.4		77.5	78.9	81	77.5	79.8	76.1	76.6	77.2	80.3	130
140	71.4	73.5	75.2	72.5	74.7	74.1	72	70.2	61.7	65.2	60.6	52.5		69.2	71	72.9	69.8	71.8	72.6	69.1	69.7	72.4	140
150	63.6	65.2	67.3	65.5	67.6	69.5	65.7	66.2	59.8	62	58.3	50.8		61.4	63.2	65.4	62.9	64.9	66.8	61.2	62.1	65.3	150
160	55.8	57.4	59.3	57.9	60	62.5	59.7	60.5	57.9	57.6	55.8	49.2		54.1	55.9	57.9	56	58.2	60.9	53.7	55	58	160
170	48.9	50.5	52.2	51	53	55.5	52.9	54.1	55.6	52.7	53.1	47.7		47.1	49.1	50.7	49.6	51.7	54.1	47.3	48.1	51	170
180	42.7	44.4	45.8	45	46.8	49.2	46.9	47.9	51.8	47.2	48.3	46.2		41.3	42.8	44.4	43.4	45.2	47.6	41	41.8	44.7	180
190	37.5	38.9	40.2	39.7	41.1	43.4	41.1	42.3	45.8	41.8	43.2	44.5		35.9	37.3	38.9	37.8	39.7	41.9	35.8	36.6	39	190
200	32.7	34	35.3	34.7	36.3	38.2	36.4	37.2	40.5	36.8	38	41.7		31	32.3	33.8	32.9	34.8	36.8	30.9	31.7	33.9	200
220	24.4	25.6	26.7	26.2	27.7	29.2	27.8	28.7	31.5	28.4	29.5	33.1		22.8	23.9	25.3	24.7	26.2	28	23.1	23.6	25.4	220
240	18.6	19.4	20.1	20	21	22.1	21.1	21.8	24.2	21.6	22.6	25.6		17.1	18	18.9	18.5	19.7	21	17.1	17.4	19	240
260	13.9	14.8	15.3	15.3	16.2	17.1	16.4	16.9	18.8	16.9	17.6	19.9		12.2	13.1	13.9	13.8	14.9	15.9	12.3	12.7	14.1	260
280	9.5	10.2	10.8	11	11.9	12.8	12.2	12.6	14.4	12.8	13.4	15.5		7.9	8.7	9.3	9.4	10.5	11.5	8	8.2	9.5	280
300		6.1	6.4	7	7.9	8.5	8.3	8.7	10.4	9.1	9.7	11.7						6.4	7.2				300
320									6.4	5.6	6.1	8											320

Lifting heights

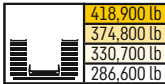
Hauteurs de levage

SL6F



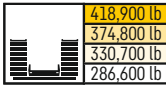
SL3F

SL3 177 - 197



ft	SL3 177 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
36	271																36
38	271																38
40	271	270															40
45	271	257		231													45
50	271	246	152	221	184		184										50
60	238	225	143	200	170	113	167	143		150							60
70	201	202	136	183	157	107	153	132	90.9	136	118		110		97		70
80	172	173	130	168	146	101	140	123	86.1	125	110		101		91.3		80
90	147	148	124	148	136	96.3	130	114	81.6	115	102	73.9	93.4	68	85.9		90
100	127	127	119	128	128	92	121	107	77.8	107	95.1	70	86.6	64	80.4	60.1	100
110	110	111	112	112	113	88.3	112	101	74.2	99.5	89.4	66.6	81	60.6	74.3	56.7	110
120	97	97.3	100	98.4	99.5	84.9	99.1	95	71	92.6	84	63.5	75.7	57.6	69.6	53.4	120
130	85.7	86.5	88.8	87.2	88.6	81.8	88.2	88.8	68	86.7	79.2	60.5	71	54.8	65.6	50.6	130
140	76.4	77.1	79.2	77.9	78.8	79	78.8	80	65.5	79.5	74.9	58.1	67	52.2	61.6	48.1	140
150	68.6	69	71.1	69.9	70.8	73.2	70.6	71.9	63.2	71.5	71	55.6	63.3	49.9	58.1	45.6	150
160	61.8	62	63.9	63.1	63.9	65.8	63.8	64.8	61.2	64.4	65.8	53.5	59.9	47.6	54.7	43.5	160
170	55.8	56	57.6	56.9	57.8	59.6	57.7	58.8	59	58.5	59.8	51.7	57.2	45.7	51.8	41.7	170
180	50.6	50.8	52.2	51.6	52.4	54	52.3	53.4	55.1	53.3	54.3	49.9	54	43.9	49.1	39.9	180
190				46.9	47.5	49	47.6	48.5	50	48.4	49.5	48.4	49.4	42.4	46.8	38.2	190
200				42.8	43.3	44.5	43.5	44.1	45.6	44.3	45.2	46.9	45.2	41	44.7	36.8	200
220								36.8	37.8				37.8	38.5	38.2	34.2	220
240										31.1	31.7	32.8	31.7	33.3	32.2	31.9	240
260														27.8	27.1	28.7	260
280																24.1	280

ft	SL3 197 ft																ft
	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
36	271																36
38	271																38
40	271																40
45	271	259															45
50	271	248	153	222													50
60	230	230	145	203	171		168	143		150							60
70	193	196	138	187	159	108	155	133		138	118		110		96.3		70
80	166	167	132	166	149	103	143	124	86.3	127	111		101		91.2		80
90	143	145	126	145	140	98	133	116	82.3	118	104	74.3	94.2	68.4	86.1		90
100	123	124	121	125	127	93.8	124	109	78.5	110	96.9	70.7	87.9	64.4	81.6	60.2	100
110	107	108	111	109	110	90.2	110	103	75.2	102	91.4	67.4	82.6	61.2	76.1	57	110
120	93.9	94.6	98	95.8	96.9	86.6	96.6	97.2	71.9	95.8	86.3	64.5	77.4	58.2	71.2	54	120
130	83	83.6	86.6	84.8	86.1	83.6	85.6	86.9	69.4	86.6	81.4	61.8	73	55.5	67.1	51.4	130
140	73.9	74.3	76.9	75.3	76.7	79.2	76.4	77.7	67	77	77.2	59.3	69	53.1	63.3	48.8	140
150	66	66.3	68.7	67.3	68.4	71	68	69.7	64.6	69	70.7	56.8	65.2	50.8	59.7	46.6	150
160	59.1	59.5	61.6	60.3	61.4	63.9	61.3	62.6	62.3	62.2	63.7	54.7	61.8	48.8	56.5	44.6	160
170	53.2	53.5	55.4	54.4	55.3	57.5	55.2	56.4	58.7	56.1	57.6	52.9	57.3	46.7	53.5	42.6	170
180	47.9	48.1	50	49.1	49.9	51.9	49.9	51	53.1	50.7	52.1	51.1	52	45.1	50.9	40.8	180
190	43.2	43.5	45.1	44.4	45.2	46.9	45.2	46.2	48	46.1	47.4	49.4	47.3	43.6	47.5	39.2	190
200		39.3	40.7	40.2	40.9	42.4	41	41.8	43.5	41.9	42.9	45.2	43	42	43.4	37.7	200
220						34.8	33.8	34.5	35.8	34.7	35.6	37.4	35.6	37.8	35.9	35.1	220
240								29.4		28.7	29.5	30.9	29.5	31.3	29.9	32.1	240
260														24.5	25.9	24.9	260
280															20.8	22.3	280
300																18.8	300

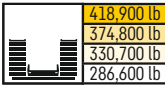


		SL3 217 ft																		
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft				
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°			
40	ft	271																40	ft	
45		271	261															45		
50		267	250		223													50		
60		223	225	147	205	172		169	144			152						60		
70		187	189	140	186	161	109	157	134			139	118					70		
80		160	161	134	160	151	103	146	126	86.8		129	112		102		91.5	80		
90		139	141	128	139	141	99.3	136	118	82.9		120	105	74.8	95.3		86.6	90		
100		120	122	124	122	124	95.3	122	112	79.4		112	98.6	71.4	89.1	64.9	80.7	60.5	100	
110		105	106	109	106	108	91.7	108	105	76.2		105	93.1	68.2	83.7	61.8	75.8	57.2	110	
120		91.1	92.3	95.6	92.9	94.6	88.5	94.2	95.7	73.2		94.7	87.9	65.3	78.9	59	72.3	54.4	120	
130		80.4	80.8	84.2	81.9	83.6	84.6	83.4	84.7	70.6		84	83.2	62.6	74.6	56.4	68.4	51.9	130	
140		71.1	71.9	74.9	72.7	74	77.3	73.8	75.2	68.1		74.8	76.4	60.2	70.7	53.9	64.8	49.5	140	
150		63.3	63.9	66.4	64.8	66	68.9	65.8	67.2	65.7		66.9	68.5	57.9	66.6	51.6	61.2	47.3	150	
160		56.4	56.8	59.4	57.9	59	61.7	59	60.4	63		59.8	61.4	55.9	61.3	49.6	58.2	45.3	160	
170		50.6	51	53.3	52	53	55.3	52.7	54.3	56.6		53.8	55.3	54	55.3	47.8	54.8	43.5	170	
180		45.3	45.7	47.7	46.5	47.6	49.8	47.6	48.8	51.1		48.3	50.1	52.1	49.9	46	50.1	41.8	180	
190		40.7	40.9	42.9	41.9	42.9	44.8	42.7	43.9	46		43.7	45.1	47.7	45.1	44.5	45.3	40.1	190	
200		36.6	36.8	38.6	37.8	38.6	40.4	38.6	39.7	41.5		39.6	40.9	43.3	40.8	42.8	41	38.5	200	
220					30.6	31.3	32.8	31.3	32.3	33.8		32.4	33.4	35.4	33.5	35.9	33.8	35.8	220	
240								25.5	26.2	27.4		26.4	27.3	29	27.3	29.4	27.7	30.2	240	
260												21.6	22.3	23.6					260	
280															18.6	19.9	19	20.6	280	
300																	15.9	17.2	300	

		SL3 236 ft																		
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft				
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°			
45	ft	263																45	ft	
50		260	251															50		
60		214	216	147	206	173		158				148						60		
70		181	182	141	180	162	109	156	134			139	117					70		
80		154	156	136	154	153	104	149	126	87		130	112		102		90.7	80		
90		134	135	130	134	137	100	135	119	83.3		121	105	74.6	95.6		86.2	90		
100		117	118	122	118	120	96.4	119	113	79.9		113	99.5	71.5	90	64.8	81.2	60.4	100	
110		101	102	107	103	106	93	105	106	77		104	94.1	68.6	84.8	62	76.2	57.3	110	
120		88.5	89.4	92.9	90.5	92.2	90.1	91.8	93.2	74		92.1	89.2	65.7	80.1	59.2	72.7	54.7	120	
130		77.6	78.3	81.6	79.1	80.9	84.4	81.2	82.5	71.6		81.4	83.7	63.4	76	56.7	69.4	52.2	130	
140		68.2	68.9	72.4	70	71.7	75	71.9	73.2	69.2		71.9	74.1	61	72.1	54.6	66	50	140	
150		60.3	61	64.1	62.1	63.7	66.8	64	64.8	66.3		64.3	66.1	58.7	66	52.5	62.7	47.8	150	
160		53.7	54.1	57	55.1	56.5	59.3	56.9	58	60.8		57.4	59.2	56.8	59.1	50.5	58.8	45.9	160	
170		47.6	48.2	50.8	49.1	50.4	53.1	50.8	51.7	54.6		51.2	53.2	55	53	48.7	53.1	44.1	170	
180		42.5	42.8	45.4	44	45	47.5	45.4	46.4	48.8		45.9	47.7	50.7	47.4	47	47.8	42.5	180	
190		37.9	38.2	40.5	39.2	40.2	42.6	40.8	41.4	44		41.2	42.7	45.7	42.8	45.3	42.9	40.9	190	
200		33.7	34	36.1	35	36	38.1	36.5	37.3	39.4		36.9	38.6	41	38.5	41.6	38.9	39.4	200	
220		26.8	27	28.7	27.9	28.7	30.5	29.4	29.8	31.7		29.8	31.1	33.4	31.1	33.9	31.4	34.8	220	
240					22.2	22.8	24.3	23.4	23.8	25.2		23.9	25	26.9	25	27.4	25.4	28.4	240	
260								19	19.3	20.3		19.4	20.2	21.6	20.3	22.1	20.6	22.9	260	
280												15.9	16.6	17.7			16.6	18.1	280	
300															13.5	14.7	13.9	15.5	300	
320																	10.8	12.5	320	

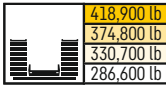
SL3F

SL3 246 - 256



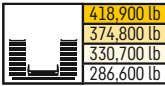
		SL3 246 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
45	45	258																	
50	50	252	251																
60	60	210	212	148	206	172		158											
70	70	177	179	142	177	162	109	156	134			139							
80	80	151	153	136	151	152	104	149	127	86.9		129	112		102		90.3		
90	90	131	132	131	132	135	101	133	120	83.3		121	106	74.8	95.8		86		
100	100	114	116	121	115	118	96.9	116	113	80.2		114	100	71.6	90.4	65	81.5		
110	110	100	100	105	101	104	93.6	103	105	77.2		102	94.8	68.8	85.3	62	76.7	57.4	
120	120	86.8	87.9	91.3	88.5	90.5	90.7	90.6	92.3	74.3		90.7	89.9	66	80.6	59.5	73	54.7	
130	130	75.9	76.9	80.4	77.9	79.7	83.4	79.5	81.1	71.9		80.2	82.3	63.7	76.5	57	69.7	52.5	
140	140	66.8	67.4	70.7	68.5	70.1	73.8	70.5	71.3	69.5		70.9	72.9	61.5	72.5	54.8	66.5	50.1	
150	150	58.9	59.4	62.7	60.5	62.2	65.4	62.3	63.5	66.3		62.7	64.9	59.3	64.8	52.7	63.1	48.1	
160	160	52	52.6	55.6	53.8	55.1	58.2	55.7	56.5	59.7		55.9	57.7	57.2	57.7	50.9	57.7	46.2	
170	170	46.1	46.5	49.4	47.8	49	51.7	49.4	50.4	53.2		49.8	51.8	54.2	51.7	49.1	51.9	44.4	
180	180	40.8	41.2	44	42.3	43.5	46.2	44.2	44.9	47.6		44.5	46.2	49.7	46.2	47.4	46.4	42.7	
190	190	36.3	36.7	39	37.7	38.8	41.2	39.5	40.2	42.5		39.9	41.5	44.7	41.4	44.7	41.9	41.2	
200	200	32.1	32.5	34.8	33.5	34.5	36.9	35.2	35.9	38.1		35.7	37.2	40	37	40.4	37.3	39.7	
220	220	25.2	25.4	27.2	26.3	27.3	29.2	27.8	28.4	30.4		28.5	29.7	32.3	29.7	32.8	30	33.6	
240	240	19.9	20	21.3	20.8	21.4	22.9	22.1	22.4	24		22.5	23.6	25.7	23.7	26.3	24	27	
260	260				16.7	17.2	18.3	17.7	18.1	19.2		18.2	19.1	20.6	19.2	21.1	19.5	21.8	
280	280								14.4	15.3		14.7	15.5	16.6	15.5	17.1	15.8	17.9	
300	300													13.2	12.4	13.7	12.7	14.5	
320	320														10.4	9.4	11.3		
340	340																7.9		

		SL3 256 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
45	45	248																	
50	50	246	244																
60	60	206	209	148	202	172		158											
70	70	173	175	142	173	162	109	157	134			137							
80	80	148	150	137	149	152	104	148	126	86.8		129	112		102		89.1		
90	90	128	130	131	129	132	101	130	120	83.4		121	106	74.7	95.8		85.5		
100	100	112	114	119	113	116	97.2	114	114	80.2		113	100	71.5	90.4	65	81.4		
110	110	98	99.3	104	99.8	102	94	101	103	77.3		100	94.9	68.8	85.5	62.2	76.9	57.3	
120	120	85.7	86.2	90.2	87.6	89.2	90.9	89	91	74.7		89.3	90.1	66.3	81.2	59.6	73.1	54.8	
130	130	74.4	75.4	79.3	76.5	78	82.2	78.4	79.6	72.1		78.9	81.2	63.9	77.1	57.2	69.8	52.6	
140	140	65.5	66	69.8	67.2	68.8	72.7	69.4	70.5	69.8		69.3	72	61.6	71.3	54.9	66.8	50.4	
150	150	57.6	58.1	61.7	59.4	60.9	64.3	61.3	62.5	65.9		61.8	63.8	59.5	63.6	53	62.9	48.3	
160	160	50.9	51.4	54.6	52.4	53.8	57.1	54.4	55.5	58.7		54.8	56.8	57.6	56.5	51.1	56.9	46.4	
170	170	44.9	45.4	48.2	46.5	47.7	50.7	48.2	49.2	52.3		48.8	50.7	54.4	50.4	49.2	50.9	44.7	
180	180	39.6	40.1	42.8	41.3	42.3	45.2	42.8	43.8	46.7		43.5	45.1	48.7	45.2	47.3	45.5	43.1	
190	190	35.1	35.5	38	36.4	37.6	40.2	38.2	39.1	41.7		38.7	40.5	43.6	40.2	44	40.5	41.5	
200	200	31	31.2	33.6	32.4	33.4	35.9	33.9	34.8	37.2		34.5	36	39	36.1	39.5	36.4	39.7	
220	220	23.9	24.1	26.2	25.2	26.1	28.3	26.8	27.3	29.4		27.2	28.8	31.2	28.7	31.9	29.1	32.7	
240	240	18.9	19	20.4	19.8	20.5	22.1	21	21.4	23.1		21.5	22.7	24.8	22.7	25.3	23	26.3	
260	260				15.7	16.3	17.5	16.8	17.1	18.4		17.3	18.2	19.8	18.3	20.3	18.6	21	
280	280							13.2	13.5	14.5		13.7	14.6	15.9	14.6	16.3	15	17	
300	300											10.3	11.2	12.4	11.5	12.9	11.8	13.7	
320	320														8.1	9.7	8.5	10.5	
340	340																	7.2	



		SL3 266 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
50	ft	239	240															50	ft
60		203	204	148	199	172		158										60	
70		171	172	143	170	162	109	158	134		136							70	
80		145	147	137	146	150	105	147	127	86.8	129	112		101		88.4		80	
90		126	128	132	127	129	101	127	120	83.5	122	106		95.7		85.2		90	
100		110	111	116	111	113	97.7	112	113	80.4	111	101	71.6	90.7	64.9	81.2		100	
110		96.3	97.2	102	97.2	99.5	94.6	98.8	101	77.7	98.2	95.7	69	85.6	62.1	77	57.4	110	
120		83.8	84.7	89	85.5	87.9	90.4	87.3	89.6	75	86.9	89.9	66.4	81.4	59.6	73.1	54.9	120	
130		72.7	74.1	77.6	75.1	76.9	81	77.1	78.5	72.5	77.5	80.2	64.1	77.3	57.3	70.1	52.7	130	
140		63.8	64.6	68.2	65.6	67.3	71.1	67.8	69.1	70.2	68.2	70.6	62.1	70.3	55.2	67.1	50.6	140	
150		56	56.7	60.2	57.9	59.5	63	60	60.8	64.8	60.2	62.5	59.9	62.3	53.2	62.4	48.6	150	
160		49.1	49.7	53.1	50.9	52.5	55.8	52.8	54	57.5	53.4	55.4	58	55.4	51.3	55.6	46.7	160	
170		43.2	43.7	46.8	45	46.5	49.4	46.7	47.8	51.1	47.2	49.4	53.1	49.2	49.6	49.3	45	170	
180		38.1	38.5	41.3	39.6	41	43.9	41.4	42.4	45.3	41.9	43.9	47.6	44	47.5	44.2	43.4	180	
190		33.5	33.7	36.6	34.9	36.3	38.9	36.8	37.5	40.3	37.2	39.1	42.4	39.1	43.1	39.4	41.9	190	
200		29.3	29.6	32.2	30.7	32	34.5	32.6	33.2	35.9	33.1	34.6	37.8	34.6	38.4	35.1	38.8	200	
220		22.3	22.6	24.7	23.7	24.6	26.8	25.4	26	28.1	25.9	27.3	30	27.3	30.6	27.7	31.5	220	
240		17.4	17.6	19.2	18.5	19.2	20.8	19.8	20.3	21.9	20.3	21.4	23.6	21.5	24.1	21.8	25	240	
260			13.2	14.8	14.4	15	16.3	15.6	15.9	17.3	16.1	17	18.7	17.1	19.3	17.5	20	260	
280							12.1	11.8	12.2	13.4	12.5	13.4	14.8	13.5	15.3	13.8	16	280	
300										9.3	8.9	9.9	11.3	10.2	11.9	10.5	12.6	300	
320													7.5	6.7	8.4	7.1	9.4	320	
340																6	340		

		SL3 276 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
50	ft	229																50	ft
60		199	203	148	190	171												60	
70		169	170	143	170	162		156	133		132							70	
80		144	146	138	145	148	105	145	126		128	112		101		86.7		80	
90		125	126	131	126	128	101	126	120	83.3	121	106		95.2		84		90	
100		109	110	115	110	112	97.9	111	113	80.2	109	101	71.7	90.3	64.9	80.7		100	
110		96	97	102	97	98.5	95	97.4	99.4	77.7	96.4	95.7	68.9	85.8	62.2	76.6	57.2	110	
120		83.5	84.4	88.5	85.7	87	90.7	86.5	88.3	75.3	85.7	88.9	66.6	81.6	59.7	72.9	54.9	120	
130		73.2	74	77.2	75.1	76.3	80.3	76.3	78	72.8	76.3	79.3	64.2	77.4	57.4	70	52.7	130	
140		64	64.7	68	65.8	66.8	70.6	67.2	68.3	70.7	67.4	70.1	62.2	69.5	55.3	66.9	50.6	140	
150		56.2	56.9	59.7	57.8	58.7	62.5	59.2	60.5	64	59.7	61.8	60.3	61.8	53.4	61.5	48.7	150	
160		49.2	49.9	52.6	51	51.8	55.4	52.3	53.5	56.9	52.9	54.8	58	54.7	51.6	54.6	46.8	160	
170		43.3	43.9	46.5	45.1	45.6	49.1	46.3	47.4	50.7	46.8	48.6	52.7	48.7	50	48.6	45.2	170	
180		38	38.6	41	39.8	40.3	43.4	41	41.9	45.1	41.5	43.4	47	43.3	47.4	43.4	43.6	180	
190		33.3	33.9	36.1	35.1	35.6	38.6	36.2	37.1	40.1	36.7	38.4	41.9	38.3	42.6	38.8	42.1	190	
200		29.3	29.7	31.8	30.9	31.4	34.1	32	32.8	35.5	32.6	34.4	37.4	34.2	38	34.4	38.8	200	
220		22.4	22.6	24.5	23.8	24.2	26.5	24.8	25.5	27.7	25.3	26.9	29.7	26.9	30.1	27.1	31	220	
240		17.4	17.6	19	18.5	18.8	20.5	19.3	19.8	21.6	19.9	21	23.2	21	23.8	21.3	24.5	240	
260		13.1	13.3	14.6	14.4	14.6	16.1	15.2	15.5	17	15.6	16.7	18.4	16.7	18.9	17	19.6	260	
280					10.3	10.5	12	11.4	11.8	13.1	12.1	13	14.6	13.1	15	13.4	15.7	280	
300								7.7	7.9	9.2	8.5	9.5	11.1	9.8	11.6	10.1	12.3	300	
320												6	7.4	6.4	8.2	6.7	9.1	320	
340																5.8	340		

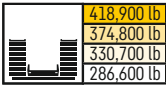


		SL3 285 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
50	50	223																	
60	60	197	199	148	185														
70	70	166	167	143	166	161		153			130								
80	80	142	143	138	142	144	105	143	126		127	111		100		86			
90	90	122	124	130	123	125	101	124	120	83.3	121	106		94.9		83.3			
100	100	107	108	113	108	110	98	108	110	80.7	107	101	71.7	90.2		79.1			
110	110	93.2	94.4	99	94.9	96.7	95	95.3	97.6	78	94.7	95.7	69	85.8	62	75.7	57.1		
120	120	81.7	82.8	86.7	83.6	85.1	90.9	84.7	86.2	75.4	83.7	87.3	66.7	81.5	59.8	72.8	54.8		
130	130	71.2	71.9	75.7	73.2	74.6	78.9	74.8	76.1	73.1	74.9	77.7	64.5	76.4	57.6	70	52.7		
140	140	62.1	62.8	66.5	64	65.2	69.4	65.5	67.3	70	66.1	68.5	62.4	68.1	55.5	67.3	50.6		
150	150	54.4	55.2	58.3	56.2	57.5	61.4	57.7	58.8	63.1	58.2	60.5	60.3	60.2	53.7	60.1	48.8		
160	160	47.6	48.3	51.3	49.4	50.3	54.2	50.8	52.1	55.7	51.5	53.6	57.9	53.4	51.9	53.5	47		
170	170	41.7	42.4	45	43.4	44.5	47.9	44.7	46.1	49.4	45.2	47.4	51.4	47.1	50.1	47.3	45.4		
180	180	36.4	37	39.6	38.2	38.9	42.2	39.6	40.6	43.8	40	42.2	45.8	42.1	46.2	42.3	43.9		
190	190	31.8	32.4	34.8	33.6	34.3	37.2	34.9	35.8	38.6	35.4	37.3	40.7	37.2	41.2	37.5	42		
200	200	27.8	28.2	30.5	29.4	30	32.9	30.6	31.4	34.3	31.2	32.8	36.1	33	36.8	33	37.8		
220	220	20.9	21.3	23	22.1	22.8	25.1	23.4	24.1	26.4	23.9	25.5	28.4	25.5	29	25.9	29.8		
240	240	16.1	16.3	17.7	17.2	17.5	19.4	18.1	18.7	20.4	18.7	19.8	22.2	19.9	22.6	20.2	23.5		
260	260	11.4	11.7	13.2	12.9	13.3	14.9	14	14.4	15.8	14.4	15.5	17.5	15.6	17.9	15.8	18.6		
280	280				8.7	9	10.7	9.9	10.4	12	10.8	11.9	13.5	11.9	13.9	12.3	14.7		
300	300							6.2	6.5	7.9	7	8	10	8.5	10.5	8.8	11.2		
320	320												6.1		7		7.8		

		SL3 295 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
50	50	211																	
60	60	193	195		175														
70	70	163	165	143	164	155		145			124								
80	80	138	140	138	140	143	105	139	125		122	108		97.3					
90	90	120	122	127	121	124	101	121	120	79.7	119	104		94.1		81.3			
100	100	104	106	111	106	109	98.2	107	108	79.7	105	98.5	71.6	89.7		78			
110	110	91.1	92.4	97.4	92.8	95.6	95.2	93.6	95.4	78.8	92.6	93.4	69.1	85.6	61.8	74.7	56.9		
120	120	80	81.3	85.9	81.8	84.5	88.9	82.7	84.4	76.8	82	84.3	66.8	81.3	59.6	71.9	54.7		
130	130	69.9	71	74.5	72.1	73.9	77.9	73.5	75	74.6	73.1	75.2	64.4	75	57.4	69.2	52.6		
140	140	60.6	61.8	64.9	62.7	64.7	68.6	64.2	66.1	70.8	64.5	66.3	62.6	66.5	55.4	65.2	50.7		
150	150	53.2	53.8	56.9	55.1	56.8	60.3	56.5	57.8	62.9	56.9	58.7	60.7	59	53.7	58.6	48.8		
160	160	46.5	47	50.1	48.2	49.8	52.9	49.6	50.8	55.6	50	51.5	57.1	52.4	52	52.3	47.1		
170	170	40.4	41.2	43.8	42.3	43.7	46.7	43.6	44.7	48.9	44	45.5	50.3	46	50.2	46.3	45.5		
180	180	35.1	35.8	38.4	37.1	38.5	41.1	38.4	39.3	43.4	38.8	40.1	44.8	40.8	45.3	41.1	43.9		
190	190	30.6	31	33.5	32.4	33.7	36.2	33.8	34.4	38.4	34.2	35.1	39.7	36.1	40.4	36.2	41.3		
200	200	26.4	27	29.2	28.2	29.5	31.7	29.5	30.4	34	29.9	31.1	35.2	31.7	35.9	31.9	36.7		
220	220	19.8	20.2	22	21.2	22.2	24.2	22.2	23.1	26.1	22.7	23.8	27.4	24.4	28	24.6	28.8		
240	240	15	15.3	16.8	16.2	17.1	18.6	17.2	17.7	20.2	17.7	18.3	21.2	18.9	21.7	19.2	22.4		
260	260	10.2	10.5	12.2	11.9	12.8	14.1	12.9	13.5	15.5	13.5	14.1	16.6	14.7	17	14.9	17.8		
280	280	6.1	6.3	7.6	7.6	8.4	9.7	8.9	9.4	11.6	9.7	10.3	12.6	11	13.1	11.3	13.8		
300	300						5.6							7.4	9.7	7.8	10.4		
320	320														6.1		6.9		

SL3F

SL3 305 - 335



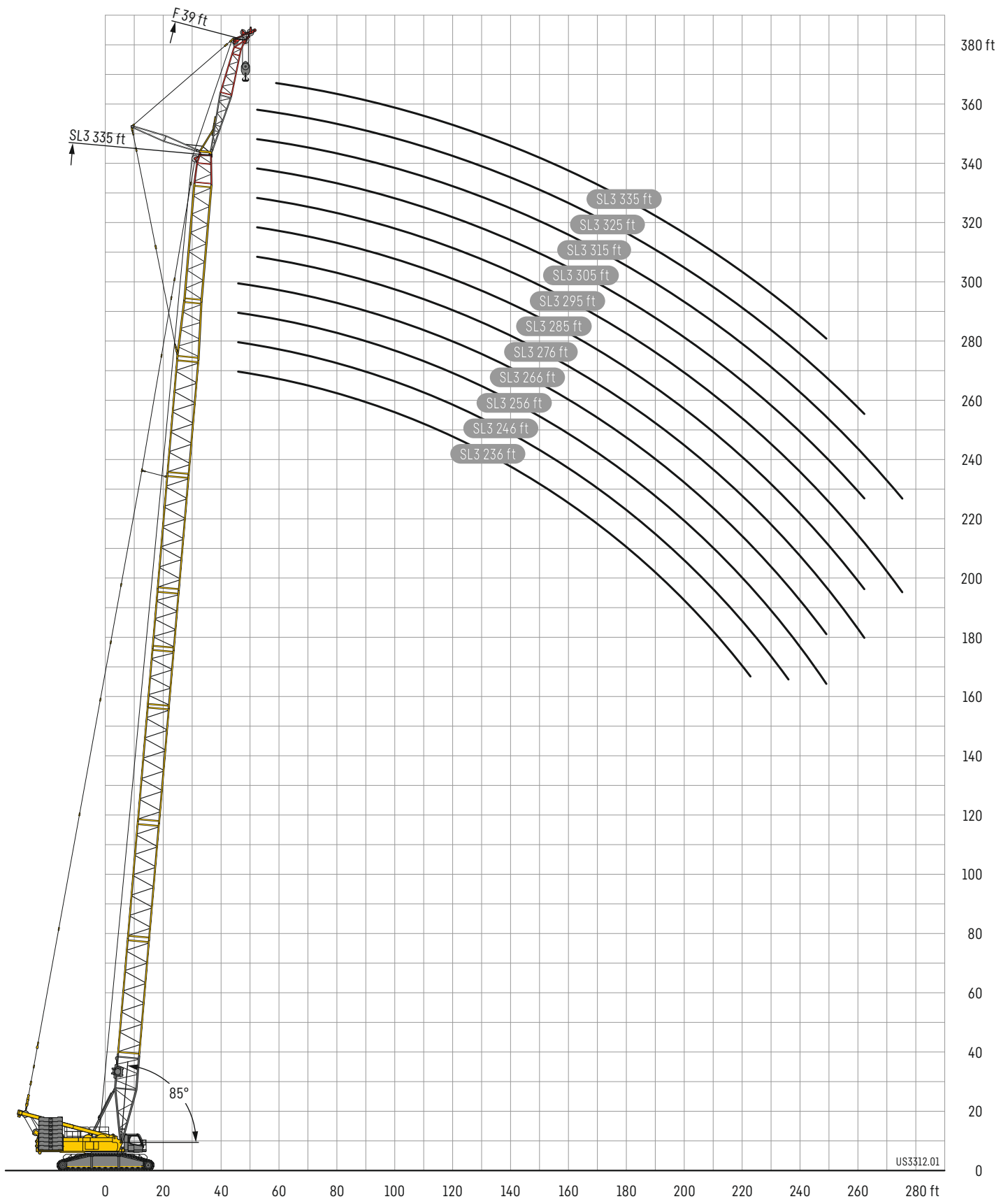
SL3 305 ft													
ft	F 39 ft			F 59 ft			F 79 ft			F 98 ft			ft
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	
50	206												50
60	189	190		170									60
70	160	161	143	161	152		141			121			70
80	137	137	139	138	140	105	135	122		119	107		80
90	118	118	125	119	122	102	119	118	79.7	116	103		90
100	101	103	109	103	106	98.2	104	106	79.7	103	98.7	71.4	100
110	88.7	90.2	94.9	90.4	93.5	95.3	91	93	79.2	90.3	92.8	69.1	110
120	78.1	78.9	84	79.9	82.1	87.3	80.7	82.6	77	80.4	82.2	66.8	120
130	68.3	69.5	73.3	70.3	72.3	76.9	71.2	73	74.9	71.1	73.4	64.7	130
140	59.3	60.4	63.4	61.3	63.1	67.3	62.8	64.3	70.1	63.2	64.7	62.7	140
150	51.6	52.1	55.7	53.6	55.2	58.7	54.9	56.3	61.3	55.6	57	60.7	150
160	44.6	45.4	48.5	46.8	48.4	51.8	48.3	49.4	54.3	48.4	50.2	55.7	160
170	38.9	39.4	42.4	40.6	42.2	45.3	42.3	43.2	47.8	42.8	43.9	49.2	170
180	33.7	34.1	37	35.5	37.1	39.9	36.9	38.1	42.2	37.3	38.8	43.5	180
190	28.9	29.6	32.2	30.9	32.2	34.8	32.1	33.3	37.2	32.8	34	38.6	190
200	24.8	25.4	27.9	26.6	28	30.3	28	29	32.6	28.3	29.7	34.1	200
220	18.5	18.8	20.8	19.9	21	22.8	21.1	21.6	24.9	21.6	22.4	26.2	220
240	13.6	13.8	15.6	14.9	15.9	17.3	16	16.5	19	16.4	17.1	20.2	240
260	8.6	8.9	10.8	10.4	11.4	12.9	11.7	12.2	14.4	12.2	12.9	15.5	260
280			6.2	6	7	8.4	7.4	7.9	10.5	8.2	9	11.7	280
300									6.2			7.8	300

SL3 315 ft														SL3 325 ft						SL3 335 ft					
ft	F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 39 ft			F 59 ft			F 39 ft			ft			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°				
60	185	182		157									180	176		155			169	165		60			
70	158	160	143	155	144		133			115			154	157	143	150	140		152	154	140	70			
80	135	136	138	136	138	104	128	117		113	103		131	134	137	134	135	104	129	132	137	80			
90	116	118	123	118	120	101	118	114	79.7	111	100		113	116	120	115	118	101	112	113	119	90			
100	101	103	107	103	105	98.2	103	106	79.7	103	97	71.1	98.5	100	105	100	102	98.2	96.5	97.9	103	100			
110	88.6	89.4	93.6	90.1	91.6	94.9	90.2	93.4	79.3	90	92	68.8	86	87.1	91.5	88.2	89.9	95	84	85.1	89.9	110			
120	77.7	78.5	82.4	79.4	80.8	85.6	78.9	82	77.2	79.9	82.6	66.6	75	76.5	80.8	77.1	78.8	84.1	73.3	74.4	78.9	120			
130	68.3	69.1	72.4	70.1	71.5	75.9	70	72.8	74.8	70.6	73	64.6	66.1	67	70.9	67.8	69.2	74.2	64.2	65.2	68.9	130			
140	59.1	60.1	62.8	61.1	62.8	66.2	62.1	64.7	69.4	62.9	64.6	62.7	57.4	58.3	61.7	59.6	60.9	65.2	56.3	57.2	60.4	140			
150	51.5	52.1	54.8	53.5	54.6	57.9	54	56.4	61	55.4	57.4	60.7	49.8	50.6	53.2	51.8	53	56.6	48.5	49.3	52.2	150			
160	44.6	45.3	47.8	46.5	47.7	50.8	47.6	49.4	53.7	48.5	50.4	55	43.2	43.9	46.5	45.2	46.3	49.6	41.7	42.7	45.3	160			
170	38.8	39.4	41.7	40.6	41.7	44.7	41.5	43.4	47	42.7	44.3	48.7	37.1	38.1	40.3	39.4	40.3	43.4	36	36.7	39.2	170			
180	33.4	34.3	36.2	35.5	36.4	39.3	36	38	41.6	37.4	38.8	42.9	32.1	32.7	34.9	34	34.8	37.8	30.6	31.3	33.9	180			
190	29	29.6	31.4	30.9	31.5	34.3	31.4	33.3	36.5	32.8	34.1	38.1	27.5	28	30.2	29.2	30.1	32.9	26.1	26.8	29	190			
200	24.9	25.4	27.3	26.7	27.4	29.9	27.4	28.9	31.9	28.6	29.7	33.5	23.3	23.8	25.8	25.1	26	28.6	22.1	22.7	24.7	200			
220	18.5	18.9	20.3	19.9	20.4	22.3	20.5	21.8	24.3	21.5	22.4	25.7	17.1	17.5	19.1	18.7	19.1	21.3	16.2	16.6	18.1	220			
240	13.7	13.9	15.1	14.9	15.3	16.9	15.4	16.5	18.6	16.4	17.2	19.7	12.3	12.6	13.9	13.6	14.1	15.8	11.1	11.5	13	240			
260	8.9	9.2	10.5	10.7	11.1	12.5	11.2	12.3	14	12.3	12.9	15.1	7.2	7.6	9.1	9.2	9.8	11.3	6	6.5	8	260			
280			6	6.2	6.6	8.2	7.1	8.1	10	8.5	9.2	11.2						6.7				280			
300									6			7.5										300			

Lifting heights

Hauteurs de levage

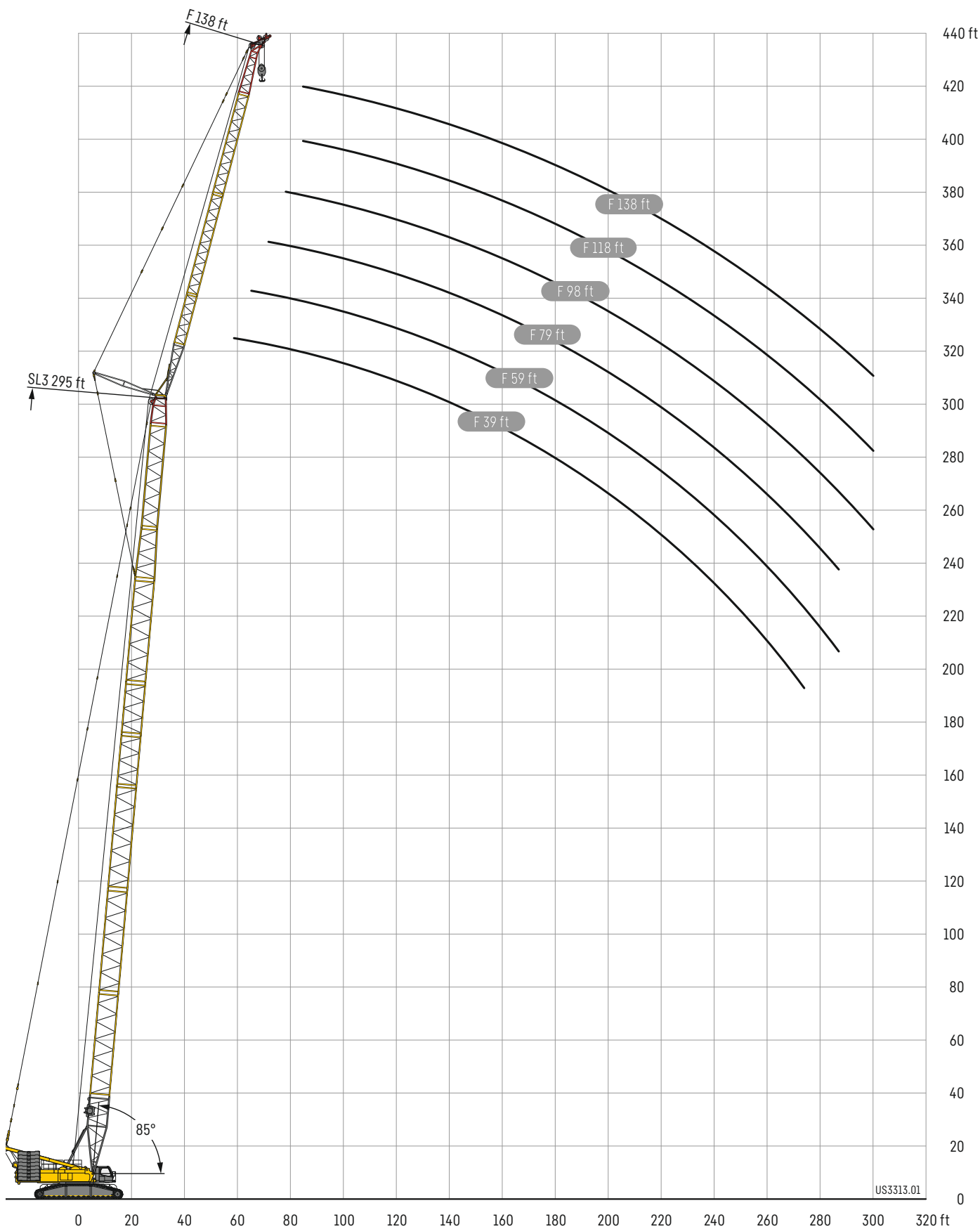
SL3F

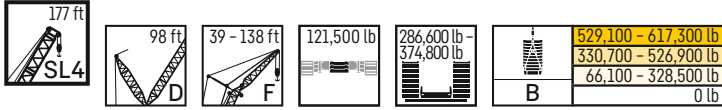


Lifting heights

Hauteurs de levage

SL3F





ft		SL4 177 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
38	0 lb	271															
	B	271															
40	0 lb	271															
	B	271															
45	0 lb	271	258		233												
	B	271	258		233												
50	0 lb	271	247	152	222	184											
	B	271	247	152	222	185											
60	0 lb	228	225	144	201	170		167	144		151						
	B	270	226	144	201	170		168	144		151						
70	0 lb	193	194	136	184	158	107	153	132		137	118		110		97.5	
	B	252	209	136	184	158	107	153	133		137	118		110		97.5	
80	0 lb	165	166	130	165	146	102	141	123	86.3	126	110	78.5	101		91.7	
	B	231	194	130	170	147	102	141	123	86.3	126	110	78.5	101		91.7	
90	0 lb	141	142	124	142	137	96.7	131	115	81.9	116	102	74.2	93.7	68.3	86.2	
	B	213	181	124	157	137	96.7	131	115	81.9	116	102	74.2	93.7	68.3	86.2	
100	0 lb	121	122	119	123	124	92.2	121	107	77.9	107	95.5	70.4	86.9	64.3	80.8	60.3
	B	198	170	119	147	129	92.3	121	108	77.9	107	95.5	70.4	86.9	64.3	80.8	60.3
110	0 lb	105	106	109	107	108	88.5	108	101	74.4	99.8	89.5	66.9	81.3	60.8	74.7	56.9
	B	185	160	115	137	121	88.5	113	101	74.4	99.8	89.6	66.9	81.3	60.8	74.7	56.9
120	0 lb	92.3	92.6	95.6	93.8	95	85	94.6	94.3	71.1	92.6	84.1	63.7	76	57.7	69.8	53.6
	B	174	152	111	129	115	85	106	95.1	71.1	93.1	84.2	63.7	76.1	57.7	69.9	53.7
130	0 lb	81.3	82.1	84.5	83	84.3	81.8	84	85.4	68.2	84.5	79.4	60.8	71.2	54.8	65.8	50.8
	B	164	145	107	122	109	82	100	90.3	68.2	87.4	79.4	60.8	71.2	54.8	65.9	50.9
140	0 lb	72.3	73	75.1	73.9	74.8	77.2	74.9	76.1	65.7	75.7	75	58.2	67.3	52.3	61.8	48.3
	B	155	138	104	115	104	79.3	94.4	85.7	65.7	82.3	75	58.2	67.3	52.3	61.8	48.3
150	0 lb	64.7	65	67.2	66.1	67	69.5	66.9	68.2	63.3	67.9	69.2	55.8	63.6	50	58.2	45.9
	B	148	133	102	109	99.3	76.9	89.6	81.8	63.3	77.8	71.3	55.8	63.6	50	58.2	45.9
160	0 lb	58.1	58.3	60.2	59.4	60.3	62.3	60.3	61.3	61.2	61	62.4	53.6	60.1	47.9	54.9	43.7
	B	141	127	99.7	104	95.3	74.9	85.3	78.1	61.2	73.7	67.9	53.6	60.2	47.9	54.9	43.7
170	0 lb	52.2	52.4	54.1	53.5	54.3	56.2	54.3	55.5	57.4	55.2	56.6	51.7	56.3	45.9	52	41.8
	B	136	123	98.1	99.9	91.8	73.2	81.3	75.1	59.4	70.1	64.9	51.7	57.3	45.9	52	41.8
180	0 lb	47.2	47.4	48.8	48.3	49.1	50.8	49.1	50.2	52	50.1	51.2	49.9	51.2	44.1	49.3	40
	B	130	119	96.9	95.9	88.6	71.6	77.8	72.1	57.8	66.8	62.1	50	54.7	44.1	49.3	40
190	0 lb				43.7	44.4	45.8	44.5	45.4	47	45.4	46.5	48	46.5	42.5	46.7	38.3
	B				92.3	85.6	70.5	74.6	69.4	56.4	63.8	59.5	48.5	52.2	42.5	47	38.3
200	0 lb				39.7	40.2	41.5	40.5	41.2	42.7	41.3	42.3	44.2	42.3	41.1	43.5	36.8
	B				89.2	83.4	69.7	71.7	67.1	55.1	61.1	57.2	47.1	49.9	41.1	44.9	36.8
220	0 lb								34	35.1	34.3	35.1	36.6	35.2	37.2	36.2	34.2
	B								63.1	53.1	56.3	53.3	44.8	46.1	38.6	40.9	34.2
240	0 lb												30.3	29.3	30.8	30.3	31.8
	B												43.2	42.8	36.5	37.7	32
260	0 lb														25.5	25.3	27
	B														35.1	34.9	30.2



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 187 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
38	0 lb	271															
	B	271															
40	0 lb	271															
	B	271															
45	0 lb	271	259														
	B	271	259														
50	0 lb	271	248	153	223												
	B	271	248	153	223												
60	0 lb	227	227	145	203	171		169	144		150						
	B	271	228	145	203	171		169	144		150						
70	0 lb	191	193	138	186	159	108	155	133		137	118		110		97.6	
	B	254	212	138	186	159	108	155	133		137	118		110		97.6	
80	0 lb	164	166	131	164	148	102	143	124	86.5	126	109		102		91.9	
	B	235	197	131	172	148	102	143	124	86.5	126	109		102		91.9	
90	0 lb	141	143	125	143	139	97.6	132	116	82.3	116	102	74.4	94.2		86.6	
	B	217	184	125	160	139	97.6	133	116	82.3	116	102	74.4	94.2		86.6	
100	0 lb	121	122	120	123	125	93.2	123	109	78.4	108	95.3	70.6	87.8	64.5	81.5	60.6
	B	202	173	120	149	131	93.2	123	109	78.4	108	95.3	70.6	87.8	64.5	81.6	60.6
110	0 lb	105	106	109	107	109	89.4	108	102	74.9	100	89.5	67.2	82.1	61.1	75.6	57.1
	B	188	164	116	140	123	89.4	115	103	75	100	89.5	67.2	82.1	61.2	75.6	57.1
120	0 lb	91.9	93	96.4	94	95.4	85.8	95.2	96.1	71.8	93.6	84.2	64.1	77	58.1	70.8	54
	B	178	155	112	132	117	86	108	96.7	71.9	93.8	84.2	64.1	77	58.2	70.8	54.1
130	0 lb	81	81.9	84.8	83.1	84.6	83	84.2	86	68.9	84.4	79.5	61.4	72.3	55.4	66.7	51.2
	B	168	148	108	124	111	83	102	91.7	68.9	88.1	79.5	61.4	72.3	55.4	66.7	51.3
140	0 lb	71.7	72.7	75.6	73.9	75	78	74.9	76.6	66.3	75	74.9	58.9	68.2	52.9	62.6	48.6
	B	159	141	106	118	106	80.3	96.2	87.3	66.3	82.8	75.3	58.9	68.2	52.9	62.6	48.7
150	0 lb	63.9	64.8	67.4	66	67.2	69.9	67.1	68.3	64	67.5	69	56.5	64.6	50.5	59	46.3
	B	151	135	103	112	101	78	91.4	83.2	64	78.6	71.6	56.5	64.6	50.5	59.1	46.3
160	0 lb	57.2	58.2	60.2	59	60.1	62.4	60.2	61.4	62	60.5	62.2	54.3	61.3	48.4	55.8	44.3
	B	144	130	101	107	97.3	75.8	87.2	79.6	62	74.4	68.3	54.3	61.4	48.4	55.8	44.3
170	0 lb	51.4	52.1	54	53.1	54.2	56.3	54.1	55.3	57.6	54.6	55.9	52.4	56.6	46.5	52.8	42.3
	B	138	126	98.9	102	93.6	74	83.2	76.4	60.2	70.8	65.2	52.4	58.3	46.5	52.9	42.3
180	0 lb	46.3	46.9	48.7	47.9	48.7	50.7	48.9	50	52.1	49.3	50.5	50.6	51.1	44.7	50.1	40.6
	B	133	122	97.6	98.3	90.2	72.4	79.6	73.5	58.6	67.5	62.4	50.6	55.6	44.7	50.2	40.6
190	0 lb	41.7	42.3	43.7	43.3	44	45.8	44.2	45.3	47	44.6	46	48.4	46.4	43.1	46.2	38.9
	B	129	118	96.6	94.6	87.4	71.1	76.3	70.9	57	64.5	59.9	49.1	53.3	43.1	47.8	38.9
200	0 lb				39.1	39.8	41.3	40	41	42.6	40.5	41.7	44.3	42.1	41.6	41.9	37.4
	B				91.3	84.9	70	73.4	68.5	55.8	61.9	57.6	47.8	51	41.6	45.6	37.4
220	0 lb							32.9	33.6	34.9	33.4	34.4	36.5	34.8	37	34.8	34.7
	B							68.4	64.4	53.7	57.1	53.8	45.4	47.1	39	41.8	34.8
240	0 lb										27.5	28.3	30	28.9	30.7	28.8	31.1
	B										53.3	50.5	43.6	43.7	37.1	38.4	32.5
260	0 lb													23.8	25.2	23.9	25.7
	B													41	35.4	35.7	30.7
280	0 lb															20.1	21.3
	B															33.4	29.2



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 197 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
40	0 lb	271															
	B	271															
45	0 lb	271	260														
	B	271	260														
50	0 lb	267	250		224												
	B	271	250		224												
60	0 lb	221	223	145	204	171		169	144		151						
	B	271	231	146	204	171		169	144		152						
70	0 lb	186	188	138	185	160	108	155	133		139	118		110		97.1	
	B	259	214	138	188	160	108	156	134		139	118		110		97.1	
80	0 lb	159	160	132	159	149	103	144	125	86.7	128	111		102		91.9	
	B	240	200	132	174	149	103	144	125	86.7	128	111		102		91.9	
90	0 lb	138	139	127	139	139	98	134	117	82.5	118	104	74.6	94.9		86.7	
	B	222	187	127	162	140	98	134	117	82.5	118	104	74.6	94.9		86.7	
100	0 lb	118	119	121	120	122	93.8	121	110	78.9	110	97.4	70.8	88.3	64.7	82	60.5
	B	207	176	122	151	132	93.8	125	110	78.9	110	97.4	70.9	88.4	64.7	82	60.5
110	0 lb	103	104	107	105	106	90.2	105	103	75.4	103	91.8	67.5	82.8	61.5	76.5	57.2
	B	194	167	117	142	125	90.2	117	103	75.4	103	91.8	67.5	82.8	61.5	76.5	57.2
120	0 lb	89.5	90.3	93.7	91.6	92.7	86.8	92.4	94.3	72.3	93.2	86.4	64.7	77.8	58.4	71.4	54.2
	B	182	158	113	134	119	86.8	110	98	72.3	96.2	86.4	64.7	77.8	58.4	71.4	54.2
130	0 lb	78.9	79.6	82.6	80.8	82.1	83.5	81.7	83.1	69.6	82.7	81.5	61.8	73.4	55.7	67.2	51.5
	B	172	150	110	127	113	83.9	104	92.8	69.6	90.5	81.6	61.8	73.4	55.7	67.3	51.5
140	0 lb	70.1	70.5	73.1	71.6	73	75.9	72.8	74.1	67	73.4	75.1	59.3	69.3	53.3	63.6	49
	B	164	144	107	120	108	81.3	98.1	88.5	67	85.3	77.4	59.3	69.3	53.3	63.6	49
150	0 lb	62.4	62.7	65.1	63.8	65	67.5	64.6	66.3	64.8	65.7	67.5	57	65.3	50.9	59.9	46.7
	B	156	138	104	115	103	78.8	92.9	84.6	64.8	80.6	73.6	57	65.5	50.9	60	46.7
160	0 lb	55.7	56.1	58.2	56.9	58.1	60.6	58.1	59.4	61.8	59	60.5	54.9	60.5	48.8	56.7	44.6
	B	149	133	102	109	99.1	76.7	88.7	81	62.6	76.6	70.2	54.9	62.3	48.8	56.7	44.7
170	0 lb	49.9	50.2	52.1	51.2	52.1	54.4	52.1	53.3	55.7	53.1	54.6	53	54.3	46.8	53.6	42.6
	B	143	128	99.8	105	95.2	74.9	84.8	77.7	60.8	72.9	67.2	53	59.2	46.9	53.7	42.7
180	0 lb	44.7	45	46.9	46	46.8	48.9	47	48.1	50.2	47.8	49.2	51.2	49.2	45.1	50.3	40.9
	B	137	124	98.3	100	92	73.2	81.2	74.8	59.2	69.6	64.4	51.2	56.6	45.2	51.1	41
190	0 lb	40.2	40.5	42.1	41.5	42.3	44	42.4	43.3	45.2	43.3	44.6	46.9	44.6	43.7	45.6	39.3
	B	132	121	97.2	96.6	89	71.8	77.9	72	57.7	66.6	62	49.7	54.2	43.7	48.6	39.3
200	0 lb		36.4	37.8	37.4	38.1	39.6	38.2	39.1	40.8	39.2	40.3	42.5	40.3	42.1	41.6	37.8
	B		117	96.5	93.4	86.4	70.7	74.9	69.6	56.4	63.9	59.5	48.4	52	42.2	46.5	37.8
220	0 lb						32.1	31.2	32	33.3	32.1	33.1	34.9	33.1	35.4	34.2	35.2
	B						69.3	69.8	65.5	54.3	58.9	55.5	45.9	48	39.6	42.6	35.2
240	0 lb									27	26.3	27.2	28.6	27.2	29.1	28.2	30.5
	B									52.9	55	52.1	44.1	44.6	37.5	39.2	32.9
260	0 lb													22.3	23.8	23.3	25.3
	B													41.8	35.8	36.3	31.1
280	0 lb															19.5	20.9
	B															34	29.6



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 207 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
40	0 lb	271															
	B	271															
45	0 lb	271	260														
	B	271	261														
50	0 lb	266	251		224												
	B	271	251		225												
60	0 lb	220	223	146	206	172		170	144		153						
	B	271	232	146	206	172		170	144		153						
70	0 lb	185	187	139	186	161	108	156	134		140	119		110		97.2	
	B	261	217	139	190	161	109	157	134		140	119		110		97.2	
80	0 lb	158	161	133	159	151	103	145	125	87	129	111		102		92	
	B	241	203	133	176	151	103	145	125	87	129	111		102		92	
90	0 lb	137	139	128	138	141	98.7	135	117	82.9	119	103	74.6	95.3		87	
	B	225	190	128	164	142	98.9	135	117	82.9	119	103	74.8	95.4		87	
100	0 lb	118	120	122	121	123	94.5	121	111	79.2	111	97.1	71.1	89.2	64.9	82.3	60.6
	B	210	179	123	154	134	94.6	126	111	79.3	111	97.1	71.1	89.2	65	82.3	60.6
110	0 lb	103	104	108	105	107	91.2	106	105	75.8	104	91.4	67.9	83.6	61.8	77.3	57.4
	B	197	170	119	144	127	91.2	118	105	75.9	104	91.4	67.9	83.6	61.8	77.3	57.4
120	0 lb	89.4	90.8	94.1	91.6	93.5	87.8	93	94.9	73	93.5	86.4	65	78.6	58.7	72	54.6
	B	186	161	115	136	120	87.8	112	99.3	73	97.5	86.4	65.1	78.6	58.8	72	54.6
130	0 lb	78.3	79.8	83	80.8	82.5	84.1	82	84	70.2	82.9	81.6	62.3	74	56.1	68	51.9
	B	175	154	111	129	115	84.8	105	94.4	70.2	91.8	81.6	62.3	74.1	56.1	68	51.9
140	0 lb	69.3	70.6	73.4	71.5	72.9	76.1	72.7	74.5	67.6	73.6	75	59.9	70.1	53.6	64.4	49.5
	B	167	147	108	123	110	82	99.7	89.8	67.6	86.7	77.4	59.9	70.1	53.6	64.4	49.5
150	0 lb	61.6	62.5	65.3	63.7	65.1	67.8	64.8	66.4	65.4	65.7	67	57.6	66.5	51.4	60.6	47.2
	B	159	141	105	117	105	79.7	94.8	85.8	65.4	82.1	73.7	57.6	66.6	51.4	60.6	47.2
160	0 lb	54.8	55.7	58.2	56.8	58	60.7	58.1	59.3	61.7	59.1	60.2	55.5	60.7	49.3	57.3	45
	B	152	136	103	112	101	77.6	90.5	82	63.4	78	70.4	55.5	63.3	49.3	57.5	45
170	0 lb	48.9	49.7	52.1	50.9	51.9	54.3	51.8	53.3	55.8	53.1	53.9	53.5	54.4	47.3	54.2	43.1
	B	146	131	101	107	97.2	75.8	86.3	78.8	61.4	74.3	67.3	53.6	60.2	47.4	54.6	43.1
180	0 lb	43.8	44.5	46.7	45.6	46.6	49	46.7	47.9	50.1	47.7	48.6	51.3	49.2	45.6	48.9	41.4
	B	140	127	99.3	103	93.8	74.1	82.8	76	59.8	70.9	64.6	51.9	57.6	45.6	51.9	41.4
190	0 lb	39.2	39.9	41.8	41	41.9	43.9	42	43.1	45.3	43	43.9	47	44.5	44	44.3	39.8
	B	135	123	98	98.9	90.8	72.7	79.3	73.3	58.4	67.9	62.1	50.3	55.1	44.1	49.6	39.8
200	0 lb	35.2	35.8	37.5	36.8	37.7	39.5	37.8	38.8	40.8	38.8	39.5	42.5	40.1	42.3	40	38.3
	B	130	120	96.9	95.3	88.1	71.4	76.6	70.9	57	65.1	59.7	48.9	52.8	42.7	47.3	38.3
220	0 lb				29.7	30.4	31.8	30.7	31.5	33.1	31.7	32.3	34.8	32.8	35.4	32.7	35.6
	B				89.6	83.6	69.6	71.4	66.7	54.8	60.2	55.7	46.5	48.8	40.2	43.4	35.7
240	0 lb							24.8	25.5	26.7	25.7	26.3	28.3	26.8	28.9	26.9	29.4
	B							67.1	63.3	53.3	56.1	52.3	44.5	45.4	38	40.1	33.5
260	0 lb											21.4	22.8	21.8	23.4	22	24.1
	B											49.6	43.1	42.6	36.2	37.2	31.6
280	0 lb														19.3	18.3	19.8
	B														34.9	34.8	30
300	0 lb																16.4
	B																28.9



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 217 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
45	0 lb	271	262														
	B	271	262														
50	0 lb	259	252		225												
	B	271	252		225												
60	0 lb	214	216	147	207	173					153						
	B	271	234	147	207	173					153						
70	0 lb	180	182	140	179	162	109	158	135		140	118		110			97.2
	B	267	219	140	191	162	109	158	135		140	118		111			97.2
80	0 lb	153	155	134	154	152	104	147	126	87.1	130	113		103			92.4
	B	246	205	134	178	152	104	147	126	87.1	130	113		103			92.4
90	0 lb	133	135	129	134	136	99.5	133	119	83.3	121	106	75	95.9			87.2
	B	230	193	129	166	143	99.5	136	119	83.3	121	106	75.1	96			87.2
100	0 lb	116	117	121	117	119	95.6	117	112	79.6	113	99.2	71.5	89.7	65.1		82.6
	B	215	182	124	156	135	95.6	128	112	79.6	113	99.2	71.6	89.7	65.1		82.6
110	0 lb	100	101	105	102	104	91.9	103	105	76.3	104	93.6	68.3	84.2	62		77.9
	B	202	173	120	147	129	91.9	120	106	76.3	106	93.6	68.3	84.4	62		77.9
120	0 lb	87	88.2	91.6	88.9	90.6	88.7	90.2	91.8	73.2	90.8	88.2	65.4	79.3	59.2		73.1
	B	191	164	116	138	122	88.7	113	101	73.3	98.8	88.4	65.4	79.5	59.2		73.1
130	0 lb	76.6	77	80.5	78.2	79.9	83.3	79.8	81.1	70.7	80.4	82.2	62.7	75.1	56.5		68.8
	B	180	156	112	131	117	85.7	107	95.5	70.7	93.2	83.8	62.7	75.1	56.6		68.8
140	0 lb	67.6	68.4	71.3	69.2	70.6	73.9	70.4	71.8	68.3	71.4	73.1	60.4	71	54.1		65.1
	B	171	150	109	125	111	83	101	91	68.3	88.1	79.5	60.4	71	54.2		65.1
150	0 lb	59.9	60.5	63.1	61.5	62.8	65.7	62.6	64	65.9	63.7	65.3	58.1	65.1	51.9		61.5
	B	163	144	107	119	107	80.6	96.5	87	65.9	83.6	75.9	58.1	67.4	51.9		61.5
160	0 lb	53.2	53.6	56.2	54.7	55.9	58.7	55.9	57.4	60.1	56.8	58.4	56	58.3	49.7		58.4
	B	156	138	104	114	103	78.5	92.1	83.5	63.9	79.4	72.4	56	64.2	49.8		58.4
170	0 lb	47.5	47.9	50.2	49	50.1	52.4	49.8	51.4	53.8	50.9	52.5	54.1	52.5	47.9		53.7
	B	150	134	102	109	99	76.5	87.9	80.2	62	75.7	69.3	54.1	61.3	48		55.5
180	0 lb	42.3	42.7	44.8	43.6	44.7	47	44.8	46	48.4	45.6	47.4	50.1	47.2	46.2		48.4
	B	144	129	100	105	95.6	74.8	84.4	77.3	60.4	72.2	66.6	52.4	58.5	46.2		52.7
190	0 lb	37.8	38.1	40.1	39.1	40.1	42.1	40.1	41.2	43.4	41.1	42.5	45.1	42.6	44.5		43.6
	B	139	125	98.7	101	92.5	73.3	80.9	74.6	58.9	69.2	63.9	50.9	56	44.6		50.3
200	0 lb	33.8	34	35.9	35.1	35.9	37.8	36	37.1	39	37.1	38.4	40.8	38.4	41.2		39.4
	B	134	122	97.5	97.5	89.7	71.9	77.9	72.2	57.5	66.4	61.7	49.5	53.7	43.1		48.1
220	0 lb				28.1	28.7	30.3	28.9	29.9	31.4	30	31	33.1	31.2	33.7		32.3
	B				91.4	84.9	70.1	72.6	67.9	55.2	61.5	57.4	47	49.7	40.6		44.2
240	0 lb							23.2	23.9	25.2	24.1	25.1	26.8	25.2	27.3		26.2
	B							68.4	64.3	53.6	57.3	54	44.9	46.3	38.4		40.8
260	0 lb										19.8	20.4	21.6	20.5	22.1		21.4
	B										53.7	51.1	43.4	43.4	36.6		38
280	0 lb													16.9	18.2		17.8
	B													40.9	35.3		35.5
300	0 lb																14.7
	B																33.4



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 226 ft																	
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft			
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
45	0 lb	271																	
	B	271																	
50	0 lb	258	252		224														
	B	271	253		225														
60	0 lb	212	215	147	207	173				172			153						
	B	271	236	148	208	173				172			153						
70	0 lb	178	181	141	179	163	109	158	135				141	119		111			
	B	266	220	141	193	163	109	158	135				141	119		111			
80	0 lb	152	155	135	153	153	104	147	127	87.4			131	111		103	92.3		
	B	248	208	135	179	153	104	148	127	87.4			131	111		103	92.3		
90	0 lb	132	134	130	133	136	100	133	119	83.6			122	105	75.2	96.4	87.5		
	B	232	196	130	168	144	100	138	119	83.6			122	105	75.2	96.4	87.6		
100	0 lb	115	117	122	117	120	96.2	117	113	80.1			113	98.3	71.7	90.5	65.3	81.9	60.7
	B	218	185	125	158	137	96.2	129	113	80.1			113	98.4	71.8	90.5	65.4	81.9	60.7
110	0 lb	100	101	106	102	104	92.6	103	105	76.7			104	92.9	68.7	84.9	62.2	76.9	57.7
	B	205	175	121	149	130	92.7	122	107	76.7			107	92.9	68.8	84.9	62.2	76.9	57.7
120	0 lb	86.9	88.2	92.3	89.3	91.3	89.5	90.4	92.9	73.9			91.5	87.9	65.7	80.3	59.4	73.3	54.9
	B	193	167	117	141	124	89.5	115	102	73.9			100	88	65.7	80.3	59.4	73.3	54.9
130	0 lb	76	77.4	80.9	78.4	79.9	83.9	79.8	81.6	71.3			80.6	81.8	63.2	75.9	56.9	69.6	52.4
	B	183	159	114	133	118	86.5	109	96.6	71.3			94.5	83.5	63.2	75.9	56.9	69.6	52.4
140	0 lb	66.7	68	71.4	69.4	70.8	74.3	70.5	72.2	68.8			71.7	72.9	60.8	71.9	54.5	65.9	50.1
	B	174	152	110	127	113	83.8	103	92.2	68.8			89.4	79.5	60.8	72	54.5	65.9	50.1
150	0 lb	59.1	60.2	63.2	61.5	62.9	65.9	62.6	64.2	65.8			63.6	65.2	58.6	65.5	52.3	62.3	47.9
	B	166	146	107	121	109	81.3	98	88.3	66.5			84.8	75.8	58.6	68.3	52.3	62.4	47.9
160	0 lb	52.3	53.4	56.4	54.5	55.9	58.9	55.9	57.4	60.4			57	58.2	56.5	58.4	50.3	57.8	45.8
	B	159	141	105	116	104	79.2	93.6	84.7	64.5			80.8	72.5	56.5	65	50.3	59.2	45.8
170	0 lb	46.4	47.5	50.1	48.5	49.9	52.5	49.9	51.1	54			50.8	51.8	54.2	52.6	48.3	52.2	44.1
	B	152	136	103	111	101	77.4	89.6	81.2	62.6			76.9	69.3	54.6	62.2	48.3	56.2	44.1
180	0 lb	41.4	42.2	44.6	43.3	44.5	47.1	44.5	45.9	48.4			45.6	46.7	50.3	47.3	46.6	47	42.3
	B	146	132	101	107	97.2	75.7	85.9	78.4	61			73.6	66.6	52.9	59.4	46.6	53.6	42.3
190	0 lb	36.7	37.6	39.7	38.6	39.7	42.1	39.8	41	43.4			41	41.7	45.2	42.4	44.7	42.3	40.7
	B	141	128	99.5	103	94	74.1	82.6	75.7	59.5			70.6	64	51.3	56.9	45.1	51.1	40.7
200	0 lb	32.7	33.4	35.5	34.5	35.5	37.6	35.5	36.7	38.9			36.7	37.6	40.8	38.1	41.4	37.9	39.1
	B	136	124	98.2	99.6	91.2	72.7	79.3	73.1	58.1			67.8	61.8	49.9	54.6	43.7	48.9	39.2
220	0 lb	25.8	26.4	28	27.4	28.2	30	28.4	29.4	31.2			29.5	30.2	33	30.8	33.5	30.7	34
	B	128	118	96.5	93.1	86.4	70.6	74	68.8	55.8			62.6	57.5	47.5	50.7	41.1	45	36.6
240	0 lb				21.7	22.3	23.6	22.5	23.3	24.9			23.6	24.2	26.6	24.8	27.1	24.7	27.6
	B				88.3	82.5	69.2	69.6	65.1	54			58.4	54.1	45.4	47.1	38.9	41.6	34.4
260	0 lb									19.9			19.1	19.6	21.3	20.1	21.7	20.2	22.3
	B									52.8			54.7	51.1	43.7	44.1	37.1	38.7	32.5
280	0 lb														17.3	16.4	17.8	16.5	18.3
	B														42.8	41.7	35.7	36.2	30.8
300	0 lb																14.4	13.5	14.9
	B																34.6	34	29.5



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 236 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
45	0 lb	268															
	B	270															
50	0 lb	251	251														
	B	271	253														
60	0 lb	207	208	148	205	174				171			152				
	B	271	236	148	208	174				172			152				
70	0 lb	174	176	141	173	163	109			159	136		141	118			
	B	268	222	142	193	163	109			159	136		141	118			
80	0 lb	148	150	136	148	151	105			147	127	87.4	131	113		103	91.7
	B	252	208	136	180	154	105			148	127	87.4	131	113		103	91.7
90	0 lb	129	130	131	129	132	101			129	120	83.7	122	106	75.1	96.6	87.1
	B	237	197	131	169	146	101			139	120	83.7	122	106	75.1	96.6	87.1
100	0 lb	112	114	119	113	115	96.7			113	114	80.2	112	100	71.8	90.7	65.3
	B	222	187	126	159	138	96.7			130	114	80.2	114	100	71.8	90.8	65.3
110	0 lb	97	98	102	99	102	93.2			100	103	77.1	99.6	94.7	68.9	85.3	62.3
	B	209	177	122	150	131	93.2			123	108	77.1	107	94.7	68.9	85.5	62.3
120	0 lb	84.7	85.6	89.2	86.7	88.5	89.9			87.5	89.6	74.3	88.4	89.2	66.1	80.7	59.5
	B	198	169	118	142	125	90.2			116	102	74.3	101	89.9	66.1	80.7	59.5
130	0 lb	74.1	74.8	78.1	75.6	77.4	81.1			77.1	79.1	71.7	78	80.3	63.6	76.5	57
	B	188	161	114	135	119	87.3			110	97.7	71.7	95.5	85.5	63.6	76.5	57
140	0 lb	64.9	65.6	69.2	66.8	68.5	71.8			68	70	69.1	68.8	70.9	61.3	70.5	54.8
	B	178	155	111	129	115	84.6			104	93.4	69.2	90.3	81.3	61.3	72.6	54.8
150	0 lb	57.3	57.9	61	59.1	60.6	63.9			60.3	61.9	65.1	61.3	63.2	59	63.1	52.6
	B	170	149	109	123	110	82.2			99.4	89.2	66.9	85.9	77.6	59	69.1	52.6
160	0 lb	50.7	51.2	54.1	52.2	53.7	56.5			53.5	55.2	58.1	54.6	56.4	56.9	56.3	50.7
	B	163	143	106	118	106	80			94.8	85.8	65	81.9	74.3	57	65.8	50.7
170	0 lb	44.8	45.4	48.1	46.4	47.7	50.4			47.6	49	52	48.5	50.5	53.5	50.4	48.9
	B	156	138	104	113	102	78.1			90.9	82.3	63.2	78	71.3	55.1	62.8	48.9
180	0 lb	39.8	40.1	42.7	41.4	42.4	44.9			42.3	43.9	46.3	43.3	45.2	48.4	45	47.1
	B	150	134	102	109	98.8	76.3			87.3	79.5	61.4	74.6	68.4	53.4	60	47.1
190	0 lb	35.3	35.6	37.9	36.6	37.7	40.1			37.7	39	41.6	38.8	40.3	43.4	40.5	43.7
	B	145	130	100	105	95.5	74.7			83.9	76.7	59.9	71.6	65.9	51.8	57.7	45.5
200	0 lb	31.2	31.5	33.6	32.6	33.6	35.7			33.6	34.9	37.1	34.6	36.3	38.8	36.3	39.3
	B	140	126	98.8	101	92.7	73.4			80.7	74.3	58.5	68.7	63.6	50.4	55.5	44.1
220	0 lb	24.4	24.6	26.3	25.6	26.5	28.2			26.6	27.6	29.6	27.6	28.9	31.3	29	31.8
	B	131	120	96.9	95	87.7	71.1			75.4	69.8	56.2	63.7	59.3	48	51.4	41.6
240	0 lb				20.3	20.9	22.2			21	21.8	23.2	22	23	25	23.1	25.5
	B				89.9	83.7	69.5			70.8	66.1	54.4	59.4	55.7	45.9	47.8	39.4
260	0 lb									16.9	17.6	18.6	17.8	18.6	20	18.7	20.5
	B									66.9	63.2	53.1	55.7	52.6	44.2	44.9	37.5
280	0 lb												14.3	15	16.1	15.1	16.6
	B												52.7	50.1	42.9	42.3	36
300	0 lb															12	13.3
	B															40.3	34.9
320	0 lb																
	B																11.5
																	28.7



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 246 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
45	0 lb	266															
	B	266															
50	0 lb	267	253														
	B	268	254														
60	0 lb	246	236	148	209	174				171							
	B	270	237	148	209	174				172							
70	0 lb	209	211	142	194	164	109	159	136		141	119					
	B	267	223	142	194	164	109	159	136		141	119					
80	0 lb	179	181	136	179	154	105	149	128	87.3	131	112		103		91.6	
	B	255	210	136	182	154	105	149	128	87.3	131	112		103		91.6	
90	0 lb	156	158	132	157	146	101	140	121	83.7	123	105	75.1	96.7		87.2	
	B	239	199	132	171	146	101	140	121	83.7	123	105	75.2	96.7		87.2	
100	0 lb	137	139	127	138	138	97.4	131	114	80.6	115	99.4	72.1	91.2	65.3	82.6	
	B	225	189	127	161	139	97.4	131	114	80.6	115	99.6	72.1	91.2	65.4	82.6	
110	0 lb	121	121	123	122	125	93.9	122	109	77.5	108	94.1	69.1	86.1	62.4	77.6	57.8
	B	212	180	123	152	132	93.9	124	109	77.5	108	94.1	69.1	86.1	62.4	77.6	57.8
120	0 lb	106	107	111	108	110	91	109	104	74.6	102	89.5	66.4	81.3	59.9	73.7	55.2
	B	201	172	119	144	126	91	117	104	74.6	102	89.5	66.4	81.4	59.9	73.7	55.2
130	0 lb	93.3	94.4	98.1	95.4	97.3	88.1	96.4	97.9	72.1	96.1	85	63.9	77	57.4	70.4	52.9
	B	191	164	116	137	121	88.1	111	98.7	72.1	96.9	85.2	63.9	77.1	57.4	70.4	52.9
140	0 lb	82.8	83.4	87	84.6	86.4	85.1	86	87.6	69.7	87.1	81	61.7	73.4	55.2	67.1	50.5
	B	182	157	113	131	116	85.3	106	94.1	69.7	91.7	81.1	61.7	73.5	55.2	67.1	50.5
150	0 lb	73.7	74.3	77.8	75.5	77.2	80.5	76.6	78.6	67.6	77.7	77	59.4	70	53	63.8	48.4
	B	173	151	110	125	111	82.9	101	90.4	67.6	87	77.4	59.4	70	53	63.8	48.4
160	0 lb	65.8	66.5	69.7	67.7	69	72.3	69	70.5	65.5	70	71	57.4	66.5	51.1	60.3	46.5
	B	166	146	107	120	107	80.8	96.4	86.8	65.5	83	73.9	57.4	66.5	51.1	60.4	46.5
170	0 lb	59	59.4	62.5	60.7	62	64.9	61.8	63.5	63.6	62.9	64.3	55.6	63.2	49.2	57.5	44.6
	B	160	141	105	115	104	78.8	92.3	83.6	63.7	79.2	71.1	55.6	63.6	49.2	57.6	44.6
180	0 lb	52.9	53.3	56.3	54.5	55.8	58.6	55.8	57.3	59.8	56.8	57.8	53.9	58.6	47.5	54.8	42.9
	B	153	136	103	111	100	77	88.7	80.6	62	75.7	68.2	54	60.8	47.5	54.9	43
190	0 lb	47.6	48	50.5	49.1	50.3	52.8	50.4	51.8	54.2	51.5	52.5	52.3	53.1	45.9	52	41.4
	B	148	132	101	107	97.1	75.5	85.3	77.9	60.5	72.7	65.8	52.4	58.4	46	52.6	41.4
200	0 lb	42.8	43.2	45.6	44.3	45.4	47.8	45.4	46.8	49.2	46.6	47.5	50.1	48	44.5	47.9	40
	B	143	128	99.7	103	94.1	74.1	82.3	75.4	59.1	69.9	63.5	51	56.1	44.5	50.2	40
220	0 lb	34.7	34.9	36.9	35.9	37	39	36.9	38.2	40.3	38.3	38.9	42.3	39.6	41.6	39.6	37.4
	B	134	121	97.3	96.7	89.1	71.7	76.7	70.9	56.7	64.9	59.4	48.5	52.1	42	46.3	37.4
240	0 lb			29.9	29.2	30	31.7	30.3	31.2	32.9	31.4	32	34.7	32.6	35.4	32.6	34.9
	B			96	91.5	84.9	69.9	72.1	67.1	54.7	60.5	55.8	46.3	48.7	39.9	43	35.1
260	0 lb						25.6	24.5	25.4	26.7	25.6	26.2	28.5	26.8	29.1	26.9	29.6
	B						69	68.1	64	53.3	56.9	52.7	44.6	45.7	38	40	33.2
280	0 lb										21	21.4	23.2	21.9	23.7	22	24.4
	B										53.7	50.2	43.3	43.1	36.4	37.4	31.6
300	0 lb													18.2	19.6	18.4	20.1
	B													40.9	35.2	35.3	30.2
320	0 lb															15.2	16.7
	B															33.4	29



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 256 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
45	0 lb	258															
	B	258															
50	0 lb	259	253														
	B	259	253														
60	0 lb	234	235	148	207	174				158							
	B	262	237	148	207	174				158							
70	0 lb	202	204	143	194	164	109	157	135		140	119					
	B	263	224	143	194	164	109	157	135		140	119					
80	0 lb	174	175	137	174	155	105	150	128	87.3	131	113		103		90.7	
	B	256	211	137	183	155	105	151	128	87.3	131	113		103		90.7	
90	0 lb	151	153	132	152	147	101	141	121	83.7	123	107	75.1	96.9		86.9	
	B	241	200	132	172	147	101	141	121	83.7	123	107	75.1	96.9		86.9	
100	0 lb	133	135	128	134	136	97.7	133	115	80.7	116	101	72	91.4	65.3	82.6	
	B	227	191	128	162	140	97.7	133	115	80.7	116	101	72	91.4	65.3	82.6	
110	0 lb	117	119	122	119	121	94.3	119	109	77.7	109	95.8	69.2	86.3	62.5	77.8	57.8
	B	214	182	124	154	134	94.3	126	109	77.7	109	95.9	69.2	86.3	62.6	77.8	57.8
120	0 lb	103	104	108	105	107	91.3	106	104	75.1	103	91.3	66.7	81.8	59.9	73.9	55.3
	B	203	173	120	146	127	91.3	119	104	75.1	103	91.3	66.7	81.8	60.1	73.9	55.3
130	0 lb	90.5	91.4	95.4	92.6	94	88.6	94.4	95.6	72.5	94.9	87.1	64.2	77.7	57.4	70.7	53
	B	193	166	117	139	122	88.6	114	99.4	72.5	97.7	87.1	64.2	77.7	57.5	70.7	53
140	0 lb	80.3	80.8	84.6	82	83.5	85.7	84.2	85.3	70.2	84	83.1	61.9	73.8	55.2	67.4	50.7
	B	184	159	114	132	117	86	108	95.2	70.2	92.4	83.2	61.9	73.8	55.3	67.4	50.7
150	0 lb	71.3	71.8	75.5	73.1	74.6	78	75	76.2	68	75.5	77.5	59.8	70.4	53.3	64	48.6
	B	176	153	111	126	112	83.6	103	91.3	68.1	88	79.3	59.8	70.4	53.3	64	48.6
160	0 lb	63.6	64.2	67.4	65.2	66.6	70	67.2	68.3	66	67.6	69.6	57.9	67	51.4	61	46.7
	B	169	148	108	121	108	81.5	98.6	87.8	66.1	83.9	75.9	57.9	67.2	51.4	61.1	46.7
170	0 lb	56.8	57.3	60.1	58.4	59.7	62.7	60.1	61.2	63	60.7	62.7	56	62.2	49.5	58.1	45
	B	162	143	106	117	105	79.5	94.4	84.4	64.2	80.2	72.9	56.1	64.2	49.5	58.2	45
180	0 lb	50.7	51.2	54	52.5	53.5	56.4	54.1	55	58	54.8	56.4	54.3	56.4	47.9	55.3	43.3
	B	156	138	104	112	101	77.7	90.8	81.5	62.6	76.9	70.1	54.4	61.6	47.9	55.6	43.3
190	0 lb	45.5	45.9	48.5	46.9	48.1	50.8	48.8	49.7	52.3	49.3	51.2	52.6	50.8	46.3	51.9	41.6
	B	151	134	102	108	98.3	76.2	87.3	78.8	61	73.7	67.7	52.8	59	46.3	53.1	41.7
200	0 lb	40.9	41.1	43.5	42.3	43.3	45.8	43.9	44.7	47.3	44.5	46	49.1	46.2	44.9	47.2	40.2
	B	146	130	100	105	95.4	74.8	84.3	76.3	59.6	70.9	65.2	51.4	56.9	44.9	50.9	40.2
220	0 lb	32.7	32.9	35.1	34.1	35	37.2	35.7	36.3	38.5	36.2	37.8	40.3	37.8	40.8	38.9	37.7
	B	137	123	97.9	98.4	90.4	72.3	78.8	71.7	57.2	65.9	61.1	48.9	52.8	42.4	47	37.7
240	0 lb	26.2	26.4	28.1	27.4	28.2	30	28.9	29.4	31.2	29.6	30.9	33	30.9	33.5	31.8	34.7
	B	129	118	96.3	92.9	86.2	70.4	74.1	68.1	55.2	61.6	57.4	46.8	49.4	40.2	43.6	35.5
260	0 lb				21.9	22.6	23.9	23.3	23.6	25.1	23.9	25	26.9	25	27.5	26	29
	B				88.3	82.7	69.2	69.9	64.8	53.6	57.8	54.3	45	46.3	38.3	40.6	33.6
280	0 lb							19	19.3	20.3	19.5	20.3	21.7	20.5	22.2	21.3	23.6
	B							66.6	62.3	52.7	54.6	51.7	43.6	43.8	36.8	38	31.9
300	0 lb											16.7	17.8	16.8	18.3	17.7	19.5
	B											49.5	42.6	41.5	35.5	35.8	30.5
320	0 lb														14.9	14.5	16.1
	B														34.6	33.9	29.3
340	0 lb																13.1
	B																28.4



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 266 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
50	0 lb	256	252														
	B	256	253														
60	0 lb	233	234	149	206	174			170								
	B	257	237	149	206	174			170								
70	0 lb	202	203	143	195	164	109	160	135		140						
	B	259	224	143	195	164	109	160	136		140						
80	0 lb	173	175	138	173	156	105	150	128	87.1	131	113		103			90.2
	B	256	213	138	183	156	105	150	128	87.3	131	113		103			90.2
90	0 lb	151	153	133	151	147	101	140	122	83.9	123	107	75.3	97			86.7
	B	243	202	133	173	148	101	141	122	83.9	123	107	75.3	97			86.7
100	0 lb	133	134	128	133	136	98	132	116	80.6	116	102	72.1	91.7	65.4		82.6
	B	230	192	129	164	141	98	133	116	80.6	116	102	72.1	91.7	65.4		82.6
110	0 lb	117	118	123	118	120	94.8	118	110	78	110	96.5	69.4	86.7	62.5	78.3	57.9
	B	217	183	125	155	134	94.8	126	110	78	110	96.6	69.4	86.7	62.5	78.3	57.9
120	0 lb	103	104	109	105	107	91.8	105	105	75.4	103	91.7	66.9	82.4	60	74.2	55.3
	B	206	175	121	147	129	91.8	119	105	75.4	104	91.8	66.9	82.4	60	74.2	55.3
130	0 lb	90.2	91.7	95.4	92.8	94.6	89	94.1	96.3	72.9	95.1	87.7	64.5	78.3	57.7	71.1	53
	B	196	168	118	140	123	89.1	114	101	73	98.7	87.8	64.5	78.3	57.7	71.1	53
140	0 lb	80	80.8	84.6	81.8	83.7	86.6	83.4	85.6	70.5	84.5	83.6	62.2	74.6	55.5	67.9	50.8
	B	187	161	114	134	118	86.6	108	96.3	70.6	93.6	83.9	62.2	74.6	55.5	67.9	50.8
150	0 lb	71	71.7	75.4	72.9	74.7	78.3	74.4	76	68.5	75.4	77.8	60.1	71.1	53.5	64.7	48.9
	B	179	155	112	128	114	84.2	103	92.1	68.5	89	80.2	60.1	71.1	53.5	64.7	48.9
160	0 lb	63	63.6	67.3	64.9	66.6	70.1	66.2	68.2	66.4	67.6	69.6	58.2	67.9	51.5	61.7	47
	B	172	150	109	123	110	82	98.7	88.6	66.6	85	76.7	58.3	67.9	51.6	61.7	47
170	0 lb	56.2	56.7	60	58.1	59.7	62.8	59.2	61.1	64.4	60.5	62.7	56.5	62.3	49.9	58.5	45.3
	B	165	145	107	118	106	80.2	94.7	85.3	64.8	81.2	73.7	56.5	64.9	49.9	58.7	45.3
180	0 lb	50.3	50.8	53.7	51.9	53.4	56.4	53.1	54.9	57.9	54.3	56.4	54.8	56.5	48.2	55.8	43.7
	B	159	140	105	114	103	78.4	91	82.4	63.1	77.8	70.9	54.8	62.3	48.2	56.2	43.7
190	0 lb	44.9	45.2	48.3	46.5	47.9	50.6	47.8	49.2	52.1	48.9	50.9	53.2	50.9	46.7	50.7	42.1
	B	154	136	103	110	99.6	76.7	87.8	79.7	61.5	74.7	68.4	53.2	59.8	46.7	53.8	42.1
200	0 lb	40.1	40.4	43.1	41.6	43	45.6	42.9	44.3	47.1	44.2	45.7	49	45.7	45.3	45.9	40.6
	B	148	132	101	106	96.8	75.3	84.7	77.2	60.1	71.9	66	51.8	57.5	45.3	51.6	40.6
220	0 lb	31.9	32.3	34.6	33.4	34.4	36.8	34.6	35.9	38.2	35.8	37.3	40.1	37.3	40.8	37.4	38
	B	139	125	98.6	100	91.6	72.8	79.2	72.9	57.7	66.9	61.9	49.4	53.4	42.8	47.6	38.1
240	0 lb	25.3	25.5	27.5	26.6	27.5	29.6	27.7	28.9	30.9	28.9	30.3	32.7	30.3	33.3	30.5	33.8
	B	132	120	96.7	94.5	87.3	70.9	74.5	69.1	55.6	62.5	58.2	47.2	50.1	40.6	44.3	35.8
260	0 lb				21.2	21.8	23.4	22.1	23	24.7	23.2	24.3	26.4	24.4	27.1	24.6	27.6
	B				89.8	83.7	69.5	70.4	65.8	54	58.8	55.1	45.4	47	38.8	41.3	34
280	0 lb							17.9	18.7	19.8	18.9	19.8	21.3	19.9	21.8	20	22.3
	B							67	63.1	53	55.5	52.3	44	44.4	37.2	38.7	32.3
300	0 lb										15.4	16.1	17.4	16.3	17.9	16.4	18.4
	B										52.7	50.2	42.9	42.1	35.8	36.4	30.8
320	0 lb													13	14.4	13.3	15
	B													40.2	34.8	34.4	29.7
340	0 lb																12
	B																28.7



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 276 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
50	0 lb	246															
	B	246															
60	0 lb	226	226	149	202	173											
	B	248	237	149	202	173											
70	0 lb	196	198	143	192	164		158	135								
	B	249	225	143	195	164		158	135			137					
80	0 lb	168	171	138	169	156	105	151	128					103			89.1
	B	249	213	138	183	156	105	151	128			132	113	103			89.1
90	0 lb	147	148	133	148	148	102	143	122	83.9		124	107	75.2		96.7	86.2
	B	242	203	134	174	148	102	143	122	84		124	107	75.3		96.8	86.2
100	0 lb	129	130	129	130	132	98.2	131	116	80.8		116	102	72.3		91.6	65.3
	B	231	194	129	164	141	98.2	135	116	80.8		116	102	72.3		91.6	65.3
110	0 lb	114	115	121	115	117	95.1	116	110	78		110	96.7	69.4		86.9	62.6
	B	219	185	126	156	135	95.1	128	110	78.1		110	96.7	69.5		86.9	62.6
120	0 lb	101	101	106	102	105	92.2	104	105	75.5		102	92.3	66.9		82.5	60.2
	B	208	177	122	149	130	92.2	121	106	75.5		104	92.3	67		82.7	60.2
130	0 lb	88.8	89.7	93.5	90.6	92.6	89.6	92.5	94.2	73.1		92.2	88.1	64.7		78.7	57.9
	B	198	170	118	142	124	89.6	116	101	73.1		99.2	88.2	64.7		78.8	57.9
140	0 lb	78.3	79.1	83	80.1	81.8	85.1	82.2	83.2	70.9		82.3	84.3	62.5		74.9	55.8
	B	189	163	115	135	119	87.1	110	96.9	70.9		94.4	84.5	62.5		74.9	55.8
150	0 lb	69.5	70.2	73.6	71	72.6	76.4	73.1	74.4	68.9		73.6	75.7	60.5		71.4	53.8
	B	181	157	112	129	115	84.7	105	93.1	68.9		90	80.8	60.5		71.6	53.8
160	0 lb	61.6	62.2	65.6	63.3	64.8	68.4	65.2	66.4	66.8		65.8	67.7	58.6		67.6	51.9
	B	174	152	110	124	111	82.7	101	89.5	66.9		85.8	77.4	58.7		68.4	51.9
170	0 lb	54.8	55.5	58.7	56.6	57.7	61.3	58.4	59.6	62.4		59	60.7	56.8		60.8	50.1
	B	168	147	108	120	107	80.8	96.8	86.2	65.1		82.1	74.3	56.9		65.5	50.2
180	0 lb	48.7	49.3	52.4	50.5	51.7	54.8	52.4	53.3	56.5		53	54.8	55.1		54.7	48.4
	B	161	142	106	115	104	78.9	93.2	83.3	63.4		78.8	71.6	55.2		62.9	48.5
190	0 lb	43.4	44	46.8	45.2	46.4	49.4	47	47.8	50.9		47.4	49.2	52.2		49.1	47
	B	156	138	104	112	101	77.4	89.8	80.5	61.9		75.6	69	53.6		60.3	47
200	0 lb	38.9	39.2	42	40.4	41.5	44.2	42.2	43	45.7		42.8	44.5	47.6		44.4	45.5
	B	151	134	102	108	97.7	75.9	86.7	78.1	60.5		72.9	66.7	52.2		58.1	45.6
220	0 lb	30.8	31.1	33.5	32.3	33.3	35.7	33.9	34.6	36.9		34.4	36.1	38.9		36.1	39.4
	B	142	127	99.2	101	92.7	73.3	81.1	73.7	58.1		67.7	62.5	49.8		54.2	43
240	0 lb	24.2	24.5	26.6	25.6	26.4	28.5	27.1	27.7	29.7		27.7	29	31.5		29.1	32.2
	B	134	121	97	95.9	88.3	71.3	76.3	69.8	56		63.4	58.9	47.7		50.7	41
260	0 lb	19.3	19.5	20.9	20.3	21	22.5	21.6	21.9	23.7		22.1	23.4	25.4		23.4	26
	B	124	116	95.9	91.1	84.7	69.8	72.3	66.5	54.4		59.6	55.8	45.8		47.7	39.1
280	0 lb					16.9	18.1	17.5	17.8	19		18	18.9	20.5		19	20.9
	B					81.8	68.9	68.6	63.8	53.2		56.3	53.1	44.4		45	37.5
300	0 lb									15.2		14.5	15.3	16.6		15.4	17.1
	B									52.5		53.5	50.8	43.1		42.7	36.1
320	0 lb													13.2		12.3	13.7
	B													42.4		40.8	35
340	0 lb																10.1
	B																33.3



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 285 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
50	0 lb	242															
	B	242															
60	0 lb	231	228	149	200												
	B	243	236	149	200												
70	0 lb	196	197	143	194	164		159	135			136					
	B	244	225	144	195	164		159	135			136					
80	0 lb	168	170	139	168	156	105	150	128			132	113		103		88.6
	B	245	214	139	184	156	105	150	128			132	113		103		88.6
90	0 lb	146	148	134	147	148	102	142	122	83.9		124	107		96.8		85.9
	B	241	204	134	174	149	102	142	122	83.9		124	107		96.8		85.9
100	0 lb	128	130	130	129	132	98.5	129	116	81		117	102	72.3	91.9	65.1	82.4
	B	233	195	130	165	142	98.5	134	116	81		117	102	72.3	91.9	65.1	82.4
110	0 lb	113	114	120	115	117	95.3	115	111	78.3		111	97	69.6	87.2	62.6	78.4
	B	221	187	126	157	136	95.3	127	111	78.3		111	97	69.6	87.2	62.6	78.4
120	0 lb	100	101	106	102	104	92.8	103	105	75.7		102	92.9	67.1	82.9	60.2	74.3
	B	210	179	123	150	131	92.8	121	106	75.7		105	92.9	67.1	82.9	60.2	74.3
130	0 lb	88.2	89	93.7	90.2	92.4	90	91.6	93.9	73.3		92.3	88.7	64.9	78.9	58	71.4
	B	200	171	119	143	125	90	115	102	73.4		100	88.7	64.9	79	58	71.4
140	0 lb	77.8	78.5	83.2	79.7	81.7	85.6	81.2	83.8	71.2		82.6	84	62.8	75.4	55.9	68.6
	B	191	165	116	136	120	87.7	110	97.8	71.3		95.3	84.9	62.8	75.5	55.9	68.6
150	0 lb	69	69.7	73.7	70.7	72.8	76.9	72.2	74.1	69.2		73.5	75.8	60.7	72.1	54.1	65.5
	B	184	159	113	131	116	85.4	105	93.8	69.2		90.8	81.4	60.8	72.2	54.1	65.5
160	0 lb	61.1	61.8	65.6	62.9	64.6	68.6	64.4	66.4	67.3		65.8	68	59	67.5	52.3	62.5
	B	177	154	111	126	112	83.2	101	90.3	67.3		86.7	78.2	59	69.1	52.3	62.7
170	0 lb	54.3	55	58.4	56	57.9	61.4	57.3	59.5	62.9		58.6	60.8	57.3	60.5	50.5	59.3
	B	170	149	109	121	108	81.3	96.7	87.2	65.5		82.9	75.1	57.3	66	50.5	59.8
180	0 lb	48.2	48.8	52.1	50	51.4	54.9	51.5	53.2	56.5		52.6	54.9	55.2	54.7	48.8	54.5
	B	164	144	107	117	105	79.6	93.3	84.2	63.9		79.7	72.5	55.5	63.5	48.8	57.3
190	0 lb	42.9	43.4	46.7	44.7	46.1	49.2	46.1	47.7	50.6		47.2	49.3	52.8	49.2	47.3	49
	B	159	140	105	113	102	77.9	89.9	81.5	62.3		76.5	69.9	53.9	61.1	47.3	54.9
200	0 lb	38.3	38.6	41.7	39.8	41.2	44.1	41	42.6	45.6		42.4	44	47.5	44.3	45.9	43.8
	B	154	136	103	109	98.9	76.5	86.8	78.9	61		73.8	67.4	52.5	58.9	45.9	52.5
220	0 lb	30	30.5	33	31.4	32.7	35.3	32.7	34.2	36.6		33.9	35.6	38.7	35.7	39.2	35.7
	B	144	129	99.9	103	93.7	73.9	81.3	74.6	58.5		68.7	63.3	50.2	54.9	43.4	48.7
240	0 lb	23.4	23.7	26	24.8	25.8	28	25.9	27.2	29.3		27.2	28.6	31.4	28.8	31.8	28.7
	B	136	123	97.5	97.2	89.4	71.9	76.5	70.8	56.5		64.4	59.7	48.1	51.4	41.2	45.4
260	0 lb	18.5	18.7	20.4	19.6	20.4	22	20.5	21.4	23.1		21.5	22.7	25.1	22.9	25.6	22.8
	B	124	118	96.3	92.4	85.7	70.3	72.4	67.4	54.8		60.5	56.6	46.2	48.3	39.4	42.4
280	0 lb				15.6	16.2	17.6	16.4	17.2	18.6		17.4	18.4	20.1	18.5	20.6	18.6
	B				88.6	82.7	69.1	68.8	64.6	53.5		57.2	53.8	44.7	45.7	37.7	39.8
300	0 lb							12.8	13.6	14.7		13.8	14.7	16.2	14.9	16.7	14.9
	B							65.9	62.2	52.5		54.3	51.4	43.5	43.3	36.4	37.5
320	0 lb											10.3	11.3	12.6	11.6	13.2	11.8
	B											51.9	49.4	42.5	41.2	35.3	35.5
340	0 lb															9.8	8.7
	B															34.4	33.8
360	0 lb																7.4
	B																28.4



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 295 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
50	0 lb	231															
	B	231															
60	0 lb	225	221		192												
	B	233	231		192												
70	0 lb	191	193	144	190	163		157	135		133						
	B	233	225	144	192	163		157	135		133						
80	0 lb	163	165	139	165	156	105	151	128		131	113		102		87	
	B	234	216	139	185	156	105	151	128		131	113		102		87	
90	0 lb	143	144	135	143	145	102	142	122	84	124	107		96.6		84.7	
	B	234	206	135	176	149	102	143	122	84	124	107		96.6		84.7	
100	0 lb	125	126	129	126	128	98.6	127	116	81.2	117	102	72.4	91.5	65.1	81.6	
	B	231	197	131	167	143	98.6	136	116	81.2	117	102	72.4	91.6	65.1	81.6	
110	0 lb	110	111	116	112	114	95.6	112	111	78.5	110	97.2	69.6	87.3	62.5	77.9	57.7
	B	223	189	127	159	137	95.7	129	111	78.5	111	97.3	69.6	87.4	62.5	77.9	57.7
120	0 lb	97.6	98.9	104	99.2	101	93	99.9	102	76	99	93	67.4	83	60.2	74.3	55.3
	B	214	182	124	152	131	93	123	107	76	106	93	67.4	83	60.2	74.3	55.3
130	0 lb	86.2	87.4	90.8	88.4	89.5	90.1	89.5	91.1	73.7	88.9	89	65	79.3	58.1	71.2	53.1
	B	204	174	120	145	126	90.4	118	102	73.7	101	89.1	65	79.4	58.1	71.2	53.2
140	0 lb	75.7	76.8	80	77.7	79.1	83.7	79.2	81.2	71.4	79.5	82.1	63	75.7	56.1	68.5	51.2
	B	194	167	117	139	121	88.2	112	98.5	71.5	95.7	85.3	63	75.7	56.1	68.5	51.2
150	0 lb	67.2	67.8	70.9	69.2	70.1	74.3	70.5	71.8	69.5	70.9	73.4	61	71.8	54.2	65.7	49.3
	B	187	161	114	133	117	85.8	107	94.6	69.6	91.6	82.1	61	72.4	54.2	65.7	49.4
160	0 lb	59.5	60.1	63.1	61.3	62.1	66	62.7	63.9	66.9	63	65.4	59.1	65.4	52.4	62.9	47.5
	B	180	156	112	128	113	83.6	103	91	67.6	87.4	78.7	59.3	69.6	52.4	63	47.5
170	0 lb	52.6	53.4	56.1	54.5	55.3	59	55.9	56.9	60.5	56.2	58.6	57.3	58.1	50.8	59.2	45.9
	B	173	151	109	124	109	81.8	98.8	87.7	65.8	83.7	75.6	57.4	66.5	50.8	60.3	45.9
180	0 lb	46.6	47.3	49.9	48.6	49.3	52.6	49.9	50.8	54.3	50.3	52.4	55.7	52.3	49.1	53.5	44.3
	B	167	147	107	119	106	80	95.2	84.9	64.2	80.3	72.9	55.8	63.9	49.2	57.7	44.3
190	0 lb	41.4	41.8	44.3	43.2	43.8	47.1	44.6	45.3	48.6	45.1	46.7	50.6	47	47.7	47.9	42.9
	B	162	143	105	115	103	78.4	92	82.1	62.7	77.3	70.3	54.3	61.6	47.7	55.3	42.9
200	0 lb	36.6	37.2	39.4	38.4	39	41.9	39.7	40.7	43.6	40.1	42.1	45.5	41.9	45.2	43	41.5
	B	157	139	104	112	99.9	76.9	88.9	79.8	61.4	74.4	68.1	52.9	59.2	46.3	53.1	41.5
220	0 lb	28.5	28.9	31.1	30.2	30.7	33.4	31.4	32.3	34.8	31.9	33.8	36.7	33.6	37.3	34.6	38
	B	147	131	101	105	94.8	74.4	83.2	75.3	58.9	69.5	64	50.5	55.3	43.7	49.1	39
240	0 lb	22.1	22.3	24.2	23.5	23.9	26.3	24.6	25.2	27.6	25.2	26.8	29.5	26.8	30.1	27.7	31.6
	B	137	126	98.3	99.5	90.5	72.3	78.5	71.4	56.9	65.3	60.4	48.3	51.9	41.6	45.8	36.8
260	0 lb	17.4	17.6	18.9	18.6	18.8	20.6	19.4	20	21.6	20	21.2	23.3	21.2	23.8	22	25.3
	B	122	119	96.6	94.6	86.6	70.6	74.2	68.1	55.2	61.4	57.2	46.5	49	39.7	42.9	34.9
280	0 lb				14.5	14.7	16.2	15.4	15.8	17.1	15.9	16.9	18.7	17.1	19.1	17.8	20.4
	B				90.3	83.4	69.4	70.6	65.2	53.8	58	54.5	45	46.3	38.1	40.3	33.3
300	0 lb							11.8	12.1	13.4	12.4	13.3	14.8	13.4	15.3	14.2	16.5
	B							67.5	62.9	52.8	55.1	52	43.7	43.9	36.7	38.1	31.8
320	0 lb										9	10	11.4	10.3	12	11.1	13.1
	B										52.6	50	42.6	41.8	35.6	36.1	30.5
340	0 lb													6.9	8.7	7.8	10
	B													40	34.6	34.3	29.4
360	0 lb																6.7
	B																28.5



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 305 ft																
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
50	0 lb	226																
	B	226																
60	0 lb	218	219		188													
	B	228	225		188													
70	0 lb	191	192	144	187	163		156	134			131						
	B	228	223	144	189	163		156	134			131						
80	0 lb	164	165	140	165	156	105	151	128			129	112		101		86.1	
	B	229	216	140	185	156	105	151	128			129	113		101		86.1	
90	0 lb	142	143	135	143	145	102	142	122	83.9		124	107		96.5		83.9	
	B	228	207	135	177	149	102	143	122	84		124	107		96.5		83.9	
100	0 lb	124	126	130	125	128	98.9	126	117	81.1		117	102	72.1	91.7	64.9	80.3	
	B	226	198	131	168	143	98.9	136	117	81.1		117	102	72.1	91.7	65	81.2	
110	0 lb	109	111	116	111	113	95.9	111	111	78.6		110	97.6	69.6	87.4	62.5	77	57.6
	B	221	190	128	160	137	95.9	130	112	78.6		111	97.6	69.6	87.4	62.5	78	57.6
120	0 lb	97.3	97.9	103	98.9	100	93.3	99.6	102	76.3		99	93.2	67.2	83.2	60.3	74.2	55.4
	B	215	183	124	153	132	93.4	124	107	76.3		106	93.2	67.2	83.2	60.3	74.5	55.4
130	0 lb	86.1	87.4	91.5	88	89.2	90.5	88.8	90.5	74		88.5	89.5	65.1	79.6	58.2	71.3	53.2
	B	206	176	121	147	127	90.9	118	103	74		101	89.7	65.1	79.6	58.2	71.3	53.2
140	0 lb	75.9	77	80.1	77.8	78.9	84.1	79.3	80.9	71.9		79.5	82.1	63.2	76.1	56.2	68.8	51.3
	B	197	169	118	140	122	88.6	113	98.9	71.9		96.7	85.9	63.2	76.2	56.2	68.8	51.3
150	0 lb	66.9	67.4	71.2	69	69.8	74.3	70.3	71.8	69.8		71	73.3	61.4	72.2	54.4	66.1	49.5
	B	189	163	115	135	118	86.2	108	95.2	69.9		92.4	82.5	61.4	73	54.4	66.1	49.5
160	0 lb	58.9	59.7	63	61.2	62	66.3	62.7	63.8	67.5		62.8	65.5	59.5	65.3	52.7	63.3	47.7
	B	182	158	113	129	114	84.2	104	91.7	68.1		88.2	79.3	59.5	70.1	52.7	63.4	47.7
170	0 lb	52.3	52.7	55.9	54	54.9	59	55.8	56.7	60.6		56.2	58.3	57.7	58.1	51.1	57.8	46.1
	B	175	153	110	125	110	82.3	100	88.5	66.2		84.7	76.2	57.8	67.2	51.1	60.7	46.1
180	0 lb	46.3	46.7	49.8	48.2	49.1	52.7	49.5	50.8	54.3		50	52.3	55.6	52.4	49.5	51.7	44.6
	B	170	148	108	121	107	80.5	96.2	85.8	64.5		81.2	73.7	56.2	64.7	49.5	58.1	44.7
190	0 lb	40.7	41.4	44.1	42.8	43.4	46.8	44	45.2	48.6		44.8	46.8	50.8	46.8	47.9	46.5	43.1
	B	164	145	106	117	104	78.9	92.9	83.1	63.1		78.2	71.2	54.7	62.2	48	55.8	43.1
200	0 lb	35.9	36.6	39.2	37.8	38.6	41.7	39.3	40.3	43.3		39.6	41.9	45.7	41.7	45.2	41.7	41.7
	B	159	141	105	113	101	77.5	89.9	80.6	61.7		75.2	68.9	53.3	59.9	46.5	53.7	41.8
220	0 lb	27.8	28.2	30.7	29.5	30.2	33	31	31.7	34.4		31.6	33.3	36.6	33.2	37.2	33.3	37.6
	B	149	133	101	107	95.9	74.9	84.5	76.1	59.3		70.4	64.7	50.8	55.9	44.1	49.8	39.3
240	0 lb	21.4	21.6	23.5	22.7	23.4	25.7	24.1	24.7	27.1		24.6	26.2	29.2	26.2	29.8	26.4	30.4
	B	137	127	98.9	101	91.3	72.7	79.6	72.3	57.2		66.1	61.1	48.7	52.4	42	46.4	37.2
260	0 lb	16.7	16.9	18.3	17.9	18.2	20.1	18.9	19.3	21.1		19.4	20.7	23	20.7	23.5	20.8	24.1
	B	122	121	97	95.8	87.6	71	75.3	68.9	55.5		62.2	58	46.9	49.6	40.1	43.5	35.2
280	0 lb	12.2	12.3	13.8	13.7	14.1	15.6	14.7	15.1	16.7		15.2	16.4	18.3	16.4	18.8	16.5	19.2
	B	107	108	95.7	91.5	84.5	69.7	71.6	66	54.1		58.8	55.1	45.3	46.8	38.5	40.8	33.6
300	0 lb				9.5	9.7	11.3	10.9	11.3	12.7		11.7	12.8	14.4	12.9	14.8	13	15.4
	B				88	81.7	68.8	68.4	63.4	52.9		55.9	52.7	44	44.5	37.1	38.5	32.1
320	0 lb								7.2	8.6		7.9	9	10.7	9.5	11.4	9.8	12
	B								61.4	52.2		53.4	50.6	43	42.4	35.9	36.5	30.8
340	0 lb													6.9	5.9	7.8	6.4	8.8
	B													42.2	40.6	34.8	34.7	29.6
360	0 lb															34.1	33.2	28.8
	B																	
380	0 lb																	28.1
	B																	



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft	0 lb B	SL4 315 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
50	215																
60	212	211		179													
70	185	187	144	180	158		149			126							
80	159	160	139	159	156	105	148	127		125	112		98.6		84.2		
90	138	140	135	140	142	102	140	122	79.7	122	107		95.7		82.2		
100	120	122	127	122	125	99.1	123	117	79.7	117	102	72	91.4		79.3		
110	107	107	112	108	110	96.2	109	110	79.3	107	97.7	69.7	87.4	62.5	76.2	57.5	
120	94.2	95.1	99.9	95.7	98	93.4	95.9	98	77.6	95.7	93.6	67.4	83.3	60.2	73.5	55.3	
130	83.8	84.5	88.8	85.2	87.6	90.1	85.9	87.7	75.5	85.2	88.1	65.2	79.7	58.1	70.9	53.1	
140	73.5	74.5	77.9	75.4	77.9	81.3	77	78.7	73.6	76.6	79.2	63.2	76.1	56.3	68.5	51.3	
150	64.8	65.5	68.8	66.8	68.6	71.9	68	69.6	71.5	68.4	71.3	61.4	70	54.5	65.8	49.6	
160	57	57.7	60.9	58.8	60.8	63.9	60.7	61.7	66.8	60.7	63.5	59.7	63	52.8	62.6	47.8	
170	50.3	51	54	52.2	53.9	57	53.8	54.9	59.3	54.1	56.6	57.9	56.3	51.2	57.5	46.2	
180	44.2	45.2	47.8	46.3	47.9	50.9	47.5	48.8	53.2	48.1	50.3	54.3	50.4	49.7	51.3	44.7	
190	39.2	39.8	42.3	41.1	42.4	45.2	42.3	43.5	47.4	42.9	45	49	44.9	48.1	45.9	43.3	
200	34.5	35	37.6	36.3	37.7	40.2	37.7	38.4	42.3	38	40	43.8	40	44.5	40.9	41.9	
220	26.4	26.9	29.2	28	29.4	31.5	29.4	30.2	33.5	29.8	31.6	35	31.6	35.6	32.7	37.1	
240	20.3	20.5	22.3	21.5	22.5	24.4	22.6	23.3	26.4	23.1	24.8	27.7	24.8	28.4	25.8	29.9	
260	15.6	15.8	17.3	16.8	17.7	19	17.7	18.3	20.6	18.2	19.5	21.7	19.5	22.3	20.4	23.5	
280	11.5	11.7	13.1	12.7	13.5	14.7	13.7	14.1	16.1	14.2	15.3	17.2	15.4	17.8	16	19	
300				8.7	9.7	10.8	10.1	10.5	12.4	10.7	11.7	13.4	11.8	13.9	12.5	15.1	
320				88.3	82.6	68.8	68.7	63.7	53.9	56.3	52.9	44.1	44.7	37.2	38.8	32.2	
340							6.3	6.7	8.6	7.2	8.2	10	8.6	10.5	9.4	11.7	
360							66.1	61.8	53.2	53.6	50.8	43	42.7	36	36.7	30.9	
380												6.4		7.3	6.1	8.6	
										51.5	49.1	42.2	40.9	35	34.9	29.8	
													39.3	34.2	33.3	28.8	
															32	28.1	



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 325 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	0 lb	211	207		175												
	B	211	207		175												
70	0 lb	183	186	144	175	156		147			124						
	B	211	207	144	175	157		147			124						
80	0 lb	158	160	140	160	154	105	146	126		123	111		97.4		83.1	
	B	212	204	140	174	154	105	146	126		123	111		97.4		83.1	
90	0 lb	137	139	136	138	142	102	139	122	83.7	121	106		94.9		81.4	
	B	211	201	136	171	149	102	142	122	83.7	121	107		95		81.4	
100	0 lb	120	122	128	122	123	99.1	122	116	81.2	117	102	72	91.3		78.8	
	B	208	197	132	167	143	99.1	136	117	81.2	117	102	72.1	91.3		78.8	
110	0 lb	106	107	112	108	109	96.5	108	110	78.8	107	97.8	69.7	87.3	62.5	75.8	
	B	204	192	129	161	138	96.5	130	112	78.8	112	97.9	69.7	87.3	62.5	75.8	
120	0 lb	93	94.6	100	95	96.6	94	95.9	98.2	76.5	95.1	93.5	67.4	83.6	60.3	73.4	55.1
	B	200	185	125	155	133	94	125	108	76.5	107	93.7	67.4	83.6	60.3	73.4	55.2
130	0 lb	82.8	83.7	88.9	84.4	85.8	90.7	85.4	87.5	74.3	85.1	88.1	65.5	80	58.2	70.9	53
	B	194	178	122	148	128	91.5	119	104	74.3	102	90	65.5	80	58.2	70.9	53.1
140	0 lb	73.2	74.1	78.4	75.1	76.5	82	76.4	78.3	72.3	76.1	79.1	63.5	76.8	56.4	68.5	51.2
	B	187	171	120	142	124	89.3	115	100	72.3	97.7	86.6	63.5	76.9	56.4	68.5	51.3
150	0 lb	64.4	65.2	68.7	66.3	67.6	72.2	68.2	69.9	70.5	68.3	71.1	61.7	69.8	54.6	66	49.6
	B	182	165	117	136	119	87	110	96.6	70.5	93.7	83.5	61.7	73.7	54.6	66.1	49.6
160	0 lb	56.8	57.5	61	58.8	59.9	64.2	60.4	61.5	65.9	60.7	63.3	60	62.6	53	61.6	47.9
	B	177	160	114	131	115	85	106	92.8	68.7	89.6	80.4	60	70.8	53	63.8	47.9
170	0 lb	49.8	50.8	53.9	52.1	53.1	57	53.4	54.9	58.6	53.8	56.6	58.3	56.1	51.4	55.6	46.5
	B	172	155	112	127	112	83	102	89.8	66.9	85.7	77.6	58.4	68.1	51.4	61.6	46.5
180	0 lb	44	44.6	47.7	45.8	46.8	50.6	47.6	48.5	52.5	48.1	50.4	54.7	50	49.9	49.6	45
	B	168	151	110	123	108	81.3	98	86.8	65.2	82.6	74.8	56.8	65.5	50	59	45
190	0 lb	38.7	39.2	42.2	40.4	41.3	44.9	42	43	46.5	42.7	44.8	48.9	44.7	48.1	44.5	43.6
	B	161	146	108	119	106	79.7	94.6	84.2	63.7	79.6	72.2	55.3	63.1	48.5	56.7	43.6
200	0 lb	33.8	34.3	37.2	35.6	36.5	40	37.2	38.2	41.5	37.8	40	43.7	39.9	44.5	39.5	42.2
	B	155	142	106	115	103	78.2	91.5	81.9	62.3	76.9	69.9	53.9	60.9	47.1	54.4	42.3
220	0 lb	25.6	26.1	28.8	27.5	28.1	31.3	28.9	29.7	32.6	29.5	31.5	34.9	31.5	35.5	31.3	36
	B	148	135	102	108	97.3	75.6	86.1	77.6	59.9	71.8	65.8	51.5	57	44.7	50.7	39.8
240	0 lb	19.6	19.8	21.8	20.9	21.3	24	22.2	22.8	25.3	22.7	24.2	27.4	24.5	28	24.3	28.5
	B	136	129	99.6	102	92.6	73.3	81.3	73.7	57.8	67.5	62.2	49.3	53.5	42.5	47.3	37.5
260	0 lb	14.8	15.1	16.8	16.2	16.5	18.6	17.2	17.7	19.7	17.7	19	21.4	19	22.1	19	22.4
	B	120	121	97.5	97.5	88.8	71.4	76.8	70.2	56	63.6	59.1	47.4	50.5	40.7	44.4	35.7
280	0 lb	10.3	10.6	12.3	11.9	12.3	14.2	13	13.5	15.2	13.5	14.7	16.9	14.8	17.4	14.9	17.9
	B	107	107	96.1	93.2	85.5	69.9	72.9	67.1	54.4	60.1	56.2	45.8	47.8	39.1	41.8	34
300	0 lb		6.2	7.7	7.6	8	9.8	9	9.6	11.3	10	11.2	13	11.2	13.4	11.4	14
	B		95.8	94.2	89.5	82.7	68.8	69.7	64.5	53.2	57.2	53.7	44.4	45.4	37.5	39.4	32.6
320	0 lb						5.7		5.6	7	6.2	7.3	9.4	7.8	10.1	8.1	10.5
	B						68.5	66.8	62.2	52.3	54.5	51.5	43.3	43.3	36.3	37.3	31.2
340	0 lb												5.6		6.4		7.5
	B								51.9	52.1	49.6	42.4	41.4	35.3	35.4	30.1	
360	0 lb												41.8	39.8	34.4	33.8	29.1
	B																
380	0 lb															32.4	28.3
	B																



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

		SL4 335 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	0 lb	199	196		165												
	B	199	196		165												
70	0 lb	179	181	144	166	150		139			118						
	B	199	195	144	166	150		139			118						
80	0 lb	153	157	140	155	149	105	140	119		118	108					
	B	199	193	140	165	149	105	140	119		118	108					
90	0 lb	133	135	135	134	137	102	134	119	79.7	116	106		92.9			78.7
	B	198	190	136	163	147	102	137	119	79.7	116	106		92.9			78.7
100	0 lb	116	118	123	117	120	99.2	118	118	79.7	114	102	71.8	90.4			76.7
	B	196	187	132	159	144	99.2	134	118	79.7	114	102	71.8	90.4			76.7
110	0 lb	102	104	109	103	106	96.6	104	107	79.6	105	97.5	69.4	87	62.3		74.6
	B	193	184	129	156	140	96.6	130	113	79.6	112	97.6	69.5	87	62.3		74.6
120	0 lb	89.7	91.7	96.3	91.5	94.3	93.8	92	95.6	77.9	92.7	93.5	67.4	83.4	60.2		72.4
	B	189	180	126	152	135	94.1	124	109	77.9	108	93.6	67.4	83.4	60.2		72.4
130	0 lb	79.4	81.4	85.1	81.4	83.4	88.5	82.2	84.8	76	82.2	84.4	65.4	79.8	58.2		70
	B	185	176	123	148	130	91.9	120	105	76	103	90	65.4	79.9	58.3		70
140	0 lb	70.5	72.3	75.6	72.1	74.5	79	73	76	73.9	73.9	75.9	63.4	74.3	56.3		68
	B	178	171	120	143	126	89.5	115	102	74	99.5	86.9	63.6	76.8	56.3		68
150	0 lb	61.8	63.4	66.3	64.1	65.8	69.6	65.4	67.7	71.5	66	67.9	61.8	66.3	54.7		65.3
	B	171	165	117	137	121	87.5	111	98.4	72.1	95.5	83.8	61.8	73.7	54.7		65.7
160	0 lb	54	55.9	58.4	56.4	58.3	61.6	57.9	60	64.6	59.1	60.4	60.2	59.7	53		59.8
	B	165	160	114	132	118	85.5	106	94.9	70.4	91.7	80.7	60.2	71.1	53		63.6
170	0 lb	47.6	49	51.5	49.5	51.5	54.6	51.2	53.1	57	52.2	53.9	57.5	53.8	51.5		53.7
	B	159	155	112	128	114	83.5	102	91.6	68.6	87.7	77.9	58.6	68.5	51.5		61.5
180	0 lb	41.4	42.8	45.5	43.5	45.2	48.5	45.2	47.2	50.9	46.5	48	52.5	47.8	49.9		48.3
	B	153	150	110	123	110	81.6	98.6	88.7	67	84.4	75.2	57.1	65.8	50.1		59.2
190	0 lb	36.3	37.7	39.9	38.4	39.9	42.8	39.6	41.6	45.2	41	42.5	46.7	42.4	47.2		43.2
	B	146	145	108	120	107	80	95.1	85.9	65.4	81.3	72.6	55.6	63.4	48.7		56.8
200	0 lb	31.6	32.9	35	33.5	35	37.8	35.1	36.9	40.1	36.4	37.6	41.7	37.5	42.1		38.6
	B	142	139	106	116	104	78.5	92.2	83.6	63.9	78.6	70.2	54.2	61.2	47.3		54.8
220	0 lb	23.7	24.9	26.7	25.4	26.7	29.1	26.8	28.5	31.4	28.3	29.2	32.7	29.4	33.5		30.2
	B	132	130	103	108	98.9	75.8	86.6	79.2	61.3	73.6	66.3	51.7	57.4	44.9		50.9
240	0 lb	17.9	18.7	20.1	19.3	20.4	22.1	20.4	21.7	24.2	21.5	22.5	25.6	22.4	26.2		23.5
	B	126	124	99.8	103	94.3	73.5	81.6	75	59.1	69	62.6	49.7	53.8	42.8		47.7
260	0 lb	13.2	14	15.2	14.4	15.4	17	15.5	16.7	18.8	16.7	17.4	19.9	17.4	20.3		18.2
	B	119	120	97.9	97.8	90	71.5	77.1	71.5	57.3	65.1	59.3	47.7	50.7	40.8		44.6
280	0 lb	8.8	9.6	10.9	10.5	11.4	12.6	11.5	12.6	14.2	12.6	13.3	15.4	13.3	15.9		14.1
	B	106	107	96.2	93.6	86.6	70	73.4	68.5	55.6	61.5	56.5	46.1	48	39.1		42
300	0 lb			6.5	6.2	7.3	8.7	7.7	8.8	10.4	9	9.6	11.5	9.8	12		10.5
	B	94.7	95.1	93.9	89.7	83.8	69	70.2	65.7	54.4	58.5	54	44.6	45.6	37.7		39.7
320	0 lb																
	B				85.9	81.5	68.5	67.2	63.4	53.4	55.8	51.8	43.5	43.5	36.4		37.6
340	0 lb																
	B							65	61.7	52.8	53.4	49.9	42.5	41.7	35.4		35.7
360	0 lb																
	B										51.4	48.4	41.9	40.1	34.5		34.1
380	0 lb																
	B													38.7	33.9		32.7
400	0 lb																
	B																31.5



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 345 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	0 lb	194	191														
	B	194	191														
70	0 lb	179	181	143	162	147		136				116					
	B	194	189	143	162	147		136				116					
80	0 lb	154	155	139	154	146	105	136	120			115	106				
	B	193	187	140	161	146	105	136	120			115	106				
90	0 lb	134	135	135	133	137	102	133	119	83.3		114	104		91.5		77.6
	B	193	185	136	158	144	102	134	119	83.3		114	104		91.5		77.6
100	0 lb	116	117	123	117	121	99.2	118	116	81		112	101	71.8	89.5		75.9
	B	191	181	133	155	142	99.3	132	116	81		112	101	71.8	89.5		75.9
110	0 lb	102	104	108	103	106	96.7	104	106	78.7		104	97.5	69.5	86.8	62.2	73.9
	B	189	179	129	152	139	96.7	129	112	78.7		110	97.5	69.5	86.9	62.2	73.9
120	0 lb	89.8	91	96	91.2	93.6	94.2	92.2	94.1	76.5		92.5	93	67.5	83.5	60.2	71.9
	B	185	176	126	149	135	94.2	124	108	76.5		108	93.8	67.5	83.6	60.2	71.9
130	0 lb	79.8	81	85.1	80.7	83	88.3	82	83.8	74.5		82.4	84.1	65.5	79.8	58.2	69.9
	B	181	173	124	146	130	91.9	120	104	74.6		104	90.2	65.6	80.1	58.2	69.9
140	0 lb	70.7	71.7	75.6	71.7	73.9	78.8	72.4	74.7	72.5		73	75.3	63.6	74.1	56.5	67.8
	B	175	168	121	143	126	89.9	115	101	72.6		99.6	87	63.7	77.2	56.5	67.8
150	0 lb	62.5	63.2	66.1	63.8	65.8	70.2	64.6	66.2	70.2		65.6	67.2	61.9	66.2	54.8	64.8
	B	170	163	118	138	122	87.9	111	97.3	70.9		95.9	83.9	61.9	74.2	54.8	65.6
160	0 lb	54.7	55.6	58.4	55.9	58.1	61.7	57.8	59.2	63.8		58.5	60	60.2	59.3	53.1	59.3
	B	166	159	115	133	118	85.8	107	94.2	69.2		92.2	81	60.3	71.5	53.1	63.7
170	0 lb	47.7	48.6	51.1	49.2	51.1	54.4	50.9	52.1	56.5		52.2	54	58.7	52.9	51.7	53.1
	B	161	155	113	128	114	83.8	103	90.9	67.6		88.6	78.4	58.8	68.6	51.7	61.7
180	0 lb	42	42.7	45.2	43.1	45.2	48.2	44.7	46	50.1		46.3	47.9	52.5	47.5	50.1	47.6
	B	154	151	111	124	111	82	99.2	87.9	66		85.2	75.7	57.4	66.2	50.3	59.8
190	0 lb	36.6	37.3	39.4	37.7	39.6	42.6	39.3	40.5	44.5		40.8	42.2	46.9	42.3	47.5	43
	B	149	145	109	120	108	80.5	95.9	85.3	64.5		82.1	73.1	56	63.9	49	58.1
200	0 lb	31.9	32.5	34.6	32.9	34.7	37.6	34.5	35.5	39.1		36.2	37.4	41.6	37.3	42.2	38.3
	B	144	141	107	117	105	79.1	93.1	82.9	63		79.4	70.9	54.5	61.7	47.6	56.2
220	0 lb	23.8	24.1	26.1	24.6	26.4	28.7	26.2	27.2	30.5		27.6	29	32.6	28.7	33.4	29.7
	B	135	132	103	110	100	76.3	87.5	78.7	60.7		74.3	66.9	52.1	57.7	45.1	52.6
240	0 lb	17.7	18.1	19.6	18.6	19.8	21.7	19.8	20.5	23.1		21.1	22.1	25.3	22.1	25.9	22.9
	B	129	126	101	104	95.2	74	82.8	74.7	58.4		69.9	63.4	50	54.5	43	49.5
260	0 lb	13	13.4	14.6	13.9	14.8	16.6	14.9	15.6	17.7		16.1	16.9	19.5	17	20	17.8
	B	117	117	98.5	99.3	91	72	78.4	71.4	56.6		66	60.1	48.1	51.5	41.2	46.5
280	0 lb	8.2	8.5	10	9.4	10.7	12.1	10.8	11.4	13.2		12	12.7	15	12.9	15.5	13.7
	B	105	105	96.6	94.8	87.7	70.4	74.4	68.1	54.9		62.4	57.2	46.4	48.8	39.5	43.8
300	0 lb					6.1	7.7	6.6	7.2	9.2		8.1	8.9	11.1	8.9	11.6	9.9
	B	94.4	94.7	93.2	91.2	84.7	69.2	71.1	65.6	53.6		59.3	54.6	45	46.2	38	41.4
320	0 lb													7.3		8.1	6.2
	B				85.4	82.3	68.5	68.1	63.3	52.6		56.6	52.4	43.8	44.1	36.8	39.3
340	0 lb																
	B							65.8	61.4	51.9		54.1	50.5	42.8	42.2	35.6	37.3
360	0 lb																
	B											52.2	48.9	42.1	40.5	34.7	35.6
380	0 lb																
	B														39.2	34	34.1
400	0 lb																
	B															32.8	28



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 354 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	0 lb	182	179														
	B	182	179														
70	0 lb	174	175	143	152	140		129									
	B	182	178	143	152	140		129									
80	0 lb	149	151	139	149	139	105	130	116		110	102					
	B	182	176	139	152	139	105	130	116		110	102					
90	0 lb	129	130	135	131	133	102	127	114	79.7	109	100		87.9		75	
	B	181	174	136	150	137	102	128	114	79.7	109	100		87.9		75	
100	0 lb	112	115	120	115	116	98.8	114	112	79.7	108	98.3	71.5	86.8		73.7	
	B	179	171	133	147	135	99.1	125	112	79.7	108	98.3	71.5	86.8		73.7	
110	0 lb	98.4	101	105	100	103	96.5	100	104	79.3	100	96.1	69.4	85.5	61.9	72.1	
	B	177	169	130	144	133	96.7	123	110	79.3	106	96.1	69.4	85.5	61.9	72.1	
120	0 lb	86.9	88.1	92.5	88.9	91	93.2	89.1	92.1	78	89.1	91.1	67.2	82.8	59.9	70.3	54.6
	B	173	165	127	141	131	94.3	121	108	78	104	92.8	67.3	82.8	60.1	70.3	54.7
130	0 lb	76.8	78	82.2	79.2	80.4	85.7	78.7	81.6	76	79.1	81	65.3	78.9	58.1	68.6	52.9
	B	170	163	124	139	128	92.2	118	105	76	102	90.1	65.4	79.7	58.1	68.6	52.9
140	0 lb	68.2	69.3	72.8	70	71.1	76	69.7	72.4	74.1	70.5	72.3	63.6	71.1	56.4	66.8	51.2
	B	164	159	121	136	126	90.2	115	102	74.1	99.5	86.9	63.6	77	56.4	66.8	51.2
150	0 lb	60	61	64	61.9	63.5	67.6	61.8	64.5	69.6	62.4	64.6	61.9	63.4	54.7	64.5	49.6
	B	158	154	118	132	123	88.1	111	98.9	72.4	95.7	84.1	61.9	74.2	54.7	64.8	49.6
160	0 lb	52.9	53.4	56.5	54.6	56.1	59.9	55	57.6	62.5	55.9	57.5	60	56.6	53.2	58	48
	B	153	149	115	127	119	86.1	107	95.8	70.8	92.3	81.2	60.4	71.4	53.2	63	48
170	0 lb	46.2	46.6	49.3	48.1	49.4	52.4	48.9	51.2	55.2	49.7	51.6	56.6	50.5	51.7	52.3	46.6
	B	146	143	113	123	115	84.1	103	92.7	69.2	88.7	78.6	58.9	68.9	51.7	61.3	46.7
180	0 lb	40.3	40.7	43.4	42.2	43	46.5	42.8	45	49.2	44.4	45.8	50.5	45.2	50	46.7	45.2
	B	140	136	111	120	111	82.4	99.3	89.6	67.7	85.3	75.9	57.5	66.4	50.4	59.5	45.3
190	0 lb	34.8	35.5	38.1	37	37.8	40.7	37.7	39.7	43.4	39.1	40.4	44.9	40.2	45.7	42.1	44
	B	136	132	109	117	108	80.7	96.2	87	66.1	82.2	73.4	56.1	64	49.1	57.7	44
200	0 lb	30.2	30.7	33.1	32.1	32.9	35.7	32.8	34.8	38.4	34.3	35.5	39.8	35.7	40.4	37.5	41.7
	B	132	129	107	114	105	79.1	93.1	84.4	64.6	79.5	71	54.8	61.9	47.7	56	42.8
220	0 lb	22.4	22.8	24.6	24	24.7	27.4	24.7	26.5	29.6	26.2	27.4	31.1	27.3	31.8	29.4	33.3
	B	122	120	104	105	99.8	76.3	87.5	79.9	61.9	74.6	67	52.3	58	45.3	52.9	40.4
240	0 lb	16.6	17	18.4	18.1	18.6	20.5	18.6	20.1	22.3	19.9	20.8	23.8	20.7	24.4	22.5	25.9
	B	115	113	101	98.4	93.2	74	82.5	76	59.7	70.1	63.2	50.1	54.4	43.1	49.6	38.2
260	0 lb	11.9	12.3	13.5	13.3	13.8	15.5	13.8	15.2	17.3	15.1	15.8	18.5	15.9	18.9	17.5	20.1
	B	111	109	98.3	92.7	88.9	72.2	78.1	72.6	57.8	66.1	60	48.2	51.5	41.2	46.6	36.3
280	0 lb		9.2	9.1	9.6	11.2	11.2	9.6	10.9	12.8	10.9	11.6	14	11.7	14.4	13.2	15.6
	B	103	103	96.6	89.1	84.6	70.5	74.4	69.3	56.1	62.5	57.3	46.5	48.7	39.5	43.9	34.6
300	0 lb						7.1		6.8	8.9		7.6	10.1	7.6	10.6	9.3	11.7
	B	93.3	93.8	94.1	86.5	82.4	69.2	71.1	66.8	54.8	59.5	54.8	45	46.4	38.1	41.5	33.1
320	0 lb														6.8		8.1
	B	83.1	83.5	84.4	83.2	80.1	68.3	68.1	64.5	53.7	56.8	52.6	43.9	44.2	36.8	39.3	31.8
340	0 lb				75.9	73.6	67.7	66.1	62.5	52.9	54.4	50.7	43	42.3	35.7	37.5	30.6
	B																
360	0 lb								60.9	52.5	52.4	49.1	42.2	40.7	34.8	35.8	29.6
	B																
380	0 lb										50.6		41.6	39.3	34.1	34.2	28.7
	B																
400	0 lb													38.1	33.6	33	28.1
	B																



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 364 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	0 lb	177	174														
	B	177	174														
70	0 lb	173	172	142	148	136		126									
	B	177	173	142	148	136		126									
80	0 lb	149	151	139	148	136	104	126	113		108	99.3					
	B	177	171	139	148	136	104	126	113		108	99.3					
90	0 lb	129	130	135	130	132	102	125	112	82.9	107	97.9		86.3		73.8	
	B	176	169	136	146	134	102	125	112	82.9	107	97.9		86.3		73.8	
100	0 lb	113	113	119	114	117	99	113	110	80.6	105	96.3	71.5	85.1		72.6	
	B	173	166	133	143	132	99.2	123	110	80.7	105	96.3	71.5	85.1		72.6	
110	0 lb	98.4	99.8	105	100	103	96.5	100	104	78.5	98.9	94.7	69.4	83.9	61.9	71.2	
	B	171	164	130	140	130	96.7	120	108	78.5	104	94.7	69.4	83.9	61.9	71.2	
120	0 lb	86.2	87.7	92.6	88.3	90.5	93.2	88.7	92.1	76.5	88.1	90.6	67.3	81.9	59.9	69.6	54.6
	B	168	161	127	138	128	94.5	118	106	76.6	102	92.4	67.4	81.9	59.9	69.6	54.6
130	0 lb	76	77.2	81.9	78.2	80.2	85.3	77.9	81.1	74.5	78.7	80.8	65.5	78.1	58.2	68.1	52.9
	B	166	159	124	135	127	92.4	115	104	74.6	101	90.1	65.5	79.6	58.2	68.1	52.9
140	0 lb	67.1	68.3	72.7	69.3	70.6	75.3	69.3	72.4	72.5	69.9	71.8	63.7	70.2	56.4	66.4	51.2
	B	161	156	122	133	125	90.3	113	102	72.8	99	87.1	63.8	76.8	56.4	66.4	51.2
150	0 lb	59.4	60.4	64	61.5	62.7	67.3	61.3	64.1	68.1	62.1	64	62	62.8	54.9	62.3	49.6
	B	157	152	119	130	123	88.6	111	99.3	71.1	96	84.3	62	74.2	54.9	64.6	49.6
160	0 lb	52.3	53.4	56.4	54.3	55.9	59.6	54.2	57	61.3	55.3	57.1	60.4	56.4	53.3	56	48.2
	B	151	147	116	126	119	86.7	107	96.3	69.6	92.6	81.7	60.6	71.8	53.3	62.8	48.2
170	0 lb	45.8	46.2	49.3	48.1	49	52.5	48.1	50.7	54.3	49.4	51.1	56.7	50.1	51.8	50.2	46.8
	B	145	143	114	122	115	84.6	104	93.2	67.9	89.3	79	59.1	69.3	51.9	61.1	46.8
180	0 lb	39.6	40.5	43	41.9	42.9	46.2	42.5	44.8	48.1	43.7	45.3	50.6	44.6	49.6	45	45.2
	B	140	137	112	118	112	82.8	100	90	66.4	85.8	76.3	57.8	66.9	50.5	59.4	45.3
190	0 lb	34.3	35.1	37.5	36.5	37.5	40.7	37.1	39.5	42.5	38.9	40.3	44.8	39.7	45.3	40.3	43.9
	B	136	133	109	116	109	81.2	96.6	87.5	65	82.8	73.8	56.3	64.4	49.2	57.8	44.1
200	0 lb	29.6	30.4	32.6	31.8	32.7	35.8	32.4	34.7	37.4	33.9	35.3	39.9	35.2	40.3	35.8	40.8
	B	131	129	108	113	106	79.7	93.7	85.1	63.5	79.9	71.5	55	62.3	48	56.1	43
220	0 lb	21.6	22.1	24.3	23.6	24.3	26.9	24.3	26	28.4	25.8	27	30.8	26.9	31.7	27.7	31.9
	B	123	121	104	106	101	76.8	88.6	80.9	61	75.2	67.6	52.5	58.4	45.6	53	40.5
240	0 lb	15.9	16.4	18	17.6	18.2	20.3	18.1	19.6	21.5	19.3	20.3	23.7	20.3	24.1	21.3	24.6
	B	117	114	101	99.9	95.7	74.6	83.9	76.8	58.9	70.9	64.1	50.4	55.1	43.4	50.1	38.4
260	0 lb	11.1	11.5	13	12.7	13.1	15.1	13.2	14.6	16.2	14.5	15.3	18.1	15.4	18.5	16.3	19.1
	B	111	109	99.1	95.2	90.8	72.6	79.2	73.3	57	66.9	60.9	48.5	52.2	41.5	47.2	36.6
280	0 lb	6.1	6.4	8		8.5	10.6	8.6	10.2	11.7	10.1	11	13.6	10.9	14	11.9	14.6
	B	102	102	97.2	90.7	86.9	70.9	75.5	70.1	55.5	63.5	58	46.9	49.3	39.8	44.5	35
300	0 lb						5.8			7.1	5.6	6.4	9.6				10.4
	B	92.5	93	92.5	87.7	84.9	69.6	72.1	67.4	54.1	60.3	55.3	45.5	46.9	38.4	42.1	33.5
320	0 lb																
	B	83.1	83.7	84.5	84	83.1	68.6	69.3	65	52.9	57.6	53.2	44.3	44.7	37.1	39.8	32.1
340	0 lb																
	B				73.3	73.6	68.1	66.9	63.2	52.2	55.1	51.2	43.2	42.9	36	38	30.9
360	0 lb																
	B							64.4	61.3	51.7	53.1	49.6	42.4	41.3	35.1	36.3	29.9
380	0 lb																
	B										51.4	48.2	41.8	39.7	34.3	34.7	29
400	0 lb																
	B													38.5	33.7	33.4	28.3
420	0 lb																
	B															32.2	27.7



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 374 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	0 lb	178	158														
	B	178	158														
70	0 lb	167	158	142	149	136		127									
	B	178	158	142	149	137		127									
80	0 lb	143	147	139	144	136		127	113		108						
	B	178	158	139	148	136		127	113		108						
90	0 lb	124	127	131	125	128	102	124	112		107	98		79.7		74.2	
	B	176	158	136	146	134	102	125	112		107	98		79.7		74.2	
100	0 lb	107	109	114	109	111	99.2	108	110	79.7	106	96.3	71.3	79.7		72.9	
	B	174	158	133	144	133	99.2	123	110	79.7	106	96.3	71.3	79.7		72.9	
110	0 lb	93.2	96	100	95.3	98	96.8	95	98.9	79.2	95.1	94.7	69.3	79.7	61.7	71.5	
	B	172	158	130	141	131	96.9	121	108	79.2	104	94.7	69.3	79.7	61.7	71.5	
120	0 lb	81.9	84.4	87.7	84.3	86	91.8	83.6	87.1	78.2	84.1	86.5	67.5	79.5	59.9	69.9	54.5
	B	169	158	127	138	129	94.7	118	107	78.3	103	92.5	67.5	79.7	59.9	69.9	54.5
130	0 lb	71.4	73.9	77	74.1	75.6	81	73.6	76.9	76.4	73.8	76.8	65.7	76.1	58.1	68.4	52.9
	B	166	158	125	136	127	92.6	116	105	76.4	101	90.5	65.7	79.7	58.1	68.4	53
140	0 lb	63.1	65.4	68.3	65.1	66.6	71.5	64.9	68	73.1	65.6	67.8	64	67.7	56.5	65.9	51.3
	B	162	157	123	133	125	90.7	113	103	74.6	99.4	87.6	64	78.6	56.5	66.7	51.3
150	0 lb	55.2	57.5	60.2	57.4	58.6	63.4	57.4	59.9	65.8	58	60	62.2	60.2	54.9	60.7	49.7
	B	157	153	120	131	124	88.9	111	99.7	72.9	96.6	84.7	62.3	76.2	55	65	49.7
160	0 lb	48.3	50.4	52.9	50.5	51.7	55.8	50.4	53.2	58.3	51.2	53.7	58.9	53.7	53.5	53.9	48.2
	B	152	149	117	127	120	87	108	96.9	71.3	93.1	82.2	60.8	73.8	53.5	63.2	48.2
170	0 lb	41.9	43.9	46.2	44.5	45.7	49.5	44.6	46.9	51.8	45.7	47.5	53	47.5	51.9	48	46.8
	B	148	144	115	123	117	85.2	105	93.8	69.8	90.1	79.6	59.4	71.3	52	61.5	46.8
180	0 lb	36.3	38.1	39.7	38.5	39.7	43.1	39.1	41.6	45.8	40.4	42.1	47.3	42.4	47.5	42.6	45.3
	B	143	140	113	120	113	83.4	101	91.1	68.3	86.9	77	58	69	50.8	59.8	45.6
190	0 lb	31.2	32.5	34.5	33.5	34.4	37.5	33.9	36.4	40.2	35.3	36.9	41.8	37.4	42.3	37.9	43
	B	137	136	111	117	110	81.8	97.8	88.3	66.8	83.6	74.4	56.6	66.6	49.5	58.1	44.3
200	0 lb	26.4	27.9	29.6	28.6	29.5	32.8	29.6	31.5	35.3	30.8	32.4	36.9	33.2	37.5	33.7	38.8
	B	134	131	108	115	108	80.4	95	85.9	65.4	80.9	72.3	55.3	64.5	48.3	56.5	43.2
220	0 lb	18.9	20.2	21.4	20.8	21.6	24	21.3	23.4	26.5	22.8	24	28.3	25.1	28.8	26.1	30.4
	B	125	124	105	109	102	77.5	89.6	81.8	62.8	76	68.3	52.8	60.5	45.8	53.6	40.8
240	0 lb	13.2	14.4	15.4	15	15.6	17.7	15.6	17.1	19.6	17	18	21	18.8	21.9	19.7	23.2
	B	120	118	102	102	97.3	75.1	84.6	77.8	60.6	72.1	64.9	50.8	57.2	43.8	50.7	38.7
260	0 lb	7.6	8.9	10	9.5	10.3	12.7	10.1	12	14.6	11.7	12.8	15.9	13.7	16.4	14.7	17.6
	B	112	112	99.5	96.9	93.3	73	80.4	74.1	58.7	67.9	61.7	49	54.2	41.9	47.9	36.8
280	0 lb						7.4						11.3	8.9	11.8	9.8	13.1
	B	102	102	97.9	93.6	89.6	71.2	76.7	71	57.1	64.4	58.9	47.3	51.4	40.2	45.2	35.3
300	0 lb														7.3		
	B	91.5	92.3	92.5	90.2	86.6	70	73.1	68.1	55.5	61.2	56.1	45.8	49	38.8	42.7	33.8
320	0 lb																
	B	80.3	81.5	82.8	83.1	82.3	68.9	70.2	65.9	54.3	58.3	53.8	44.5	46.6	37.5	40.6	32.4
340	0 lb																
	B			71.5	73.5	74.3	68.1	67.7	63.9	53.4	56	51.8	43.4	44.6	36.3	38.6	31.2
360	0 lb																
	B						65.6	64.5	62.1	52.7	53.7	50	42.5	42.8	35.3	36.8	30.2
380	0 lb																
	B									52.4	51.9	48.7	41.9	41.3	34.5	35.3	29.2
400	0 lb																
	B													40	33.9	33.9	28.5
420	0 lb																
	B															32.7	27.9



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft	0 lb B	SL4 384 ft															
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
60	173																
70	167	166	139	145	133		123										
80	143	145	139	142	132		123	111		106							
90	123	125	130	124	128	102	122	109		105	95.8		84.9			73	
100	106	108	113	109	111	99.2	109	108	80.6	104	94.3		83.9			71.8	
110	92.4	94.3	99.3	95.3	97	96.7	95.2	99.3	78.6	95.4	92.7	69.1	82.7	61.6		70.5	
120	80.8	82.5	87.2	83.8	85.7	90.8	83.1	87.1	76.7	83.2	86.6	67.2	80.8	59.7		69.2	54.4
130	70.8	72.3	76.9	73.3	74.9	80.7	73	76.6	74.8	73.6	76.1	65.6	75.1	58.1		67.7	52.8
140	62.1	63.6	67.9	64.7	66.2	71.1	64.1	67.5	72.5	65.2	67.5	63.9	66.4	56.5		65.9	51.2
150	54.6	55.3	59.4	56.6	58.1	62.6	56.4	59.6	64.4	57.2	59.5	62.4	58.8	55		58.3	49.7
160	47.4	48.6	52	49.6	50.9	55.4	49.7	52.8	56.7	50.9	53	59.2	52	53.4		52	48.3
170	41.6	42.3	45.8	43.4	44.7	48.9	43.8	46.7	50.4	44.7	46.7	52.6	46.1	51.4		46	46.9
180	35.8	36.5	39.7	38	39.1	43.1	38.4	40.8	44.8	39.7	41.5	46.8	40.8	47.1		41.1	45.5
190	30.5	31.4	34.2	32.8	33.8	37.6	33.4	36	39.3	34.8	36.5	41.5	35.7	41.7		36.3	41.6
200	25.7	26.4	29	28	29.2	32.3	29	31	34.2	30.4	32	36.8	31.5	37.2		31.9	37
220	18.3	18.8	20.9	20.3	21	23.7	20.9	22.7	25.4	22.3	23.6	28.2	23.7	28.8		24.4	29.1
240	12.6	12.3	106	109	103	78.2	90.3	82.3	61.9	76.7	68.7	53.2	59.4	46.2		53.6	41
260	119	117	102	103	98.2	75.8	85.8	78.7	59.8	72.6	65.4	51	56.1	44.1		50.8	39
280	110	110	100	97.6	94.1	73.5	81.4	75	57.8	68.9	62.4	49.3	53.4	42.3		48.3	37.1
300	100	101	97.2	94	90.6	71.7	77.6	71.7	56.1	65.2	59.5	47.7	50.7	40.7		45.7	35.6
320	90.1	90.5	91.6	89.4	87.7	70.3	74.1	68.8	54.6	62.1	56.8	46.2	48.3	39.2		43.3	34.1
340	79.9	80.5	82	80.6	81	69.1	71	66.6	53.5	59.2	54.4	44.8	46	37.9		41.1	32.7
360	70	70.3	70.9	71.2	71.9	68	68.4	64.6	52.5	56.7	52.4	43.8	44	36.6		39.2	31.5
380				64.1	64.6	64.8	64.3	62.2	51.8	54.4	50.7	42.7	42.2	35.7		37.4	30.4
400							58.6	58.8	51.4	52.5	49.2	41.9	40.7	34.7		35.7	29.5
420											48	41.5	39.4	34		34.3	28.7
440																30.5	27.5



B	529,100 - 617,300 lb
	330,700 - 526,900 lb
	66,100 - 328,500 lb
	0 lb

ft		SL4 394 ft																
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft		F 138 ft		
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
60	0 lb	163																
	B	163																
70	0 lb	159	156	132	136	126												
	B	162	156	132	136	126												
80	0 lb	138	142	132	135	125		116	106			100						
	B	161	155	132	136	125		116	106			100						
90	0 lb	118	122	126	121	122	100	115	104			99.5	91.5		79.7		70	
	B	158	153	132	134	124	100	115	104			99.5	91.5		79.7		70	
100	0 lb	103	106	111	105	108	98.8	107	103	79.7		98.4	90.3		79.7		69	
	B	156	151	131	131	122	98.8	113	103	79.7		98.4	90.3		79.7		69	
110	0 lb	89.4	92.4	96.3	91.5	94.5	96.1	92.4	95.4	79.3		91.5	88.7	68	79	59.8	67.9	
	B	153	149	129	129	121	96.5	111	101	79.3		96.9	88.7	68	79	59.8	67.9	
120	0 lb	78.5	80.7	84.4	80	81.8	88.1	81.3	83.1	77.9		80.3	83.2	67	77.6	59	66.8	53.3
	B	150	147	127	126	119	94.6	109	99.5	77.9		95.6	86.9	67	77.9	59.1	66.8	53.3
130	0 lb	68.5	70.4	73.8	70	71.8	77.7	71	73.6	75.9		70.7	73.4	65.4	72.6	57.7	65.6	52.4
	B	147	144	125	124	118	92.6	107	98.3	76.2		94.1	85.6	65.4	76.8	57.8	65.6	52.5
140	0 lb	59.7	62.1	64.7	61.5	63.1	68.1	62.9	64.6	70.8		62.4	64.9	63.8	64.3	56.2	63.4	50.9
	B	144	141	123	122	116	90.8	105	97	74.6		92.7	84.3	63.8	75.7	56.3	64.2	51
150	0 lb	52	54.3	56.8	54.1	55.5	60.3	55.2	56.8	62.7		55.1	56.8	62	56.8	54.8	57.3	49.4
	B	140	138	120	120	114	89.2	103	95.3	73		90.9	83	62.2	74.4	54.9	62.9	49.5
160	0 lb	45.3	47.5	49.8	47	48.5	52.9	48.4	49.9	55.6		48.1	50.3	56.6	50.7	53.3	51	48.1
	B	137	134	118	117	112	87.6	101	94.1	71.5		88.9	81.3	60.8	73.1	53.5	61.6	48.1
170	0 lb	39.6	41.2	43.7	41.4	42.7	46.5	42.5	43.9	49.3		42.5	44.5	50.1	44.8	50.3	45	46.7
	B	133	130	115	114	109	85.8	98.2	92.6	70.1		87.3	79.2	59.4	71.2	52.1	60.1	46.7
180	0 lb	34.2	35.7	37.8	36	37.1	41.2	37.2	38.6	43.3		37.5	39	44.7	39.5	44.8	40	44.8
	B	128	126	113	110	106	84	95.4	90.1	68.7		85.1	77.2	58.2	69	50.9	58.7	45.6
190	0 lb	28.9	30.4	32.3	31	32.1	35.9	32.6	33.7	38.3		32.6	34.4	39.5	34.8	39.8	35.2	40.7
	B	124	121	111	107	104	82.2	92.7	87.6	67.3		82.7	75	57	66.9	49.7	57.2	44.4
200	0 lb	24.2	25.9	27.4	26.7	27.4	30.6	28.2	29.4	33.6		28.6	29.9	34.8	30.6	35.3	31.1	36.4
	B	120	118	109	105	101	80.5	90.6	85.2	65.9		80.5	72.6	55.7	64.9	48.6	55.8	43.3
220	0 lb	17	18.5	19.7	18.9	19.8	22.2	20.4	21.3	24.8		21.1	22.2	26.4	23.2	27.2	23.9	28.4
	B	114	112	105	97.8	95.6	77.8	86.4	81.7	63.2		75.9	68.5	53.3	61	46.3	53.1	41.1
240	0 lb	10.7	12.3	13.6	12.7	13.6	16.2	14.3	15.3	18.3		14.8	16	19.7	16.9	20.1	17.6	21.6
	B	107	106	101	93.4	91	75.6	82.5	78.3	61		72.4	65.3	51.1	57.6	44.1	50.5	39
260	0 lb					7.7	10.5	8.8		12.9			10.5	14.2	11.5	14.8	12.3	15.9
	B	103	102	96.7	88.1	85.4	73.3	77.5	74.2	59.1		68.5	62.1	49.1	54.6	42.2	48.1	37.1
280	0 lb									7.7							9.7	10.9
	B	96.5	96.2	93.9	84.6	82.1	71.6	73.5	69.7	57.4		64.8	59.2	47.5	51.9	40.5	45.5	35.5
300	0 lb																	
	B	88.2	88.9	89.7	80.7	78.8	70.2	70.3	66.9	56		61.8	56.6	46.1	49.4	39	43.1	33.9
320	0 lb																	
	B	77.7	78.3	79.4	76.7	75.9	69.1	67.6	64	54.6		58.8	54.3	44.7	47.2	37.8	41	32.7
340	0 lb																	
	B	69.2	69.7	70.4	70.3	70.5	68.2	65.5	62.2	53.6		56.5	52.4	43.7	45.1	36.6	39	31.5
360	0 lb																	
	B				63.4	63.9	64.1	63.4	61.1	52.8		54.5	50.6	42.7	43.4	35.6	37.3	30.4
380	0 lb																	
	B							57.8	57.5	52.4		52.6	49.1	42	41.9	34.8	35.8	29.5
400	0 lb																	
	B											50.7	47.8	41.4	40.6	34.1	34.3	28.7
420	0 lb																	
	B														39.4	33.6	33.1	28
440	0 lb																	
	B																32.1	27.5

SL4DFB

SL4 404



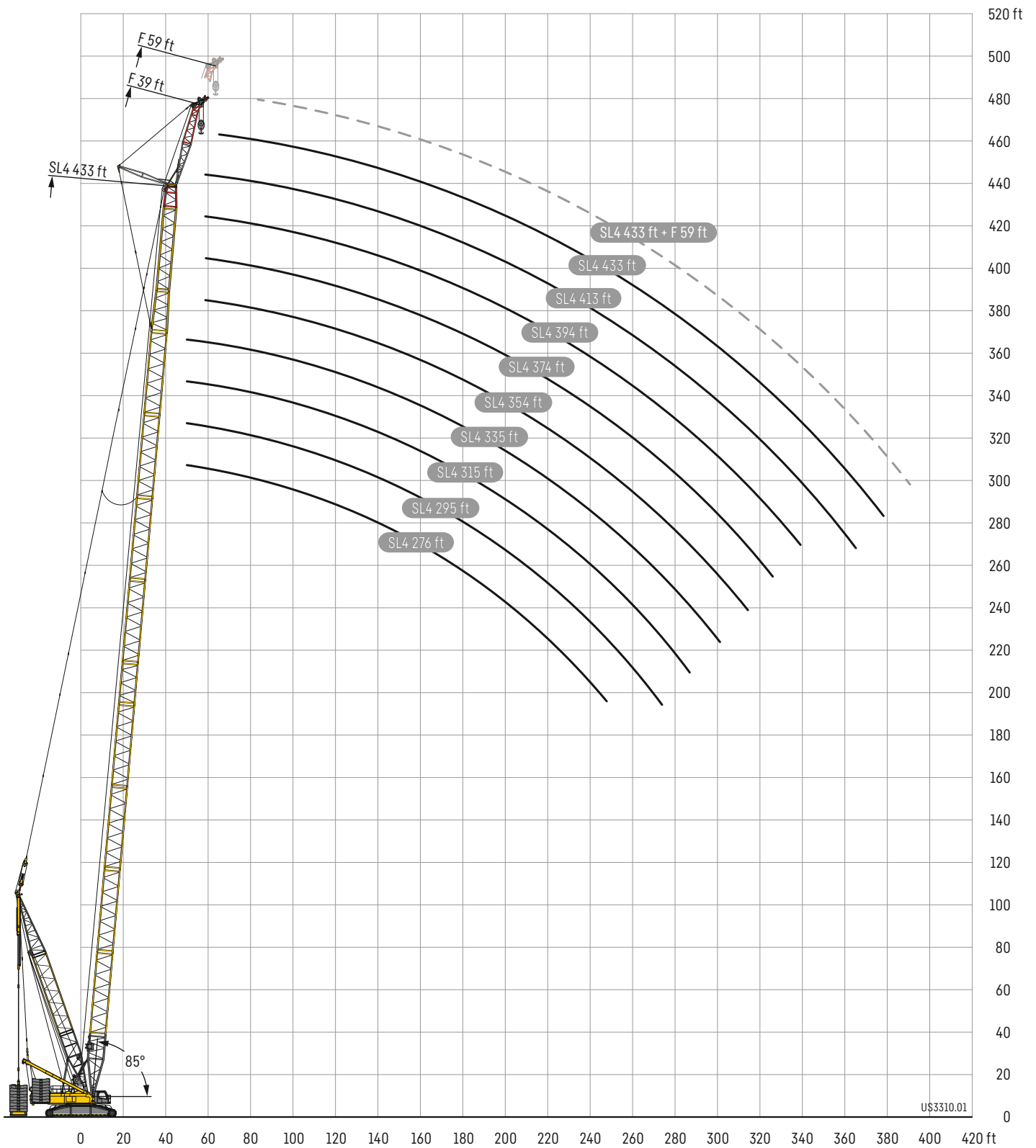
529,100 - 617,300 lb
330,700 - 526,900 lb
66,100 - 328,500 lb
0 lb

ft		SL4 404 ft													
		F 39 ft			F 59 ft			F 79 ft			F 98 ft			F 118 ft	
		10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°
60	O lb	157													
	B	158													
70	O lb	157	151		132										
	B	157	151		132										
80	O lb	138	140	129	131	122		113	103		97.9				
	B	156	150	129	131	122		113	103		97.9				
90	O lb	119	121	126	120	120	97.9	112	102		97.1	89.4		79.2	
	B	153	148	128	129	121	97.9	112	102		97.1	89.4		79.2	
100	O lb	102	106	110	105	108	97.2	105	101	79	95.8	88.2		78.2	
	B	151	146	128	127	119	97.2	110	101	79	95.8	88.2		78.2	
110	O lb	88.9	92.2	96.6	91.4	93.7	96	91.7	95	78.5	91.1	87	66.7	77.2	58.5
	B	148	144	128	125	118	96.3	108	99.2	78.5	94.6	87	66.7	77.2	58.5
120	O lb	77.7	80	84	79.6	81.5	87.5	80.5	82.5	77.7	79.6	82.6	66.1	76.1	57.9
	B	146	142	126	123	117	94.3	106	97.4	77.7	93.4	85.5	66.1	76.3	57.9
130	O lb	67.3	70.2	73.2	69.4	71.2	76.9	70.8	72.6	76	69.8	72.6	65.2	71.6	57.1
	B	143	139	125	121	115	92.6	104	96.3	76.3	92	84.1	65.2	75.2	57.1
140	O lb	59	61	64.4	60.6	62.4	67.6	62.3	64.2	70.4	61.3	64	63.9	63.7	56
	B	140	137	123	119	113	91	103	95.3	74.5	90.5	82.6	63.9	74.2	56.2
150	O lb	51.1	53.6	56.2	53	54.6	59.7	54.4	56.2	62.6	54.5	56.4	61.7	56.5	54.7
	B	137	135	121	118	111	89.4	101	94	73.2	89.2	81.5	62.3	73.3	54.7
160	O lb	44.6	46.6	49.1	46.3	47.8	52.7	48.1	49.7	55.2	47.9	49.7	56.5	50.3	53.3
	B	134	131	118	115	110	88	99.3	92.5	71.7	87.4	80.3	60.9	72.3	53.4
170	O lb	38.6	40.4	42.7	40.4	41.8	45.9	41.9	43.4	48.8	42.1	43.7	49.7	44.3	50
	B	130	128	116	112	107	86.5	97.1	91.6	70.3	85.7	79	59.5	70.7	52.2
180	O lb	33.2	35.1	37.2	35.2	36.5	40.5	36.4	37.9	43	36.4	38.5	44.2	38.9	44.5
	B	126	124	114	109	105	84.7	94.5	89.4	69	83.4	77.5	58.4	68.9	50.9
190	O lb	28.3	30.1	32.1	30.2	31.5	35.2	32	33.3	37.8	31.8	33.8	39.3	34.4	39.3
	B	123	120	112	106	102	82.8	91.9	87.3	67.6	81.3	75.2	57.2	67.2	49.8
200	O lb	23.6	25.4	27.1	25.9	27.1	30.4	27.6	29	33.2	27.8	29.1	34.4	30	34.7
	B	119	117	109	103	100	81.1	89.5	85.4	66.3	79.3	72.9	56	65.2	48.7
220	O lb	15.9	17.6	19.2	18.2	19.2	21.8	19.8	21	24.4	20.3	21.5	26.3	22.5	26.7
	B	113	111	106	97.4	94.9	78.3	85.6	81.5	63.6	75.5	69	53.5	61.2	46.5
240	O lb	9.2	10.8	12.4		12.3	15.5	13.4	14.4	17.9	13.9	15.3	19.3	16.2	19.9
	B	107	107	102	92.8	90.9	76	81.6	79	61.4	72.6	65.8	51.5	58	44.4
260	O lb									12		9.3	13.6	10.7	14
	B	102	101	97.8	88	86.1	73.8	77.9	74.7	59.5	69.2	62.7	49.5	55.2	42.6
280	O lb														8.9
	B	96.1	96.3	94.6	84.1	82.2	71.9	73.9	71	57.7	65.6	60	47.9	52.5	40.9
300	O lb														
	B	87.5	87.7	88.1	80.3	79.2	70.5	71.2	68	56.1	62.6	57.2	46.4	50.1	39.4
320	O lb														
	B	77.2	77.9	79.2	75.7	75.9	69.4	68	65.3	54.9	59.7	54.9	45.1	47.9	38.1
340	O lb														
	B	68.4	68.9	69.6	69.3	69.7	67.5	65.5	63.8	53.9	57.4	52.9	43.9	45.7	36.9
360	O lb														
	B	61.1	61.4	62.3	62.6	63.1	63.9	62.1	61.8	53	55.1	51	43.1	43.9	35.9
380	O lb														
	B					56.5	57.3	56.9	57.3	52.4	53.1	49.6	42.2	42.4	35
400	O lb														
	B									51.1	50.9	48.3	41.6	40.9	34.3
420	O lb														
	B												41.2	39.8	33.6
440	O lb														
	B														33.2

Lifting heights

Hauteurs de levage

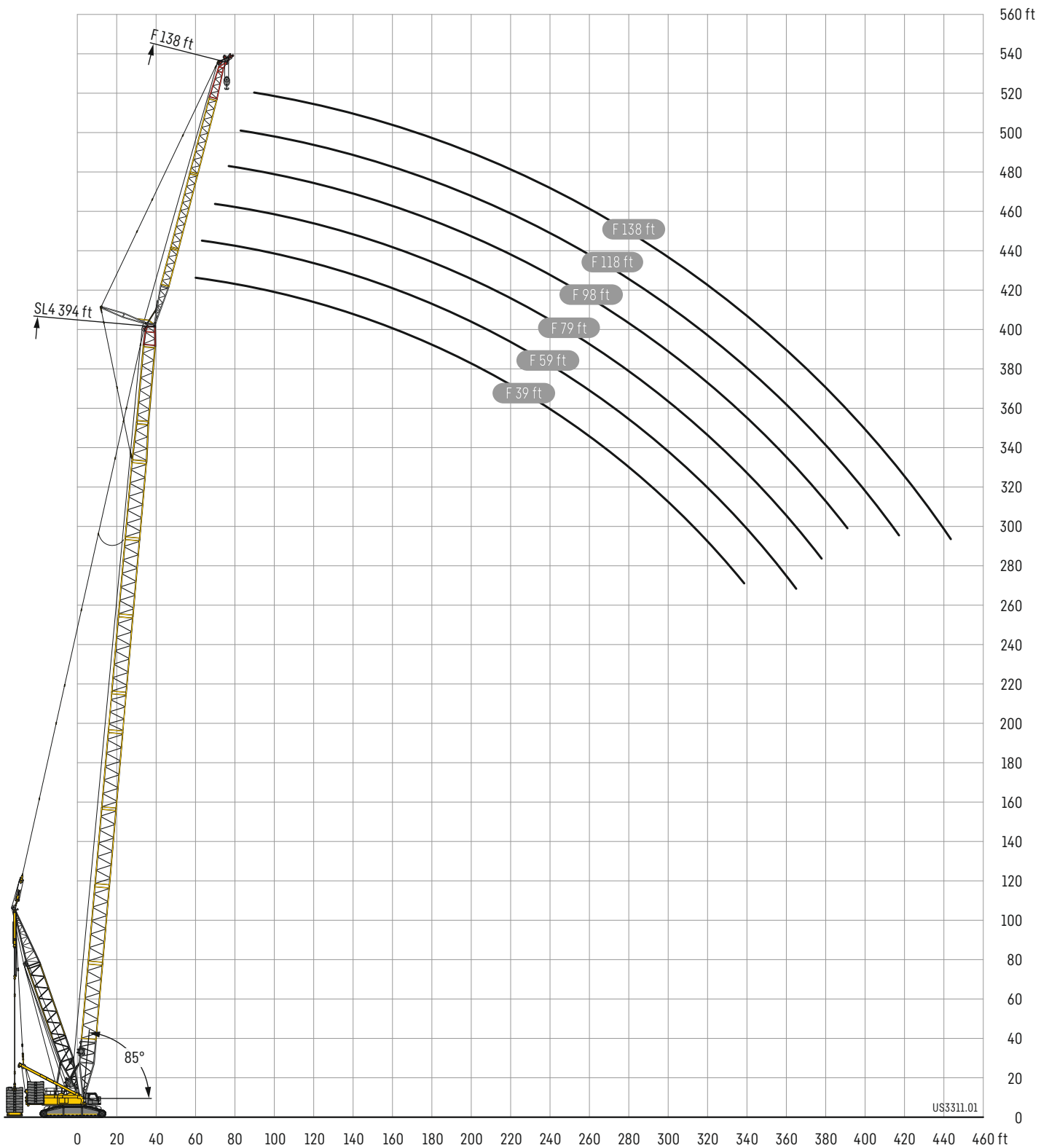
SL4DFB



Lifting heights

Hauteurs de levage

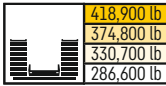
SL4DFB



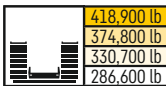
US3311.01

SL8F

SL8 236 - 335



ft	SL8 236 ft				SL8 246 ft				SL8 256 ft				SL8 266 ft				SL8 276 ft				ft	
	F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		F 59 ft			
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
45	272				272					272											45	
50	272	255			272	256				272	257			272	256			269			50	
60	243	238	210	176	238	238	211	176	235	236	212	177	231	232	212	177	225	229	208		60	
70	206	207	194	165	202	204	197	166	198	200	197	166	195	196	194	167	190	193	192	166	70	
80	176	177	173	153	173	175	173	154	170	172	170	155	166	169	166	157	164	166	162	158	80	
90	154	155	153	145	150	152	151	146	148	149	149	146	145	147	146	143	143	144	144	142	90	
100	134	135	135	137	132	133	132	135	130	131	131	134	127	128	128	130	125	126	126	128	100	
110	115	117	118	121	115	116	117	120	114	115	116	119	112	113	113	115	110	111	111	114	110	
120	102	103	104	106	100	101	103	105	99.3	99.8	102	104	97.2	98.6	100	103	96.1	97.4	98.2	101	120	
130	89.4	90.3	91.6	93.5	87.8	89	90.5	92.4	86.8	87.9	89.4	91.3	85.1	86.7	88.3	90.5	84.5	85.4	86.8	89.4	130	
140	78.8	79.7	81.5	83.4	77.6	78.3	80.1	82	76.7	77.4	79.3	81	75.2	76.2	77.7	79.5	74.3	75.2	76.5	78.5	140	
150	70.1	70.8	72.5	74.3	68.6	69.3	71.2	73	67.8	68.5	70.5	72.2	66.3	67.2	69	70.9	65.5	66.4	67.8	69.7	150	
160	62.9	63.3	64.7	66.2	61.1	61.8	63.5	65	60.4	61	62.6	64.1	58.5	59.2	61.2	63	57.6	58.4	60.1	61.9	160	
170	56.2	56.9	58.2	59.5	54.7	55.1	56.8	58.2	53.9	54.5	55.8	57.3	52.1	52.6	54.4	56.1	51	51.8	53.3	54.8	170	
180	50.3	50.6	52.5	53.7	48.6	49.2	50.8	52.2	48	48.6	50.2	51.2	46.5	47.1	48.4	50	45.2	45.9	47.2	48.5	180	
190	45.2	45.6	47	48.2	43.7	44.1	45.7	47	42.7	43.1	44.8	46.1	41.2	41.7	43.3	44.8	40.1	40.8	41.9	43.3	190	
200	40.5	40.8	42.4	43.5	39	39.4	40.8	42	38.3	38.6	40.1	41.3	36.6	36.9	38.5	40	35.3	35.8	37.2	38.5	200	
220	32.8	33	34.4	35.3	31.1	31.3	32.8	33.9	30.3	30.6	32.1	33.1	28.6	29	30.3	31.5	27.3	27.6	28.8	30	220	
240			27.9	28.6	24.7	24.9	26.2	27.1	23.9	24.2	25.2	26.2	22.1	22.3	23.6	24.6	20.7	21.1	22	23	240	
260							20.8	21.5			19.9	20.7			17.1	18.3	19	15.8	16	17.2	18	260
280																			12.7	13.4		280

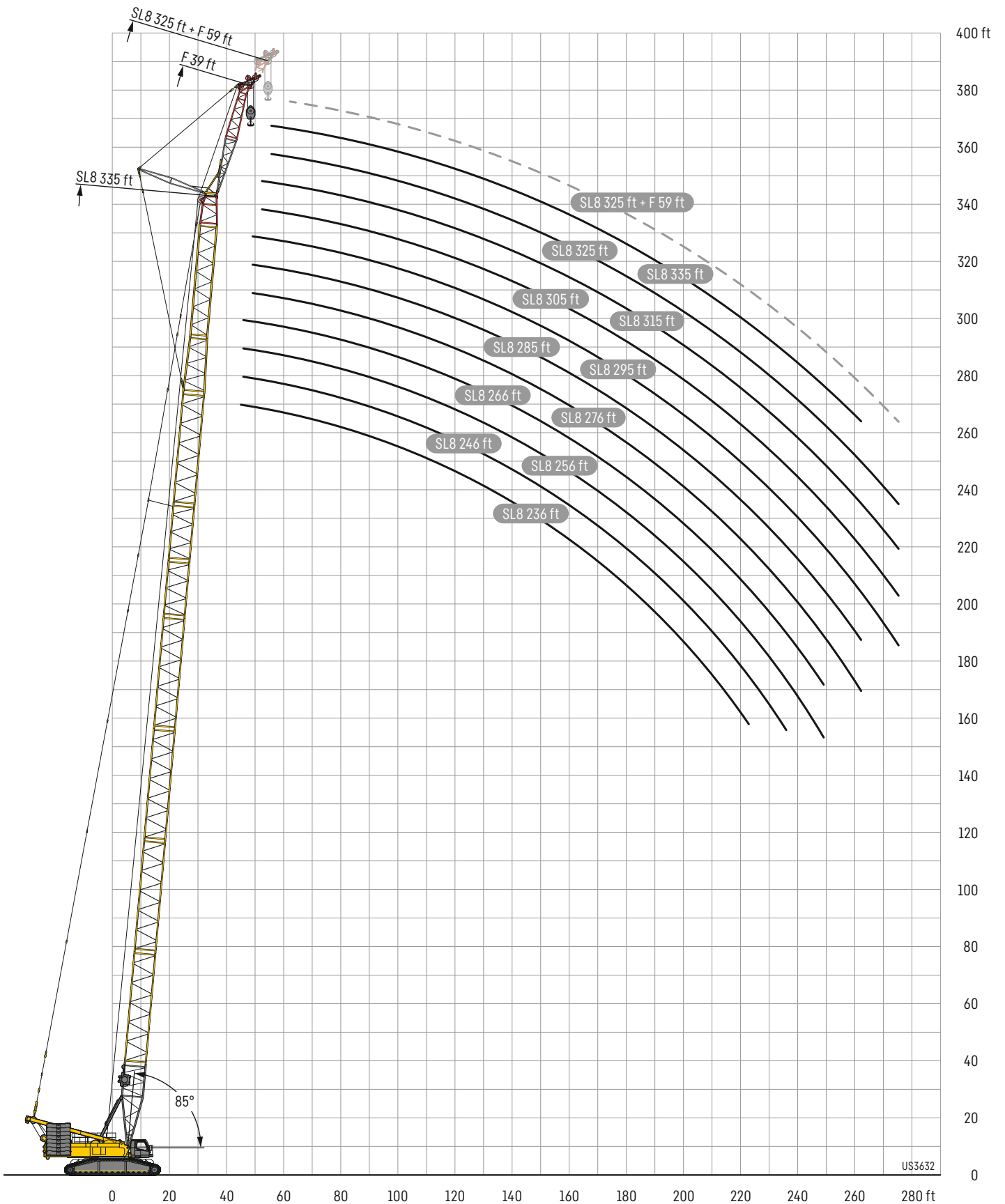


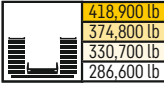
ft	SL8 285 ft				SL8 295 ft				SL8 305 ft				SL8 315 ft				SL8 325 ft				SL8 335 ft		ft
	F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		F 59 ft		F 39 ft		
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
50	265				249					192													50
60	222	224	204		218	221	194		214	216	189		211	206	178		207	200			194	187	60
70	187	189	188	166	185	188	186	165	182	184	181	161	180	182	172	155	176	178	167	151	174	175	70
80	161	162	159	157	157	159	159	157	154	155	158	156	152	152	155	150	146	152	153	147	144	152	80
90	140	141	140	142	137	140	138	139	134	136	135	136	132	134	133	138	129	130	129	136	126	128	90
100	122	124	123	126	120	122	122	124	116	119	118	121	115	117	117	119	112	114	114	116	109	112	100
110	107	108	109	112	105	107	107	109	102	105	105	107	102	103	103	105	99	99.8	100	103	95.9	98.3	110
120	93.8	95	95.6	98.5	91.8	94	94.6	96.5	89.3	90.9	92.3	93.6	89.1	90	90.9	93.3	85.8	87.7	87.8	90.8	83.7	85.8	120
130	82	82.9	84.1	86.6	79.9	82.4	83.2	84.4	77.6	80.1	80.6	82	78.1	78.9	79.7	82.4	75.3	76.2	76.9	79.7	72.8	74.9	130
140	72.3	73.2	73.8	76.1	70	72.1	72.7	74.7	67.7	69.8	70.7	72.1	67.7	68.9	69.8	72.7	65.1	66.3	67.3	69.8	63.5	65.6	140
150	63.7	64.7	65.3	67.5	61.7	63.4	64.6	65.6	59.2	60.8	62	63.2	59.6	60.4	61.3	63.7	57	57.9	58.7	61.4	54.9	56.8	150
160	55.9	56.8	57.7	59.7	54.1	55.7	56.9	57.9	51.5	53.3	54.7	55.9	52	52.8	53.9	56.2	49.8	50.6	51.6	53.9	47.5	49.7	160
170	49.2	49.9	50.8	53	47.2	49	50.2	51.1	45.1	46.5	47.8	49	45.3	46.2	47.3	49.5	43	44.1	45.3	47.4	41.3	43.1	170
180	43.2	43.9	44.9	46.6	41.4	43	44.3	45.1	39.3	40.6	42	43.2	39.4	40.4	41.5	43.5	37.4	38.1	39.3	41.2	35.2	37	180
190	38.1	38.7	39.8	41.3	36.3	37.6	38.9	39.7	33.9	35.5	36.7	37.5	34.4	35.1	36.3	37.9	32.2	32.8	34	36	30.2	31.9	190
200	33.4	33.9	35	36.5	31.6	33	34.2	34.9	29.3	30.8	31.9	32.8	29.8	30.4	31.5	33.2	27.5	28	29.3	31.3	25.6	27.2	200
220	25	25.7	26.4	28	23.7	24.7	25.9	26.6	21.4	22.4	24.2	24.9	21.9	22.5	23.7	25.1	20.3	20.8	21.6	23.1	18.8	19.9	220
240	19.1	19.5	20.5	21.5	17.7	18.6	19.7	20.2	16.2	17	18	18.5	16.5	16.7	17.6	18.8	14.8	15	16	17.3	13.4	14.3	240
260	14.1	14.4	15.6	16.5	12.9	13.7	14.9	15.3	11.2	12	13.4	13.8	11.6	11.9	13.1	14.2	10	10.4	11.6	12.6	8.7	9.7	260
280			11.1	11.9	8.5	9.1	10.5	10.9	6.8	7.5	8.9	9.3	7.1	7.4	8.7	9.7		5.7	7.2	8.2			280
300							6.5	6.8								5.6							300

Lifting heights

Hauteurs de levage

SL8F



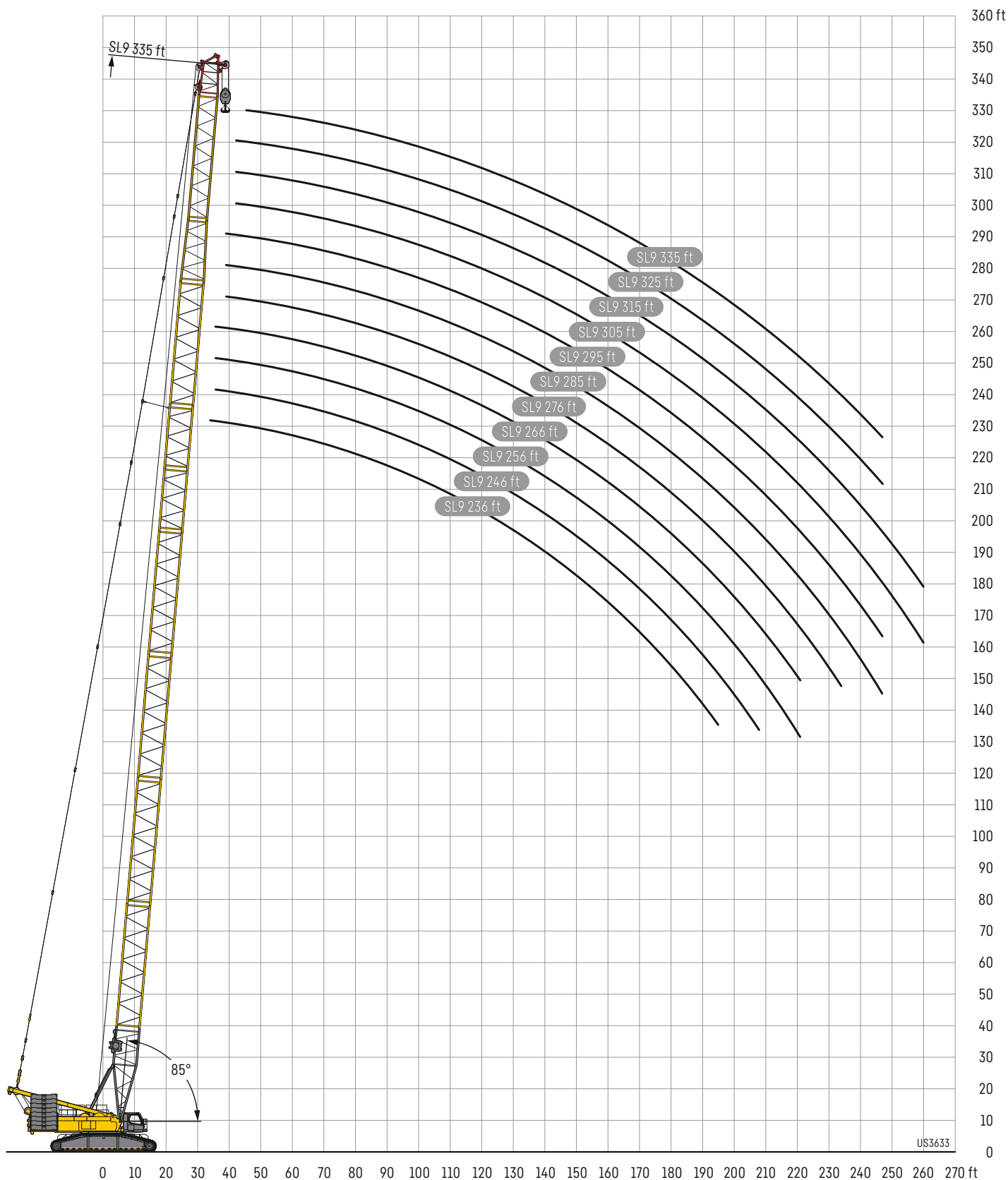


ft	SL9 236	SL9 246	SL9 256	SL9 266	SL9 276	SL9 285	SL9 295	SL9 305	SL9 315	SL9 325	SL9 335	ft
34	446	435										34
36	421	409	404	298								36
38	398	391	382	371	364	270						38
40	377	369	365	355	346	338	321					40
45	334	326	320	314	307	301	288	278	285	276	268	45
50	290	290	286	279	272	265	258	252	256	248	242	50
60	235	231	227	221	215	209	206	206	209	202	199	60
70	193	191	187	182	180	175	172	166	168	163	159	70
80	164	161	159	155	152	148	144	140	141	138	136	80
90	144	141	137	133	130	126	123	120	121	117	114	90
100	124	123	121	117	115	111	107	104	104	99.7	98.2	100
110	106	105	105	103	102	98.4	95.8	92.6	90.3	86.5	85.2	110
120	92.2	91	90.6	89.1	88.2	86.7	85.6	83.1	81.6	77.8	75	120
130	80.4	79.2	78.7	76.9	76.5	74.5	73.7	73	72.4	69.6	67.3	130
140	70.5	69	68.7	67.1	66.2	64.7	64.1	63	62.8	60.1	59.2	140
150	62.3	60.9	60.2	58.3	57.8	56.1	55.4	54.3	54.4	52	50.7	150
160	54.7	53.5	53.2	51.1	50.4	48.6	48	46.7	46.7	44.3	43.4	160
170	48.5	47.1	46.6	44.8	44.3	42.2	41.6	40.3	40.1	38	36.6	170
180	42.9	41.3	41	39	38.6	36.8	36	34.7	34.5	32.1	30.8	180
190	37.9	36.5	36	34.2	33.5	31.6	31.1	29.6	29.5	26.9	25.8	190
200	33.7	32.1	31.6	29.7	29	27.4	26.6	24.8	24.9	22.9	21.5	200
220			24.2	22.4	21.5	19.8	19	17.6	17.4	15.8	15	220
240					15.6	13.7	12.9	11.5	11.5	9.7	9	240
260								6.4	6.3			260

Lifting heights

Hauteurs de levage

SL9



US3633

Description of symbols

Explication des symboles



Max. capacity
Capacité max.



Load
Forces de levage



Max. boom length
Longueur maxi. de la fleche principale



Hookblock/Capacity
Moufle à crochet/Capacité de charge



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



Weight
Poids



Counterweight
Contrepoids



No. of lines
Brins



Central ballast
Contrepoids central



No. of sheaves
Poulies



Width crawler chassis
Largeur du train de chenilles



Radius
Portée



Hoist gear
Treuil de levage



Main boom, heavy
Flèche principale, lourde



Working speeds
Vitesses



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



Max. single line pull
Effort au brin maxi.



Derrick system D
Système derrick D



Rope diameter
Diamètre



Luffin fly jib, heavy
Fléchette, lourde



Rope length
Longueur du câble



Fixed lattice jib F
Fléchette a treillis fixe F



Slewing speeds
Vitesses d'orientation



Counterweight frame B/ Counterweight trailer M-Wagon
Palette de lest B / Remorque à contrepoids M-Wagon



Driving speed
Vitesse de translation

Remarks

1. The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 29 ft/s (9 m/s, 20.1 miles/hour) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4. Lifting capacities are given in kip.
5. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6. The working radii are measured from the slewing centerline.
7. The subsoil must be even and of good bearing capacity.
8. Subject to modification of lifting capacities.
9. The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane can be found in the operation manual and the load chart book.
10. The illustrations in this brochure may feature accessories and special equipment not included in the standard scope of delivery.

Remarques

1. La capacité de charge ne doit pas dépasser 75 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.
2. Une vitesse de vent de 29 ft/s (9 m/s, 20.1 miles/hour) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4. Les charges sont indiquées en kip.
5. Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.
6. Les portées sont prises à partir de l'axe de rotation de la partie tournante.
7. Le sol doit être plat et résistant.
8. Charges données sous réserve de modification.
9. Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.
10. Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.

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Planning

Crane Finder



Operations

Performance



Planning

Crane Planner 2.0



Operations

Documents



Maintenance

Spare Parts Catalogue



Planning

LICCON Work Planner



Training

Digital Crane Operator



Maintenance

Parts Shop

Proposition 65



WARNING: This product can expose you to chemicals, including exhaust emissions, including lead and lead compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm.
For more information see: www.P65warnings.ca.gov/diesel

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Printed in Germany (4)
lwe-tq-252-03-us10-2023