

Crawler Crane / Grue sur chenilles **LR 1500**

LR 1500



LIEBHERR

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Equipment

Equipement

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 5 ft and quadruple drive (double drive optional).
Central ballast	Total central ballast 88,200 lb. 2 x 11,025 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 350 kW (476 h.p.), max. torque 1,836 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 11,025 lb each. Total counterweight at superstructure 374,800 lb. 16 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 55100 lb	To be mounted on the S and L-boom head.

Additional equipment

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

Other items of equipment available on request.

Standard equipment and options according to effective price list.

Equipment

Equipement

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 5 ft et un entraînement à 4 positions (2 positions en option).
Contrepoids central	Contrepoids central total 88,200 lb. 2 x 11,025 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 350 kW (476 ch), couple max. 1,836 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 grues sont commandés par deux manipulateurs à 4 voies et deux pédale/levier à 2 voies. Tous les mouvements de travail peuvent être commandés indépendamment.
Dispositifs de sécurité	Interrupteur de fin de course. Clapets de sécurité contre les ruptures de tuyaux et de flexibles. Coupure de fin de course du tambour avec 3 enroulements de sécurité. Anémomètre de sécurité. Inclinomètre électronique. Balise aérienne.
Contrôle vidéo	2 écrans couleur, 3 caméras pour la zone de treuils et la partie arrière.
Contrepoids	2 consoles de 11,025 lb chacune. Contrepoids total 374,800 lb. 16 plaques de lest à 22,050 lb (option).

Système de flèche

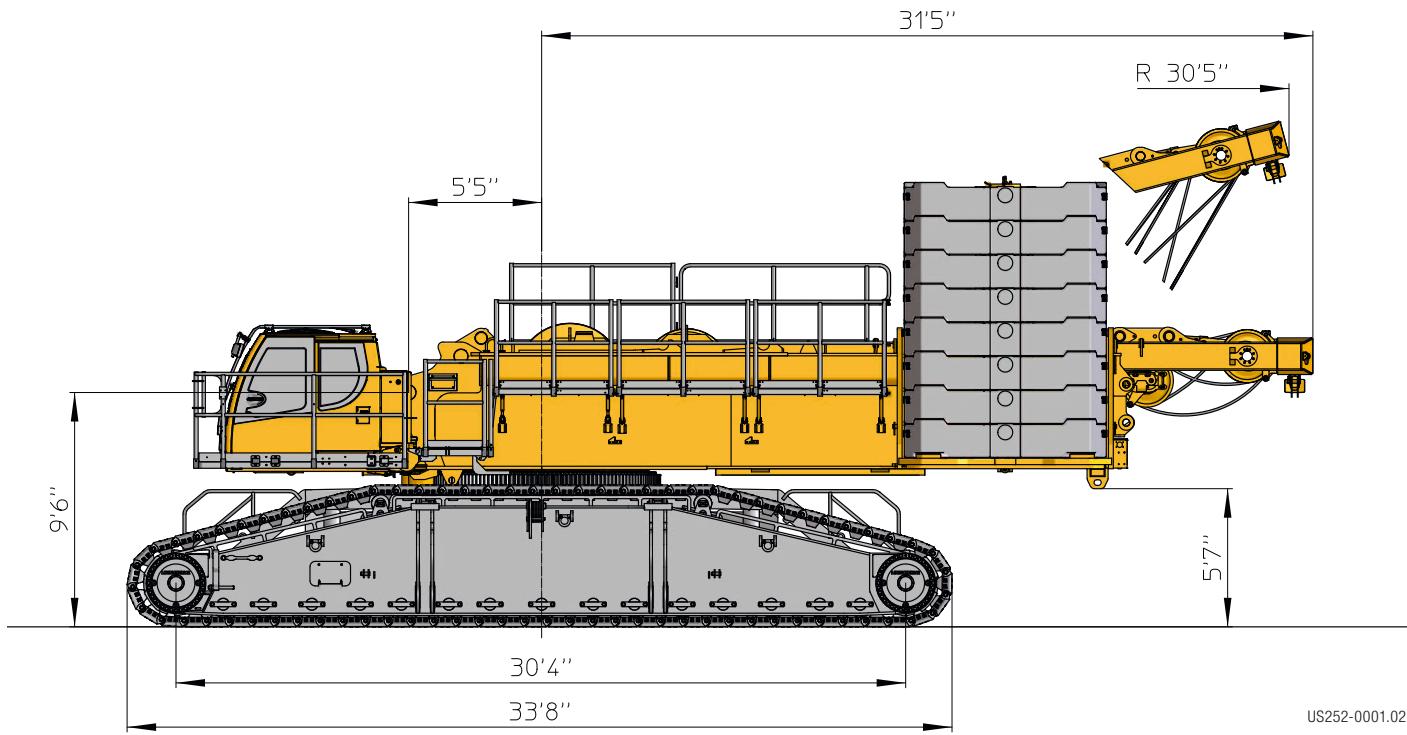
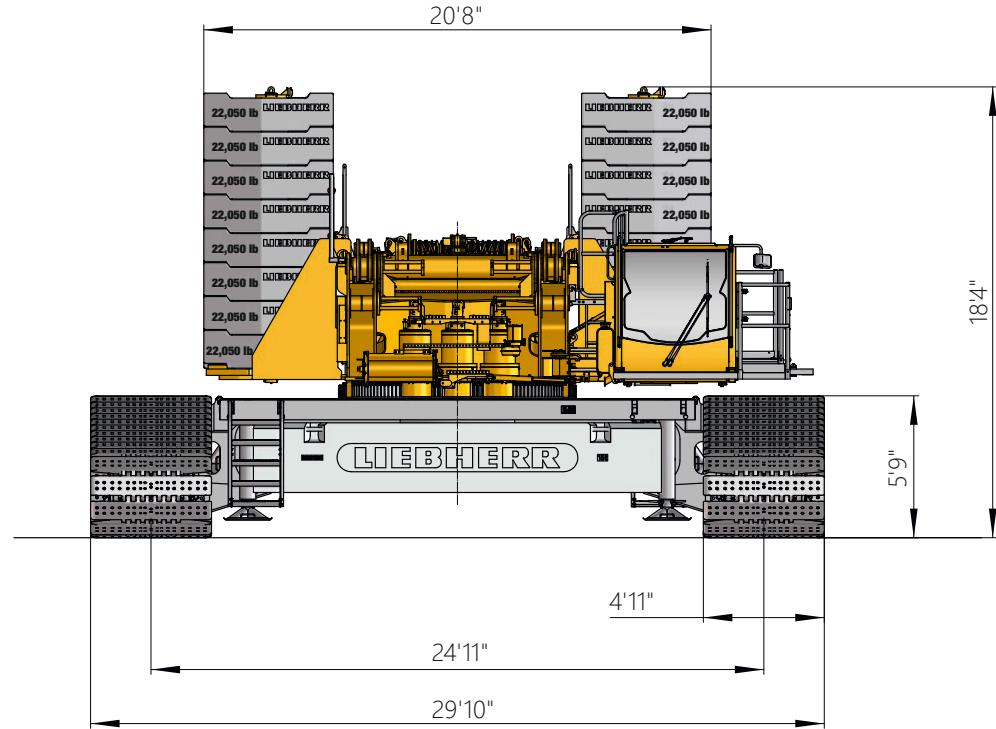
Flèche principale S	Système 2822 avec élément de tête pour une capacité de charge max. de 882,000 lb. Longueur de flèche S 79 ft – S 315 ft. Longueur de flèche SDB 118 ft – SDB 374 ft avec système derrick.
Fléchette treillis à volée variable W	Système 2418 avec élément de tête pour une capacité max. 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 55100 lb	Elle sert au montage au niveau de la tête S et L.

Equipement additionnel

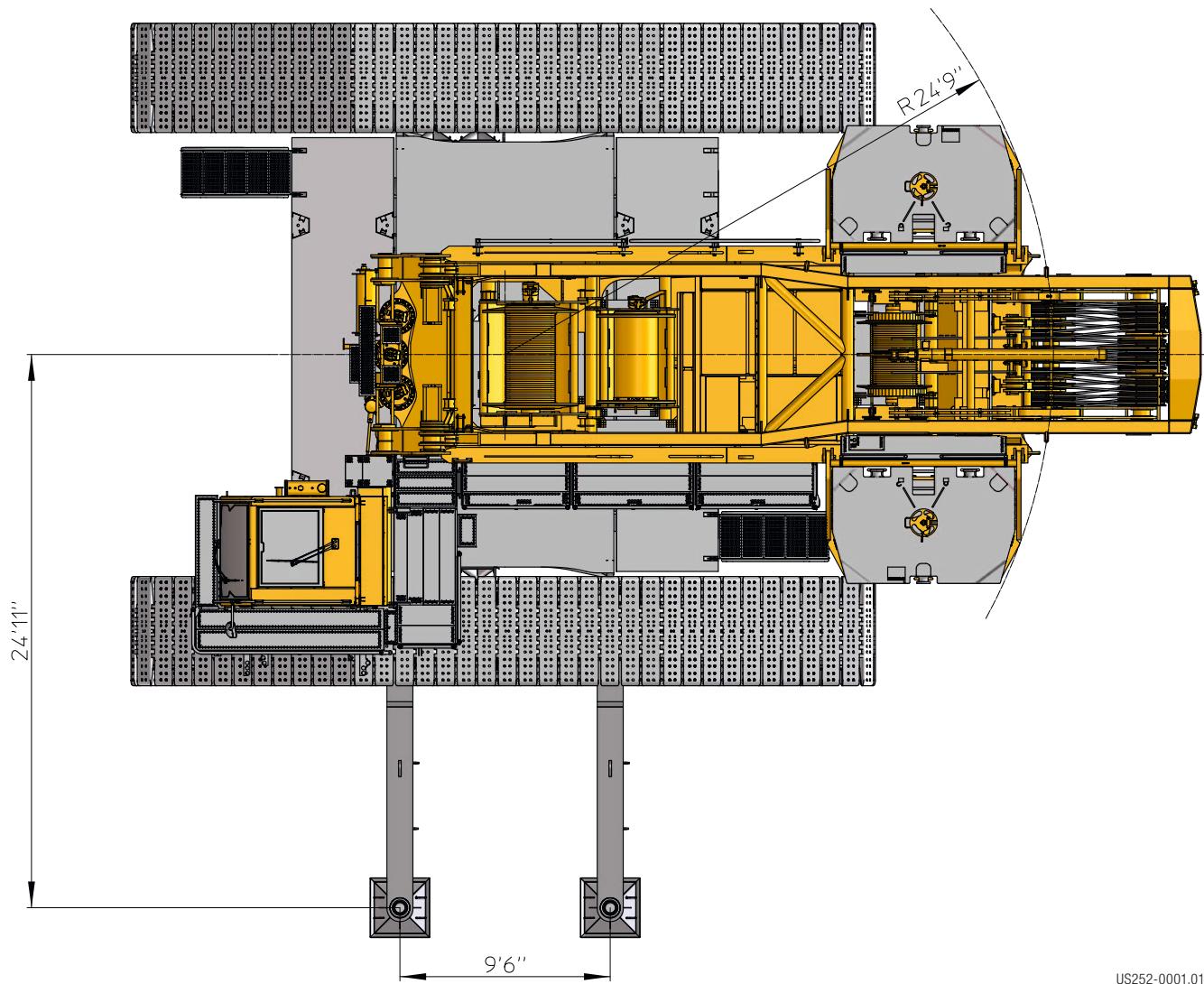
Stabilisateur additionnel	Il sert au relevage de longues combinaisons de flèche sans contrepoids derrick.
Stabilisateurs hydrauliques de montage	Ils soulèvent l'engin de base pour le montage/démontage. Ils sont constitués de 4 vérins de calage dont les patins de calage montés sur l'élément central.
Vérin hydraulique de montage	Pour le montage autonome/démontage du train de chenilles.
Dispositif d'extraction des axes	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.
Les équipements de série et les options correspondent à la liste de prix actuelle.

Dimensions Encombrement

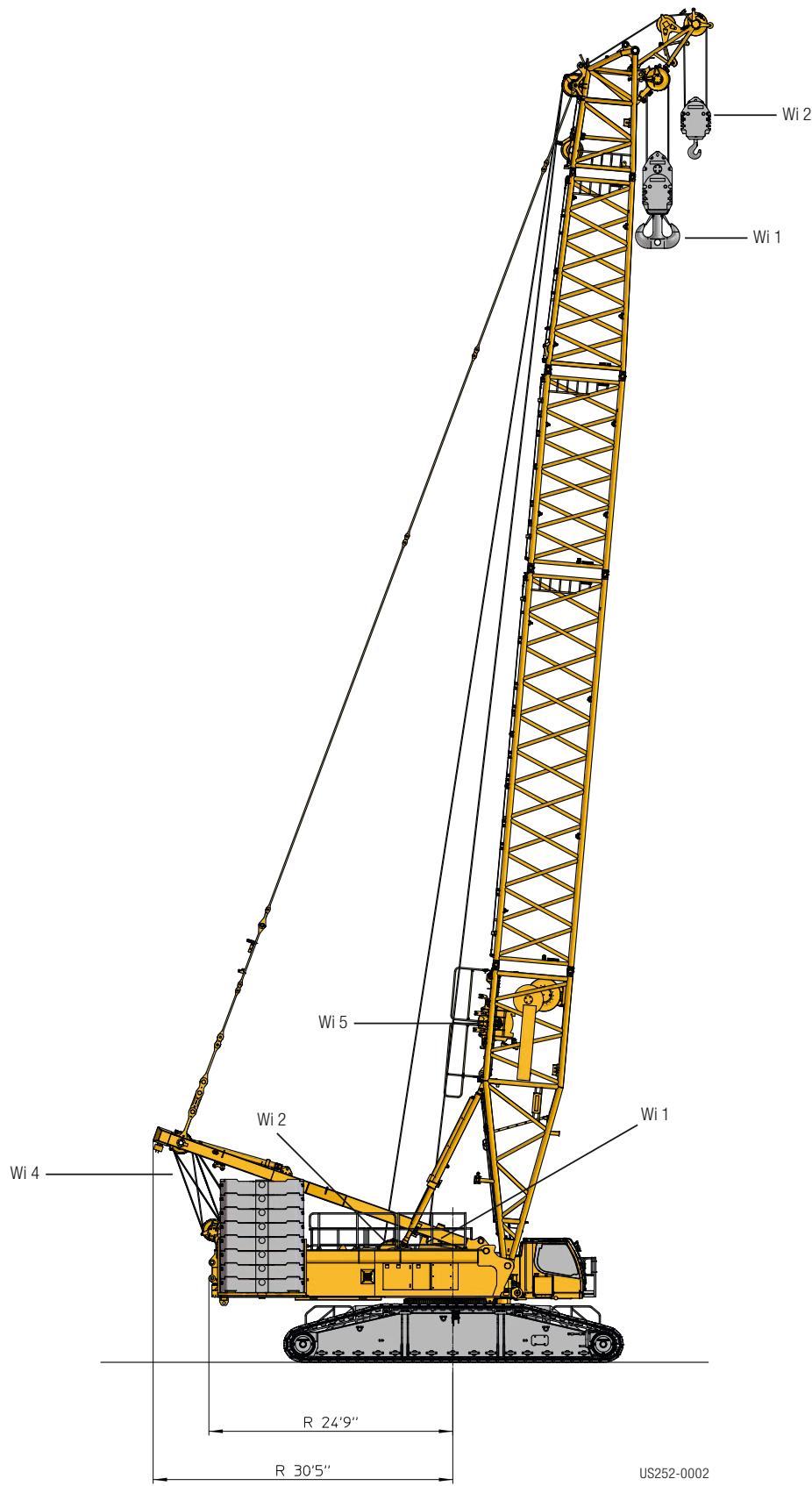


Dimensions Encombrement

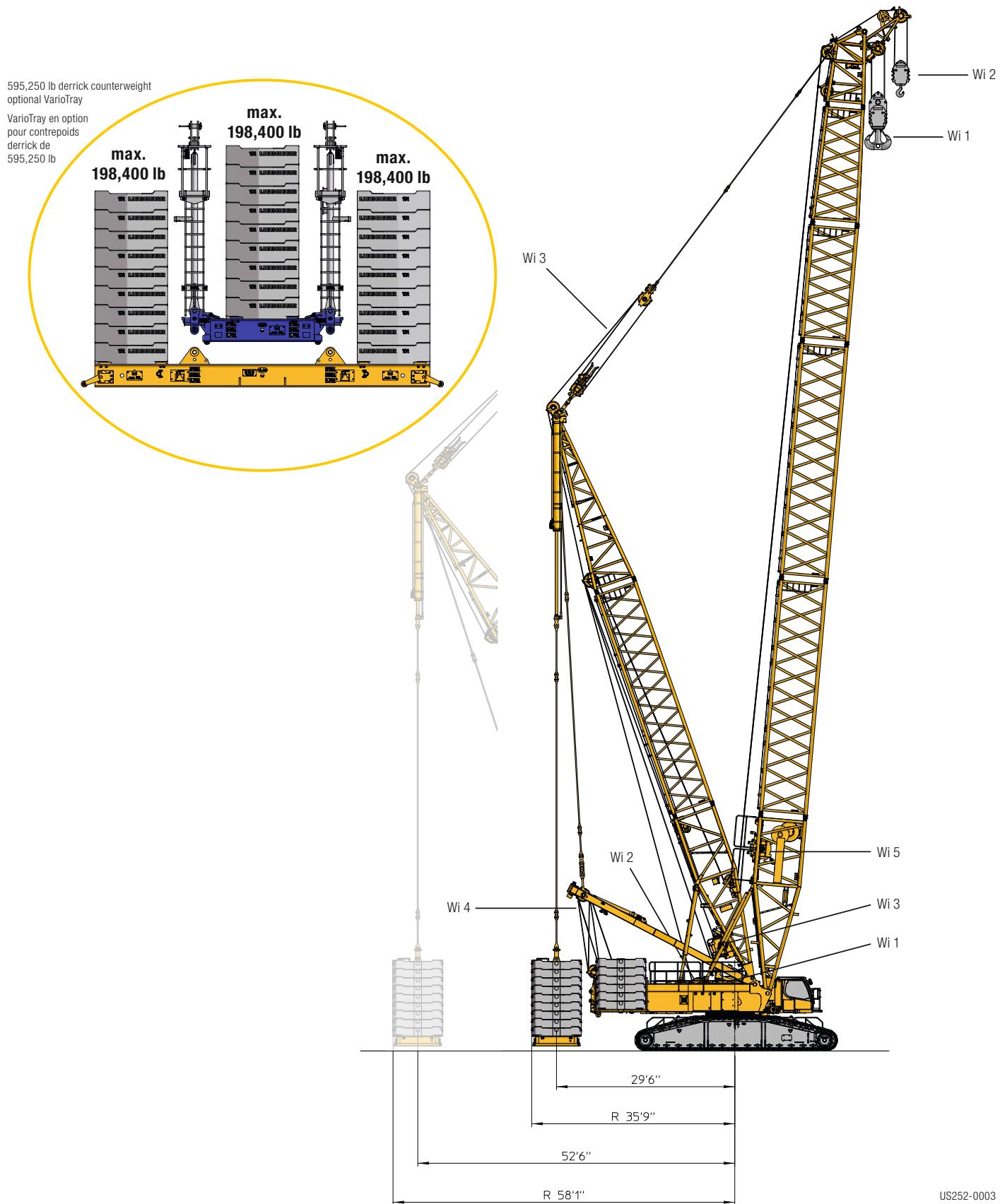


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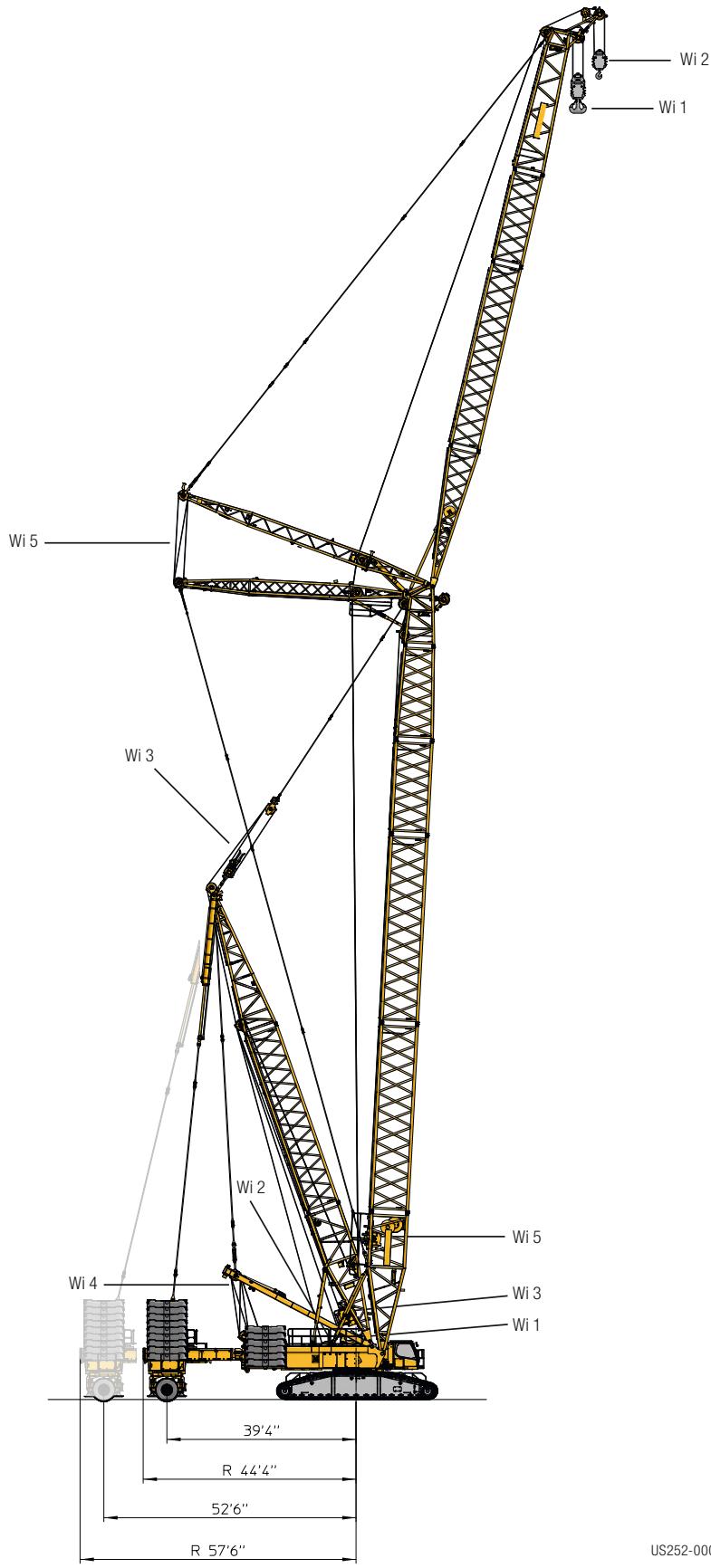
Dimensions Encombrement



Dimensions Encombrement



Dimensions Encombrement



US252-0004

Crane data

Dates de la grue

Winches/Treuils

	V _{ft/min}			
1	0 – 482 ft/min	40,500 lb	1.1"	4,100 ft
2	0 – 410 ft/min	28,100 lb	0.98"	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/Moufles à crochet

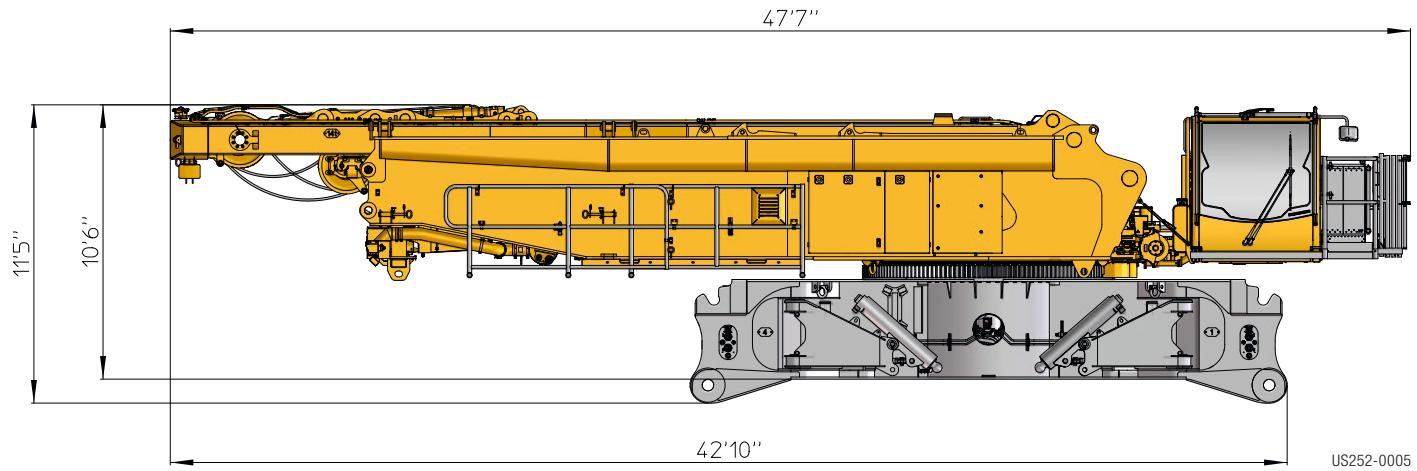
					
948,000 lb	1,102,300 lb	1.1"	13	27	12,125 – 25,350 lb
694,450 lb	705,500 lb	1.1"	9	19	9,920 – 18,740 lb
551,200 lb	551,200 lb	1.1"	7	15	8,820 – 15,430 lb
418,880 lb	440,920 lb	1.1"	5	11	4,410 – 15,430 lb
264,550 lb	275,600 lb	1.1"	3	7	3,305 – 12,125 lb
110,230 lb	138,900 lb	1.1"	1	3	2,205 – 6,615 lb
39,680 lb	40,090 lb	1.1"	–	1	2,425 lb

Transportation plan

Plan de transport

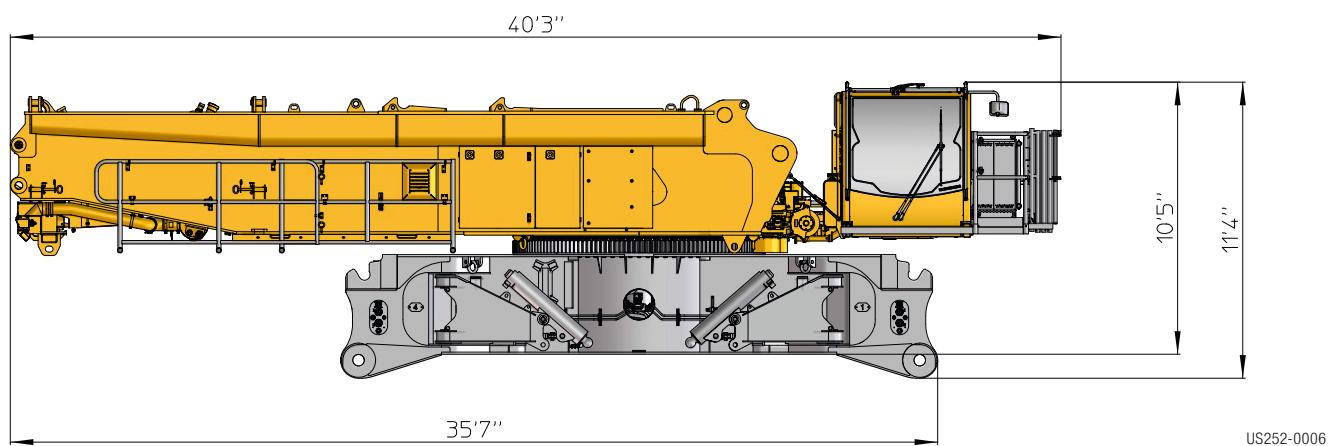
Superstructure and crawler center section with SA-frame, winch 4, with assembly jacks
Partie tournante et partie centrale du porteur avec chevalet SA, treuil 4, avec vérins de montage

129,650 lb



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

103,000 lb *



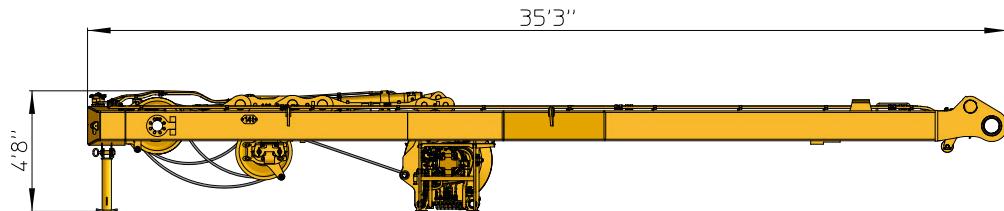
* Option Quick Connection 44,100 lb + 71,650 lb

Transportation plan

Plan de transport

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

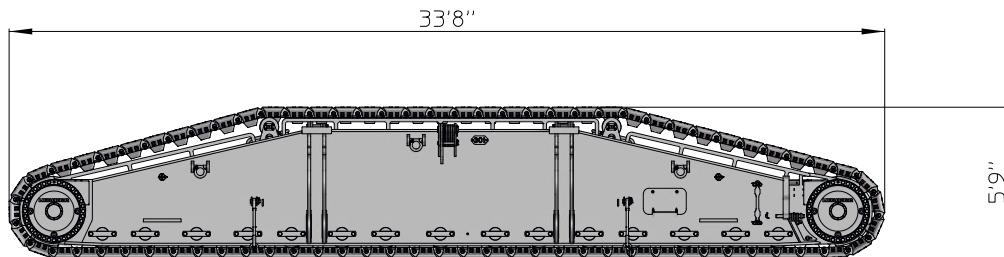
26,675 lb



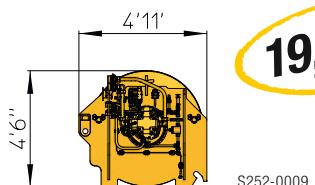
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Crawler with track pads 4.9 ft
Chenille avec pains de chenille de 4.9 ft

2 x 66,150 lb

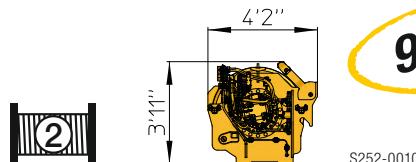


US252-0008



S252-0009

19,200 lb



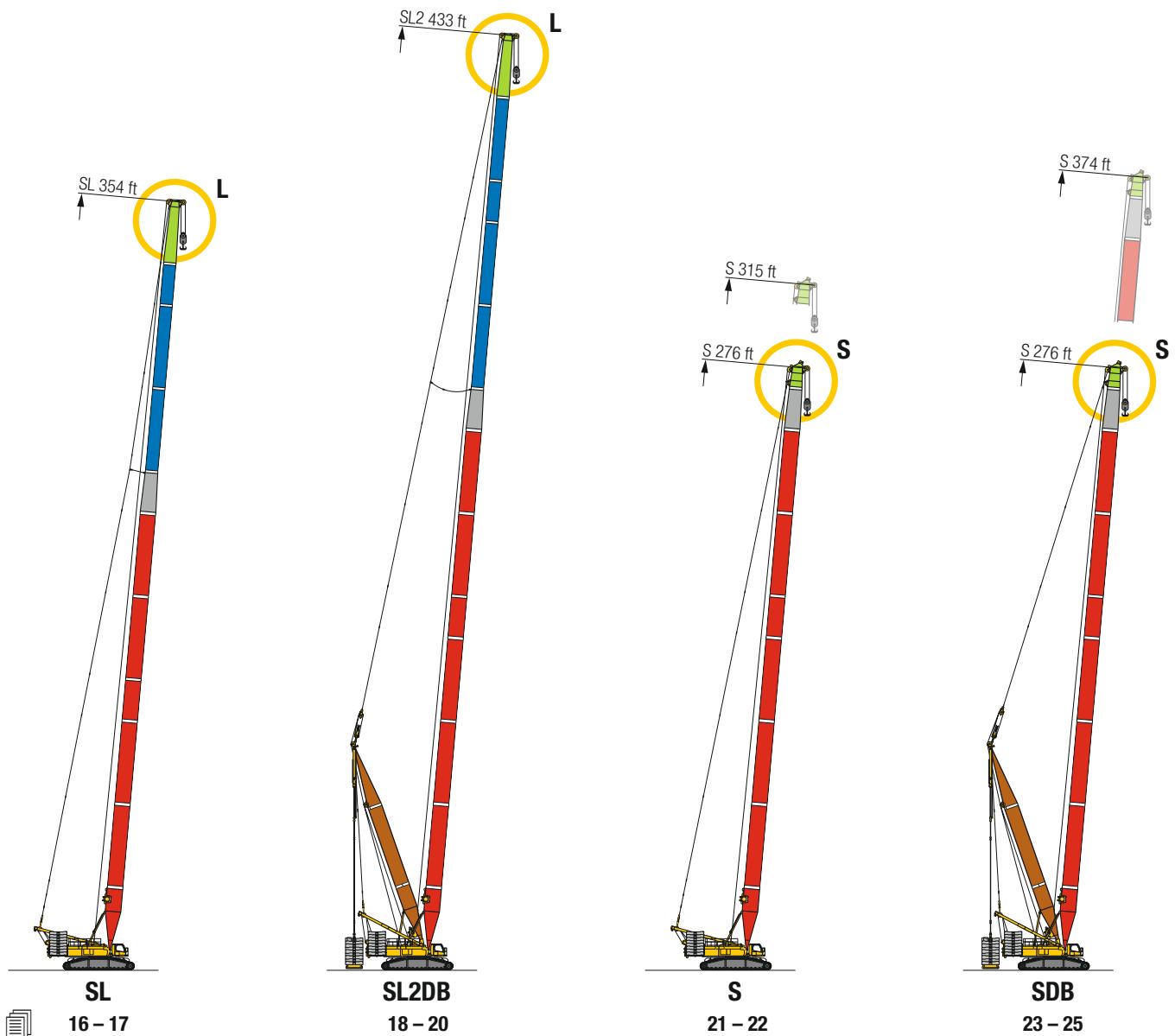
S252-0010

9,480 lb

Boom/jib combinations Configurations de flèche

S Main boom, heavy · Flèche principale, lourde

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



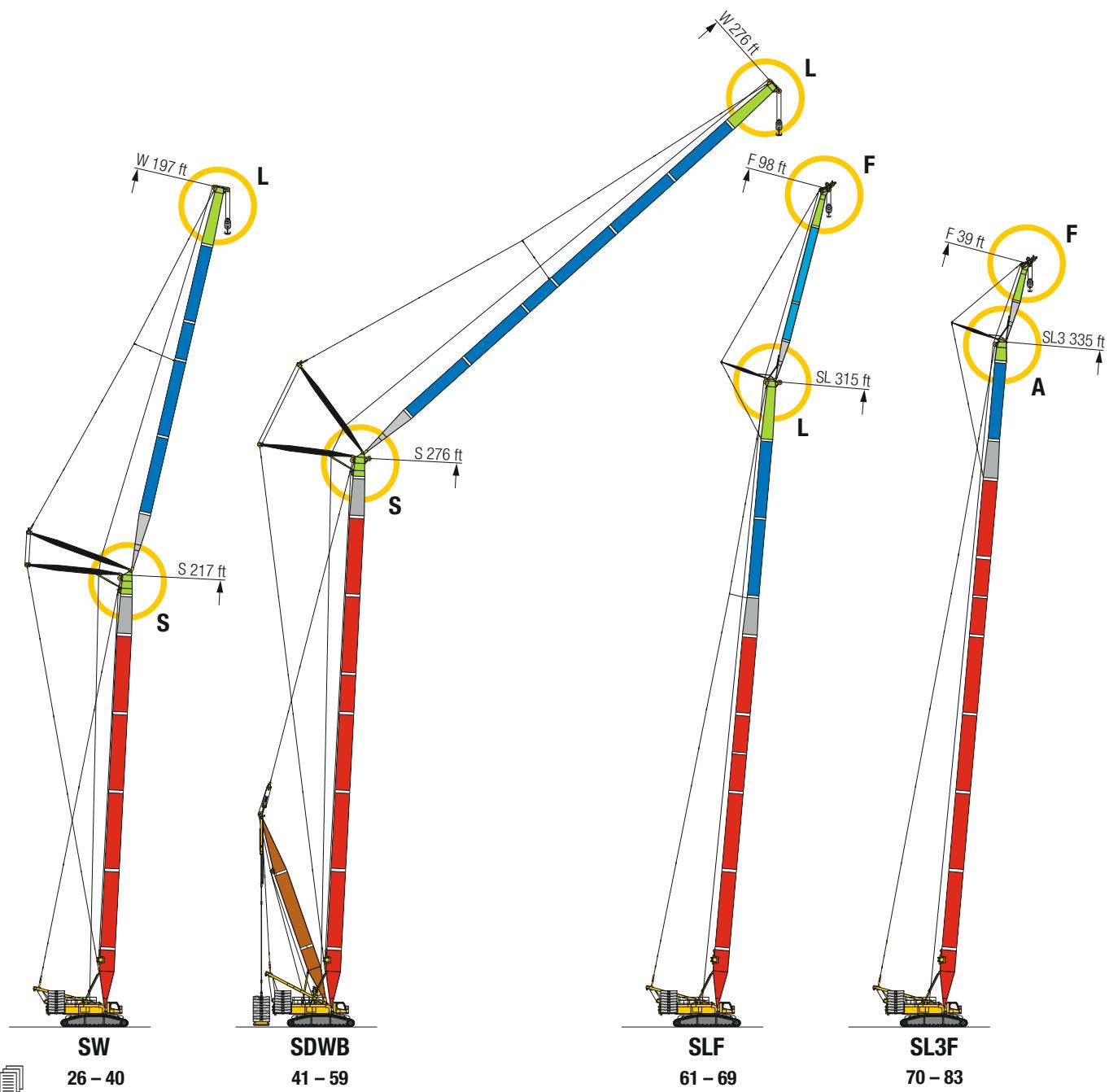
Boom/jib combinations Configurations de flèche

W Luffing jib, heavy · Fléchette, lourde

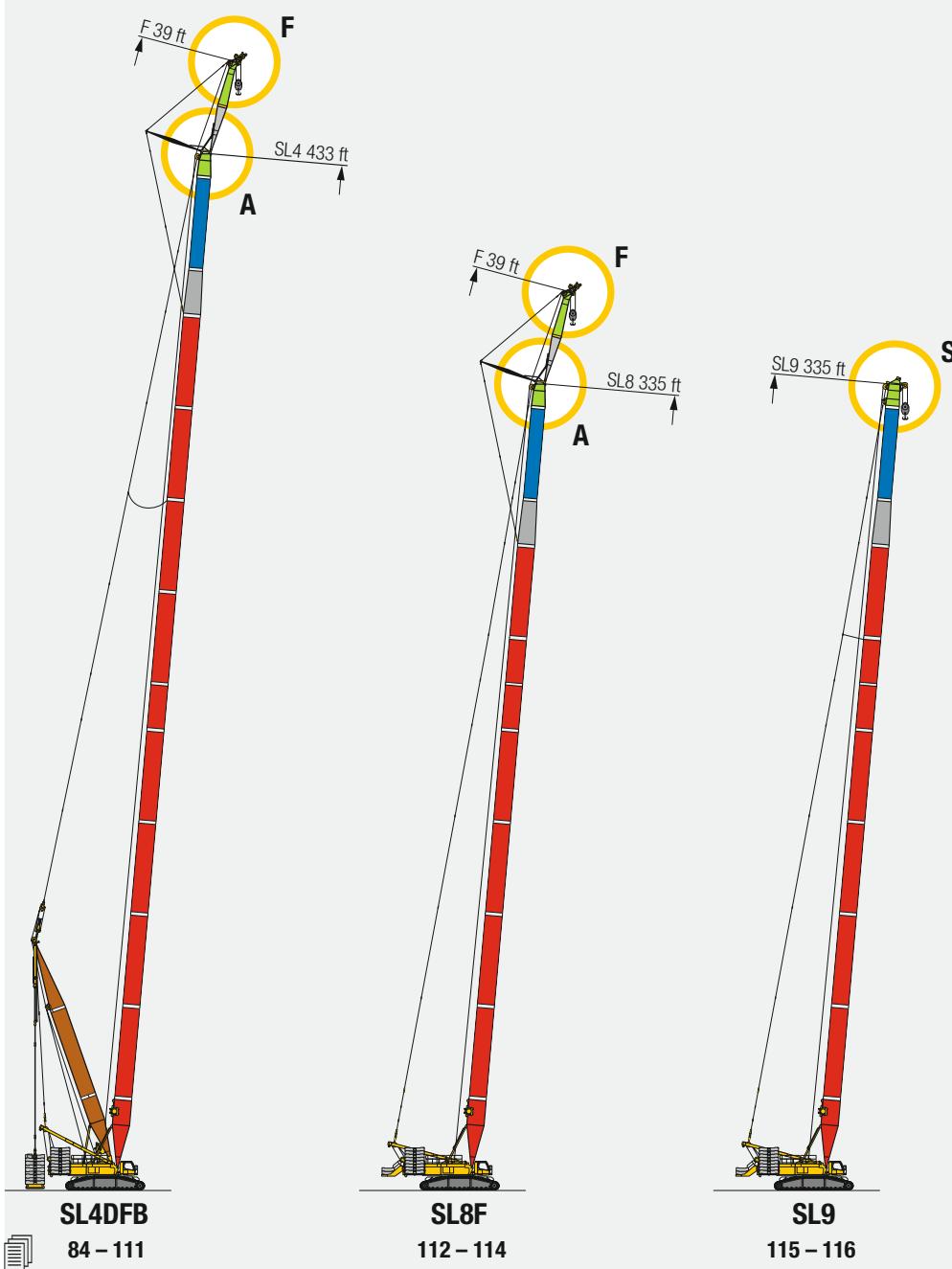
D Derrick · Flèche derrick

B Suspended ballast · Lest suspendu

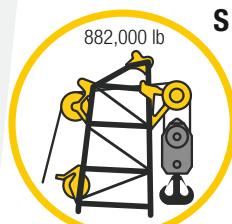
F Lattice fly jib · Fléchette treillis fixe



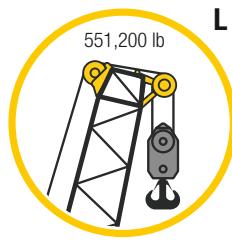
Boom/jib combinations Configurations de flèche



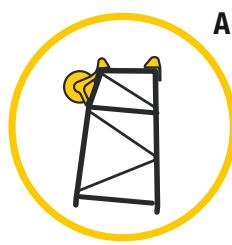
F-Head section
F-Tête de flèche



S-Head section
S-Tête de flèche

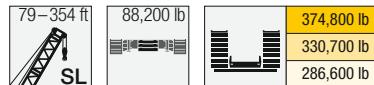


L-Head section
L-Tête de flèche



F-adaptor head
F-Tête de flèche

US2988.04



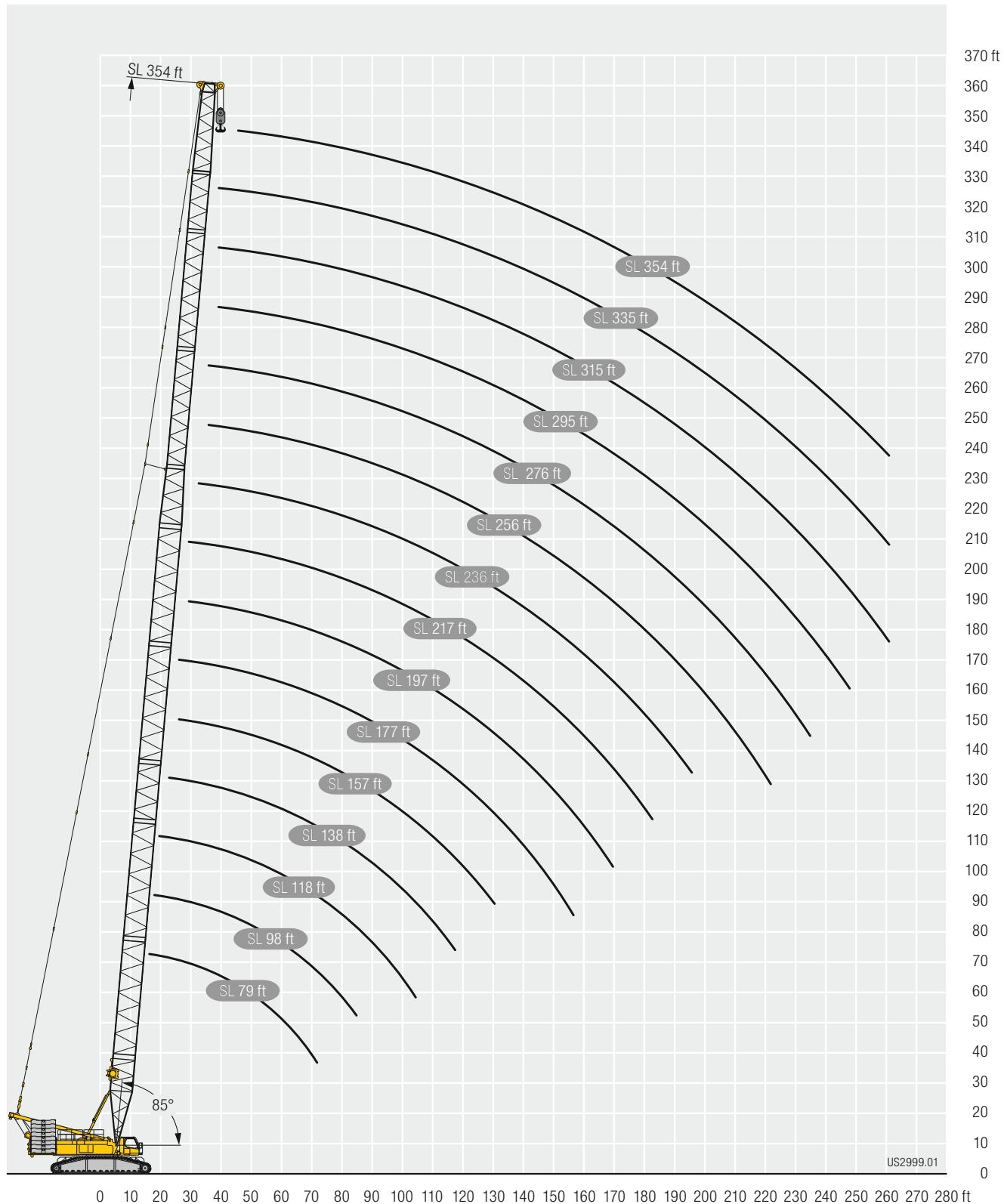
ft	SL 79 - 354																	
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft			
16	551														16			
17	551														17			
18	551	551													18			
19	551	551													19			
20	551	551	551												20			
22	551	551	551	551.0											22			
24	551	551	551	551.0	551.0										24			
26	551	551	551	551.0	551.0	551.0									26			
28	551	551	551	551.0	551.0	549.0	489.0								28			
30	551	551	547	551.0	547.0	525.0	498.0	415.0							30			
32	551	544	549	542.0	514.0	490.0	467.0	402.0	369.0						32			
34	541	549	533	506.0	480.0	459.0	438.0	389.0	358.0	315.0					34			
36	505	524	498	473.0	451.0	432.0	412.0	376.0	346.0	304.0	321.0				36			
38	505	491	467	445.0	424.0	407.0	389.0	363.0	334.0	293.0	316.0	274.0			38			
40	476	461	439	419.0	401.0	384.0	368.0	352.0	322.0	282.0	310.0	270.0	240.0		40			
45	402	399	383	366.0	351.0	338.0	325.0	315.0	293.0	257.0	281.0	261.0	234.0	209.0	184.0	45		
50	344	343	338	324.0	311.0	301.0	289.0	281.0	266.0	235.0	252.0	243.0	227.0	204.0	180.0	50		
55	302	300	297	291.0	279.0	270.0	260.0	253.0	241.0	215.0	227.0	220.0	212.0	197.0	176.0	55		
60	267	265	263	260.0	252.0	245.0	236.0	230.0	219.0	196.0	207.0	200.0	193.0	186.0	171.0	60		
65	239	238	235	232.0	229.0	223.0	215.0	210.0	200.0	180.0	189.0	183.0	177.0	171.0	165.0	65		
70	216	214	212	210.0	207.0	205.0	197.0	193.0	183.0	165.0	174.0	168.0	162.0	158.0	153.0	70		
75		195	194	191.0	188.0	186.0	182.0	178.0	171.0	151.0	160.0	155.0	150.0	145.0	141.0	75		
80		179	177	174.0	172.0	170.0	167.0	165.0	160.0	142.0	148.0	144.0	138.0	134.0	131.0	80		
85		165	163	161.0	157.0	156.0	153.0	153.0	149.0	134.0	137.0	133.0	128.0	124.0	121.0	85		
90		153	151	149.0	145.0	144.0	141.0	140.0	138.0	127.0	128.0	124.0	119.0	115.0	112.0	90		
95			140	137.0	135.0	133.0	130.0	130.0	128.0	121.0	119.0	116.0	111.0	107.0	105.0	95		
100				131	128.0	125.0	124.0	121.0	121.0	119.0	115.0	112.0	108.0	104.0	100.0	97.4	100	
105				122	120.0	117.0	116.0	113.0	112.0	110.0	107.0	104.0	101.0	96.9	93.6	91.0	105	
110					112.0	109.0	108.0	105.0	105.0	103.0	100.0	96.7	94.5	90.7	87.5	85.0	110	
115					105.0	102.0	101.0	98.3	97.9	95.9	93.2	90.0	88.1	85.0	81.9	79.5	115	
120					99.2	96.2	95.1	92.1	91.8	89.6	87.0	83.8	81.8	79.4	76.7	74.4	120	
125						90.6	89.4	86.5	86.1	84.1	81.5	78.3	76.4	73.8	71.8	69.7	125	
130						85.5	84.3	81.4	81.0	79.0	76.3	73.1	71.2	68.8	66.9	65.2	130	
135						80.8	79.6	76.7	76.3	74.2	71.7	68.5	66.7	64.1	62.1	60.9	135	
140						76.6	75.3	72.4	72.0	69.9	67.4	64.2	62.3	59.9	58.0	56.5	140	
145							71.4	68.4	68.0	65.9	63.3	60.2	58.3	55.9	53.9	52.7	145	
150								67.8	64.7	64.3	62.2	59.6	56.5	54.7	52.2	50.4	49.0	150
155								64.5	61.4	60.9	58.7	56.2	53.0	51.2	48.7	46.9	45.6	155
160									58.3	57.7	55.5	53.0	49.9	48.0	45.6	43.8	42.5	160
165									55.4	54.7	52.6	50.0	46.9	45.0	42.6	40.7	39.4	165
170									52.7	52.0	49.8	47.2	44.1	42.3	39.8	38.0	36.7	170
175										49.4	47.2	44.6	41.5	39.6	37.1	35.4	34.0	175
180										47.0	44.7	42.1	39.0	37.2	34.7	32.9	31.7	180
185										44.7	42.4	39.8	36.7	34.9	32.4	30.6	29.3	185
190										42.7	40.3	37.6	34.6	32.6	30.3	28.5	27.2	190
195											38.3	35.6	32.5	30.6	28.2	26.3	25.1	195
200											36.4	33.7	30.6	28.7	26.2	24.4	23.2	200
205											34.6	31.9	28.8	26.8	24.4	22.6	21.5	205
210												30.1	27.1	25.1	22.6	21.1	20.0	210
215												28.5	25.4	23.5	21.2	19.6	18.6	215
220												27.0	23.9	22.0	19.9	18.3	17.2	220
225													22.4	20.7	18.6	17.0	15.9	225
230													21.2	19.5	17.4	15.8	14.7	230
235													20.1	18.4	16.3	14.7	13.6	235
240													19.1	17.4	15.2	13.6	12.5	240
245													16.3	14.2	12.6	11.4	10.4	245
250													15.1	13.2	11.5	10.4	9.4	250
255													14.0	12.2	10.5	9.4	8.3	255
260														11.1	9.4	8.3	260	
265														10.0	8.3	7.2	265	
270														9.0	7.3	6.1	270	
275														6.3			275	

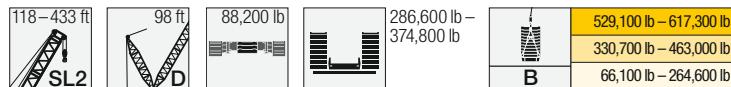
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Lifting heights

Hauteurs de levage

SL





SL2 118 - 433																	
	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft	394 ft	413 ft	433 ft
22	-	551															
	B	551															
24	-	551	551.0														
	B	551	551.0														
26	-	551	551.0	551.0													
	B	551	551.0	551.0													
28	-	551	551.0	551.0	530.0												
	B	551	551.0	551.0	551.0												
30	-	550	544.0	519.0	493.0	467.0											
	B	551	551.0	551.0	551.0	551.0											
32	-	538	508.0	483.0	459.0	447.0	415.0										
	B	551	551.0	551.0	551.0	551.0	551.0										
34	-	500	474.0	461.0	439.0	419.0	401.0	431.0									
	B	551	551.0	551.0	551.0	551.0	551.0	551.0									
36	-	467	453.0	432.0	413.0	394.0	377.0	414.0	347.0								
	B	551	551.0	551.0	551.0	551.0	551.0	551.0	503.0								
38	-	447	425.0	407.0	389.0	373.0	357.0	391.0	373.0	316.0							
	B	551	551.0	551.0	551.0	551.0	551.0	551.0	501.0	442.0							
40	-	421	401.0	384.0	368.0	352.0	337.0	372.0	359.0	342.0	291.0						
	B	551	551.0	551.0	551.0	551.0	551.0	551.0	502.0	441.0	369.0						
45	-	366	350.0	336.0	323.0	310.0	297.0	334.0	323.0	308.0	299.0	294.0	268.0				
	B	551	551.0	551.0	551.0	551.0	551.0	551.0	499.0	440.0	369.0	326.0	288.0				
50	-	323	309.0	298.0	286.0	275.0	265.0	305.0	290.0	281.0	273.0	265.0	256.0	245.0	213.0	191.0	
	B	551	551.0	551.0	549.0	551.0	551.0	551.0	498.0	436.0	368.0	325.0	287.0	253.0	223.0	193.0	
55	-	285	277.0	266.0	257.0	247.0	238.0	275.0	268.0	260.0	253.0	240.0	238.0	225.0	217.0	192.0	165.0
	B	551	551.0	551.0	549.0	548.0	551.0	551.0	491.0	433.0	363.0	323.0	286.0	252.0	222.0	192.0	165.0
60	-	252	248.0	241.0	232.0	223.0	215.0	250.0	244.0	236.0	231.0	224.0	217.0	210.0	204.0	191.0	163.0
	B	551	551.0	549.0	546.0	548.0	548.0	549.0	490.0	426.0	358.0	321.0	284.0	250.0	221.0	191.0	163.0
65	-	225	222.0	218.0	211.0	203.0	196.0	228.0	223.0	216.0	212.0	205.0	199.0	193.0	188.0	183.0	162.0
	B	541	551.0	548.0	546.0	547.0	548.0	546.0	481.0	423.0	353.0	317.0	281.0	249.0	220.0	190.0	162.0
70	-	203	200.0	198.0	193.0	186.0	179.0	209.0	205.0	199.0	195.0	189.0	183.0	177.0	173.0	168.0	160.0
	B	524	547.0	548.0	546.0	546.0	540.0	546.0	477.0	414.0	348.0	315.0	279.0	247.0	219.0	188.0	162.0
75	-	185	182.0	179.0	176.0	171.0	165.0	193.0	189.0	183.0	180.0	174.0	170.0	164.0	159.0	156.0	151.0
	B	508	533.0	540.0	543.0	534.0	529.0	532.0	477.0	409.0	339.0	311.0	276.0	244.0	217.0	186.0	161.0
80	-	169	166.0	163.0	161.0	157.0	152.0	178.0	175.0	170.0	167.0	161.0	157.0	152.0	148.0	144.0	140.0
	B	498	515.0	516.0	511.0	506.0	503.0	505.0	463.0	402.0	339.0	306.0	273.0	242.0	215.0	184.0	160.0
85	-	155	152.0	150.0	147.0	144.0	141.0	166.0	163.0	158.0	155.0	150.0	146.0	141.0	137.0	134.0	130.0
	B	471	488.0	485.0	482.0	478.0	474.0	478.0	459.0	389.0	339.0	304.0	270.0	239.0	213.0	183.0	158.0
90	-	144	140.0	138.0	136.0	133.0	129.0	154.0	151.0	147.0	144.0	140.0	136.0	131.0	128.0	125.0	121.0
	B	435	460.0	457.0	454.0	450.0	446.0	452.0	445.0	389.0	332.0	300.0	267.0	236.0	210.0	182.0	156.0
95	-	133	130.0	128.0	125.0	122.0	119.0	143.0	141.0	137.0	135.0	131.0	127.0	122.0	119.0	116.0	112.0
	B	402	432.0	433.0	429.0	425.0	421.0	428.0	424.0	383.0	324.0	295.0	265.0	234.0	208.0	179.0	155.0
100	-	124	121.0	118.0	116.0	113.0	110.0	133.0	132.0	128.0	126.0	122.0	119.0	114.0	111.0	108.0	105.0
	B	372	403.0	410.0	406.0	403.0	399.0	406.0	403.0	373.0	315.0	294.0	259.0	233.0	206.0	178.0	153.0
105	-	116	113.0	110.0	108.0	105.0	102.0	123.0	123.0	120.0	118.0	114.0	111.0	107.0	104.0	101.0	97.9
	B	342	376.0	389.0	386.0	383.0	379.0	385.0	383.0	368.0	302.0	294.0	258.0	229.0	205.0	176.0	151.0
110	-	105.0	103.0	100.0	97.6	94.7	115.0	115.0	112.0	111.0	107.0	104.0	100.0	97.2	94.8	91.5	90.1
	B	353.0	368.0	368.0	364.0	361.0	366.0	364.0	357.0	288.0	288.0	257.0	226.0	202.0	174.0	149.0	126.0
115	-	98.9	96.3	93.7	90.9	88.1	107.0	107.0	105.0	104.0	101.0	97.8	94.0	91.1	88.8	85.6	84.3
	B	330.0	348.0	351.0	347.0	344.0	348.0	347.0	344.0	275.0	283.0	253.0	225.0	199.0	171.0	147.0	125.0
120	-	93.0	90.3	87.7	84.9	82.2	100.0	99.9	97.8	97.4	94.7	91.9	88.3	85.4	83.3	80.2	78.8
	B	309.0	328.0	334.0	332.0	328.0	330.0	330.0	328.0	266.0	276.0	248.0	221.0	197.0	168.0	145.0	124.0
125	-	84.8	82.2	79.4	76.7	73.9	93.9	93.6	91.6	91.3	88.7	86.4	82.9	80.1	78.1	75.1	73.7
	B	309.0	319.0	318.0	314.0	315.0	315.0	313.0	260.0	269.0	243.0	217.0	195.0	166.0	143.0	122.0	
130	-	79.9	77.2	74.4	71.6	88.1	87.7	85.6	85.3	83.1	81.1	77.9	75.3	73.3	70.3	68.9	
	B	292.0	304.0	304.0	301.0	301.0	300.0	298.0	253.0	259.0	238.0	216.0	192.0	165.0	142.0	120.0	
135	-	75.4	72.7	69.8	67.0	82.7	82.4	80.4	80.1	77.7	75.9	73.3	70.7	68.8	65.9	64.5	
	B	276.0	290.0	291.0	289.0	288.0	287.0	285.0	246.0	251.0	233.0	212.0	190.0	162.0	140.0	118.0	
140	-	71.3	68.5	65.6	62.9	77.8	77.5	75.4	75.1	72.9	71.2	68.6	66.5	64.6	61.8	60.4	
	B	260.0	276.0	280.0	277.0	276.0	275.0	273.0	238.0	247.0	230.0	207.0	187.0	159.0	138.0	116.0	
145	-	64.7	61.8	59.0	59.0	73.3	72.8	70.8	70.6	68.3	66.5	64.3	62.4	60.7	57.9	56.6	
	B	263.0	268.0	266.0	265.0	264.0	261.0	230.0	244.0	226.0	201.0	183.0	156.0	136.0	114.0		
150	-	61.1	58.2	55.4	69.0	68.7	66.6	66.4	64.1	62.5	60.1	58.3	57.0	54.2	52.9		
	B	249.0	257.0	256.0	254.0	254.0	251.0	224.0	239.0	218.0	198.0	179.0	153.0	133.0	111.0		
155	-	57.9	54.9	52.0	65.1	64.8	62.6	62.4	60.1	58.4	56.2	54.6	53.2	50.9	49.6		
	B	235.0	246.0	246.0	244.0	244.0	241.0	221.0	234.0	212.0	195.0	177.0	149.0	131.0	110.0		
160	-	51.8	48.9	61.4	61.1	59.1	58.8	56.5	54.9	52.6	50.9	50.9	49.8	47.6	46.5		
	B	235.0	237.0	235.0	235.0	232.0	218.0	228.0	209.0	191.0	175.0	147.0	130.0	109.0			
165	-	49.0	46.1	58.1	57.7	55.6	55.3	53.1	51.4	49.1	47.6	46.4	44.4	43.5			
	B	223.0	228.0	226.0	226.0	224.0	215.0	221.0									

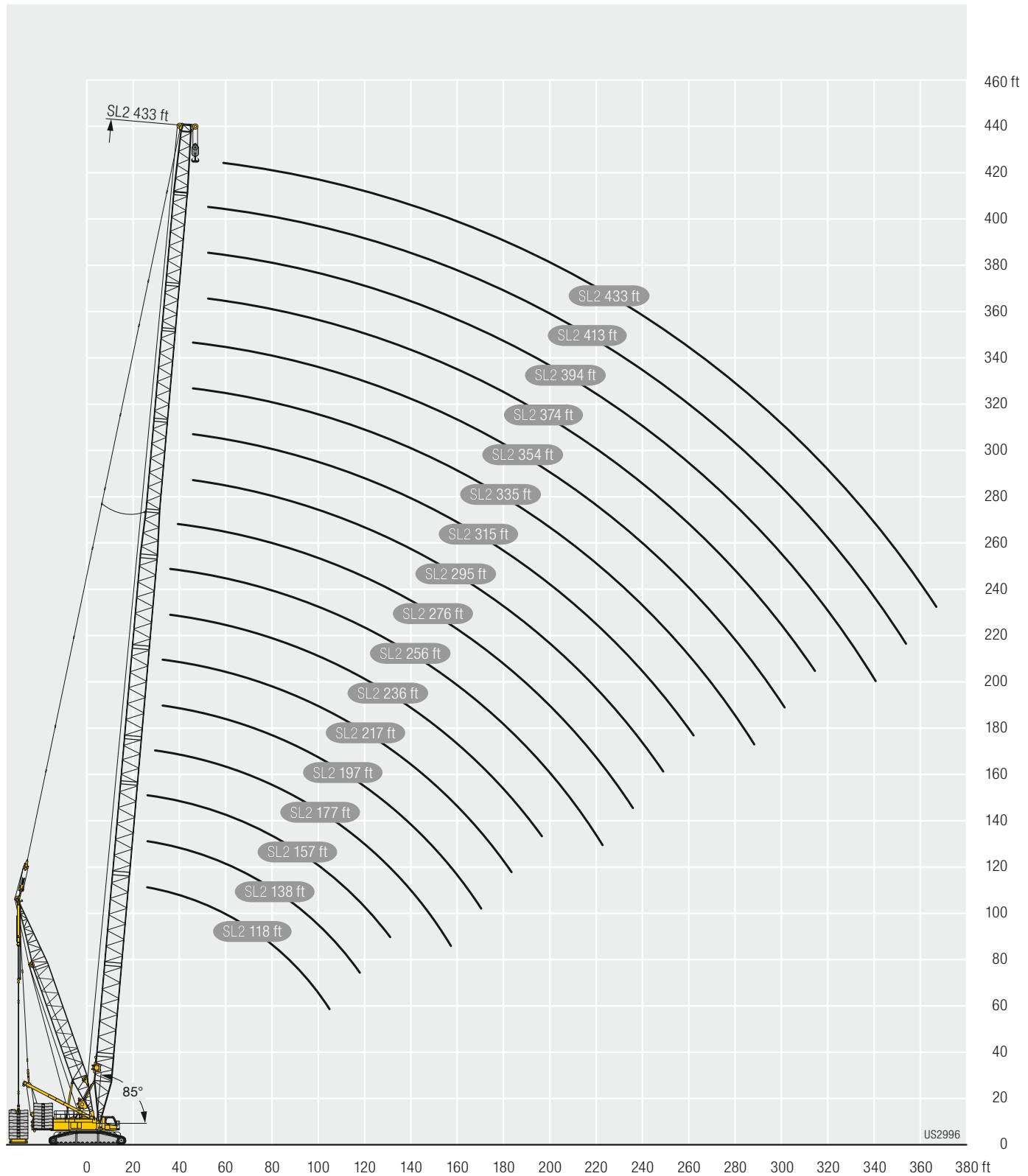
 118-433 ft	 98 ft	 88,200 lb	 286,600 lb - 374,800 lb	 529,100 lb - 617,300 lb	 330,700 lb - 463,000 lb	 B 66,100 lb - 264,600 lb
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		SL2 118 - 433																
		118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft	394 ft	413 ft	433 ft
185							36.5	46.6	46.1	44.0	43.7	41.4	39.8	37.5	35.9	34.9	33.0	32.5
							190.0	195.0	196.0	194.0	194.0	193.0	190.0	174.0	158.0	131.0	121.0	100.0
190							34.5	44.2	43.7	41.5	41.2	39.0	37.3	35.1	33.5	32.4	30.4	30.2
							182.0	188.0	189.0	188.0	188.0	186.0	184.0	172.0	155.0	129.0	119.0	98.7
195							41.9	41.4	39.2	38.9	36.6	34.9	32.7	31.0	30.0	28.2	27.8	
							181.0	183.0	181.0	182.0	180.0	178.0	169.0	152.0	126.0	116.0	97.0	
200							39.8	39.2	37.0	36.7	34.4	32.7	30.5	28.9	27.8	25.9	25.6	
							174.0	177.0	175.0	176.0	174.0	173.0	166.0	150.0	125.0	114.0	95.3	
205							37.9	37.2	34.9	34.6	32.3	30.6	28.3	26.8	25.6	23.9	23.7	
							166.0	172.0	170.0	171.0	169.0	168.0	163.0	148.0	123.0	112.0	93.8	
210							35.3	33.0	32.6	30.2	28.6	26.4	24.8	23.8	22.1	21.7		
							166.0	164.0	165.0	163.0	162.0	159.0	146.0	120.0	111.0	92.2		
215							33.5	31.1	30.7	28.4	26.7	24.4	22.9	21.9	20.3	20.0		
							161.0	159.0	160.0	158.0	157.0	155.0	143.0	117.0	109.0	90.8		
220							31.8	29.3	28.9	26.6	24.9	22.7	21.2	20.3	18.8	18.5		
							155.0	153.0	155.0	154.0	152.0	150.0	141.0	115.0	107.0	89.5		
225							27.7	27.3	24.9	23.2	21.2	19.8	18.9	17.3	17.0			
							148.0	150.0	149.0	147.0	145.0	138.0	113.0	105.0	88.3			
230							26.1	25.7	23.3	21.7	19.7	18.4	17.4	15.9	15.7			
							143.0	145.0	144.0	143.0	141.0	135.0	111.0	103.0	86.8			
235							24.7	24.2	21.8	20.3	18.4	17.0	16.1	14.6	14.3			
							138.0	141.0	140.0	139.0	137.0	132.0	110.0	101.0	85.2			
240							23.3	22.7	20.6	19.1	17.2	15.8	14.8	13.2	12.9			
							132.0	136.0	136.0	135.0	133.0	129.0	108.0	99.1	83.5			
245							21.5	19.4	17.9	15.9	14.6	13.7	11.8	11.4				
							132.0	132.0	130.0	129.0	126.0	107.0	98.1	81.6				
250							20.4	18.2	16.7	14.8	13.4	12.5	10.4	9.9				
							128.0	128.0	126.0	126.0	122.0	105.0	97.2	79.7				
255							19.4	17.2	15.7	13.6	12.3	11.3			8.6			
							124.0	123.0	121.0	122.0	119.0	104.0	96.1	78.9				
260							16.1	14.5	12.4	11.1	10.0				7.3			
							118.0	117.0	118.0	115.0	102.0		95.0	78.1				
265							15.0	13.4	11.2	9.8	8.8				77.4			
							113.0	113.0	114.0	111.0	102.0				93.4			
270							13.9	12.3	10.0	8.5	7.6				76.4			
							109.0	110.0	110.0	108.0	101.0				89.9			
275							11.2	8.9	7.4						75.5			
							107.0	107.0	105.0	100.0					89.9			
280							10.1	7.7							74.1			
							104.0	103.0	102.0	99.0					89.6			
285							9.0	6.7							72.9			
							101.0	100.0	99.4	97.1					88.4			
290							8.1	5.8							72.2			
							97.8	97.5	96.7	94.9					88.6			
295											94.5	93.9	92.5	87.8	71.6			
300											91.7	91.4	90.1	85.5	70.9			
305											89.0	88.8	87.6	83.0	70.3			
310												86.2	85.0	80.4	69.6			
315												83.3	81.9	77.7	68.7			
320												80.0	78.8	75.2	68.1			
325													75.7	72.8	67.5			
330													72.9	71.0	66.9			
335													70.4	69.1	66.4			
340													68.4	67.3	65.7			
345														65.4	64.2			
350														63.5	62.6			
355														61.7	61.1			
360															59.5			
365															57.9			
370															56.3			

Lifting heights

Hauteurs de levage

SL2DB



	79-315 ft	88,200 lb		374,800 lb	330,700 lb	286,600 lb
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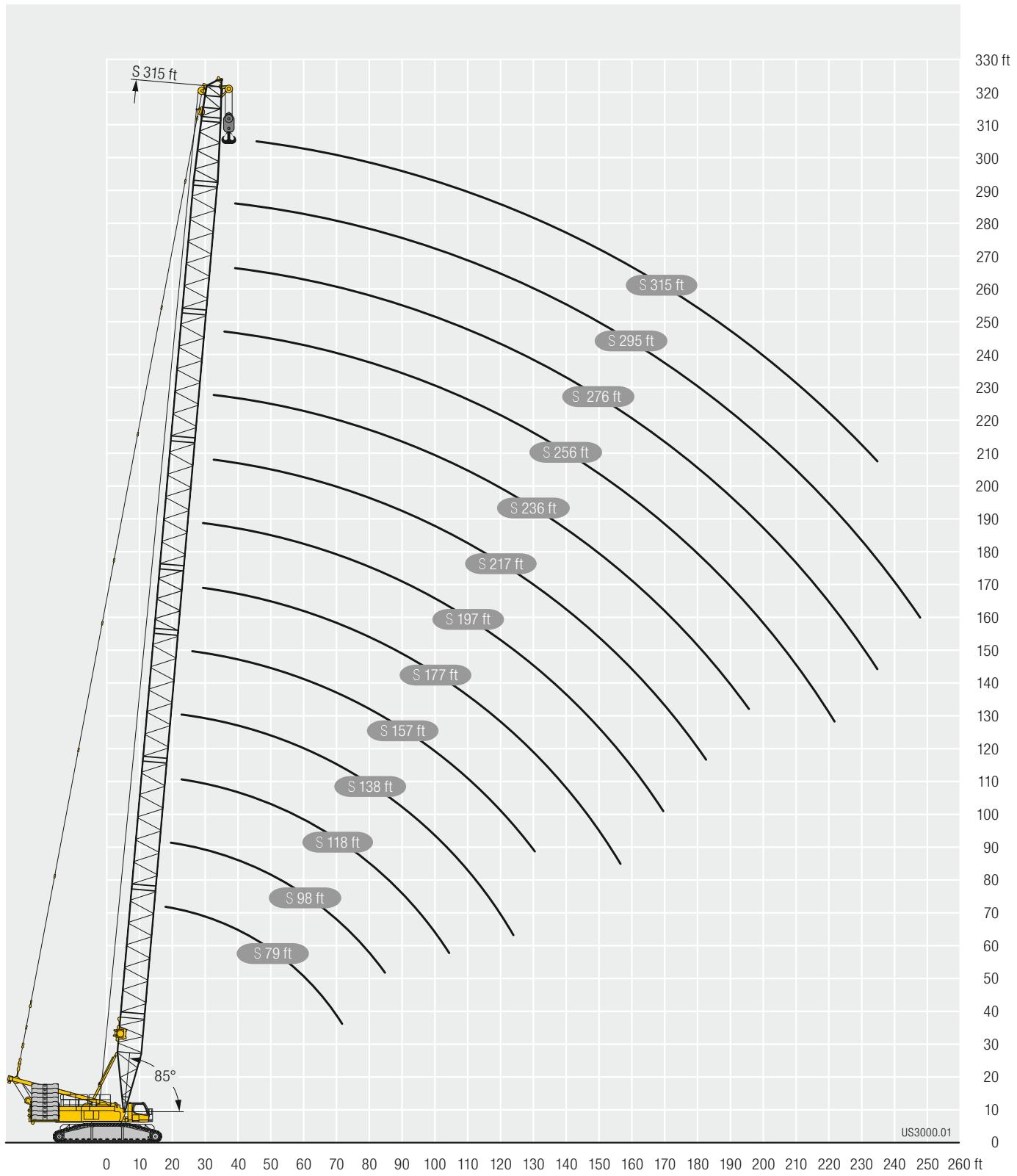
ft	S 79 - 315												ft
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft
17	882												17
18	882												18
19	882	875											19
20	871	858											20
22	822	816	811										22
24	763	753	767	750.0									24
26	705	720	713	683.0	641.0								26
28	677	672	662	626.0	590.0	557.0							28
30	632	625	611	577.0	545.0	517.0	491.0						30
32	593	584	564	534.0	506.0	482.0	459.0	438.0					32
34	558	545	524	497.0	473.0	451.0	429.0	412.0	394.0				34
36	527	512	489	465.0	443.0	423.0	405.0	387.0	372.0	355.0			36
38	498	482	458	436.0	417.0	398.0	381.0	366.0	351.0	337.0	324.0		38
40	469	452	431	411.0	392.0	376.0	360.0	346.0	333.0	319.0	308.0	282.0	40
45	396	391	373	357.0	343.0	329.0	316.0	305.0	294.0	282.0	273.0	261.0	214.0
50	338	335	329	315.0	303.0	291.0	281.0	271.0	261.0	251.0	244.0	235.0	197.0
55	295	291	290	281.0	271.0	261.0	251.0	243.0	235.0	226.0	219.0	211.0	182.0
60	260	257	255	252.0	244.0	235.0	227.0	220.0	212.0	204.0	199.0	191.0	170.0
65	232	230	227	224.0	221.0	214.0	206.0	200.0	193.0	186.0	181.0	174.0	158.0
70	210	206	204	202.0	200.0	195.0	188.0	183.0	176.0	170.0	165.0	159.0	147.0
75			188	185	183.0	180.0	178.0	173.0	168.0	162.0	156.0	152.0	146.0
80			171	169	166.0	164.0	162.0	159.0	155.0	149.0	143.0	140.0	134.0
85			157	155	153.0	150.0	148.0	146.0	143.0	138.0	132.0	129.0	124.0
90			145	142	141.0	138.0	136.0	133.0	132.0	128.0	123.0	119.0	114.0
95				132	129.0	128.0	125.0	123.0	121.0	118.0	114.0	111.0	106.0
100				123	120.0	118.0	116.0	114.0	112.0	110.0	106.0	103.0	98.3
105				114	111.0	109.0	107.0	105.0	103.0	101.0	98.0	95.6	91.3
110					104.0	102.0	99.8	97.5	95.9	93.6	90.8	89.1	84.9
115					97.4	95.2	93.0	90.6	89.1	86.7	83.9	82.7	79.3
120					91.2	89.0	86.8	84.4	82.9	80.5	77.8	76.5	73.6
125						83.5	81.2	78.7	77.2	74.9	72.2	71.0	68.4
130						78.3	75.9	73.6	72.1	69.8	66.9	65.7	63.1
135						73.7	71.3	68.9	67.4	65.0	62.3	61.1	58.6
140						69.5	66.9	64.6	63.1	60.7	58.0	56.7	54.1
145							62.9	60.6	59.1	56.7	53.9	52.7	50.2
150							59.3	56.9	55.3	52.9	50.2	49.0	46.4
155							55.9	53.5	51.9	49.5	46.8	45.5	43.0
160							50.3	48.7	46.2	43.5	42.3	39.8	38.7
165							47.4	45.7	43.3	40.5	39.3	36.7	35.7
170							44.6	43.0	40.5	37.8	36.5	34.0	32.9
175								40.4	37.9	35.1	33.9	31.3	30.2
180								38.0	35.4	32.6	31.4	28.8	27.8
185								35.8	33.1	30.4	29.0	26.5	25.4
190								33.7	31.0	28.2	26.9	24.3	23.3
195									29.0	26.2	24.8	22.4	21.3
200									27.1	24.3	22.8	20.6	19.6
205									25.4	22.5	21.2	19.0	18.0
210										21.0	19.7	17.5	16.5
215										19.5	18.3	16.1	15.1
220										18.0	17.0	14.8	13.8
225											15.8	13.4	12.4
230											14.4	12.0	11.0
235											13.0	10.5	9.5
240											11.7	9.2	8.1
245												7.9	6.8
250												6.7	5.5
255												5.5	255

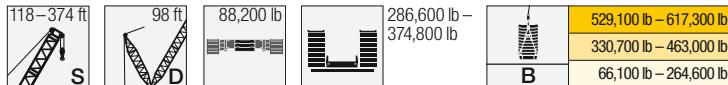
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Lifting heights

Hauteurs de levage

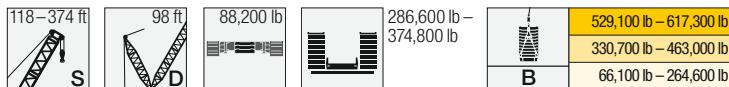
S





		S 118 - 374													
		118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft
24	-	755													
	SDB	882													
26	-	685	640.0												
	SDB	882	882.0												
28	-	624	599.0	565.0											
	SDB	882	882.0	882.0											
30	-	586	552.0	522.0	496.0										
	SDB	882	878.0	882.0	818.0										
32	-	541	511.0	484.0	461.0	498.0									
	SDB	882	878.0	876.0	818.0	755.0									
34	-	502	475.0	452.0	431.0	472.0	447.0								
	SDB	882	874.0	876.0	816.0	755.0	659.0								
36	-	468	444.0	424.0	404.0	445.0	427.0	404.0							
	SDB	882	874.0	876.0	814.0	754.0	659.0	583.0							
38	-	439	417.0	398.0	380.0	419.0	404.0	387.0	372.0						
	SDB	882	874.0	867.0	814.0	750.0	659.0	583.0	508.0						
40	-	412	392.0	374.0	359.0	402.0	387.0	367.0	359.0	341.0					
	SDB	882	868.0	850.0	812.0	750.0	655.0	582.0	508.0	445.0					
45	-	357	341.0	326.0	314.0	361.0	342.0	336.0	324.0	307.0	296.0	282.0	276.0		
	SDB	831	809.0	822.0	786.0	742.0	654.0	577.0	503.0	443.0	383.0	333.0	295.0		
50	-	314	300.0	288.0	277.0	320.0	311.0	300.0	289.0	281.0	272.0	257.0	254.0	246.0	217.0
	SDB	794	790.0	772.0	743.0	714.0	651.0	570.0	500.0	438.0	381.0	328.0	294.0	256.0	221.0
55	-	278	267.0	257.0	248.0	287.0	279.0	270.0	261.0	254.0	246.0	238.0	230.0	223.0	214.0
	SDB	732	730.0	718.0	703.0	700.0	651.0	566.0	492.0	437.0	376.0	324.0	293.0	255.0	220.0
60	-	245	240.0	231.0	223.0	260.0	253.0	245.0	237.0	230.0	223.0	216.0	209.0	203.0	196.0
	SDB	683	675.0	666.0	659.0	675.0	632.0	562.0	492.0	429.0	372.0	319.0	292.0	254.0	219.0
65	-	217	215.0	210.0	202.0	236.0	230.0	223.0	216.0	210.0	204.0	198.0	191.0	185.0	179.0
	SDB	637	630.0	619.0	615.0	632.0	615.0	550.0	485.0	428.0	366.0	313.0	292.0	253.0	218.0
70	-	196	192.0	190.0	184.0	216.0	211.0	204.0	198.0	193.0	187.0	181.0	175.0	170.0	164.0
	SDB	591	587.0	579.0	575.0	587.0	581.0	550.0	477.0	421.0	360.0	307.0	289.0	251.0	217.0
75	-	177	174.0	171.0	168.0	199.0	194.0	188.0	182.0	177.0	172.0	167.0	161.0	156.0	151.0
	SDB	549	547.0	543.0	538.0	549.0	544.0	532.0	477.0	416.0	351.0	301.0	288.0	249.0	215.0
80	-	162	158.0	156.0	153.0	183.0	179.0	173.0	168.0	164.0	159.0	154.0	148.0	144.0	139.0
	SDB	508	511.0	509.0	504.0	515.0	510.0	502.0	467.0	411.0	345.0	294.0	286.0	248.0	213.0
85	-	148	145.0	142.0	140.0	169.0	166.0	160.0	155.0	151.0	147.0	143.0	137.0	133.0	129.0
	SDB	469	481.0	477.0	474.0	483.0	481.0	474.0	455.0	398.0	338.0	286.0	281.0	247.0	211.0
90	-	136	133.0	130.0	128.0	155.0	154.0	149.0	144.0	141.0	136.0	132.0	127.0	123.0	119.0
	SDB	433	453.0	449.0	446.0	454.0	453.0	448.0	439.0	395.0	328.0	279.0	278.0	244.0	209.0
95	-	126	123.0	120.0	118.0	143.0	142.0	139.0	134.0	131.0	127.0	123.0	118.0	115.0	110.0
	SDB	400	426.0	425.0	421.0	430.0	428.0	424.0	418.0	391.0	324.0	273.0	275.0	242.0	207.0
100	-	117	114.0	111.0	108.0	132.0	131.0	129.0	125.0	122.0	118.0	115.0	110.0	107.0	102.0
	SDB	368	398.0	402.0	398.0	407.0	404.0	402.0	397.0	380.0	321.0	268.0	270.0	241.0	205.0
105	-	109	106.0	103.0	100.0	123.0	122.0	119.0	117.0	114.0	110.0	107.0	102.0	99.1	95.3
	SDB	337	370.0	381.0	378.0	385.0	383.0	377.0	367.0	313.0	263.0	266.0	238.0	204.0	
110	-	98.4	95.3	92.8	114.0	113.0	111.0	109.0	107.0	103.0	99.7	95.3	92.3	88.6	
	SDB	346.0	362.0	360.0	365.0	364.0	362.0	359.0	354.0	311.0	259.0	263.0	234.0	202.0	
115	-	91.9	88.8	86.2	106.0	105.0	103.0	101.0	99.5	96.4	93.2	88.8	86.0	82.4	
	SDB	323.0	343.0	343.0	346.0	345.0	343.0	341.0	339.0	307.0	256.0	257.0	231.0	201.0	
120	-	86.1	83.0	80.3	99.3	98.3	95.9	93.8	92.6	90.1	87.3	82.9	80.2	76.7	
	SDB	302.0	324.0	327.0	329.0	328.0	326.0	325.0	323.0	303.0	254.0	249.0	228.0	200.0	
125	-	77.6	74.8	92.8	91.8	89.6	87.4	86.3	84.2	81.7	77.5	74.8	71.4		
	SDB	305.0	313.0	314.0	313.0	311.0	309.0	308.0	296.0	250.0	245.0	224.0	200.0		
130	-	72.7	69.9	87.0	85.9	83.8	81.4	80.3	78.3	76.4	72.6	69.9	66.5		
	SDB	287.0	299.0	299.0	299.0	297.0	295.0	294.0	289.0	246.0	239.0	223.0	197.0		
135	-	68.4	65.4	81.7	80.6	78.3	76.2	75.1	73.1	71.3	67.6	65.4	62.0		
	SDB	270.0	285.0	286.0	286.0	283.0	281.0	281.0	278.0	241.0	233.0	219.0	195.0		
140	-	64.4	61.3	76.9	75.7	73.4	71.2	70.0	68.1	66.5	63.3	61.0	57.7		
	SDB	254.0	270.0	274.0	274.0	272.0	269.0	268.0	266.0	235.0	226.0	215.0	192.0		
145	-	57.5	72.4	71.2	68.9	66.5	65.5	63.6	61.9	59.0	56.9	53.8	50.0	49.9	
	SDB	255.0	255.0	262.0	262.0	261.0	258.0	256.0	255.0	228.0	220.0	210.0	189.0		
150	-	54.1	68.2	66.9	64.6	62.4	61.3	59.3	57.7	55.0	53.1	49.9			
	SDB	241.0	252.0	251.0	250.0	247.0	246.0	244.0	222.0	217.0	207.0	187.0			
155	-	50.9	64.4	63.0	60.7	58.5	57.2	55.3	53.8	51.0	49.4	46.5			
	SDB	228.0	241.0	242.0	240.0	238.0	236.0	234.0	215.0	213.0	205.0	185.0			
160	-	60.8	59.4	57.0	54.7	53.6	51.7	50.1	47.4	45.9	43.1				
	SDB	230.0	232.0	230.0	229.0	227.0	225.0	209.0	209.0	201.0	183.0				
165	-	57.6	56.1	53.7	51.3	50.2	48.2	46.6	43.9	42.3	39.9				
	SDB	219.0	224.0	222.0	220.0	219.0	216.0	203.0	205.0	197.0	180.0				

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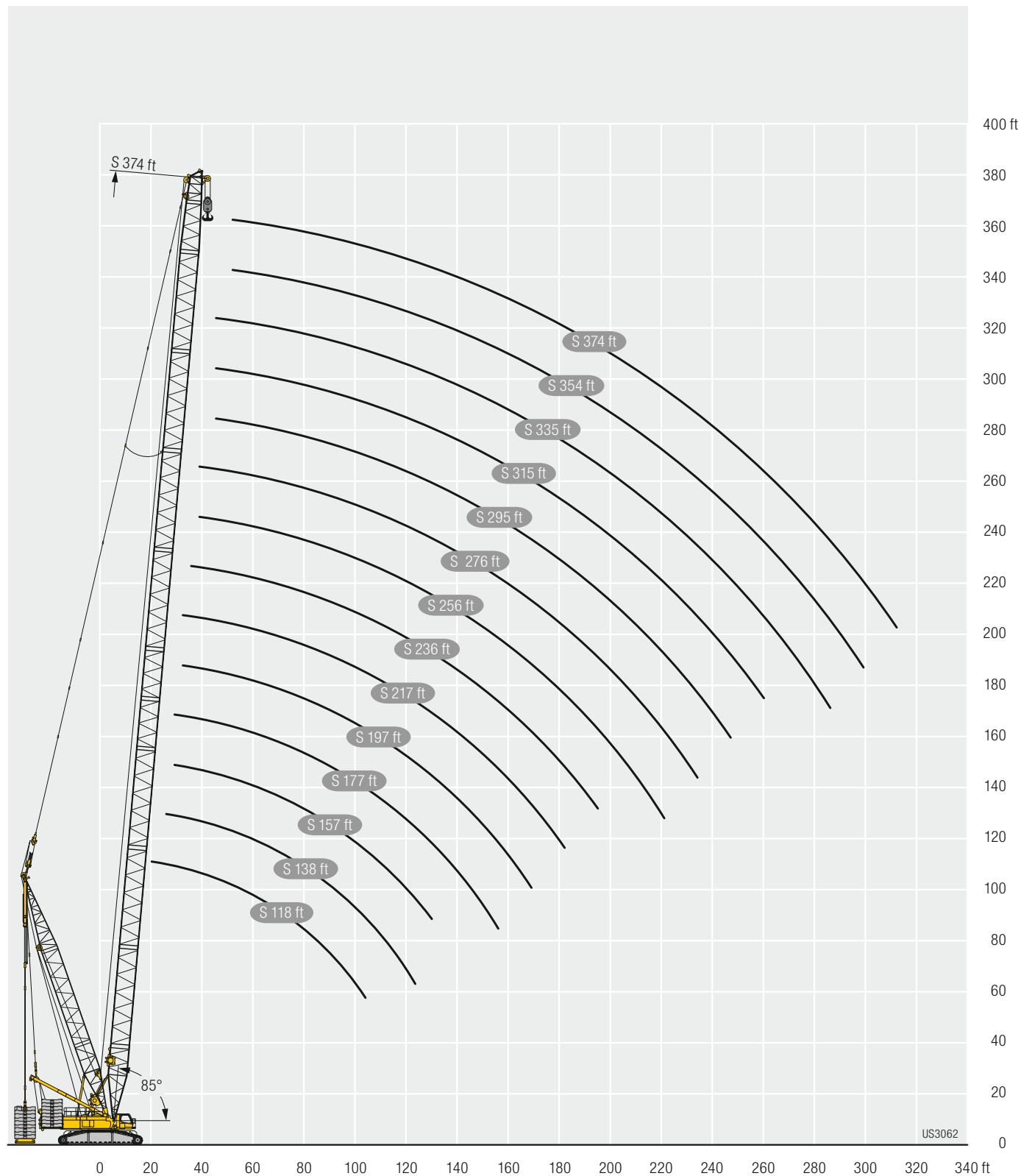
	S 118 - 374													
	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft
170	-				54.6	52.9	50.5	48.2	47.0	45.0	43.5	40.7	39.3	36.9
	SDB				207.0	215.0	214.0	211.0	211.0	208.0	197.0	200.0	192.0	177.0
175	-					50.1	47.6	45.2	44.0	42.0	40.4	37.7	36.2	33.9
	SDB				207.0	206.0	204.0	203.0	201.0	191.0	196.0	188.0	174.0	
180	-					47.4	44.8	42.3	41.2	39.2	37.6	34.9	33.4	31.2
	SDB				197.0	199.0	197.0	196.0	194.0	185.0	190.0	184.0	170.0	
185	-					44.8	42.2	39.8	38.5	36.5	34.9	32.2	30.7	28.4
	SDB				187.0	192.0	189.0	189.0	187.0	179.0	184.0	179.0	167.0	
190	-					42.5	39.8	37.3	36.0	34.0	32.4	29.8	28.2	26.0
	SDB				179.0	185.0	183.0	182.0	180.0	174.0	177.0	174.0	163.0	
195	-						37.5	35.0	33.7	31.6	30.0	27.4	25.9	23.6
	SDB				178.0	177.0	176.0	174.0	169.0	171.0	169.0	159.0		
200	-						35.4	32.8	31.4	29.4	27.8	25.1	23.7	21.6
	SDB				171.0	171.0	170.0	168.0	165.0	166.0	164.0	155.0		
205	-						33.4	30.7	29.4	27.3	25.7	23.0	21.7	19.8
	SDB				163.0	165.0	165.0	163.0	160.0	160.0	159.0	159.0	151.0	
210	-							28.8	27.4	25.3	23.7	21.2	19.9	17.9
	SDB				159.0	160.0	158.0	155.0	155.0	155.0	154.0	154.0	146.0	
215	-							27.0	25.5	23.4	21.9	19.6	18.3	16.1
	SDB				152.0	154.0	152.0	150.0	149.0	149.0	149.0	149.0	142.0	
220	-							25.3	23.8	21.7	20.3	18.1	16.7	14.3
	SDB				146.0	149.0	148.0	145.0	145.0	145.0	144.0	144.0	138.0	
225	-								22.2	20.2	18.8	16.6	15.3	12.6
	SDB				144.0	143.0	140.0	140.0	140.0	140.0	139.0	139.0	135.0	
230	SDB								20.8	18.8	17.5	15.2	13.7	
					139.0	139.0	139.0	135.0	136.0	136.0	135.0	135.0		
235	SDB								19.6	17.4	16.1	13.7	12.1	
					134.0	134.0	134.0	131.0	132.0	132.0	130.0	127.0		
240	SDB								18.2	16.0	14.6	12.0	10.6	
					130.0	130.0	127.0	127.0	128.0	128.0	126.0	124.0		
245	-									14.6	13.1	10.6	9.2	
	SDB				126.0	123.0	123.0	124.0	122.0	122.0	120.0			
250	-									13.2	11.6	9.2	7.8	
	SDB				122.0	119.0	119.0	119.0	118.0	118.0	116.0			
255	SDB									11.9	10.3	7.9	6.4	
					117.0	114.0	114.0	115.0	114.0	114.0	113.0			
260	-										9.1	6.6		
	SDB				110.0	112.0	112.0	111.0	111.0	111.0	109.0			
265	-										7.8			
	SDB				105.0	108.0	108.0	107.0	107.0	107.0	105.0			
270	-										6.6			
	SDB				101.0	104.0	104.0	104.0	104.0	104.0	102.0			
275	-										101.0	101.0	99.0	
	SDB										97.8	97.9	96.1	
280	-										94.6	95.1	93.2	
	SDB										91.7	92.2	90.4	
285	-											89.2	87.6	
	SDB											86.4	85.0	
290	-											83.7	82.4	
295	SDB												79.8	
300	SDB												76.9	
305	-												73.8	
310	SDB												70.5	
315	-													
320	SDB													
325	-													

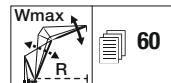
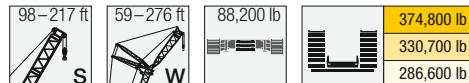
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Lifting heights

Hauteurs de levage

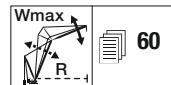
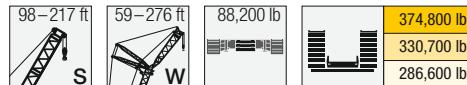
SDB





	S 98												
	W 59		W 79		W 98		W 118		W 138		W 157		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
32	537.0	537.0 ⁽¹⁾											32
34	503.0	504.0 ⁽¹⁾											34
36	474.0	474.0	452.0										36
38	448.0	448.0	427.0	428.0 ⁽¹⁾									38
40	424.0	424.0	405.0	405.0 ⁽¹⁾	323.0								40
45	375.0	375.0	359.0	359.0 ⁽²⁾	345.0	345.0	332.0						45
50	335.0	335.0 ⁽⁵⁾	322.0	322.0 ⁽³⁾	310.0	310.0	299.0	299.0	289.0				50
55	303.0	303.0	291.0	291.0	281.0	281.0	271.0	271.0	262.0	262.0 ⁽¹⁾	254.0		55
60	277.0	277.0	266.0	266.0	257.0	257.0	248.0	248.0	240.0	240.0	232.0	232.0 ⁽¹⁾	60
65	251.0	251.0 ⁽⁹⁾	245.0	245.0	236.0	236.0	228.0	228.0	221.0	221.0 ⁽²⁾	214.0	214.0	65
70	228.0	228.0	226.0	226.0	218.0	218.0	211.0	211.0	205.0	205.0	198.0	198.0	70
75	205.0*	205.0 ⁽¹¹⁾	206.0	206.0	203.0	203.0	196.0	196.0	190.0	190.0 ⁽³⁾	184.0	184.0	75
80		185.0 ⁽¹¹⁾	190.0	190.0 ⁽⁹⁾	187.0	187.0 ⁽⁶⁾	183.0	183.0	178.0	178.0	172.0	172.0	80
85		168.0 ⁽¹¹⁾	175.0	175.0	173.0	173.0	171.0	171.0	166.0	166.0 ⁽⁴⁾	161.0	161.0 ⁽³⁾	85
90		153.0 ⁽¹¹⁾	163.0	163.0	161.0	161.0	158.0	158.0	156.0	156.0	151.0	151.0	90
95		140.0 ⁽¹⁰⁾	149.0*	149.0	150.0	150.0	148.0	148.0	146.0	146.0 ⁽⁵⁾	143.0	143.0 ⁽⁴⁾	95
100		129.0 ⁽¹¹⁾		135.0 ⁽¹¹⁾	140.0	140.0 ⁽¹⁰⁾	138.0	138.0 ⁽⁷⁾	136.0	136.0	134.0	134.0	100
105		118.0 ⁽¹¹⁾		125.0 ⁽¹¹⁾	131.0	131.0 ⁽¹¹⁾	129.0	129.0	127.0	127.0 ⁽⁶⁾	125.0	125.0	105
110		107.0 ⁽⁹⁾		115.0 ⁽¹¹⁾	124.0	124.0	122.0	122.0	120.0	120.0	117.0	117.0 ⁽⁵⁾	110
115		99.2 ⁽⁹⁾		107.0 ⁽¹¹⁾		112.0 ⁽¹¹⁾	115.0	115.0	113.0	113.0	111.0	111.0	115
120		91.3 ⁽⁹⁾		98.8 ⁽¹¹⁾		104.0 ⁽¹¹⁾	108.0	108.0	106.0	106.0	104.0	104.0 ⁽⁶⁾	120
125		83.6 ⁽⁷⁾		91.0 ⁽¹¹⁾		96.6 ⁽¹¹⁾	103.0	103.0	101.0	101.0	98.4	98.4	125
130		77.4 ⁽⁷⁾		83.3 ⁽⁹⁾		89.3 ⁽¹¹⁾	97.4	97.4	95.3	95.3	93.2	93.2	130
135		71.2 ⁽⁷⁾		77.4 ⁽⁹⁾		83.4 ⁽¹¹⁾		88.1 ⁽¹¹⁾	90.5	90.5	88.4	88.4	135
140				71.6 ⁽⁹⁾		77.5 ⁽¹¹⁾		81.9 ⁽¹¹⁾	86.1	86.1	84.0	84.0	140
145				65.6 ⁽⁷⁾		71.7 ⁽¹¹⁾		76.5 ⁽¹¹⁾	82.0	82.0	79.9	79.9	145
150				61.0 ⁽⁷⁾		65.7 ⁽⁹⁾		71.1 ⁽¹¹⁾	78.3	78.3	76.1	76.1	150
155				56.3 ⁽⁷⁾		61.1 ⁽⁹⁾		66.5 ⁽¹¹⁾		70.3 ⁽¹¹⁾	72.6	72.6	155
160						56.5 ⁽⁹⁾		61.9 ⁽¹¹⁾		65.6 ⁽¹¹⁾	69.3	69.3	160
165						51.7 ⁽⁷⁾		57.3 ⁽¹¹⁾		61.3 ⁽¹¹⁾	66.3	66.3	165
170						48.0 ⁽⁷⁾		52.4 ⁽⁹⁾		57.1 ⁽¹¹⁾	63.6	63.6	170
175						44.3 ⁽⁷⁾		48.7 ⁽⁹⁾		53.3 ⁽¹¹⁾		56.3 ⁽¹¹⁾	175
180								45.0 ⁽⁹⁾		49.6 ⁽¹¹⁾		52.7 ⁽¹¹⁾	180
185								40.9 ⁽⁷⁾		45.8 ⁽¹¹⁾		49.2 ⁽¹¹⁾	185
190								37.9 ⁽⁷⁾		41.7 ⁽⁹⁾		45.8 ⁽¹¹⁾	190
195								34.8 ⁽⁷⁾		38.6 ⁽⁹⁾		42.7 ⁽¹¹⁾	195
200										35.5 ⁽⁹⁾		39.6 ⁽¹¹⁾	200
205										31.9 ⁽⁷⁾		36.5 ⁽¹¹⁾	205
210										29.4 ⁽⁷⁾		32.8 ⁽⁹⁾	210
215										26.8 ⁽⁷⁾		30.1 ⁽⁹⁾	215
220												27.5 ⁽⁹⁾	220
225												24.5 ⁽⁷⁾	225
230												22.4 ⁽⁷⁾	230
235												20.4 ⁽⁷⁾	235

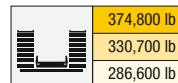
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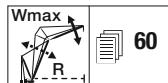


S 98

ft	W 177		W 197		W 217		W 236		W 256		W 276		ft
	87/85*	Wmax	87/85*	Wmax									
60	225.0												60
65	208.0	208.0	202.0										65
70	192.0	192.0	187.0	187.0 ⁽¹⁾	181.0								70
75	179.0	179.0	174.0	174.0	169.0	169.0	165.0						75
80	167.0	167.0	163.0	163.0	157.0	157.0	154.0	154.0 ⁽¹⁾	147.0				80
85	157.0	157.0	153.0	153.0	148.0	148.0	144.0	144.0	140.0	140.0 ⁽¹⁾	123.0		85
90	147.0	147.0	143.0	143.0	139.0	139.0	135.0	135.0	132.0	132.0	121.0	121.0	90
95	138.0	138.0 ⁽³⁾	135.0	135.0	131.0	131.0	127.0	127.0	124.0	124.0	119.0	119.0	95
100	131.0	131.0	128.0	128.0 ⁽³⁾	123.0	123.0	120.0	120.0 ⁽²⁾	117.0	117.0	113.0	113.0	100
105	123.0	123.0 ⁽⁴⁾	121.0	121.0	116.0	116.0	114.0	114.0	110.0	110.0 ⁽²⁾	107.0	107.0	105
110	115.0	115.0	114.0	114.0	110.0	110.0 ⁽³⁾	108.0	108.0	105.0	105.0	101.0	101.0	110
115	108.0	108.0	107.0	107.0 ⁽⁴⁾	104.0	104.0	102.0	102.0	99.1	99.1	96.0	96.0	115
120	102.0	102.0 ⁽⁵⁾	101.0	101.0	98.4	98.4	96.9	96.9	94.0	94.0	91.0	91.0	120
125	96.5	96.5	95.2	95.2	92.7	92.7	91.5	91.5	89.3	89.3	86.5	86.5	125
130	91.3	91.3	90.0	90.0	87.5	87.5	86.4	86.4	84.5	84.5	82.1	82.1	130
135	86.5	86.5	85.3	85.3	82.8	82.8	81.6	81.6	79.8	79.8	77.8	77.8	135
140	82.1	82.1	80.8	80.8	78.4	78.4	77.2	77.2	75.5	75.5	73.6	73.6	140
145	78.0	78.0	76.8	76.8	74.4	74.4	73.2	73.2	71.4	71.4	69.5	69.5	145
150	74.2	74.2	73.0	73.0	70.6	70.6	69.5	69.5	67.7	67.7	65.9	65.9	150
155	70.6	70.6	69.5	69.5	67.1	67.1	65.9	65.9	64.3	64.3	62.4	62.4	155
160	67.4	67.4	66.2	66.2	63.8	63.8	62.7	62.7	61.0	61.0	59.2	59.2	160
165	64.3	64.3	63.1	63.1	60.8	60.8	59.7	59.7	58.0	58.0	56.2	56.2	165
170	61.5	61.5	60.2	60.2	57.9	57.9	56.8	56.8	55.1	55.1	53.3	53.3	170
175	58.8	58.8 ⁽¹¹⁾	57.6	57.6	55.3	55.3	54.1	54.1	52.5	52.5	50.7	50.7	175
180	56.3	56.3	55.1	55.1	52.8	52.8	51.6	51.6	49.9	49.9	48.2	48.2	180
185	54.0	54.0	52.7	52.7	50.4	50.4	49.3	49.3	47.6	47.6	45.8	45.8	185
190	52.1	52.1	50.5	50.5	48.2	48.2	47.0	47.0	45.4	45.4	43.7	43.7	190
195		45.3 ⁽¹¹⁾	48.4	48.4	46.1	46.1	44.9	44.9	43.3	43.3	41.6	41.6	195
200		42.3 ⁽¹¹⁾	46.5	46.5	44.1	44.1	43.0	43.0	41.3	41.3	39.6	39.6	200
205		39.3 ⁽¹¹⁾	44.7	44.7	42.3	42.3	41.1	41.1	39.4	39.4	37.7	37.7	205
210		36.6 ⁽¹¹⁾	41.7*	41.7	40.5	40.5	39.3	39.3	37.6	37.6	35.9	35.9	210
215		33.9 ⁽¹¹⁾		36.8 ⁽¹¹⁾	38.8	38.8	37.6	37.6	35.9	35.9	34.2	34.2	215
220		31.3 ⁽¹¹⁾		34.3 ⁽¹¹⁾	37.3	37.3	36.0	36.0	34.3	34.3	32.6	32.6	220
225		28.6 ⁽¹¹⁾		31.8 ⁽¹¹⁾	35.9	35.9	34.5	34.5	32.8	32.8	31.1	31.1	225
230		25.4 ⁽⁹⁾		29.5 ⁽¹¹⁾	33.4*	33.4	33.1	33.1	31.3	31.3	29.7	29.7	230
235		23.3 ⁽⁹⁾		27.2 ⁽¹¹⁾		28.7 ⁽¹¹⁾	31.7	31.7	29.9	29.9	28.3	28.3	235
240		21.1 ⁽⁹⁾		24.9 ⁽¹¹⁾		26.5 ⁽¹¹⁾	30.5	30.5	28.6	28.6	27.0	27.0	240
245		18.5 ⁽⁷⁾		22.6 ⁽¹¹⁾		24.4 ⁽¹¹⁾	29.3	29.3	27.4	27.4	25.7	25.7	245
250		16.8 ⁽⁷⁾		19.9 ⁽⁹⁾		22.6 ⁽¹¹⁾	27.1*	27.1	26.2	26.2	24.5	24.5	250
255		15.1 ⁽⁷⁾		18.3 ⁽⁹⁾		20.8 ⁽¹¹⁾		22.8 ⁽¹¹⁾	25.0	25.0	23.4	23.4	255
260				16.6 ⁽⁹⁾		19.0 ⁽¹¹⁾		21.1 ⁽¹¹⁾	24.0	24.0	22.3	22.3	260
265				14.0 ⁽⁷⁾		17.3 ⁽¹¹⁾		19.4 ⁽¹¹⁾	23.0	23.0	21.4	21.4	265
270				12.3 ⁽⁷⁾		14.6 ⁽⁹⁾		17.9 ⁽¹¹⁾	21.3*	21.3	20.6	20.6	270
275				10.6 ⁽⁷⁾		13.1 ⁽⁹⁾		16.4 ⁽¹¹⁾		17.6 ⁽¹¹⁾	19.8	19.8	275
280						11.5 ⁽⁹⁾		14.9 ⁽¹¹⁾		16.2 ⁽¹¹⁾	19.0	19.0	280
285						9.0 ⁽⁷⁾		13.4 ⁽¹¹⁾		14.7 ⁽¹¹⁾	18.4	18.4	285
290						7.4 ⁽⁷⁾		10.6 ⁽⁹⁾		13.3 ⁽¹¹⁾	16.9*	16.9	290
295								9.1 ⁽⁹⁾		11.8 ⁽¹¹⁾		13.3 ⁽¹¹⁾	295
300								7.5 ⁽⁹⁾		10.3 ⁽¹¹⁾		12.1 ⁽¹¹⁾	300
305										8.8 ⁽¹¹⁾		10.7 ⁽¹¹⁾	305
310											9.3 ⁽¹¹⁾		310
315											7.8 ⁽¹¹⁾		315

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

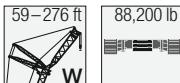
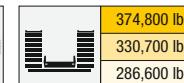
	
S	W

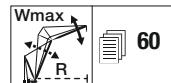


S 118

 ft	W 59		W 79		W 98		W 118		W 138		W 157		 ft	
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax		
32	508.0												32	
34	478.0	478.0 ⁽¹⁾											34	
36	451.0	451.0											36	
38	427.0	427.0 ⁽²⁾	408.0	408.0 ⁽¹⁾									38	
40	405.0	405.0	388.0	388.0 ⁽¹⁾									40	
45	359.0	359.0	345.0	345.0 ⁽²⁾	331.0	331.0 ⁽¹⁾							45	
50	322.0	322.0	310.0	310.0	298.0	298.0	288.0	288.0 ⁽¹⁾					50	
55	292.0	292.0 ⁽⁶⁾	281.0	281.0	271.0	271.0	262.0	262.0	253.0	253.0 ⁽¹⁾			55	
60	267.0	267.0	257.0	257.0	248.0	248.0	240.0	240.0	232.0	232.0	224.0	224.0 ⁽¹⁾	60	
65	246.0	246.0 ⁽⁹⁾	237.0	237.0	228.0	228.0	221.0	221.0	214.0	214.0 ⁽²⁾	207.0	207.0	65	
70	225.0	225.0 ⁽¹¹⁾	219.0	219.0	211.0	211.0	205.0	205.0	198.0	198.0	192.0	192.0	70	
75	203.0*	203.0	204.0	204.0	196.0	196.0 ⁽⁵⁾	191.0	191.0	184.0	184.0	179.0	179.0	75	
80		184.0 ⁽¹¹⁾	188.0	188.0	183.0	183.0	178.0	178.0	172.0	172.0	167.0	167.0	80	
85		166.0 ⁽¹¹⁾	174.0	174.0	171.0	171.0	167.0	167.0 ⁽⁵⁾	161.0	161.0	156.0	156.0 ⁽³⁾	85	
90		151.0 ⁽¹¹⁾	161.0	161.0	159.0	159.0	157.0	157.0	152.0	152.0	147.0	147.0	90	
95		138.0 ⁽¹¹⁾	148.0*	148.0	148.0	148.0	146.0	146.0	143.0	143.0	139.0	139.0	95	
100		126.0 ⁽¹¹⁾		135.0 ⁽¹¹⁾	138.0	138.0	137.0	137.0	134.0	134.0	131.0	131.0	100	
105		117.0 ⁽¹¹⁾		123.0 ⁽¹¹⁾	130.0	130.0	130.0 ⁽¹¹⁾	128.0	128.0	126.0	126.0	123.0	123.0	105
110		107.0 ⁽¹¹⁾		114.0 ⁽¹¹⁾	122.0	122.0	120.0	120.0	118.0	118.0	116.0	116.0	110	
115		97.5 ⁽¹¹⁾		105.0 ⁽¹¹⁾	113.0*	113.0	114.0	114.0	111.0	111.0 ⁽⁷⁾	109.0	109.0	115	
120		89.3 ⁽⁹⁾		97.1 ⁽¹¹⁾		103.0 ⁽¹¹⁾	107.0	107.0 ⁽¹⁰⁾	105.0	105.0	103.0	103.0	120	
125		82.7 ⁽⁹⁾		90.2 ⁽¹¹⁾		94.9 ⁽¹¹⁾	101.0	101.0 ⁽¹¹⁾	99.2	99.2	97.1	97.1	125	
130		76.0 ⁽⁹⁾		83.2 ⁽¹¹⁾		88.2 ⁽¹¹⁾	96.3	96.3	94.0	94.0	91.9	91.9	130	
135		69.4 ⁽⁸⁾		76.2 ⁽¹¹⁾		81.4 ⁽¹¹⁾	89.4*	89.4	89.2	89.2	87.2	87.2	135	
140		64.2 ⁽⁷⁾		70.1 ⁽⁹⁾		75.9 ⁽¹¹⁾		81.1 ⁽¹¹⁾	84.9	84.9	82.7	82.7	140	
145		59.2 ⁽⁷⁾		65.0 ⁽⁹⁾		70.6 ⁽¹¹⁾		75.4 ⁽¹¹⁾	80.8	80.8	78.7	78.7	145	
150		54.3 ⁽⁷⁾		59.9 ⁽⁹⁾		65.2 ⁽¹¹⁾		70.2 ⁽¹¹⁾	77.1	77.1	74.9	74.9	150	
155				54.8 ⁽⁹⁾		59.9 ⁽¹¹⁾		65.0 ⁽¹¹⁾	71.8*	71.8	71.5	71.5	155	
160				50.6 ⁽⁷⁾		54.9 ⁽⁹⁾		60.8 ⁽¹¹⁾		64.3 ⁽¹¹⁾	68.3	68.3	160	
165				46.6 ⁽⁷⁾		50.9 ⁽⁹⁾		56.5 ⁽¹¹⁾		60.0 ⁽¹¹⁾	65.3	65.3	165	
170				42.7 ⁽⁷⁾		46.8 ⁽⁹⁾		52.2 ⁽¹¹⁾		55.8 ⁽¹¹⁾	62.5	62.5	170	
175						42.4 ⁽⁷⁾		47.9 ⁽¹¹⁾		51.8 ⁽¹¹⁾	58.2*	58.2	175	
180						39.2 ⁽⁷⁾		43.7 ⁽⁹⁾		48.3 ⁽¹¹⁾		51.4 ⁽¹¹⁾	180	
185						36.0 ⁽⁷⁾		40.4 ⁽⁹⁾		44.8 ⁽¹¹⁾		48.0 ⁽¹¹⁾	185	
190						32.8 ⁽⁷⁾		37.0 ⁽⁹⁾		41.3 ⁽¹¹⁾		44.6 ⁽¹¹⁾	190	
195								33.2 ⁽⁷⁾		37.7 ⁽¹¹⁾		41.3 ⁽¹¹⁾	195	
200								30.5 ⁽⁷⁾		34.0 ⁽⁹⁾		38.4 ⁽¹¹⁾	200	
205								27.8 ⁽⁷⁾		31.2 ⁽⁹⁾		35.4 ⁽¹¹⁾	205	
210								25.1 ⁽⁷⁾		28.4 ⁽⁹⁾		32.4 ⁽¹¹⁾	210	
215										25.1 ⁽⁷⁾		29.5 ⁽¹¹⁾	215	
220										23.0 ⁽⁷⁾		26.3 ⁽⁹⁾	220	
225										20.9 ⁽⁷⁾		24.0 ⁽⁹⁾	225	
230										18.8 ⁽⁷⁾		21.7 ⁽⁹⁾	230	
235												18.8 ⁽⁷⁾	235	
240												17.0 ⁽⁷⁾	240	
245												15.1 ⁽⁷⁾	245	

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

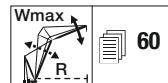
	98–217 ft		59–276 ft	88,200 lb		374,800 lb
	S		W			330,700 lb 286,600 lb



S 118

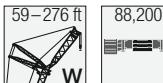
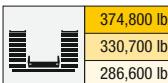
 ft	W 177		W 197		W 217		W 236		W 256		W 276		 ft
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
65	201.0	201.0 ⁽¹⁾											65
70	186.0	186.0	181.0	181.0 ⁽¹⁾	142.0								70
75	173.0	173.0	169.0	169.0	164.0	164.0 ⁽¹⁾	159.0						75
80	162.0	162.0	158.0	158.0	153.0	153.0	149.0	149.0 ⁽¹⁾	138.0				80
85	152.0	152.0	148.0	148.0 ⁽²⁾	144.0	144.0	140.0	140.0	135.0	135.0	116.0		85
90	143.0	143.0	139.0	139.0	135.0	135.0	131.0	131.0	128.0	128.0	115.0	115.0	90
95	134.0	134.0 ⁽³⁾	131.0	131.0	127.0	127.0 ⁽²⁾	124.0	124.0	120.0	120.0	113.0	113.0	95
100	127.0	127.0	124.0	124.0	120.0	120.0	117.0	117.0	113.0	113.0	110.0	110.0	100
105	120.0	120.0	117.0	117.0	114.0	114.0	110.0	110.0	107.0	107.0 ⁽²⁾	104.0	104.0	105
110	114.0	114.0	111.0	111.0	108.0	108.0 ⁽⁴⁾	105.0	105.0	101.0	101.0	98.1	98.1	110
115	107.0	107.0	105.0	105.0	102.0	102.0	99.1	99.1	96.1	96.1	93.0	93.0	115
120	101.0 ⁽⁵⁾	99.5	99.5	97.1	97.1	94.1	94.1	91.2	91.2	88.2	88.2		120
125	95.2	95.2	93.9	93.9	91.9	91.9	89.5	89.5	86.8	86.8	83.8	83.8	125
130	90.0	90.0	88.7	88.7 ⁽⁵⁾	86.9	86.9	85.0	85.0	82.4	82.4	79.6	79.6	130
135	85.2	85.2	84.0	84.0	82.2	82.2	80.3	80.3	78.3	78.3	75.8	75.8	135
140	80.8	80.8	79.6	79.6	77.8	77.8	76.0	76.0	74.3	74.3	72.0	72.0	140
145	76.8	76.8	75.6	75.6	73.8	73.8	72.0	72.0	70.2	70.2	68.3	68.3	145
150	73.1	73.1	71.8	71.8	70.0	70.0	68.3	68.3	66.6	66.6	64.7	64.7	150
155	69.6	69.6	68.4	68.4	66.6	66.6	64.8	64.8	63.1	63.1	61.2	61.2 ⁽⁴⁾	155
160	66.3	66.3	65.1	65.1	63.3	63.3	61.6	61.6	59.9	59.9	58.1	58.1	160
165	63.3	63.3	62.1	62.1	60.3	60.3	58.6	58.6	56.9	56.9	55.1	55.1	165
170	60.5	60.5	59.2	59.2	57.5	57.5	55.8	55.8	54.1	54.1	52.3	52.3	170
175	57.8	57.8	56.6	56.6	54.8	54.8	53.1	53.1	51.4	51.4	49.7	49.7	175
180	55.4	55.4	54.1	54.1	52.3	52.3	50.6	50.6	49.0	49.0	47.2	47.2	180
185	53.1	53.1	51.8	51.8	50.0	50.0	48.3	48.3	46.7	46.7	44.9	44.9	185
190	51.0	51.0	49.6	49.6	47.8	47.8	46.1	46.1	44.5	44.5	42.7	42.7	190
195	47.4*	47.4	47.5	47.5	45.7	45.7	44.0	44.0	42.4	42.4	40.6	40.6	195
200		41.1 ⁽¹¹⁾	45.6	45.6	43.7	43.7	42.1	42.1	40.4	40.4	38.7	38.7	200
205		38.2 ⁽¹¹⁾	43.8	43.8	41.8	41.8	40.2	40.2	38.5	38.5	36.8	36.8	205
210		35.3 ⁽¹¹⁾	42.2	42.2	40.1	40.1	38.4	38.4 ⁽⁹⁾	36.8	36.8	35.1	35.1	210
215		32.7 ⁽¹¹⁾		35.8 ⁽¹¹⁾	38.4	38.4	36.8	36.8	35.1	35.1	33.4	33.4	215
220		30.1 ⁽¹¹⁾		33.2 ⁽¹¹⁾	36.9	36.9	35.2	35.2	33.5	33.5	31.8	31.8	220
225		27.5 ⁽¹¹⁾		30.7 ⁽¹¹⁾	35.4	35.4	33.7	33.7	32.0	32.0	30.3	30.3	225
230		25.0 ⁽¹¹⁾		28.2 ⁽¹¹⁾	34.2	34.2	32.3	32.3	30.5	30.5	28.9	28.9	230
235		22.5 ⁽¹¹⁾		26.1 ⁽¹¹⁾		28.0 ⁽¹¹⁾	31.0	31.0	29.2	29.2	27.5	27.5	235
240		19.9 ⁽⁹⁾		24.0 ⁽¹¹⁾		25.9 ⁽¹¹⁾	29.7	29.7	27.9	27.9	26.2	26.2	240
245		18.1 ⁽⁹⁾		22.0 ⁽¹¹⁾		23.8 ⁽¹¹⁾	28.5	28.5	26.6	26.6	24.9	24.9	245
250		16.3 ⁽⁹⁾		19.9 ⁽¹¹⁾		21.7 ⁽¹¹⁾	27.6	27.6	25.4	25.4	23.8	23.8	250
255		13.6 ⁽⁷⁾		17.8 ⁽¹¹⁾		20.0 ⁽¹¹⁾		21.7 ⁽¹¹⁾	24.3	24.3	22.6	22.6 ⁽¹⁰⁾	255
260		11.8 ⁽⁷⁾		15.3 ⁽⁹⁾		18.3 ⁽¹¹⁾		20.1 ⁽¹¹⁾	23.3	23.3	21.6	21.6	260
265		10.0 ⁽⁷⁾		13.6 ⁽⁹⁾		16.6 ⁽¹¹⁾		18.5 ⁽¹¹⁾	22.3	22.3	20.8	20.8	265
270				9.4 ⁽⁷⁾		12.2 ⁽⁹⁾		15.4 ⁽¹¹⁾		16.8 ⁽¹¹⁾	19.2	19.2	275
275				7.7 ⁽⁷⁾		10.6 ⁽⁹⁾		13.9 ⁽¹¹⁾		15.3 ⁽¹¹⁾	18.4	18.4	280
280						8.9 ⁽⁹⁾		12.3 ⁽¹¹⁾		13.9 ⁽¹¹⁾	17.8	17.8	285
285						7.3 ⁽⁹⁾		10.8 ⁽¹¹⁾		12.5 ⁽¹¹⁾	16.1*	16.1	290
290										11.0 ⁽¹¹⁾		12.5 ⁽¹¹⁾	295
295										9.4 ⁽¹¹⁾		11.2 ⁽¹¹⁾	300
300										7.9 ⁽¹¹⁾		10.0 ⁽¹¹⁾	305
305										6.4 ⁽¹¹⁾		5.4 ⁽⁹⁾	310
310													

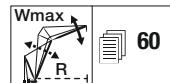
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



	S 138														
	W 59		W 79		W 98		W 118		W 138		W 157				
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax			
34	454.0	454.0 ⁽¹⁾													34
36	429.0	430.0 ⁽¹⁾													36
38	407.0	407.0	390.0												38
40	387.0	387.0 ⁽²⁾	371.0	371.0 ⁽¹⁾											40
45	344.0	344.0 ⁽³⁾	331.0	331.0	318.0	318.0 ⁽¹⁾									45
50	310.0	310.0	298.0	298.0	287.0	287.0	278.0	278.0 ⁽¹⁾							50
55	281.0	281.0	271.0	271.0	261.0	261.0	253.0	253.0	245.0	245.0					55
60	258.0	258.0	248.0	248.0	239.0	239.0 ⁽³⁾	232.0	232.0 ⁽²⁾	224.0	224.0	217.0	217.0 ⁽¹⁾			60
65	238.0	238.0	229.0	229.0	221.0	221.0	214.0	214.0	207.0	207.0	201.0	201.0			65
70	221.0	221.0	212.0	212.0 ⁽⁶⁾	205.0	205.0	199.0	199.0	192.0	192.0	186.0	186.0			70
75	200.0*	200.0 ⁽¹¹⁾	198.0	198.0	191.0	191.0	185.0	185.0	179.0	179.0	174.0	174.0			75
80		183.0 ⁽¹¹⁾	185.0	185.0	178.0	178.0	173.0	173.0	168.0	168.0	162.0	162.0			80
85		165.0 ⁽¹¹⁾	172.0	172.0 ⁽¹⁰⁾	167.0	167.0	162.0	162.0	157.0	157.0	152.0	152.0 ⁽³⁾			85
90		149.0 ⁽¹¹⁾	160.0	160.0	157.0	157.0	153.0	153.0	148.0	148.0	143.0	143.0			90
95		137.0 ⁽¹¹⁾	146.0*	146.0	146.0	146.0 ⁽⁸⁾	144.0	144.0 ⁽⁶⁾	139.0	139.0	135.0	135.0			95
100		124.0 ⁽¹¹⁾		134.0 ⁽¹¹⁾	137.0	137.0	135.0	135.0	132.0	132.0	128.0	128.0			100
105		114.0 ⁽¹¹⁾		123.0 ⁽¹¹⁾	128.0	128.0	127.0	127.0	125.0	125.0	121.0	121.0			105
110		106.0 ⁽¹¹⁾		112.0 ⁽¹¹⁾	121.0	121.0	119.0	119.0 ⁽⁸⁾	117.0	117.0	115.0	115.0			110
115		97.3 ⁽¹¹⁾		104.0 ⁽¹¹⁾	111.0*	111.0	112.0	112.0 ⁽⁹⁾	110.0	110.0 ⁽⁷⁾	108.0	108.0			115
120		88.8 ⁽¹¹⁾		95.2 ⁽¹¹⁾		102.0 ⁽¹¹⁾	106.0	106.0 ⁽¹⁰⁾	104.0	104.0	102.0	102.0 ⁽⁶⁾			120
125		80.3 ⁽¹¹⁾		88.3 ⁽¹¹⁾		93.9 ⁽¹¹⁾	101.0	101.0	98.3	98.3	96.3	96.3			125
130		74.2 ⁽⁹⁾		82.0 ⁽¹¹⁾		86.9 ⁽¹¹⁾	95.3	95.3	93.2	93.2 ⁽⁹⁾	91.1	91.1			130
135		68.6 ⁽⁹⁾		75.7 ⁽¹¹⁾		80.5 ⁽¹¹⁾	88.0*	88.0	88.4	88.4	86.4	86.4			135
140		62.9 ⁽⁹⁾		69.4 ⁽¹¹⁾		74.2 ⁽¹¹⁾		80.4 ⁽¹¹⁾	84.0	84.0	82.0	82.0			140
145		57.3 ⁽⁸⁾		63.2 ⁽¹¹⁾		69.1 ⁽¹¹⁾		74.3 ⁽¹¹⁾	80.0	80.0	78.0	78.0			145
150		52.6 ⁽⁷⁾		58.3 ⁽⁹⁾		64.2 ⁽¹¹⁾		69.2 ⁽¹¹⁾	76.3	76.3	74.2	74.2			150
155		48.4 ⁽⁷⁾		53.9 ⁽⁹⁾		59.3 ⁽¹¹⁾		64.2 ⁽¹¹⁾	70.6*	70.6	70.8	70.8			155
160		44.3 ⁽⁷⁾		49.5 ⁽⁹⁾		54.4 ⁽¹¹⁾		59.3 ⁽¹¹⁾		63.7 ⁽¹¹⁾	67.5	67.5			160
165		40.1 ⁽⁶⁾		45.0 ⁽⁹⁾		49.5 ⁽¹¹⁾		55.3 ⁽¹¹⁾		59.0 ⁽¹¹⁾	64.6	64.6			165
170				41.1 ⁽⁷⁾		45.4 ⁽⁹⁾		51.3 ⁽¹¹⁾		55.0 ⁽¹¹⁾	61.8	61.8			170
175				37.7 ⁽⁷⁾		41.8 ⁽⁹⁾		47.3 ⁽¹¹⁾		50.9 ⁽¹¹⁾	57.1*	57.1			175
180				34.4 ⁽⁷⁾		38.2 ⁽⁹⁾		43.3 ⁽¹¹⁾		47.0 ⁽¹¹⁾		50.8 ⁽¹¹⁾			180
185				31.0 ⁽⁷⁾		34.6 ⁽⁹⁾		38.8 ⁽⁹⁾		43.7 ⁽¹¹⁾		47.1 ⁽¹¹⁾			185
190						31.2 ⁽⁷⁾		35.7 ⁽⁹⁾		40.4 ⁽¹¹⁾		43.8 ⁽¹¹⁾			190
195						28.4 ⁽⁷⁾		32.7 ⁽⁹⁾		37.0 ⁽¹¹⁾		40.4 ⁽¹¹⁾			195
200						25.6 ⁽⁷⁾		29.7 ⁽⁹⁾		33.7 ⁽¹¹⁾		37.3 ⁽¹¹⁾			200
205								26.7 ⁽⁹⁾		29.8 ⁽⁹⁾		34.4 ⁽¹¹⁾			205
210								23.9 ⁽⁷⁾		27.3 ⁽⁹⁾		31.6 ⁽¹¹⁾			210
215								21.7 ⁽⁷⁾		24.9 ⁽⁹⁾		28.8 ⁽¹¹⁾			215
220								19.5 ⁽⁷⁾		22.4 ⁽⁹⁾		25.9 ⁽¹¹⁾			220
225										19.9 ⁽⁹⁾		22.6 ⁽⁹⁾			225
230										17.3 ⁽⁷⁾		20.6 ⁽⁹⁾			230
235										15.3 ⁽⁷⁾		18.7 ⁽⁹⁾			235
240										13.4 ⁽⁷⁾		16.7 ⁽⁹⁾			240
245												14.8 ⁽⁹⁾			245
250												12.1 ⁽⁷⁾			250
255												10.2 ⁽⁷⁾			255
260												8.3 ⁽⁷⁾			260

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

		88,200 lb		374,800 lb
		330,700 lb		286,600 lb

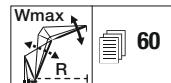


S 138

 ft	W 177		W 197		W 217		W 236		W 256		W 276		 ft
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
65	195.0	195.0 ⁽¹⁾											65
70	181.0	181.0	176.0	176.0 ⁽¹⁾									70
75	169.0	169.0	164.0	164.0	159.0	159.0 ⁽¹⁾							75
80	158.0	158.0	154.0	154.0	149.0	149.0	143.0	143.0 ⁽¹⁾					80
85	148.0	148.0	144.0	144.0	139.0	139.0	135.0	135.0	125.0	125.0			85
90	139.0	139.0	136.0	136.0	131.0	131.0	127.0	127.0	122.0	122.0	107.0	107.0 ⁽¹⁾	90
95	131.0	131.0 ⁽³⁾	128.0	128.0	123.0	123.0 ⁽²⁾	120.0	120.0	116.0	116.0	105.0	105.0	95
100	124.0	124.0	121.0	121.0	116.0	116.0	113.0	113.0 ⁽²⁾	110.0	110.0	103.0	103.0	100
105	117.0	117.0	114.0	114.0 ⁽³⁾	110.0	110.0	107.0	107.0	104.0	104.0	100.0	100.0	105
110	111.0	111.0	109.0	109.0	104.0	104.0 ⁽³⁾	101.0	101.0	98.3	98.3	94.9	94.9	110
115	106.0	106.0	103.0	103.0	99.1	99.1	95.9	95.9	93.1	93.1	90.0	90.0	115
120	100.0	100.0	98.1	98.1	94.1	94.1	91.2	91.2	88.4	88.4	85.3	85.3	120
125	94.4	94.4	93.1	93.1	89.6	89.6	86.7	86.7	84.0	84.0	81.1	81.1	125
130	89.3	89.3	88.0	88.0	85.2	85.2	82.5	82.5	79.8	79.8	77.0	77.0	130
135	84.5	84.5	83.3	83.3	80.9	80.9	78.6	78.6	76.1	76.1	73.3	73.3 ⁽³⁾	135
140	80.2	80.2	79.0	79.0	76.5	76.5	74.7	74.7	72.4	72.4	69.7	69.7	140
145	76.1	76.1	75.0	75.0	72.5	72.5	70.8	70.8	68.9	68.9	66.5	66.5	145
150	72.4	72.4	71.3	71.3	68.9	68.9	67.0	67.0	65.4	65.4	63.3	63.3	150
155	69.0	69.0	67.8	67.8	65.5	65.5	63.7	63.7	61.9	61.9	60.0	60.0	155
160	65.7	65.7	64.6	64.6	62.2	62.2	60.5	60.5	58.8	58.8	56.9	56.9	160
165	62.7	62.7	61.6	61.6	59.3	59.3	57.5	57.5	55.8	55.8 ⁽⁵⁾	53.9	53.9	165
170	59.9	59.9	58.8	58.8	56.4	56.4	54.7	54.7	53.0	53.0	51.2	51.2	170
175	57.2	57.2	56.1	56.1	53.8	53.8	52.1	52.1	50.4	50.4	48.6	48.6	175
180	54.8	54.8	53.6	53.6	51.3	51.3	49.6	49.6	48.0	48.0	46.2	46.2	180
185	52.5	52.5	51.3	51.3	49.0	49.0	47.3	47.3 ⁽⁷⁾	45.7	45.7	43.9	43.9	185
190	50.3	50.3	49.1	49.1	46.8	46.8	45.1	45.1	43.5	43.5	41.7	41.7	190
195	46.4*	46.4	47.0	47.0 ⁽¹¹⁾	44.8	44.8	43.1	43.1	41.4	41.4	39.7	39.7 ⁽⁶⁾	195
200		40.5 ⁽¹¹⁾	45.1	45.1	42.8	42.8	41.1	41.1	39.5	39.5	37.7	37.7	200
205		37.5 ⁽¹¹⁾	43.3	43.3	41.0	41.0	39.3	39.3	37.7	37.7	35.9	35.9	205
210		34.6 ⁽¹¹⁾	41.6	41.6	39.2	39.2	37.5	37.5	35.9	35.9	34.2	34.2	210
215		31.8 ⁽¹¹⁾	38.2*	38.2	37.6	37.6	35.9	35.9	34.2	34.2	32.5	32.5	215
220		29.2 ⁽¹¹⁾		32.5 ⁽¹¹⁾	36.0	36.0	34.3	34.3	32.6	32.6	30.9	30.9	220
225		26.9 ⁽¹¹⁾		30.0 ⁽¹¹⁾	34.6	34.6	32.8	32.8	31.2	31.2	29.4	29.4	225
230		24.6 ⁽¹¹⁾		27.6 ⁽¹¹⁾	33.3	33.3	31.4	31.4	29.7	29.7	28.0	28.0	230
235		22.2 ⁽¹¹⁾		25.1 ⁽¹¹⁾	30.3*	30.3	30.1	30.1	28.4	28.4	26.7	26.7	235
240		19.9 ⁽¹¹⁾		23.1 ⁽¹¹⁾		24.8 ⁽¹¹⁾	28.9	28.9	27.1	27.1	25.4	25.4	240
245		16.9 ⁽⁹⁾		21.2 ⁽¹¹⁾		22.9 ⁽¹¹⁾	27.7	27.7	25.8	25.8	24.1	24.1	245
250		15.1 ⁽⁹⁾		19.3 ⁽¹¹⁾		20.9 ⁽¹¹⁾	26.7	26.7	24.7	24.7	23.0	23.0	250
255		13.3 ⁽⁹⁾		17.4 ⁽¹¹⁾		19.0 ⁽¹¹⁾	24.1*	24.1	23.6	23.6	21.9	21.9	255
260		11.5 ⁽⁹⁾		15.4 ⁽¹¹⁾		17.3 ⁽¹¹⁾		19.2 ⁽¹¹⁾	22.5	22.5	21.0	21.0	260
265		12.7 ⁽⁹⁾		15.7 ⁽¹¹⁾		17.6 ⁽¹¹⁾		21.7	21.7	20.1	20.1	265	
270		11.0 ⁽⁹⁾		14.0 ⁽¹¹⁾		16.0 ⁽¹¹⁾		21.0	21.0	19.3	19.3	270	
275		9.3 ⁽⁹⁾		12.4 ⁽¹¹⁾		14.4 ⁽¹¹⁾		18.9*	18.9	18.5	18.5	275	
280		7.6 ⁽⁹⁾		10.7 ⁽¹¹⁾		12.9 ⁽¹¹⁾			14.5 ⁽¹¹⁾	17.8	17.8	280	
285						11.3 ⁽¹¹⁾			13.1 ⁽¹¹⁾	17.2	17.2	285	
290						9.7 ⁽¹¹⁾			11.7 ⁽¹¹⁾	16.6	16.6	290	
295						8.2 ⁽¹¹⁾			6.7 ⁽⁸⁾	14.8*	14.8	295	
300						6.6 ⁽¹¹⁾					10.3 ⁽¹¹⁾	300	
305											9.0 ⁽¹¹⁾	305	
310											7.7 ⁽¹¹⁾	310	

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

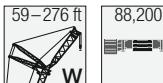
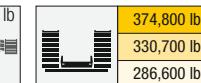
	98-217 ft		59-276 ft		88,200 lb		374,800 lb		330,700 lb		286,600 lb
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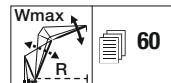


60

	S 157												
	W 59		W 79		W 98		W 118		W 138		W 157		
ft	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	ft
34	432.0												34
36	409.0	409.0 ⁽¹⁾											36
38	388.0	388.0											38
40	370.0	370.0	356.0	356.0 ⁽¹⁾									40
45	330.0	330.0 ⁽³⁾	318.0	318.0	306.0								45
50	297.0	297.0 ⁽⁴⁾	287.0	287.0	276.0	276.0	268.0						50
55	271.0	271.0	262.0	262.0	252.0	252.0 ⁽²⁾	245.0	245.0	193.0				55
60	248.0	248.0	240.0	240.0	232.0	232.0	225.0	225.0 ⁽²⁾	217.0	217.0			60
65	229.0	229.0	222.0	222.0	214.0	214.0	208.0	208.0	201.0	201.0	195.0	195.0	65
70	213.0	213.0	206.0	206.0 ⁽⁶⁾	198.0	198.0 ⁽⁴⁾	193.0	193.0 ⁽³⁾	187.0	187.0	181.0	181.0	70
75	201.0	201.0	192.0	192.0 ⁽⁷⁾	185.0	185.0	180.0	180.0	174.0	174.0	169.0	169.0	75
80	180.0*	180.0	180.0	180.0	173.0	173.0	168.0	168.0 ⁽⁴⁾	163.0	163.0	158.0	158.0	80
85		163.0 ⁽¹¹⁾	169.0	169.0	163.0	163.0	158.0	158.0	153.0	153.0	148.0	148.0	85
90		148.0 ⁽¹¹⁾	158.0	158.0 ⁽¹¹⁾	153.0	153.0	149.0	149.0	144.0	144.0	140.0	140.0	90
95		134.0 ⁽¹¹⁾	143.0*	144.0 ⁽¹¹⁾	145.0	145.0	141.0	141.0	136.0	136.0	132.0	132.0	95
100		123.0 ⁽¹¹⁾	134.0*	134.0	135.0	135.0 ⁽⁹⁾	133.0	133.0	128.0	128.0 ⁽⁵⁾	125.0	125.0	100
105		112.0 ⁽¹¹⁾		122.0 ⁽¹¹⁾	127.0	127.0	126.0	126.0	122.0	122.0	118.0	118.0	105
110		103.0 ⁽¹¹⁾		111.0 ⁽¹¹⁾	119.0	119.0	118.0	118.0 ⁽⁸⁾	116.0	116.0	112.0	112.0 ⁽⁵⁾	110
115		95.2 ⁽¹¹⁾		102.0 ⁽¹¹⁾	109.0*	109.0 ⁽¹¹⁾	111.0	111.0 ⁽⁹⁾	109.0	109.0	106.0	106.0	115
120		87.7 ⁽¹¹⁾		94.4 ⁽¹¹⁾		101.0 ⁽¹¹⁾	105.0	105.0	103.0	103.0	101.0	101.0	120
125		80.3 ⁽¹¹⁾		86.4 ⁽¹¹⁾		93.3 ⁽¹¹⁾	99.4	99.4	97.4	97.4	95.4	95.4	125
130		72.8 ⁽¹¹⁾		80.1 ⁽¹¹⁾		85.4 ⁽¹¹⁾	94.3	94.3	92.2	92.2	90.3	90.3 ⁽⁷⁾	130
135		65.8 ⁽⁹⁾		74.4 ⁽¹¹⁾		79.4 ⁽¹¹⁾	86.6*	86.6	87.5	87.5	85.5	85.5	135
140		60.9 ⁽⁹⁾		68.7 ⁽¹¹⁾		73.4 ⁽¹¹⁾		79.7 ⁽¹¹⁾	83.1	83.1	81.2	81.2	140
145		56.0 ⁽⁹⁾		63.0 ⁽¹¹⁾		67.3 ⁽¹¹⁾		73.7 ⁽¹¹⁾	79.1	79.1	77.2	77.2	145
150		51.2 ⁽⁹⁾		57.4 ⁽¹¹⁾		62.6 ⁽¹¹⁾		68.0 ⁽¹¹⁾	75.4	75.4	73.5	73.5	150
155		46.3 ⁽⁸⁾		51.9 ⁽⁹⁾		58.1 ⁽¹¹⁾		63.3 ⁽¹¹⁾	69.3*	69.3	70.0	70.0	155
160		42.0 ⁽⁷⁾		48.0 ⁽⁹⁾		53.6 ⁽¹¹⁾		58.5 ⁽¹¹⁾		63.1 ⁽¹¹⁾	66.8	66.8	160
165		38.5 ⁽⁷⁾		44.1 ⁽⁹⁾		49.1 ⁽¹¹⁾		53.8 ⁽¹¹⁾		58.3 ⁽¹¹⁾	63.8	63.8	165
170		35.0 ⁽⁷⁾		40.2 ⁽⁹⁾		44.6 ⁽¹¹⁾		50.0 ⁽¹¹⁾		54.0 ⁽¹¹⁾	61.1	61.1	170
175		31.5 ⁽⁷⁾		36.3 ⁽⁹⁾		40.1 ⁽⁹⁾		46.3 ⁽¹¹⁾		50.1 ⁽¹¹⁾	56.1*	56.1	175
180				32.6 ⁽⁷⁾		36.8 ⁽⁹⁾		42.6 ⁽¹¹⁾		46.2 ⁽¹¹⁾		50.3 ⁽¹¹⁾	180
185				29.7 ⁽⁷⁾		33.6 ⁽⁹⁾		38.9 ⁽¹¹⁾		42.4 ⁽¹¹⁾		46.4 ⁽¹¹⁾	185
190				26.8 ⁽⁷⁾		30.4 ⁽⁹⁾		35.2 ⁽¹¹⁾		39.3 ⁽¹¹⁾		43.0 ⁽¹¹⁾	190
195				23.9 ⁽⁷⁾		27.1 ⁽⁹⁾		31.3 ⁽⁹⁾		36.2 ⁽¹¹⁾		39.7 ⁽¹¹⁾	195
200						24.0 ⁽⁷⁾		28.7 ⁽⁹⁾		33.0 ⁽¹¹⁾		36.4 ⁽¹¹⁾	200
205						21.8 ⁽⁷⁾		26.0 ⁽⁹⁾		29.9 ⁽¹¹⁾		33.4 ⁽¹¹⁾	205
210						19.5 ⁽⁷⁾		23.3 ⁽⁹⁾		26.7 ⁽¹¹⁾		30.8 ⁽¹¹⁾	210
215						17.2 ⁽⁷⁾		20.7 ⁽⁹⁾		23.5 ⁽⁹⁾		28.2 ⁽¹¹⁾	215
220								17.9 ⁽⁷⁾		21.4 ⁽⁹⁾		25.6 ⁽¹¹⁾	220
225								15.8 ⁽⁷⁾		19.3 ⁽⁹⁾		23.0 ⁽¹¹⁾	225
230								13.8 ⁽⁷⁾		17.2 ⁽⁹⁾		20.4 ⁽¹¹⁾	230
235								11.8 ⁽⁷⁾		15.1 ⁽⁹⁾		17.4 ⁽⁹⁾	235
240										12.4 ⁽⁷⁾		15.6 ⁽⁹⁾	240
245										10.4 ⁽⁷⁾		13.7 ⁽⁹⁾	245
250										8.4 ⁽⁷⁾		11.8 ⁽⁹⁾	250
255										6.5 ⁽⁷⁾		9.9 ⁽⁹⁾	255

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

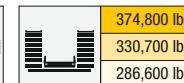
		
98–217 ft S	59–276 ft W	88,200 lb 374,800 lb 330,700 lb 286,600 lb

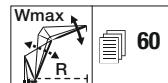


S 157

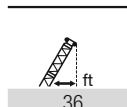
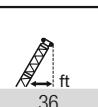
ft	W 177		W 197		W 217		W 236		W 256		W 276		ft
	87/85*	Wmax	87/85*	Wmax									
70	175.0	175.0											70
75	163.0	163.0	159.0	159.0									75
80	152.0	152.0	149.0	149.0	144.0	144.0	136.0						80
85	143.0	143.0	140.0	140.0	135.0	135.0	131.0	131.0	118.0				85
90	135.0	135.0	132.0	132.0	127.0	127.0	123.0	123.0	116.0	116.0	102.0		90
95	127.0	127.0 ⁽³⁾	124.0	124.0	119.0	119.0 ⁽²⁾	116.0	116.0	112.0	112.0	100.0	100.0	95
100	120.0	120.0	117.0	117.0	113.0	113.0	109.0	109.0	106.0	106.0	98.6	98.6	100
105	114.0	114.0	111.0	111.0	107.0	107.0	103.0	103.0	100.0	100.0	96.6	96.6	105
110	108.0	108.0	105.0	105.0	101.0	101.0	97.9	97.9	95.0	95.0	91.7	91.7	110
115	102.0	102.0	100.0	100.0	95.9	95.9	92.8	92.8	90.0	90.0	86.9	86.9	115
120	97.4	97.4	95.1	95.1	91.2	91.2	88.2	88.2	85.5	85.5	82.5	82.5	120
125	92.6	92.6	90.5	90.5	86.8	86.8	83.9	83.9	81.2	81.2	78.3	78.3	125
130	87.8	87.8	86.3	86.3	82.7	82.7	79.8	79.8	77.2	77.2	74.4	74.4	130
135	83.1	83.1	81.9	81.9	78.8	78.8	76.1	76.1	73.5	73.5	70.8	70.8	135
140	78.8	78.8	77.6	77.6	75.1	75.1	72.5	72.5	70.0	70.0	67.3	67.3	140
145	74.8	74.8	73.7	73.7	71.2	71.2	69.2	69.2	66.8	66.8	64.2	64.2	145
150	71.1	71.1	70.0	70.0	67.6	67.6	65.7	65.7	63.7	63.7	61.1	61.1	150
155	67.7	67.7	66.6	66.6	64.2	64.2	62.4	62.4	60.6	60.6	58.3	58.3	155
160	64.5	64.5	63.4	63.4	61.0	61.0	59.2	59.2	57.6	57.6	55.5	55.5	160
165	61.5	61.5	60.4	60.4	58.1	58.1	56.3	56.3	54.6	54.6	52.7	52.7	165
170	58.7	58.7	57.6	57.6	55.3	55.3	53.5	53.5	51.9	51.9	50.0	50.0	170
175	56.1	56.1	55.0	55.0	52.7	52.7	50.9	50.9	49.3	49.3	47.4	47.4	175
180	53.7	53.7	52.6	52.6	50.2	50.2	48.5	48.5	46.9	46.9	45.0	45.0	180
185	51.4	51.4	50.2	50.2	47.9	47.9	46.2	46.2	44.6	44.6	42.8	42.8	185
190	49.3	49.3	48.1	48.1	45.8	45.8	44.1	44.1	42.4	42.4	40.6	40.6	190
195	45.0*	45.0	46.0	46.0	43.7	43.7	42.0	42.0	40.4	40.4	38.6	38.6	195
200		39.5 ⁽¹¹⁾	44.1	44.1	41.8	41.8	40.1	40.1	38.5	38.5	36.7	36.7	200
205		36.2 ⁽¹¹⁾	42.3	42.3	40.0	40.0	38.3	38.3	36.7	36.7	34.9	34.9	205
210		33.5 ⁽¹¹⁾	40.6	40.6	38.2	38.2	36.5	36.5	34.9	34.9	33.2	33.2	210
215		30.7 ⁽¹¹⁾	36.9*	36.9	36.6	36.6	34.9	34.9	33.3	33.3	31.5	31.5	215
220		27.9 ⁽¹¹⁾		31.6 ⁽¹¹⁾	35.1	35.1	33.4	33.4	31.7	31.7	30.0	30.0	220
225		25.5 ⁽¹¹⁾		28.9 ⁽¹¹⁾	33.6	33.6	31.9	31.9	30.2	30.2	28.5	28.5	225
230		23.4 ⁽¹¹⁾		26.6 ⁽¹¹⁾	32.3	32.3	30.5	30.5	28.8	28.8	27.1	27.1	230
235		21.3 ⁽¹¹⁾		24.2 ⁽¹¹⁾	29.1*	29.1	29.2	29.2	27.5	27.5	25.8	25.8	235
240		19.1 ⁽¹¹⁾		21.9 ⁽¹¹⁾		23.8 ⁽¹¹⁾	28.0	28.0	26.2	26.2	24.5	24.5	240
245		17.0 ⁽¹¹⁾		19.9 ⁽¹¹⁾		21.7 ⁽¹¹⁾	26.8	26.8	25.0	25.0	23.3	23.3	245
250		14.9 ⁽¹¹⁾		18.1 ⁽¹¹⁾		19.9 ⁽¹¹⁾	25.8	25.8	23.8	23.8 ⁽¹¹⁾	22.2	22.2	250
255		12.1 ⁽⁹⁾		16.4 ⁽¹¹⁾		18.1 ⁽¹¹⁾	22.9*	22.9	22.7	22.7	21.2	21.2	255
260		10.3 ⁽⁹⁾		14.6 ⁽¹¹⁾		16.3 ⁽¹¹⁾		18.4 ⁽¹¹⁾	21.8	21.8	20.3	20.3	260
265		8.5 ⁽⁹⁾		12.8 ⁽¹¹⁾		14.6 ⁽¹¹⁾		16.7 ⁽¹¹⁾	21.0	21.0	19.4	19.4	265
270				11.0 ⁽¹¹⁾		12.9 ⁽¹¹⁾		15.1 ⁽¹¹⁾	20.2	20.2	18.6	18.6	270
275						11.2 ⁽¹¹⁾		13.6 ⁽¹¹⁾	18.0*	18.0	17.9	17.9	275
280						9.5 ⁽¹¹⁾		8.3 ⁽⁸⁾		13.7 ⁽¹¹⁾	17.2	17.2	280
285						7.8 ⁽¹¹⁾		6.8 ⁽⁸⁾		12.2 ⁽¹¹⁾	16.5	16.5	285
290						6.1 ⁽¹¹⁾				10.7 ⁽¹¹⁾	15.9	15.9	290
295										9.3 ⁽¹¹⁾	13.9*	13.9	295
300											9.5 ⁽¹¹⁾	300	
305											7.9 ⁽¹¹⁾	305	
310											6.3 ⁽¹¹⁾	310	

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

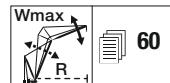
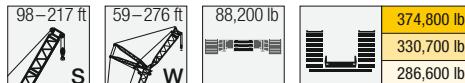
		
S	W	L



60

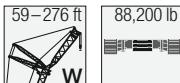
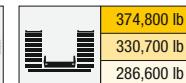
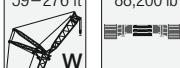
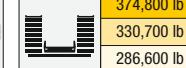
 ft	S 177														 ft	
	W 59		W 79		W 98		W 118		W 138		W 157					
87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
36	390.0	391.0 ⁽¹⁾													36	
38	371.0	371.0 ⁽¹⁾													38	
40	354.0	354.0	341.0												40	
45	317.0	317.0	305.0	305.0	294.0										45	
50	286.0	286.0 ⁽⁴⁾	276.0	276.0	266.0	266.0									50	
55	261.0	261.0 ⁽⁵⁾	252.0	252.0	252.0 ⁽³⁾	243.0	243.0 ⁽²⁾	236.0	236.0						55	
60	240.0	240.0	232.0	232.0 ⁽⁴⁾	224.0	224.0	217.0	217.0	209.0	209.0					60	
65	222.0	222.0 ⁽⁸⁾	215.0	215.0	207.0	207.0	201.0	201.0	194.0	194.0	188.0	188.0			65	
70	207.0	207.0	199.0	199.0	192.0	192.0 ⁽⁴⁾	187.0	187.0	180.0	180.0	175.0	175.0			70	
75	194.0	194.0	186.0	186.0	179.0	179.0	175.0	175.0	168.0	168.0	163.0	163.0 ⁽²⁾			75	
80	174.0*	174.0 ⁽¹¹⁾	174.0	174.0 ⁽⁸⁾	168.0	168.0	163.0	163.0 ⁽⁴⁾	157.0	157.0 ⁽³⁾	153.0	153.0			80	
85		160.0 ⁽¹¹⁾	164.0	164.0	158.0	158.0	154.0	154.0	148.0	148.0	143.0	143.0			85	
90		146.0 ⁽¹¹⁾	155.0	155.0 ⁽¹¹⁾	149.0	149.0	145.0	145.0	139.0	139.0 ⁽⁴⁾	135.0	135.0			90	
95		132.0 ⁽¹¹⁾	146.0	146.0	141.0	141.0 ⁽⁸⁾	137.0	137.0	131.0	131.0	127.0	127.0			95	
100		122.0 ⁽¹¹⁾	132.0*	132.0	133.0	133.0 ⁽⁸⁾	130.0	130.0	124.0	124.0 ⁽⁵⁾	121.0	121.0			100	
105		111.0 ⁽¹¹⁾		121.0 ⁽¹¹⁾	126.0	126.0	123.0	123.0	118.0	118.0	114.0	114.0			105	
110		101.0 ⁽¹¹⁾			111.0 ⁽¹¹⁾	118.0	118.0	117.0	117.0 ⁽⁸⁾	112.0	112.0	108.0	108.0			110
115		92.7 ⁽¹¹⁾			100.0 ⁽¹¹⁾	111.0	111.0	110.0	110.0	107.0	107.0	103.0	103.0			115
120		86.0 ⁽¹¹⁾			93.1 ⁽¹¹⁾	101.0*	101.0	104.0	104.0	101.0	101.0	98.2	98.2			120
125		79.3 ⁽¹¹⁾			85.6 ⁽¹¹⁾		92.5 ⁽¹¹⁾	98.5	98.5	95.9	95.9	93.7	93.7			125
130		72.6 ⁽¹¹⁾			78.2 ⁽¹¹⁾		85.0 ⁽¹¹⁾	93.3	93.3	90.8	90.8	88.8	88.8			130
135		65.9 ⁽¹⁰⁾			72.3 ⁽¹¹⁾		78.0 ⁽¹¹⁾	88.5	88.5	86.1	86.1	84.2	84.2			135
140		59.3 ⁽¹⁰⁾			67.1 ⁽¹¹⁾		72.3 ⁽¹¹⁾	81.0*	81.0	81.8	81.8	79.9	79.9			140
145		53.9 ⁽⁹⁾			61.9 ⁽¹¹⁾		66.6 ⁽¹¹⁾		73.1 ⁽¹¹⁾	77.8	77.8	75.9	75.9			145
150		49.6 ⁽⁹⁾			56.8 ⁽¹¹⁾		60.9 ⁽¹¹⁾		67.3 ⁽¹¹⁾	74.1	74.1	72.2	72.2			150
155		45.3 ⁽⁹⁾			51.6 ⁽¹¹⁾		56.5 ⁽¹¹⁾		62.2 ⁽¹¹⁾	67.7*	67.7	68.8	68.8			155
160		41.1 ⁽⁹⁾			46.4 ⁽¹¹⁾		52.3 ⁽¹¹⁾		57.6 ⁽¹¹⁾	64.6*	64.6	65.6	65.6			160
165		36.8 ⁽⁸⁾			42.0 ⁽⁹⁾		48.1 ⁽¹¹⁾		53.0 ⁽¹¹⁾		57.3 ⁽¹¹⁾	62.7	62.7			165
170		32.8 ⁽⁷⁾			38.5 ⁽⁹⁾		43.9 ⁽¹¹⁾		48.5 ⁽¹¹⁾		52.7 ⁽¹¹⁾	59.9	59.9			170
175		29.8 ⁽⁷⁾			35.0 ⁽⁹⁾		39.7 ⁽¹¹⁾		45.0 ⁽¹¹⁾		48.7 ⁽¹¹⁾	54.6*	54.6			175
180		26.9 ⁽⁷⁾			31.5 ⁽⁹⁾		35.5 ⁽¹¹⁾		41.5 ⁽¹¹⁾		44.9 ⁽¹¹⁾	52.3*	52.3			180
185		24.0 ⁽⁷⁾			28.0 ⁽⁹⁾		31.9 ⁽⁸⁾		38.0 ⁽¹¹⁾		41.2 ⁽¹¹⁾		45.4 ⁽¹¹⁾			185
190		21.1 ⁽⁶⁾			24.6 ⁽⁷⁾		29.1 ⁽⁸⁾		34.5 ⁽¹¹⁾		37.6 ⁽¹¹⁾		41.6 ⁽¹¹⁾			190
195					22.2 ⁽⁷⁾		26.3 ⁽⁸⁾		31.0 ⁽¹¹⁾		34.7 ⁽¹¹⁾		38.4 ⁽¹¹⁾			195
200					19.8 ⁽⁷⁾		23.4 ⁽⁸⁾		27.5 ⁽¹¹⁾		31.8 ⁽¹¹⁾		35.3 ⁽¹¹⁾			200
205					17.4 ⁽⁷⁾		20.6 ⁽⁸⁾		24.5 ⁽⁹⁾		28.9 ⁽¹¹⁾		32.1 ⁽¹¹⁾			205
210					14.9 ⁽⁷⁾		17.6 ⁽⁸⁾		22.2 ⁽⁹⁾		26.0 ⁽¹¹⁾		29.2 ⁽¹¹⁾			210
215							15.4 ⁽⁷⁾		19.9 ⁽⁹⁾		23.1 ⁽¹¹⁾		26.8 ⁽¹¹⁾			215
220							13.3 ⁽⁷⁾		17.7 ⁽⁹⁾		20.2 ⁽¹¹⁾		24.4 ⁽¹¹⁾			220
225							11.1 ⁽⁷⁾		15.4 ⁽⁹⁾		17.4 ⁽⁹⁾		22.1 ⁽¹¹⁾			225
230							9.0 ⁽⁷⁾		12.7 ⁽⁷⁾		15.4 ⁽⁹⁾		19.7 ⁽¹¹⁾			230
235									10.6 ⁽⁷⁾		13.4 ⁽⁹⁾		17.3 ⁽¹¹⁾			235
240											11.4 ⁽⁹⁾		15.0 ⁽¹¹⁾			240
245											9.4 ⁽⁹⁾		12.2 ⁽⁹⁾			245

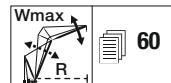
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



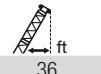
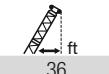
ft	S 177												ft	
	W 177		W 197		W 217		W 236		W 256		W 276			
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax		
70	170.0	170.0											70	
75	158.0	158.0	153.0	153.0									75	
80	148.0	148.0	144.0	144.0	138.0	138.0							80	
85	139.0	139.0	135.0	135.0	130.0	130.0	122.0	122.0					85	
90	131.0	131.0	127.0	127.0	122.0	122.0	119.0	119.0	106.0	106.0			90	
95	124.0	124.0	120.0	120.0	115.0	115.0 ⁽²⁾	112.0	112.0	104.0	104.0	91.8	91.8	95	
100	117.0	117.0	113.0	113.0	109.0	109.0	105.0	105.0	102.0	102.0	90.1	90.1	100	
105	111.0	111.0	107.0 ⁽³⁾	107.0 ⁽³⁾	103.0	103.0	99.8	99.8	96.7	96.7	88.5	88.5	105	
110	105.0	105.0 ⁽⁴⁾	102.0	102.0	97.7	97.7	94.5	94.5	91.7	91.7	87.0	87.0	110	
115	99.9	99.9	96.7	96.7	92.7	92.7	89.6	89.6	86.9	86.9	83.7	83.7	115	
120	95.1	95.1	92.0	92.0	88.1	88.1	85.1	85.1	82.5	82.5	79.5	79.5	120	
125	90.6	90.6	87.6	87.6	83.9	83.9	80.9	80.9	78.3	78.3	75.4	75.4	125	
130	86.5	86.5	83.5	83.5	79.9	79.9	77.0	77.0	74.5	74.5	71.7	71.7	130	
135	82.4	82.4	79.7	79.7	76.1	76.1	73.4	73.4	70.9	70.9	68.1	68.1	135	
140	78.1	78.1	76.1	76.1	72.7	72.7	69.9	69.9	67.5	67.5	64.8	64.8	140	
145	74.2	74.2 ⁽⁷⁾	72.4	72.4	69.4	69.4	66.7	66.7	64.4	64.4	61.8	61.8	145	
150	70.5	70.5	68.7	68.7	66.2	66.2	63.7	63.7	61.4	61.4	58.8	58.8	150	
155	67.1	67.1	65.4	65.4	62.9	62.9	60.8	60.8	58.6	58.6	56.1	56.1	155	
160	63.9	63.9	62.2	62.2	59.8	59.8	58.0	58.0	56.0	56.0	53.5	53.5	160	
165	61.0	61.0	59.3	59.3	56.8	56.8	55.0	55.0	53.4	53.4	51.0	51.0	165	
170	58.2	58.2	56.5	56.5	54.1	54.1	52.3	52.3	50.7	50.7	48.6	48.6	170	
175	55.6	55.6	53.9	53.9	51.5	51.5	49.8	49.8	48.1	48.1	46.3	46.3	175	
180	53.1	53.1	51.5	51.5	49.1	49.1	47.4	47.4	45.7	45.7	43.9	43.9	180	
185	50.8	50.8	49.2	49.2	46.8	46.8	45.1	45.1	43.5	43.5	41.7	41.7	185	
190	48.7	48.7	47.0	47.0	44.7	44.7	43.0	43.0	41.3	41.3	39.5	39.5	190	
195	44.1*	44.1	45.0	45.0	42.7	42.7	40.9	40.9	39.4	39.4	37.5	37.5	195	
200	42.3*	42.3	43.1	43.1	40.8	40.8	39.0	39.0	37.5	37.5	35.7	35.7	200	
205		35.8 ⁽¹¹⁾	41.3	41.3	39.0	39.0	37.3	37.3	35.7	35.7	33.9	33.9	205	
210		32.7 ⁽¹¹⁾	39.6	39.6	37.3	37.3	35.5	35.5	33.9	33.9	32.2	32.2	210	
215		30.0 ⁽¹¹⁾	35.7*	35.7	35.7	35.7	33.9	33.9	32.3	32.3	30.6	30.6	215	
220		27.2 ⁽¹¹⁾	34.3*	34.3	34.1	34.1	32.4	32.4	30.8	30.8	29.0	29.0	220	
225		24.5 ⁽¹¹⁾		27.9 ⁽¹¹⁾	32.7	32.7	31.0	31.0	29.3	29.3	27.6	27.6	225	
230		22.1 ⁽¹¹⁾		25.4 ⁽¹¹⁾	31.4	31.4	29.6	29.6	27.9	27.9	26.2	26.2	230	
235		20.2 ⁽¹¹⁾		23.3 ⁽¹¹⁾	27.9*	27.9	28.3	28.3	26.6	26.6	24.9	24.9	235	
240		18.2 ⁽¹¹⁾		21.1 ⁽¹¹⁾		23.1 ⁽¹¹⁾	27.1	27.1	25.3	25.3	23.6	23.6	240	
245		16.3 ⁽¹¹⁾		18.9 ⁽¹¹⁾		20.8 ⁽¹¹⁾	25.9	25.9	24.1	24.1	22.4	22.4 ⁽⁹⁾	245	
250		14.4 ⁽¹¹⁾		16.9 ⁽¹¹⁾		18.9 ⁽¹¹⁾	24.9	24.9	23.0	23.0	21.4	21.4	250	
255		12.4 ⁽¹¹⁾		15.0 ⁽¹¹⁾		17.1 ⁽¹¹⁾	21.8*	21.8	22.0	22.0	20.5	20.5	255	
260		10.4 ⁽¹¹⁾		13.2 ⁽¹¹⁾		15.4 ⁽¹¹⁾		17.6 ⁽¹¹⁾	21.1	21.1	19.6	19.6	260	
265				11.3 ⁽¹¹⁾		13.6 ⁽¹¹⁾		15.8 ⁽¹¹⁾	20.3	20.3	18.7	18.7	265	
270				9.5 ⁽¹¹⁾		6.6 ⁽⁷⁾		14.1 ⁽¹¹⁾	19.5	19.5	17.9	17.9	270	
275				7.6 ⁽¹¹⁾				12.5 ⁽¹¹⁾	17.1*	17.1	17.2	17.2	275	
280				5.8 ⁽¹¹⁾				10.9 ⁽¹¹⁾		12.9 ⁽¹¹⁾	16.5	16.5	280	
285								9.3 ⁽¹¹⁾		11.3 ⁽¹¹⁾	15.8	15.8	285	
290										9.5 ⁽¹¹⁾	15.2	15.2	290	
295										7.8 ⁽¹¹⁾	12.9*	12.9	295	
300												8.3 ⁽¹¹⁾	300	
305												5.0 ⁽¹⁰⁾	305	
310												3.4 ⁽¹⁰⁾	310	

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

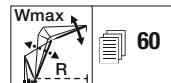
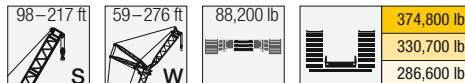
	98-217 ft		59-276 ft		88,200 lb
	330,700 lb		286,600 lb		374,800 lb



S 197

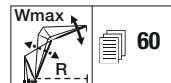
	W 59		W 79		W 98		W 118		W 138		W 157		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
36	373.0												36
38	355.0	355.0 ⁽¹⁾											38
40	339.0	339.0											40
45	304.0	304.0	293.0	293.0									45
50	275.0	275.0	266.0	266.0 ⁽²⁾	257.0	257.0							50
55	252.0	252.0 ⁽⁵⁾	244.0	244.0	235.0	235.0	227.0	227.0					55
60	232.0	232.0	224.0	224.0	216.0	216.0	209.0	209.0	202.0	202.0 ⁽¹⁾			60
65	214.0	214.0	207.0	207.0	200.0	200.0	194.0	194.0	188.0	188.0	181.0	181.0	65
70	200.0	200.0	193.0	193.0	186.0	186.0	180.0	180.0	175.0	175.0	168.0	168.0	70
75	187.0	187.0	180.0	180.0	174.0	174.0	169.0	169.0	163.0	163.0	157.0	157.0	75
80	168.0*	169.0 ⁽¹¹⁾	169.0	169.0	163.0	163.0	158.0	158.0	153.0	153.0 ⁽³⁾	147.0	147.0	80
85		156.0 ⁽¹¹⁾	159.0	159.0 ⁽⁹⁾	153.0	153.0 ⁽⁶⁾	149.0	149.0	144.0	144.0	138.0	138.0	85
90		143.0 ⁽¹¹⁾	151.0	151.0	145.0	145.0	140.0	140.0 ⁽⁵⁾	135.0	135.0	130.0	130.0 ⁽³⁾	90
95		131.0 ⁽¹¹⁾	143.0	143.0	137.0	137.0	132.0	132.0	128.0	128.0	123.0	123.0	95
100		119.0 ⁽¹¹⁾	129.0*	129.0 ⁽¹¹⁾	130.0	130.0	125.0	125.0	121.0	121.0	116.0	116.0 ⁽⁴⁾	100
105		109.0 ⁽¹¹⁾		119.0 ⁽¹¹⁾	123.0	123.0	119.0	119.0 ⁽⁷⁾	115.0	115.0	110.0	110.0	105
110		100.0 ⁽¹¹⁾		109.0 ⁽¹¹⁾	117.0	117.0	113.0	113.0	109.0	109.0 ⁽⁶⁾	105.0	105.0	110
115		90.7 ⁽¹¹⁾		99.9 ⁽¹¹⁾	110.0	110.0	108.0	108.0	104.0	104.0	99.7	99.7	115
120		83.1 ⁽¹¹⁾		91.3 ⁽¹¹⁾	99.8*	99.8	102.0	102.0	99.2	99.2	95.0	95.0	120
125		77.1 ⁽¹¹⁾		84.3 ⁽¹¹⁾		91.6 ⁽¹¹⁾	96.9	96.9	94.7	94.7	90.6	90.6	125
130		71.1 ⁽¹¹⁾		77.4 ⁽¹¹⁾		84.3 ⁽¹¹⁾	91.8	91.8	89.8	89.8	86.5	86.5	130
135		65.1 ⁽¹¹⁾		70.4 ⁽¹¹⁾		77.0 ⁽¹¹⁾	87.0	87.0	85.2	85.2	82.6	82.6	135
140		59.1 ⁽¹⁰⁾		65.0 ⁽¹¹⁾		70.9 ⁽¹¹⁾	79.1*	79.1	80.9	80.9	78.4	78.4	140
145		53.1 ⁽¹⁰⁾		60.2 ⁽¹¹⁾		65.5 ⁽¹¹⁾		71.9 ⁽¹¹⁾	76.9	76.9	74.5	74.5	145
150		47.1 ⁽¹⁰⁾		55.5 ⁽¹¹⁾		60.1 ⁽¹¹⁾		66.2 ⁽¹¹⁾	73.3	73.3	70.8	70.8	150
155		43.0 ⁽⁹⁾		50.7 ⁽¹¹⁾		54.7 ⁽¹¹⁾		60.5 ⁽¹¹⁾	69.8	69.8	67.5	67.5	155
160		39.3 ⁽⁹⁾		46.0 ⁽¹¹⁾		50.5 ⁽¹¹⁾		56.0 ⁽¹¹⁾	63.3*	63.3	64.3	64.3	160
165		35.5 ⁽⁹⁾		41.3 ⁽¹¹⁾		46.7 ⁽¹¹⁾		51.6 ⁽¹¹⁾		56.8 ⁽¹¹⁾	61.4	61.4	165
170		31.8 ⁽⁹⁾		36.5 ⁽¹¹⁾		42.8 ⁽¹¹⁾		47.3 ⁽¹¹⁾		52.2 ⁽¹¹⁾	58.7	58.7	170
175		28.0 ⁽⁸⁾		33.2 ⁽⁹⁾		38.9 ⁽¹¹⁾		42.9 ⁽¹¹⁾		47.7 ⁽¹¹⁾	56.1	56.1	175
180		24.3 ⁽⁸⁾		30.2 ⁽⁹⁾		35.0 ⁽¹¹⁾		39.7 ⁽¹¹⁾		44.0 ⁽¹¹⁾	50.7*	50.7	180
185		21.6 ⁽⁷⁾		27.2 ⁽⁹⁾		31.1 ⁽¹¹⁾		36.5 ⁽¹¹⁾		40.4 ⁽¹¹⁾		44.4 ⁽¹¹⁾	185
190		19.1 ⁽⁷⁾		24.2 ⁽⁹⁾		27.2 ⁽¹¹⁾		33.2 ⁽¹¹⁾		36.8 ⁽¹¹⁾		40.5 ⁽¹¹⁾	190
195		16.6 ⁽⁷⁾		21.2 ⁽⁹⁾		24.5 ⁽⁸⁾		30.0 ⁽¹¹⁾		33.3 ⁽¹¹⁾		37.0 ⁽¹¹⁾	195
200		14.0 ⁽⁷⁾		18.2 ⁽⁹⁾		22.1 ⁽⁸⁾		26.8 ⁽¹¹⁾		30.6 ⁽¹¹⁾		33.9 ⁽¹¹⁾	200
205		11.5 ⁽⁶⁾		15.7 ⁽⁷⁾		19.7 ⁽⁸⁾		23.5 ⁽¹¹⁾		28.0 ⁽¹¹⁾		30.8 ⁽¹¹⁾	205
210				13.4 ⁽⁷⁾		17.2 ⁽⁸⁾		19.9 ⁽⁹⁾		25.4 ⁽¹¹⁾		27.8 ⁽¹¹⁾	210
215				11.2 ⁽⁷⁾		14.8 ⁽⁸⁾		17.8 ⁽⁹⁾		22.7 ⁽¹¹⁾		25.0 ⁽¹¹⁾	215
220				8.9 ⁽⁷⁾		12.4 ⁽⁸⁾		15.6 ⁽⁹⁾		20.1 ⁽¹¹⁾		22.7 ⁽¹¹⁾	220
225				6.7 ⁽⁷⁾				13.5 ⁽⁹⁾		17.4 ⁽¹¹⁾		20.5 ⁽¹¹⁾	225
230								11.4 ⁽⁹⁾				18.3 ⁽¹¹⁾	230
235								9.2 ⁽⁹⁾				16.1 ⁽¹¹⁾	235
240												13.9 ⁽¹¹⁾	240
245												11.6 ⁽¹¹⁾	245

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



ft	S 197												ft
	W 177		W 197		W 217		W 236		W 256		W 276		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
70	163.0	163.0 ⁽¹⁾											70
75	153.0	153.0	147.0	147.0									75
80	143.0	143.0	139.0	139.0	130.0	130.0							80
85	134.0	134.0	130.0	130.0	125.0	125.0	114.0	114.0					85
90	127.0	127.0	123.0	123.0	118.0	118.0	111.0	111.0	99.2	99.2			90
95	119.0	119.0	116.0	116.0	111.0	111.0	108.0	108.0	97.2	97.2	85.9	85.9	95
100	113.0	113.0	109.0	109.0	105.0	105.0	102.0	102.0	95.2	95.2	84.3	84.3	100
105	107.0	107.0	104.0	104.0 ⁽³⁾	99.5	99.5	96.2	96.2	93.1	93.1	82.8	82.8	105
110	102.0	102.0	98.3	98.3	94.2	94.2	91.0	91.0	88.2	88.2	81.4	81.4	110
115	96.5	96.5	93.3	93.3	89.4	89.4	86.4	86.4	83.7	83.7	79.9	79.9	115
120	91.9	91.9	88.8	88.8	85.0	85.0	82.0	82.0	79.4	79.4	76.4	76.4	120
125	87.6	87.6	84.5	84.5	80.8	80.8	77.9	77.9	75.3	75.3	72.4	72.4	125
130	83.6	83.6	80.6	80.6	76.9	76.9	74.1	74.1	71.7	71.7	68.9	68.9	130
135	79.8	79.8 ⁽⁶⁾	77.0	77.0	73.4	73.4	70.6	70.6	68.2	68.2	65.4	65.4	135
140	76.3	76.3	73.6	73.6	70.0	70.0	67.3	67.3	64.9	64.9	62.2	62.2	140
145	72.7	72.7	70.4	70.4	66.9	66.9	64.2	64.2	61.9	61.9	59.3	59.3	145
150	69.1	69.1	67.2	67.2	63.9	63.9	61.3	61.3	59.0	59.0	56.4	56.4	150
155	65.8	65.8	64.0	64.0	61.1	61.1	58.6	58.6	56.3	56.3	53.8	53.8	155
160	62.6	62.6	60.9	60.9	58.4	58.4	55.9	55.9	53.8	53.8	51.2	51.2	160
165	59.7	59.7	58.0	58.0	55.5	55.5	53.5	53.5	51.3	51.3	48.9	48.9	165
170	56.9	56.9	55.2	55.2	52.8	52.8	51.0	51.0	49.1	49.1	46.6	46.6	170
175	54.4	54.4	52.7	52.7	50.3	50.3	48.5	48.5	46.8	46.8	44.5	44.5	175
180	52.0	52.0	50.3	50.3	47.9	47.9	46.1	46.1	44.5	44.5	42.5	42.5	180
185	49.7	49.7	48.0	48.0	45.6	45.6	43.9	43.9	42.3	42.3	40.4	40.4	185
190	47.6	47.6	45.9	45.9	43.5	43.5	41.8	41.8	40.2	40.2	38.3	38.3	190
195	45.6	45.6	43.9	43.9	41.5	41.5	39.8	39.8	38.2	38.2	36.4	36.4	195
200	40.9*		42.0	42.0	39.6	39.6	37.9	37.9	36.3	36.3	34.5	34.5	200
205		34.8 ⁽¹⁾	40.2	40.2	37.9	37.9	36.1	36.1	34.5	34.5	32.7	32.7	205
210		31.5 ⁽¹⁾	38.6	38.6	36.2	36.2	34.5	34.5	32.8	32.8	31.1	31.1	210
215		28.8 ⁽¹⁾	34.3*	34.3	34.6	34.6	32.9	32.9	31.3	31.3	29.5	29.5	215
220		26.2 ⁽¹⁾	32.9*	32.9	33.1	33.1	31.3	31.3	29.7	29.7	28.0	28.0	220
225		23.6 ⁽¹⁾		26.9 ⁽¹⁾	31.7	31.7	29.9	29.9	28.3	28.3	26.5	26.5	225
230		21.1 ⁽¹⁾		24.1 ⁽¹⁾	30.4	30.4	28.6	28.6	26.9	26.9 ⁽⁹⁾	25.2	25.2	230
235		18.8 ⁽¹⁾		22.0 ⁽¹⁾	26.5*	26.5	27.3	27.3	25.6	25.6	23.9	23.9	235
240		16.7 ⁽¹⁾		20.0 ⁽¹⁾	25.4*	25.4	26.1	26.1	24.4	24.4	22.6	22.6	240
245		14.6 ⁽¹⁾		17.9 ⁽¹⁾		20.1 ⁽¹⁾	24.9	24.9	23.2	23.2	21.6	21.6	245
250		12.6 ⁽¹⁾		15.9 ⁽¹⁾		17.9 ⁽¹⁾	23.9	23.9	22.1	22.1	20.6	20.6	250
255		10.5 ⁽¹⁾		10.3 ⁽⁸⁾		16.0 ⁽¹⁾	20.7*	20.7	21.2	21.2	19.7	19.7	255
260		8.4 ⁽¹⁾				14.2 ⁽¹⁾	20.0*	20.0	20.3	20.3	18.8	18.8	260
265						12.4 ⁽¹⁾		14.9 ⁽¹⁾	19.5	19.5	18.0	18.0	265
270						10.6 ⁽¹⁾		13.1 ⁽¹⁾	18.8	18.8	17.2	17.2	270
275								11.3 ⁽¹⁾	16.1*	16.1	16.4	16.4	275
280								9.4 ⁽¹⁾	15.5*	15.5	15.7	15.7	280
285								7.6 ⁽¹⁾	10.1 ⁽¹⁾	15.1	15.1	15.1	285
290								5.7 ⁽¹⁾		8.3 ⁽¹⁾	14.5	14.5	290
295										6.5 ⁽¹⁾	12.0*	12.0	295
300											11.6*	11.6	300

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



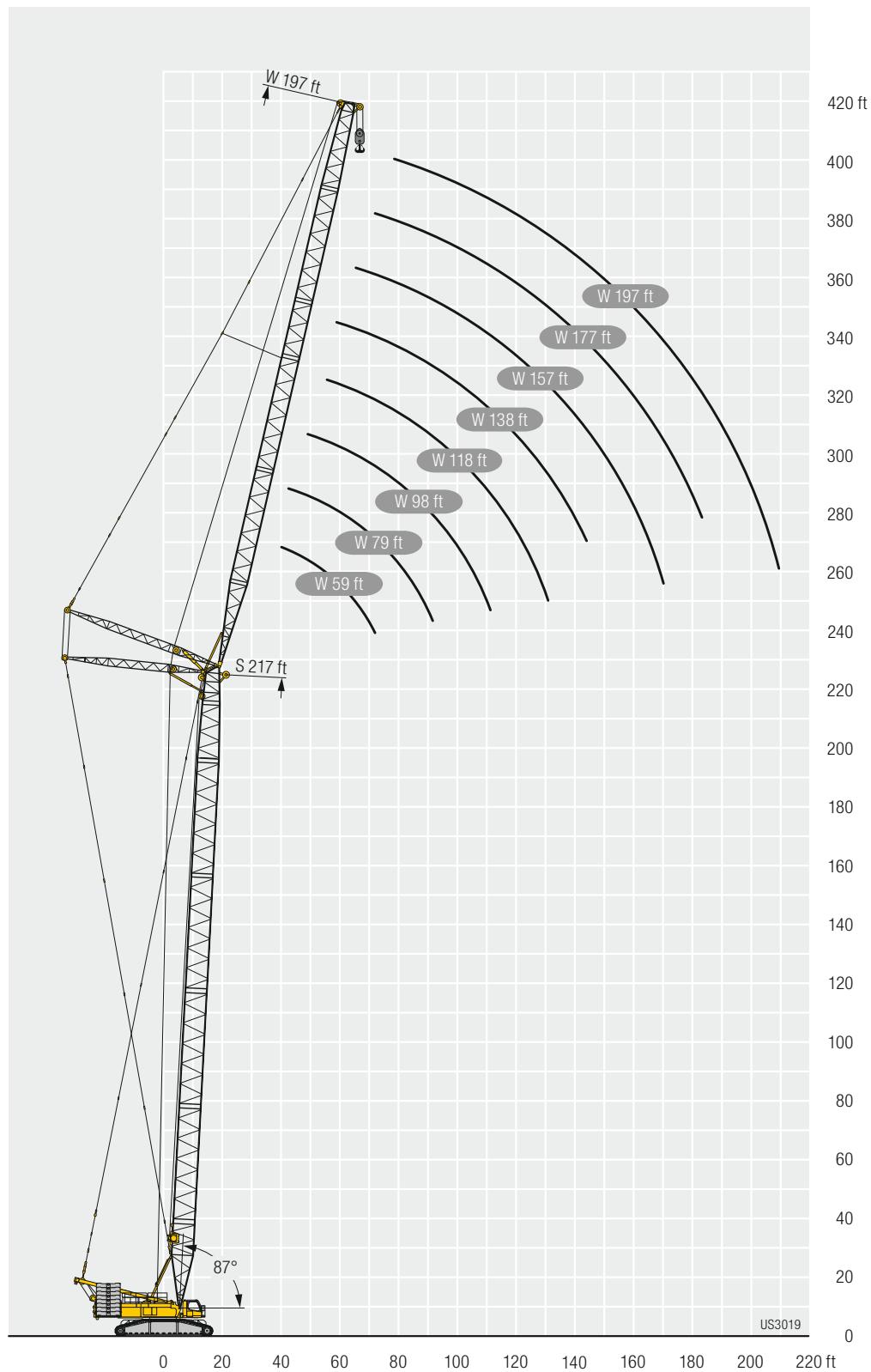
S 217

ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197	
	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	331.0	331.0 ⁽¹⁾														38
40	324.0	324.0														40
45	293.0	293.0	279.0	279.0												45
50	266.0	266.0	257.0	257.0	243.0	243.0										50
55	243.0	243.0	235.0	235.0	227.0	227.0	213.0	213.0								55
60	224.0	224.0 ⁽²⁾	217.0	217.0	209.0	209.0	203.0	203.0	187.0	187.0						60
65	208.0	208.0	201.0	201.0	194.0	194.0	188.0	188.0	181.0	181.0	166.0	166.0				65
70	194.0	194.0	187.0	187.0	181.0	181.0	175.0	175.0	168.0	168.0 ⁽²⁾	161.0	161.0	147.0	147.0		70
75	182.0	182.0	175.0	175.0	169.0	169.0	164.0	164.0	158.0	158.0	152.0	152.0	143.0	143.0	130.0	130.0
80	162.0*	165.0 ⁽¹⁾	164.0	164.0	158.0	158.0 ⁽⁵⁾	154.0	154.0	148.0	148.0	142.0	142.0	138.0	138.0	127.0	127.0
85	153.0*	153.0	155.0	155.0	149.0	149.0	144.0	144.0	139.0	139.0	134.0	134.0	130.0	130.0	123.0	123.0
90		140.0 ⁽¹⁾	146.0	146.0 ⁽¹⁰⁾	141.0	141.0	136.0	136.0 ⁽⁵⁾	131.0	131.0	126.0	126.0 ⁽³⁾	122.0	122.0	118.0	118.0 ⁽²⁾
95		129.0 ⁽¹⁾	139.0	139.0	133.0	133.0	129.0	129.0	124.0	124.0	119.0	119.0	115.0	115.0	112.0	112.0
100		117.0 ⁽¹⁾	125.0*	126.0 ⁽¹⁾	126.0	126.0	122.0	122.0	117.0	117.0	113.0	113.0	109.0	109.0	106.0	106.0
105		107.0 ⁽¹⁾	119.0*	119.0	120.0	120.0	116.0	116.0	111.0	111.0	107.0	107.0	103.0	103.0	100.0	100.0
110		98.6 ⁽¹⁾		108.0 ⁽¹⁾	115.0	115.0	110.0	110.0	106.0	106.0	101.0	101.0	98.1	98.1	94.8	94.8
115		90.3 ⁽¹⁾		98.9 ⁽¹⁾	109.0	109.0	105.0	105.0	101.0	101.0	96.3	96.3	93.3	93.3	90.1	90.1
120		82.0 ⁽¹⁾		90.2 ⁽¹⁾	98.1*	98.1	101.0	101.0	96.0	96.0	91.8	91.8	88.8	88.8	85.7	85.7
125		75.1 ⁽¹⁾		82.9 ⁽¹⁾	92.6*	92.6	95.8	95.8	91.7	91.7	87.6	87.6	84.6	84.6	81.6	81.6
130		69.6 ⁽¹⁾		76.5 ⁽¹⁾		83.7 ⁽¹⁾	90.7	90.7	87.7	87.7	83.6	83.6	80.7	80.7	77.8	77.8
135		64.2 ⁽¹⁾		70.0 ⁽¹⁾		76.7 ⁽¹⁾	86.1	86.1	83.6	83.6	79.9	79.9	77.1	77.1	74.3	74.3
140		58.8 ⁽¹⁾		63.5 ⁽¹⁾		69.7 ⁽¹⁾	77.7*	77.7	79.4	79.4	76.6	76.6	73.7	73.7	71.0	71.0
145		53.4 ⁽¹⁰⁾		58.4 ⁽¹⁾		64.4 ⁽¹⁾		71.3 ⁽¹⁾	75.5	75.5	73.0	73.0	70.6	70.6	67.8	67.8
150		48.0 ⁽¹⁰⁾		54.0 ⁽¹¹⁾		59.3 ⁽¹¹⁾		65.6 ⁽¹¹⁾	71.9	71.9	69.4	69.4	67.6	67.6	64.9	64.9
155		42.6 ⁽¹⁰⁾		49.7 ⁽¹⁾		54.2 ⁽¹¹⁾		60.3 ⁽¹⁾	68.5	68.5	66.1	66.1	64.4	64.4	62.2	62.2
160		37.6 ⁽⁹⁾		45.3 ⁽¹¹⁾		49.1 ⁽¹¹⁾		55.0 ⁽¹¹⁾	61.6*	61.6	63.0	63.0	61.3	61.3	59.5	59.5
165		34.4 ⁽⁹⁾		41.0 ⁽¹¹⁾		45.2 ⁽¹¹⁾		50.8 ⁽¹¹⁾		55.7 ⁽¹¹⁾	60.1	60.1	58.4	58.4	56.6	56.6
170		31.2 ⁽⁹⁾		36.7 ⁽¹¹⁾		41.7 ⁽¹¹⁾		46.7 ⁽¹¹⁾		51.2 ⁽¹¹⁾	57.4	57.4	55.7	55.7	54.0	54.0
175		28.0 ⁽⁹⁾		32.3 ⁽¹¹⁾		38.1 ⁽¹¹⁾		42.5 ⁽¹¹⁾		46.7 ⁽¹¹⁾	54.9	54.9	53.1	53.1	51.4	51.4
180		24.9 ⁽⁹⁾		28.3 ⁽⁹⁾		34.5 ⁽¹¹⁾		38.3 ⁽¹¹⁾		42.7 ⁽¹¹⁾	49.1*	49.1	50.8	50.8	49.0	49.0
185		21.7 ⁽⁹⁾		25.7 ⁽⁹⁾		30.9 ⁽¹¹⁾		35.4 ⁽¹¹⁾		39.2 ⁽¹¹⁾		43.3 ⁽¹¹⁾	48.5	48.5	46.8	46.8
190		18.5 ⁽⁹⁾		23.1 ⁽⁹⁾		27.3 ⁽¹¹⁾		32.4 ⁽¹¹⁾		35.7 ⁽¹¹⁾		39.6 ⁽¹¹⁾	46.4	46.4	44.7	44.7
195				20.5 ⁽⁹⁾		23.8 ⁽¹¹⁾		29.5 ⁽¹¹⁾		32.2 ⁽¹¹⁾		35.9 ⁽¹¹⁾	44.5	44.5	42.8	42.8
200				17.8 ⁽⁹⁾		20.2 ⁽⁹⁾		26.6 ⁽¹¹⁾		28.8 ⁽¹¹⁾		32.7 ⁽¹¹⁾	39.4*	39.4	40.9	40.9
205						15.2 ⁽⁹⁾		17.9 ⁽⁹⁾		23.7 ⁽¹¹⁾		26.3 ⁽¹¹⁾		33.9 ⁽¹¹⁾	39.1	39.1
210						12.6 ⁽⁹⁾		15.6 ⁽⁹⁾		20.8 ⁽¹¹⁾		23.8 ⁽¹¹⁾		26.8 ⁽¹¹⁾	30.7 ⁽¹¹⁾	37.5
215								13.3 ⁽⁹⁾		17.8 ⁽¹¹⁾		21.3 ⁽¹¹⁾		23.8 ⁽¹¹⁾	27.5 ⁽¹¹⁾	36.0
220								11.0 ⁽⁹⁾				18.8 ⁽¹¹⁾		21.1 ⁽¹¹⁾	25.1 ⁽¹¹⁾	31.5
225								8.7 ⁽⁹⁾				16.4 ⁽¹¹⁾		18.8 ⁽¹¹⁾	22.7 ⁽¹¹⁾	26.1 ⁽¹¹⁾
230								6.4 ⁽⁹⁾				13.9 ⁽¹¹⁾		16.6 ⁽¹¹⁾	20.3 ⁽¹¹⁾	23.4 ⁽¹¹⁾
235											11.4 ⁽¹¹⁾		14.4 ⁽¹¹⁾	17.9 ⁽¹¹⁾	20.8 ⁽¹¹⁾	235
240												12.1 ⁽¹¹⁾		9.9 ⁽¹¹⁾	8.9 ⁽⁶⁾	18.8 ⁽¹¹⁾
245															16.9 ⁽¹¹⁾	245
250															14.9 ⁽¹¹⁾	250
255															12.9 ⁽¹¹⁾	255

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

Lifting heights Hauteurs de levage

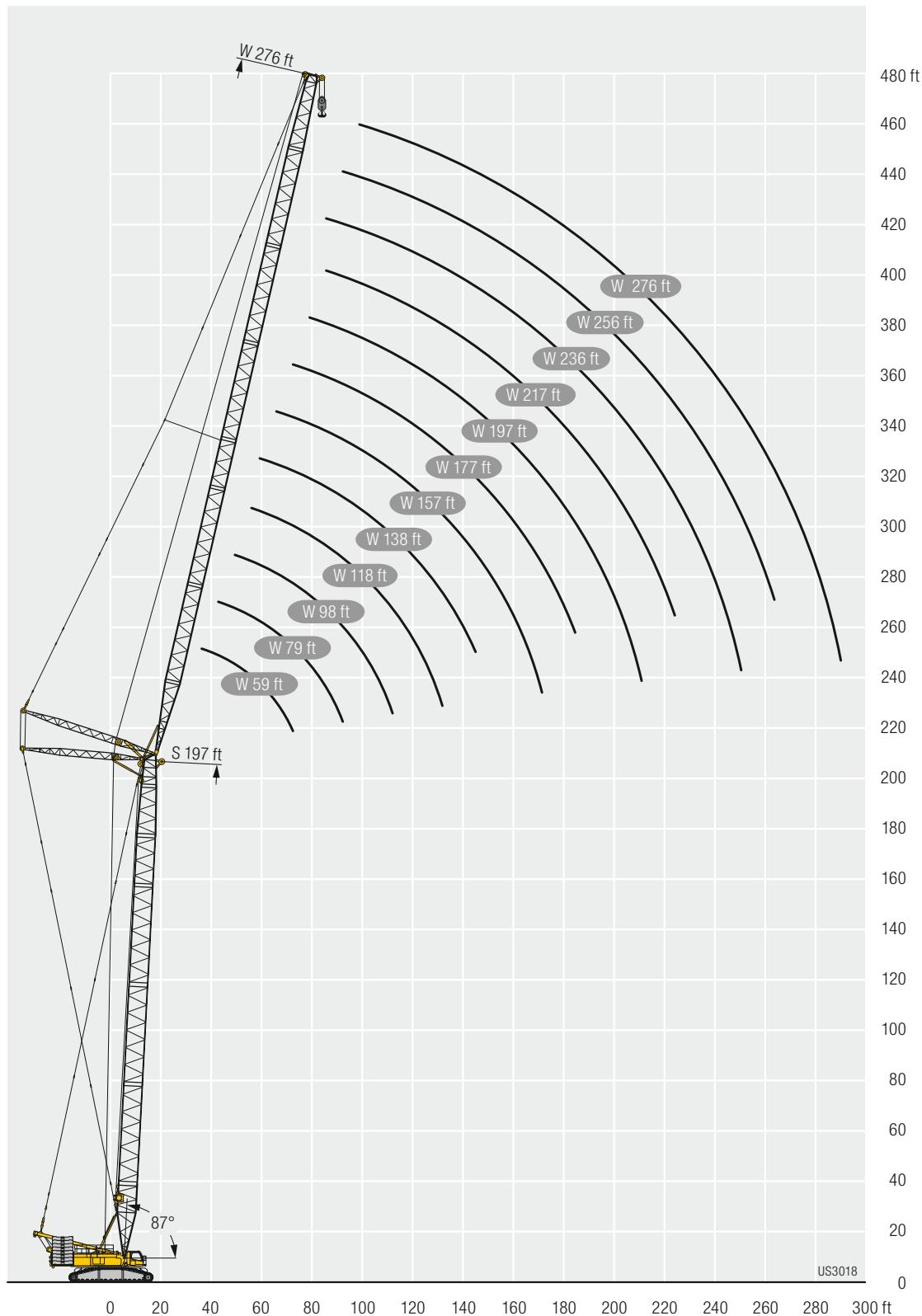
SW

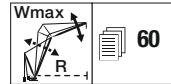
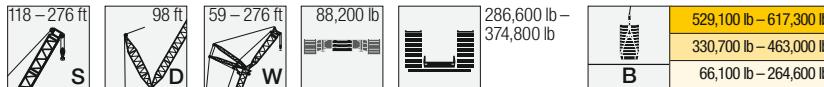


Lifting heights

Hauteurs de levage

SW

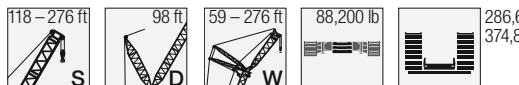




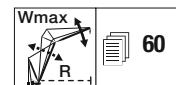
60

S 118

	ft	S 118																													
		W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276							
		85	Wmax	87°/85	Wmax																										
38	-	399.0	399.0	382.0*	382.0 ⁽¹⁾	551.0	551.0	488.0*	488.0 ⁽¹⁾	379.0	380.0 ⁽¹⁾	370.0*	370.0 ⁽¹⁾	487.0*	489.0 ⁽¹⁾	490.0*	490.0 ⁽¹⁾	490.0*	490.0 ⁽¹⁾	301.0	305.0 ⁽¹⁾	296.0*	296.0 ⁽¹⁾	284.0*	284.0 ⁽¹⁾	274.0*	274.0 ⁽¹⁾				
40	B	551.0	551.0	487.0*	489.0 ⁽¹⁾	336.0	341.0 ⁽¹⁾	329.0*	329.0 ⁽¹⁾	315.0*	315.0 ⁽¹⁾	551.0	551.0	490.0*	490.0 ⁽¹⁾	490.0*	490.0 ⁽¹⁾	490.0*	490.0 ⁽¹⁾	533.0	551.0 ⁽¹⁾	489.0*	490.0 ⁽¹⁾	490.0*	490.0 ⁽¹⁾	396.0*	398.0 ⁽¹⁾				
45	B	505.0	547.0 ⁽¹⁾	488.0*	490.0 ⁽¹⁾	272.0	278.0 ⁽¹⁾	268.0*	257.0*	257.0*	257.0*	249.0*	249.0*	240.0*	240.0 ⁽¹⁾	401.0	401.0 ⁽¹⁾	369.0*	372.0 ⁽¹⁾	249.0*	253.0 ⁽¹⁾	245.0*	245.0 ⁽¹⁾	235.0*	235.0 ⁽¹⁾	228.0*	220.0*				
50	B	481.0	539.0 ⁽¹⁾	485.0*	490.0 ⁽¹⁾	229.0	234.0 ⁽¹⁾	226.0*	217.0*	217.0*	210.0*	210.0*	203.0*	197.0*	197.0*	191.0*	443.0	518.0 ⁽¹⁾	470.0*	490.0 ⁽¹⁾	444.0	490.0 ⁽¹⁾	399.0	404.0 ⁽¹⁾	370.0	372.0 ⁽¹⁾	309.0*	309.0 ⁽¹⁾			
60	B	405.0	496.0 ⁽¹⁾	437.0	490.0 ⁽¹⁾	212.0	215.0 ⁽¹⁾	209.0*	201.0*	194.0*	194.0 ⁽¹⁾	188.0*	188.0*	182.0*	182.0*	401.0	402.0 ⁽¹⁾	375.0	375.0 ⁽¹⁾	309.0*	309.0 ⁽¹⁾	270.0	272.0 ⁽¹⁾	228.0*	229.0 ⁽¹⁾	190.0*	191.0 ⁽¹⁾				
65	B	194.0	194.0	195.0*	195.0*	337.0	481.0 ⁽¹⁾	396.0	486.0 ⁽¹⁾	392.0	479.0 ⁽¹⁾	379.0	406.0 ⁽¹⁾	353.0	369.0 ⁽¹⁾	309.0	309.0 ⁽¹⁾	272.0	272.0 ⁽¹⁾	227.0*	229.0 ⁽¹⁾	151.0*	151.0*	168.0*	168.0*	151.0*	151.0*				
70	B	176.0 ⁽¹⁾	180.0*	174.0*	174.0*	130.0	141.0	141.0*	141.0*	139.0*	139.0*	169.0*	169.0*	163.0*	163.0*	159.0*	159.0*	154.0*	154.0*	150.0*	150.0*	145.0*	145.0*	141.0*	141.0*	137.0*	137.0*				
75	B	464.0 ⁽¹⁾	362.0	470.0 ⁽¹⁾	359.0	469.0 ⁽¹⁾	329.0	358.0	403.0 ⁽¹⁾	339.0	367.0 ⁽¹⁾	307.0	309.0 ⁽¹⁾	270.0	270.0	229.0	229.0 ⁽¹⁾	228.0*	229.0 ⁽¹⁾	191.0*	191.0 ⁽¹⁾	166.0*	166.0 ⁽¹⁾	140.0*	140.0*	117.0*	117.0*				
80	B	158.0 ⁽¹⁾	166.0*	166.0 ⁽¹⁾	163.0*	163.0*	180.0*	181.0*	181.0*	175.0*	175.0*	170.0*	170.0*	165.0*	165.0*	160.0*	160.0*	156.0*	156.0*	150.0*	150.0*	145.0*	145.0*	141.0*	141.0*	137.0*	137.0*				
85	B	144.0 ⁽¹⁾	154.0*	154.0*	151.0*	151.0*	149.0*	149.0*	143.0*	143.0*	139.0*	139.0*	135.0*	135.0*	132.0*	132.0*	128.0*	128.0*	124.0*	124.0*	121.0*	121.0*	115.0*	115.0*	115.0*	115.0*					
90	B	430.0 ⁽¹⁾	311.0	439.0 ⁽¹⁾	305.0	443.0 ⁽¹⁾	305.0	393.0 ⁽¹⁾	303.0	355.0 ⁽¹⁾	292.0	309.0 ⁽¹⁾	259.0	264.0 ⁽¹⁾	227.0	227.0 ⁽¹⁾	189.0	189.0 ⁽¹⁾	164.0	164.0	137.0*	138.0 ⁽¹⁾	150.0*	150.0*	115.0*	116.0*					
95	B	130.0 ⁽¹⁾	141.0	141.0	141.0*	141.0*	139.0*	139.0*	135.0*	135.0*	131.0*	131.0*	127.0*	127.0*	124.0*	124.0*	121.0*	121.0*	117.0*	117.0*	113.0*	113.0*	110.0*	110.0*	110.0*	110.0*					
100	B	395.0 ⁽¹⁾	401.0 ⁽¹⁾	269.0	403.0 ⁽¹⁾	265.0	376.0 ⁽¹⁾	263.0	338.0 ⁽¹⁾	262.0	300.0 ⁽¹⁾	242.0	259.0 ⁽¹⁾	224.0	224.0 ⁽¹⁾	185.0	186.0 ⁽¹⁾	158.0	159.0 ⁽¹⁾	136.0	136.0 ⁽¹⁾	110.0*	110.0 ⁽¹⁾	107.0*	107.0*	103.0*	103.0*				
105	B	110.0 ⁽¹⁾	123.0*	123.0 ⁽¹⁾	122.0*	119.0*	119.0*	117.0*	117.0*	119.0*	119.0*	110.0*	110.0*	114.0*	114.0*	111.0*	111.0*	107.0*	107.0*	104.0*	104.0*	101.0*	101.0*	97.7*	97.7*	97.7*	97.7*				
110	B	101.0 ⁽¹⁾	116.0*	116.0*	114.0*	114.0*	112.0*	112.0*	110.0*	110.0 ⁽¹⁾	108.0*	108.0*	105.0*	105.0*	102.0*	102.0*	98.6*	98.6*	95.6*	95.6*	92.3*	92.3*	161.0*	161.0*	137.0*	137.0*	114.0*	115.0*			
115	B	91.5 ⁽¹⁾	107.0	107.0	108.0*	108.0*	105.0*	105.0*	104.0*	104.0*	102.0*	102.0*	99.5*	99.5*	96.5*	96.5*	93.4*	93.4*	90.5*	90.5*	87.5*	87.5*	150.0*	150.0*	130.0*	130.0*	111.0*	111.0*			
120	B	83.6 ⁽¹⁾	91.6 ⁽¹⁾	97.1 ⁽¹⁾	102.0*	102.0*	99.3*	99.3*	97.6*	97.6*	95.7*	95.7*	94.2*	94.2*	91.6*	91.6*	88.6*	88.6*	85.8*	85.8*	82.8*	82.8*	82.0*	82.0*	135.0*	135.0*	113.0*	113.0*			
125	B	309.0 ⁽¹⁾	313.0 ⁽¹⁾	290.0 ⁽¹⁾	286.0	310.0 ⁽¹⁾	199.0	309.0 ⁽¹⁾	195.0	268.0 ⁽¹⁾	277.0	305.0 ⁽¹⁾	250.0	262.0 ⁽¹⁾	225.0	225.0 ⁽¹⁾	187.0	187.0 ⁽¹⁾	153.0	155.0 ⁽¹⁾	134.0	134.0 ⁽¹⁾	111.0	112.0 ⁽¹⁾	110.0*	110.0*	110.0*	110.0*			
130	B	70.7 ⁽¹⁾	78.0 ⁽¹⁾	82.8 ⁽¹⁾	91.2*	91.2*	88.8*	88.8*	87.2*	87.2*	85.2*	85.2*	84.0*	84.0*	82.2*	82.2*	80.0*	80.0*	77.4*	77.4*	74.6*	74.6*	71.7*	71.7*	67.4*	67.4*	67.4*	67.4*			
135	B	64.3 ⁽¹⁾	71.2 ⁽¹⁾	76.3 ⁽¹⁾	84.5	84.5	84.2*	84.2*	82.6*	82.6*	80.7*	80.7*	79.5*	79.5*	77.6*	77.6*	75.7*	75.7*	73.7*	73.7*	71.0*	71.0*	140.0*	140.0*	130.0*	130.0*	107.0*	108.0*			
140	B	59.2 ⁽¹⁾	65.2 ⁽¹⁾	70.9 ⁽¹⁾	76.2 ⁽¹⁾	80.1*	80.1*	78.3*	78.3*	76.4*	76.4*	75.3*	75.3*	73.5*	73.5*	71.7*	71.7*	69.9*	69.9*	67.4*	67.4*	64.0*	64.0*	59.2*	59.2*	57.3*	57.3*				
145	B	54.4 ⁽¹⁾	60.3 ⁽¹⁾	65.7 ⁽¹⁾	70.7 ⁽¹⁾	76.2*	76.2*	74.5*	74.5*	72.6*	72.6*	71.4*	71.4*	69.6*	69.6*	67.8*	67.8*	66.0*	66.0*	64.0*	64.0*	54.3*	54.3*	50.7*	50.7*	46.0*	46.0*				
150	B	49.6 ⁽¹⁾	55.3 ⁽¹⁾	60.5 ⁽¹⁾	65.6 ⁽¹⁾	72.7*	72.7*	70.9*	70.9*	69.0*	69.0*	67.8*	67.8*	66.0*	66.0*	64.2*	64.2*	62.5*	62.5*	60.7*	60.7*	55.3*	55.3*	51.5*	51.5*	47.0*	47.0*				
155	B	50.4 ⁽¹⁾	55.3 ⁽¹⁾	60.6 ⁽¹⁾	67.5	67.5	67.5*	67.5*	65.6*	65.6*	64.4*	64.4*	62.7*	62.7*	60.9*	60.9*	59.2*	59.2*	57.3*	57.3*	53.7*	53.7*	50.5*	50.5*	48.8*	48.8*	46.3*	46.3*			
160	B	46.3 ⁽¹⁾	50.4 ⁽¹⁾	56.4 ⁽¹⁾	60.0 ⁽¹⁾	64.4*	64.4*	62.5*	62.5*	61.3*	61.3*	59.6*	59.6*	57.8*	57.8*	55.1*	55.1*	51.4*	51.4*	48.4*	48.4*	46.3*	46.3*	41.7*	41.7*	39.6*	39.6*	37.6*	37.6*		
165	B	42.5 ⁽¹⁾	46.5 ⁽¹⁾	52.2 ⁽¹⁾	55.9 ⁽¹⁾	61.6*	61.6*	59.6*	59.6*	58.4*	58.4*	56.7*	56.7*	55.0*	55.0*	53.3*	53.3*	51.5*	51.5*	49.0*	49.0*	46.0*	46.0*	42.0*	42.0*	39.0*	39.0*	37.0*	37.0*		
170	B	38.6 ⁽¹⁾	42.6 ⁽¹⁾	48.1 ⁽¹⁾	51.8 ⁽¹⁾	58.9*	58.9*	56.9*	56.9*	55.7*	55.7*	53.9*	53.9*	52.2*	52.2*	50.6*	50.6*	48.8*	48.8*	46.3*	46.3*	43.4*	43.4*	41.7*	41.7*	39.0*	39.0*	37.0*	37.0*		
175	B	32.0 ⁽¹⁾	36.5 ⁽¹⁾	41.0 ⁽¹⁾	47.8 ⁽¹⁾	54.7	54.7	54.3*	54.3*	53.1*	53.1*	51.4*	51.4*	49.7*	49.7*	47.4*	47.4*	45.1*	45.1*	43.4*	43.4*	40.0*	40.0*	37.0*	37.0*	34.0*	34.0*	31.0*	31.0*		
180	B	28.9 ⁽¹⁾	33.3 ⁽¹⁾	37.5 ⁽¹⁾	41.3 ⁽¹⁾	47.8*	47.8*	46.4*	46.4*	44.6*	44.6*	42.6*	42.6*	40.0*	40.0*	37.7*	37.7*	35.1*	35.1*	33.0*	33.0*	30.0*	30.0*	27.0*	27.0*	24.0*	24.0*	21.0*	21.0*		
185	B	226.0 ⁽¹⁾	245.0 ⁽¹⁾	247.0 ⁽¹⁾	152.0	238.0 ⁽¹⁾	155.0	225.0 ⁽¹⁾	150.0	206.0 ⁽¹⁾	150.0	194.0 ⁽¹⁾	150.0	173.0 ⁽¹⁾	150.0	173.0 ⁽¹⁾	120.0	120.0	117.0*	117.0*	116.0*	116.0*	110.0*	110.0*	108.0*	108.0*	105.0*	105.0*	102.0*	102.0*	
190	B	29.5 ⁽¹⁾	34.1 ⁽¹⁾	38.1 ⁽¹⁾	44.4 ⁽¹⁾	51.8 ⁽¹⁾	58.9*	58.9*	56.9*	56.9*	55.7*	55.7*	53.9*	53.9*	52.2*	52.2*	50.6*	50.6*	48.8*	48.8*	46.3*	46.3*	43.4*	43.4*	41.7*	41.7*	39.6*	39.6*	37.6*	37.6*	
195	B	173.0 ⁽¹⁾	172.0 ⁽¹⁾	169.0 ⁽¹⁾	177.0 ⁽¹⁾	170.0	195.0 ⁽¹⁾	102.0	192.0 ⁽¹⁾	123.0	180.0 ⁽¹⁾	122.0	170.0 ⁽¹⁾	120.0	170.0 ⁽¹⁾	117.0	117.0	113.0*	113.0*	110.0*	110.0*	108.0*	108.0*	105.0*	105.0*	102.0*	102.0*	99.4*	99.4*	96.1*	96.1*
200	B	26.9 ⁽¹⁾	30.4 ⁽¹⁾	35.2 ⁽¹⁾	32.0<																										

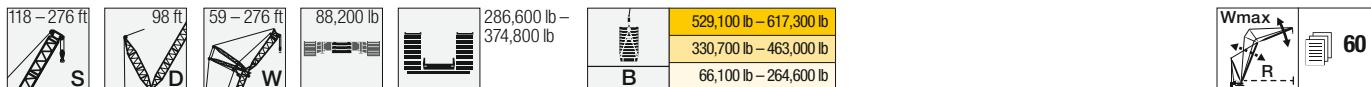


	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb

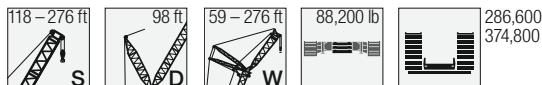


ft	S 118																							
	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276	
	85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax		
205	-						24.4 ⁽¹⁾	27.7 ⁽¹⁾	32.3 ⁽¹⁾	35.2 ⁽¹⁾	40.8 [*]	40.8 [*]	38.9 [*]	38.9 [*]	37.3 [*]	37.3 [*]	35.6 [*]	35.6 [*]	33.9 [*]	33.9 [*]				
210	-	B					156.0 ⁽¹⁾	158.0 ⁽¹⁾	157.0 ⁽¹⁾	153.0 ⁽¹⁾	95.6	145.0 ⁽¹⁾	96.7	137.0 ⁽¹⁾	94.2	119.0 ⁽²⁾	92.4	112.0 ⁽²⁾	90.9	98.8 ⁽²⁾				
215	-	B					21.8 ⁽¹⁾	25.0 ⁽¹⁾	29.3 ⁽¹⁾	32.3 ⁽¹⁾	39.3 [*]	39.3 [*]	37.2 [*]	37.2 [*]	35.6 [*]	35.6 [*]	33.9 [*]	33.9 [*]	32.2 [*]	32.2 [*]				
220	-	B					147.0 ⁽¹⁾	151.0 ⁽¹⁾	151.0 ⁽¹⁾	148.0 ⁽¹⁾	89.7	141.0 ⁽¹⁾	92.9	134.0 ⁽¹⁾	92.0	117.0 ⁽²⁾	89.0	110.0 ⁽²⁾	87.6	97.7 ⁽²⁾				
225	-	B					21.8 ⁽¹⁾	26.4 ⁽¹⁾	29.8 ⁽¹⁾	32.9 ⁽¹⁾	35.7 [*]	35.7 [*]	34.0 [*]	34.0 [*]	32.3 [*]	32.3 [*]	30.6 [*]	30.6 [*]	29.1 [*]	29.1 [*]				
230	-	B					19.9 ⁽¹⁾	23.4 ⁽¹⁾	27.3 ⁽¹⁾	30.4 ⁽¹⁾	34.2 [*]	34.2 [*]	32.5 [*]	32.5 [*]	30.8 [*]	30.8 [*]	28.0 [*]	28.0 [*]	26.3 [*]	26.3 [*]				
235	-	B					140.0 ⁽¹⁾	140.0 ⁽¹⁾	138.0 ⁽¹⁾	133.0 ⁽¹⁾	85.9	127.0 ⁽¹⁾	85.8	112.0 ⁽¹⁾	83.3	106.0 ⁽²⁾	81.2	94.2 ⁽²⁾	78.3	92.5 ⁽²⁾				
240	-	B					18.0 ⁽¹⁾	21.3 ⁽¹⁾	24.9 ⁽¹⁾	27.9 ⁽¹⁾	32.8 [*]	32.8 [*]	31.0 [*]	31.0 [*]	29.3 [*]	29.3 [*]	27.7 [*]	27.7 [*]	25.0 [*]	25.0 [*]				
245	-	B					135.0 ⁽¹⁾	135.0 ⁽¹⁾	133.0 ⁽¹⁾	129.0 ⁽¹⁾	81.8	124.0 ⁽¹⁾	82.6	110.0 ⁽¹⁾	81.5	105.0 ⁽²⁾	78.3	92.5 ⁽²⁾	73.4	90.2 ⁽²⁾				
250	-	B					16.1 ⁽¹⁾	19.1 ⁽¹⁾	22.5 ⁽¹⁾	25.5 ⁽¹⁾	31.6 [*]	31.6 [*]	29.7 [*]	29.7 [*]	27.2 [*]	27.2 [*]	25.4 [*]	25.4 [*]	23.7 [*]	23.7 [*]				
255	-	B					130.0 ⁽¹⁾	130.0 ⁽¹⁾	128.0 ⁽¹⁾	126.0 ⁽¹⁾	76.8	120.0 ⁽¹⁾	79.4	108.0 ⁽¹⁾	79.2	103.0 ⁽²⁾	75.5	91.2 ⁽²⁾	71.7	89.2 ⁽²⁾				
260	-	B					16.4 ⁽¹⁾	20.1 ⁽¹⁾	23.4 ⁽¹⁾	25.4 ⁽¹⁾	28.4 [*]	28.4 [*]	26.7 [*]	26.7 [*]	25.0 [*]	25.0 [*]	23.1 [*]	23.1 [*]	21.5 [*]	21.5 [*]				
265	-	B					125.0 ⁽¹⁾	124.0 ⁽¹⁾	122.0 ⁽¹⁾	117.0 ⁽¹⁾	76.5	105.0 ⁽¹⁾	76.3	101.0 ⁽²⁾	73.4	90.2 ⁽²⁾	73.4	90.2 ⁽²⁾	78.3	92.5 ⁽²⁾				
270	-	B					14.7 ⁽¹⁾	17.5 ⁽¹⁾	21.5 ⁽¹⁾	23.4 ⁽¹⁾	27.2 [*]	27.2 [*]	25.4 [*]	25.4 [*]	23.7 [*]	23.7 [*]	20.6 [*]	20.6 [*]	19.7 [*]	19.7 [*]				
275	-	B					121.0 ⁽¹⁾	120.0 ⁽¹⁾	118.0 ⁽¹⁾	114.0 ⁽¹⁾	73.5	104.0 ⁽¹⁾	73.5	98.4 ⁽²⁾	71.7	89.2 ⁽²⁾	71.7	89.2 ⁽²⁾	60.5	81.5 ⁽²⁾				
280	-	B					13.1 ⁽¹⁾	15.8 ⁽¹⁾	19.6 ⁽¹⁾	21.5 ⁽¹⁾	26.1 [*]	26.1 [*]	24.2 [*]	24.2 [*]	22.5 [*]	22.5 [*]	20.4 [*]	20.4 [*]	18.9 [*]	18.9 [*]				
285	-	B					117.0 ⁽¹⁾	116.0 ⁽¹⁾	114.0 ⁽¹⁾	111.0 ⁽¹⁾	70.3	102.0 ⁽¹⁾	70.7	96.2 ⁽²⁾	70.0	88.2 ⁽²⁾	70.0	88.2 ⁽²⁾	62.7	83.2 ⁽²⁾				
290	-	B					14.0 ⁽¹⁾	17.6 ⁽¹⁾	19.5 ⁽¹⁾	25.2 [*]	25.2 [*]	23.1 [*]	23.1 [*]	21.2 [*]	21.2 [*]	19.7 [*]	19.7 [*]	17.4 [*]	17.4 [*]					
295	-	B					113.0 ⁽¹⁾	111.0 ⁽¹⁾	109.0 ⁽¹⁾	65.2	100.0 ⁽¹⁾	68.1	94.3 ⁽²⁾	67.6	86.6 ⁽²⁾	67.6	86.6 ⁽²⁾	65.1	84.9 ⁽²⁾					
300	-	B					11.4 ⁽¹⁾	15.7 ⁽¹⁾	17.9 ⁽¹⁾	19.7 ⁽¹⁾	22.1 [*]	22.1 [*]	20.6 [*]	20.6 [*]	19.1 [*]	19.1 [*]	17.6 [*]	17.6 [*]	16.7 [*]	16.7 [*]				
305	-	B					110.0 ⁽¹⁾	108.0 ⁽¹⁾	106.0 ⁽¹⁾	98.2 ⁽¹⁾	65.6	92.7 ⁽¹⁾	65.1	84.9 ⁽²⁾	65.1	84.9 ⁽²⁾	51.3	74.8 ⁽²⁾						
310	-	B					9.8 ⁽¹⁾	13.3 ⁽¹⁾	16.2 ⁽¹⁾	18.1 ⁽¹⁾	21.2 [*]	21.2 [*]	19.7 [*]	19.7 [*]	17.4 [*]	17.4 [*]	15.1 [*]	15.1 [*]	13.6 [*]	13.6 [*]				
315	-	B					107.0 ⁽¹⁾	105.0 ⁽¹⁾	103.0 ⁽¹⁾	96.3 ⁽¹⁾	63.0	91.0 ⁽¹⁾	62.7	83.2 ⁽²⁾	62.7	83.2 ⁽²⁾	51.3	74.8 ⁽²⁾						
320	-	B					8.1 ⁽¹⁾	11.7 ⁽¹⁾	14.6 ⁽¹⁾	16.5 ⁽¹⁾	20.4 [*]	20.4 [*]	18.9 [*]	18.9 [*]	16.0 [*]	16.0 [*]	14.4 [*]	14.4 [*]	12.1 [*]	12.1 [*]				
325	-	B					105.0 ⁽¹⁾	102.0 ⁽¹⁾	101.0 ⁽¹⁾	94.4 ⁽¹⁾	60.2	89.5 ⁽¹⁾	60.5	73.5 ⁽²⁾	60.5	73.5 ⁽²⁾	51.3	74.8 ⁽²⁾						
330	-	B					10.2 ⁽¹⁾	12.9 ⁽¹⁾	15.0 ⁽¹⁾	15.0 ⁽¹⁾	18.6	18.6	18.1 [*]	18.1 [*]	16.0 [*]	16.0 [*]	14.4 [*]	14.4 [*]	12.1 [*]	12.1 [*]				
335	-	B					99.1 ⁽¹⁾	98.2 ⁽¹⁾	92.5 ⁽¹⁾	86.8 ⁽¹⁾	55.0	87.7 ⁽¹⁾	55.0	73.5 ⁽²⁾	55.0	73.5 ⁽²⁾	51.3	74.8 ⁽²⁾						
340	-	B					10.3 ⁽¹⁾	13.5 ⁽¹⁾	14.9 ⁽¹⁾	14.9 ⁽¹⁾	17.4 [*]	17.4 [*]	15.1 [*]	15.1 [*]	13.6 [*]	13.6 [*]	11.7 [*]	11.7 [*]	9.5 ⁽¹⁾	9.5 ⁽¹⁾				
345	-	B					90.6 ⁽¹⁾	90.3 ⁽¹⁾	87.0 ⁽¹⁾	12.1 ⁽¹⁾	13.5 ⁽¹⁾	13.5 ⁽¹⁾	16.7 [*]	16.7 [*]	14.4 [*]	14.4 [*]	12.1 [*]	12.1 [*]	10.6 ⁽¹⁾	10.6 ⁽¹⁾				
350	-	B					90.6 ⁽¹⁾	86.3 ⁽¹⁾	84.9 ⁽¹⁾	84.9 ⁽¹⁾	80.5 ⁽¹⁾	80.5 ⁽¹⁾	46.4	46.4	73.5 ⁽²⁾	73.5 ⁽²⁾	72.2 ⁽¹⁾	72.2 ⁽¹⁾						
355	-	B					9.1 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾	10.6 ⁽¹⁾					
360	-	B					77.9 ⁽¹⁾	75.9 ⁽¹⁾	75.9 ⁽¹⁾	75.9 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾	75.2 ⁽¹⁾					
365	-	B					74.4 ⁽¹⁾	71.7 ⁽¹⁾	70.0 ⁽¹⁾	69.1 ⁽¹⁾	68.5 ⁽¹⁾	68.5 ⁽¹⁾	65.6 ⁽¹⁾	65.6 ⁽¹⁾	64.3 ⁽¹⁾	64.3 ⁽¹⁾	62.8 ⁽¹⁾	62.8 ⁽¹⁾						
										67.3 ⁽¹⁾	59.6 ⁽¹⁾	59.6 ⁽¹⁾	56.5 ⁽¹⁾	56.5 ⁽¹⁾	54.0 ⁽¹⁾	54.0 ⁽¹⁾	53.0 ⁽¹⁾	53.0 ⁽¹⁾	51.3 ⁽¹⁾	51.3 ⁽¹⁾				
													49.9 ⁽¹⁾											

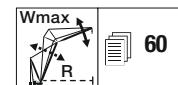
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



S 138																	
	ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177			
		85	Wmax	87°/85	Wmax												
38	-			372.0*	372.0*												
-	B			455.0*	455.0*												
40	-	359.0	368.0 ^a	354.0 ⁱ	354.0 ⁱ												
-	B	551.0	551.0	455.0*	455.0 ⁱ												
45	-	319.0	327.0 ^a	315.0*	315.0*	302.0*	302.0 ^a										
-	B	551.0	551.0	455.0*	455.0 ⁱ	450.0*	452.0 ⁱ										
50	-	287.0	293.0 ^a	284.0*	284.0*	273.0*	273.0*	264.0*	264.0 ⁱ								
-	B	542.0	551.0 ^a	455.0*	455.0 ⁱ	433.0*	453.0 ⁱ	369.0*	370.0 ⁱ								
55	-	260.0	265.0 ^a	258.0*	258.0*	248.0*	248.0*	240.0*	240.0*	232.0*	232.0 ⁱ						
-	B	511.0	551.0 ^a	455.0*	455.0 ⁱ	449.0	453.0 ⁱ	367.0*	372.0 ⁱ	337.0*	338.0 ⁱ						
60	-	238.0	244.0 ^a	237.0*	237.0*	227.0*	227.0*	220.0*	220.0 ⁱ	213.0*	213.0*	206.0*	206.0 ⁱ				
-	B	488.0	543.0 ^a	455.0*	455.0 ⁱ	431.0	452.0 ⁱ	373.0*	373.0 ⁱ	331.0*	339.0 ⁱ	290.0*	290.0 ⁱ				
65	-	219.0	224.0 ^a	218.0*	218.0*	209.0*	209.0*	203.0*	196.0*	196.0*	190.0*	190.0*	184.0*	184.0 ⁱ			
-	B	461.0	530.0 ^a	442.0*	455.0 ⁱ	414.0	452.0 ⁱ	371.0	374.0 ⁱ	338.0	339.0 ⁱ	287.0*	291.0 ⁱ	249.0*	250.0 ⁱ		
70	-	203.0	208.0 ^a	202.0*	194.0*	194.0*	188.0*	188.0 ⁱ	182.0*	182.0*	176.0*	176.0*	171.0*	171.0*	166.0*	166.0 ⁱ	
-	B	420.0	510.0 ^a	423.0	455.0 ^a	396.0	451.0 ⁱ	364.0	375.0 ⁱ	334.0	338.0 ⁱ	291.0	291.0 ⁱ	248.0*	250.0 ⁱ		
75	-	190.0	191.0 ^a	188.0*	188.0*	181.0*	181.0*	175.0*	175.0*	169.0*	169.0*	164.0*	164.0*	159.0*	159.0 ⁱ		
-	B	368.0	493.0 ^a	403.0	455.0 ^a	379.0	447.0 ⁱ	353.0	376.0 ⁱ	326.0	337.0 ⁱ	289.0	290.0 ⁱ	250.0	250.0 ⁱ		
80	-	173.0 ^a	176.0*	176.0*	169.0*	164.0*	164.0*	158.0*	158.0*	153.0*	153.0*	148.0*	148.0*	145.0*	145.0*		
-	B	481.0 ^a	378.0	455.0 ⁱ	362.0	441.0 ⁱ	339.0	377.0 ⁱ	315.0	336.0 ⁱ	285.0	288.0 ⁱ	249.0	249.0	213.0	213.0 ⁱ	
85	-	157.0 ^a	164.0*	164.0 ⁱ	158.0*	158.0*	154.0*	154.0*	148.0*	148.0*	144.0*	144.0*	139.0*	139.0*	136.0*	136.0*	
-	B	464.0 ^a	352.0	449.0 ⁱ	342.0	435.0 ⁱ	324.0	376.0 ⁱ	304.0	335.0 ⁱ	279.0	287.0 ⁱ	247.0	247.0	212.0	212.0 ⁱ	
90	-	141.0 ^a	152.0*	149.0*	149.0*	144.0*	144.0*	139.0*	139.0*	135.0*	135.0*	131.0*	131.0*	128.0*	128.0*		
-	B	443.0 ^a	325.0	442.0 ⁱ	318.0	428.0 ⁱ	310.0	374.0 ⁱ	292.0	333.0 ⁱ	271.0	286.0 ⁱ	243.0	245.0 ⁱ	211.0	211.0 ⁱ	
95	-	129.0 ^a	138.0	138.0 ⁱ	139.0*	139.0*	136.0*	136.0 ⁱ	131.0*	131.0*	127.0*	127.0*	123.0*	123.0*	120.0*	120.0*	
-	B	422.0 ^a	296.0	422.0 ⁱ	298.0	415.0 ⁱ	295.0	372.0 ⁱ	281.0	330.0 ⁱ	262.0	285.0 ⁱ	236.0	243.0 ⁱ	209.0	210.0 ⁱ	
100	-	117.0 ^a	127.0 ⁱ	130.0*	130.0*	128.0*	128.0*	124.0*	124.0*	120.0*	120.0*	116.0*	116.0*	113.0*	113.0*		
-	B	401.0 ^a	403.0 ⁱ	280.0	397.0 ⁱ	275.0	371.0 ⁱ	268.0	326.0 ⁱ	253.0	282.0 ⁱ	230.0	241.0 ⁱ	208.0	208.0 ⁱ		
105	-	107.0 ^a	116.0 ⁱ	122.0*	122.0*	120.0*	120.0*	118.0*	118.0*	114.0*	114.0*	110.0*	110.0*	107.0*	107.0*		
-	B	380.0 ^a	383.0 ⁱ	261.0	379.0 ⁱ	257.0	359.0 ⁱ	255.0	323.0 ⁱ	245.0	280.0 ⁱ	223.0	239.0 ⁱ	206.0	208.0 ⁱ		
110	-	99.0 ^a	106.0 ⁱ	114.0*	114.0*	113.0*	113.0*	111.0*	111.0*	108.0*	108.0*	104.0*	104.0*	101.0*	101.0*		
-	B	360.0 ^a	364.0 ⁱ	244.0	361.0 ⁱ	241.0	346.0 ⁱ	240.0	320.0 ⁱ	236.0	277.0 ⁱ	216.0	235.0 ⁱ	203.0	207.0 ⁱ		
115	-	90.8 ^a	97.9 ⁱ	105.0	105.0	106.0*	106.0 ⁱ	104.0*	104.0*	102.0*	102.0*	98.8*	98.8*	96.3*	96.3*		
-	B	341.0 ^a	347.0 ⁱ	223.0	345.0 ⁱ	230.0	333.0 ⁱ	226.0	310.0 ⁱ	224.0	275.0 ⁱ	209.0	232.0 ⁱ	199.0	207.0 ⁱ		
120	-	82.6 ^a	89.6 ⁱ	96.1 ^a	100.0	100.0 ⁱ	98.1*	98.1*	96.0*	96.0*	93.8*	93.8*	91.5*	91.5*			
-	B	324.0 ^a	330.0 ⁱ	219.0	320.0 ⁱ	214.0	301.0 ⁱ	212.0	271.0 ⁱ	203.0	228.0 ⁱ	195.0	206.0 ⁱ	169.0	171.0 ⁱ		
125	-	74.4 ^a	82.8 ⁱ	88.2 ⁱ	95.0*	95.0*	92.7*	92.7*	90.6*	90.6*	88.7*	88.7*	87.0*	87.0*			
-	B	310.0 ^a	314.0 ⁱ	206.0	307.0 ⁱ	202.0	292.0 ⁱ	201.0	265.0 ⁱ	195.0	225.0 ⁱ	191.0	206.0 ⁱ	176.0	176.0 ⁱ		
130	-	68.5 ^a	76.7 ⁱ	81.4 ^a	90.0	90.0*	87.8*	87.8*	85.7*	85.7*	83.8*	83.8*	82.5*	82.5*			
-	B	297.0 ^a	299.0 ⁱ	194.0	294.0 ⁱ	193.0	282.0 ⁱ	190.0	259.0 ⁱ	188.0	221.0 ⁱ	185.0	203.0 ⁱ	167.0	171.0 ⁱ		
135	-	63.0 ^a	70.6 ⁱ	75.2 ⁱ	82.9	83.2*	83.2*	81.2*	81.2*	79.3*	79.3*	78.0*	78.0*	76.1*	76.1*		
-	B	284.0 ^a	285.0 ⁱ	182.0	282.0 ⁱ	186.0	273.0 ⁱ	181.0	253.0 ⁱ	180.0	218.0 ⁱ	179.0	201.0 ⁱ	165.0	170.0 ⁱ		
140	-	57.5 ^a	64.5 ⁱ	69.0 ^a	75.4 ⁱ	79.1*	79.1*	77.0*	77.0*	75.1*	75.1*	73.9*	73.9*	72.1*	72.1*		
-	B	271.0 ^a	274.0 ⁱ	270.0 ⁱ	270.0 ⁱ	176.0	264.0 ⁱ	174.0	247.0 ⁱ	171.0	214.0 ⁱ	170.0	198.0 ⁱ	163.0	169.0 ⁱ		
145	-	52.0 ^a	58.4 ⁱ	64.1 ^a	64.1 ⁱ	63.4*	75.2*	75.2*	73.1*	73.1*	71.2*	71.2*	70.0*	70.0*	68.2*	68.2*	
-	B	258.0 ^a	264.0 ⁱ	167.0	255.0 ⁱ	168.0	241.0 ⁱ	168.0	210.0 ⁱ	163.0	210.0 ⁱ	163.0	195.0 ⁱ	159.0	168.0 ⁱ		
150	-	47.4 ^a	53.6 ⁱ	59.3 ^a	64.4 ⁱ	71.7*	71.7*	69.5*	69.5*	67.7*	67.7*	66.5*	66.5*	64.7*	64.7*		
-	B	244.0 ^a	253.0 ⁱ	250.0 ⁱ	249.0 ⁱ	158.0	245.0 ⁱ	159.0	235.0 ⁱ	155.0	206.0 ⁱ	155.0	193.0 ⁱ	153.0	167.0 ⁱ		
155	-	43.4 ^a	49.3 ⁱ	54.5 ^a	59.6 ⁱ	66.1	66.1	66.3*	66.3*	64.4*	64.4*	63.2*	63.2*	61.4*	61.4*		
-	B	231.0 ^a	242.0 ⁱ	240.0 ⁱ	148.0	237.0 ⁱ	152.0	229.0 ⁱ	148.0	202.0 ⁱ	148.0	189.0 ⁱ	147.0	166.0 ⁱ	125.0	133.0 ⁱ	
160	-	39.4 ^a	45.0 ⁱ	49.8 ⁱ	54.7 ⁱ	59.3 ⁱ	63.2*	63.2*	61.3*	61.3*	60.1*	60.1*	58.4*	58.4*	56.6*	56.6*	
-	B	218.0 ^a	231.0 ⁱ	234.0 ⁱ	232.0 ⁱ	229.0 ⁱ	144.0	223.0 ⁱ	142.0	198.0 ⁱ	141.0	184.0 ⁱ	141.0	165.0 ⁱ	122.0	132.0 ⁱ	
165	-	35.4 ^a	40.7 ⁱ	45.0 ⁱ	50.8 ⁱ	54.7 ⁱ	60.3*	60.3*	58.4*	58.4*	57.2*	57.2*	55.5*	55.5*	53.7*	53.7*	
-	B	206.0 ^a	221.0 ⁱ	226.0 ⁱ	223.0 ⁱ	221.0 ⁱ	138.0	217.0 ⁱ	138.0	194.0 ⁱ	135.0	180.0 ⁱ	135.0	162.0 ⁱ	120.0	130.0 ⁱ	
170	-	36.8 ^a	41.0 ⁱ	47.0 ⁱ	50.8 ⁱ	57.7*	57.7*	55.7*	55.7*	54.5*	54.5*	52.8*	52.8*	51.0*	51.0*	49.4*	49.4*
-	B	210.0 ^a	217.0 ⁱ	215.0 ⁱ	213.0 ⁱ	130.0	210.0 ⁱ	133.0	191.0 ⁱ	129.0	177.0 ⁱ	129.0	159.0 ⁱ	117.0	129.0 ⁱ	114.0	119.0 ⁱ
175	-	33.6 ^a	37.5 ⁱ	43.1 ⁱ	46.8 ⁱ	53.2	53.2*	53.2*	52.0*	52.0*	50.3*	50.3*	48.5*	48.5*	46.9*	46.9*	
-	B	199.0 ^a	208.0 ⁱ	208.0 ⁱ	206.0 ⁱ	177.0	187.0 ⁱ	127.0	187.0 ⁱ	125.0	175.0 ⁱ	123.0	156.0 ⁱ	114.0	127.0 ⁱ	113.0	118.0 ⁱ
180	-	30.3 ^a	33.9 ⁱ	39.2 ⁱ	43.0 ⁱ	46.8 ⁱ	50.9*	50.9*	49.6*	49.6*	47.9*	47.9*	46.2*	46.2*	44.		

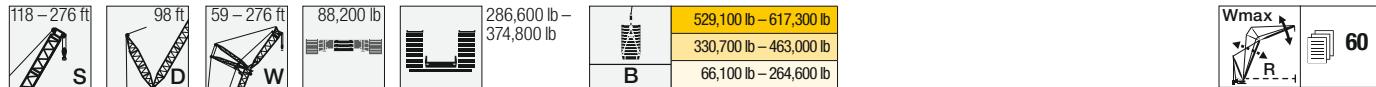


	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb



ft	S 138																							
	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276	
	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		
210	-				20.4 ⁽¹⁾	23.9 ⁽¹⁾	28.2 ⁽¹⁾	31.1 ⁽¹⁾	38.3 [*]	38.3 [*]	36.3 [*]	36.3 [*]	34.6 [*]	34.6 [*]	33.0 [*]	33.0 [*]	33.0 [*]	33.0 [*]	33.0 [*]	33.0 [*]	31.2 [*]	31.2 [*]		
215	-	B			160.0 ⁽¹⁾	162.0 ⁽¹⁾	158.0 ⁽¹⁾	156.0 ⁽¹⁾	93.9	151.0 ⁽¹⁾	95.6	140.0 ⁽¹⁾	94.2	115.0 ⁽¹⁾	91.8	110.0 ⁽¹⁾	90.3	95.1 ⁽¹⁾						
220	-	B			18.4 ⁽¹⁾	21.6 ⁽¹⁾	25.5 ⁽¹⁾	28.4 ⁽¹⁾	34.9	34.9	34.7 [*]	34.7 [*]	33.0 [*]	33.0 [*]	31.5 [*]	31.5 [*]	29.9 [*]	29.9 [*]	28.2 [*]	28.2 [*]	29.7 [*]	29.7 [*]		
225	-	B			16.4 ⁽¹⁾	19.3 ⁽¹⁾	22.8 ⁽¹⁾	25.9 ⁽¹⁾	29.2 ⁽¹⁾	33.2 [*]	33.2 [*]	31.5 [*]	31.5 [*]	29.9 [*]	29.9 [*]	28.2 [*]	28.2 [*]	28.2 [*]	28.2 [*]	28.2 [*]	28.2 [*]			
230	-	B			145.0 ⁽¹⁾	152.0 ⁽¹⁾	156.0 ⁽¹⁾	153.0 ⁽¹⁾	151.0 ⁽¹⁾	84.4	147.0 ⁽¹⁾	91.9	137.0 ⁽¹⁾	91.6	113.0 ⁽¹⁾	88.3	108.0 ⁽¹⁾	87.0	94.4 ⁽¹⁾					
235	-	B			14.5 ⁽¹⁾	17.7 ⁽¹⁾	21.6 ⁽¹⁾	24.5 ⁽¹⁾	30.6 [*]	30.6 [*]	28.8 [*]	28.8 [*]	27.1 [*]	25.4 [*]	25.4 [*]	25.4 [*]	25.4 [*]							
240	-	B			140.0 ⁽¹⁾	140.0 ⁽¹⁾	140.0 ⁽¹⁾	139.0 ⁽¹⁾	136.0 ⁽¹⁾	80.6	128.0 ⁽¹⁾	81.7	108.0 ⁽¹⁾	81.3	103.0 ⁽¹⁾	77.9	92.4 ⁽¹⁾							
245	-	B			12.7 ⁽¹⁾	15.8 ⁽¹⁾	19.4 ⁽¹⁾	22.1 ⁽¹⁾	27.7	27.7	27.5 [*]	27.5 [*]	25.8 [*]	25.8 [*]	24.1 [*]	24.1 [*]								
250	-	B			134.0 ⁽¹⁾	134.0 ⁽¹⁾	135.0 ⁽¹⁾	134.0 ⁽¹⁾	133.0 ⁽¹⁾	72.2	125.0 ⁽¹⁾	78.7	107.0 ⁽¹⁾	78.5	102.0 ⁽¹⁾	75.3	90.8 ⁽¹⁾							
255	-	B			10.9 ⁽¹⁾	14.0 ⁽¹⁾	17.2 ⁽¹⁾	20.1 ⁽¹⁾	22.2 ⁽¹⁾	26.3 [*]	26.3 [*]	24.5 [*]	24.5 [*]	22.8 [*]	22.8 [*]	22.8 [*]	22.8 [*]							
260	-	B			127.0 ⁽¹⁾	130.0 ⁽¹⁾	129.0 ⁽¹⁾	128.0 ⁽¹⁾	122.0 ⁽¹⁾	75.7	105.0 ⁽¹⁾	75.7	101.0 ⁽¹⁾	73.7	89.1 ⁽¹⁾									
265	-	B			12.1 ⁽¹⁾	14.3 ⁽¹⁾	18.4 ⁽¹⁾	20.4 ⁽¹⁾	25.2 [*]	25.2 [*]	23.4 [*]	23.4 [*]	21.8 [*]	21.8 [*]										
270	-	B			126.0 ⁽¹⁾	124.0 ⁽¹⁾	124.0 ⁽¹⁾	119.0 ⁽¹⁾	119.0 ⁽¹⁾	72.5	104.0 ⁽¹⁾	73.0	98.9 ⁽¹⁾	72.1	87.3 ⁽¹⁾									
275	-	B			9.5 ⁽¹⁾	12.6 ⁽¹⁾	16.6 ⁽¹⁾	18.6 ⁽¹⁾	24.3 [*]	24.3 [*]	22.2 [*]	22.2 [*]	20.8 [*]	20.8 [*]										
280	-	B			120.0 ⁽¹⁾	120.0 ⁽¹⁾	120.0 ⁽¹⁾	116.0 ⁽¹⁾	116.0 ⁽¹⁾	69.1	102.0 ⁽¹⁾	70.3	97.1 ⁽¹⁾	69.6	86.0 ⁽¹⁾									
285	-	B			7.7 ⁽¹⁾	11.0 ⁽¹⁾	14.8 ⁽¹⁾	16.8 ⁽¹⁾	21.7	21.7	21.3 [*]	21.3 [*]	19.9 [*]	19.9 [*]										
290	-	B			116.0 ⁽¹⁾	116.0 ⁽¹⁾	116.0 ⁽¹⁾	113.0 ⁽¹⁾	113.0 ⁽¹⁾	61.7	100.0 ⁽¹⁾	67.8	95.4 ⁽¹⁾	67.2	84.9 ⁽¹⁾									
295	-	B			9.3 ⁽¹⁾	11.1 ⁽¹⁾	11.0 ⁽¹⁾	11.0 ⁽¹⁾	11.0 ⁽¹⁾	98.8 ⁽¹⁾	65.2	93.6 ⁽¹⁾	64.7	83.7 ⁽¹⁾										
300	-	B			108.0 ⁽¹⁾	108.0 ⁽¹⁾	108.0 ⁽¹⁾	107.0 ⁽¹⁾	107.0 ⁽¹⁾	13.5 ⁽¹⁾	15.6 ⁽¹⁾	19.7 [*]	19.7 [*]	18.2 [*]	18.2 [*]									
305	-	B			105.0 ⁽¹⁾	105.0 ⁽¹⁾	104.0 ⁽¹⁾	104.0 ⁽¹⁾	104.0 ⁽¹⁾	10.3 ⁽¹⁾	12.5 ⁽¹⁾	17.0	17.0	16.7 [*]	16.7 [*]									
310	-	B			102.0 ⁽¹⁾	102.0 ⁽¹⁾	101.0 ⁽¹⁾	101.0 ⁽¹⁾	94.1 ⁽¹⁾	51.9	88.5 ⁽¹⁾	58.0	80.0 ⁽¹⁾											
315	-	B			99.2 ⁽¹⁾	98.8 ⁽¹⁾	98.0 ⁽¹⁾	86.6 ⁽¹⁾	86.6 ⁽¹⁾	8.6 ⁽¹⁾	10.8 ⁽¹⁾	12.6 ⁽¹⁾	12.6 ⁽¹⁾	16.0 [*]	16.0 [*]									
320	-	B			96.1 ⁽¹⁾	95.0 ⁽¹⁾	90.2 ⁽¹⁾	90.2 ⁽¹⁾	90.2 ⁽¹⁾	96.1 ⁽¹⁾	95.0 ⁽¹⁾	98.5 ⁽¹⁾	98.5 ⁽¹⁾	11.2 ⁽¹⁾	11.2 ⁽¹⁾	15.4 [*]	15.4 [*]							
325	-	B			93.6 ⁽¹⁾	92.5 ⁽¹⁾	88.3 ⁽¹⁾	88.3 ⁽¹⁾	88.3 ⁽¹⁾	93.6 ⁽¹⁾	92.5 ⁽¹⁾	98.3 ⁽¹⁾	98.3 ⁽¹⁾	9.8 ⁽¹⁾	9.8 ⁽¹⁾	14.9 [*]	14.9 [*]							
330	-	B			91.2 ⁽¹⁾	90.1 ⁽¹⁾	86.3 ⁽¹⁾	86.3 ⁽¹⁾	86.3 ⁽¹⁾	91.2 ⁽¹⁾	90.1 ⁽¹⁾	96.3 ⁽¹⁾	96.3 ⁽¹⁾	13.0	13.0									
335	-	B			89.2 ⁽¹⁾	87.6 ⁽¹⁾	84.5 ⁽¹⁾	84.5 ⁽¹⁾	84.5 ⁽¹⁾	89.2 ⁽¹⁾	87.6 ⁽¹⁾	91.6 ⁽¹⁾	91.6 ⁽¹⁾	11.2 ⁽¹⁾	11.2 ⁽¹⁾	15.4 [*]	15.4 [*]							
340	-	B			85.6 ⁽¹⁾	83.1 ⁽¹⁾	78.6 ⁽¹⁾	78.6 ⁽¹⁾	78.6 ⁽¹⁾	85.6 ⁽¹⁾	83.1 ⁽¹⁾	88.6 ⁽¹⁾	88.6 ⁽¹⁾	11.2 ⁽¹⁾	11.2 ⁽¹⁾	15.4 [*]	15.4 [*]							
345	-	B			83.3 ⁽¹⁾	80.3 ⁽¹⁾	77.2 ⁽¹⁾	77.2 ⁽¹⁾	77.2 ⁽¹⁾	83.3 ⁽¹⁾	80.3 ⁽¹⁾	87.2 ⁽¹⁾	87.2 ⁽¹⁾	7.2 ⁽¹⁾	7.2 ⁽¹⁾	14.9 [*]	14.9 [*]							
350	-	B			81.5 ⁽¹⁾	78.3 ⁽¹⁾	75.7 ⁽¹⁾	75.7 ⁽¹⁾	75.7 ⁽¹⁾	81.5 ⁽¹⁾	78.3 ⁽¹⁾	84.7 ⁽¹⁾	84.7 ⁽¹⁾	7.2 ⁽¹⁾	7.2 ⁽¹⁾	14.9 [*]	14.9 [*]							
355	-	B			77.9 ⁽¹⁾	76.4 ⁽¹⁾	74.9 ⁽¹⁾	74.9 ⁽¹⁾	74.9 ⁽¹⁾	77.9 ⁽¹⁾	76.4 ⁽¹⁾	82.7 ⁽¹⁾	82.7 ⁽¹⁾	6.8 ⁽¹⁾	6.8 ⁽¹⁾	14.9 [*]	14.9 [*]							
360	-	B			72.6 ⁽¹⁾	70.5 ⁽¹⁾	68.3 ⁽¹⁾	68.3 ⁽¹⁾	68.3 ⁽¹⁾	72.6 ⁽¹⁾	70.5 ⁽¹⁾	77.3 ⁽¹⁾	77.3 ⁽¹⁾	6.8 ⁽¹⁾	6.8 ⁽¹⁾	14.9 [*]	14.9 [*]							
365	-	B			68.3 ⁽¹⁾	66.6 ⁽¹⁾	64.0 ⁽¹⁾	64.0 ⁽¹⁾	64.0 ⁽¹⁾	68.3 ⁽¹⁾	66.6 ⁽¹⁾	74.3 ⁽¹⁾	74.3 ⁽¹⁾	6.8 ⁽¹⁾	6.8 ⁽¹⁾	14.9 [*]	14.9 [*]							
370	-	B			64.0 ⁽¹⁾	62.8 ⁽¹⁾	60.6 ⁽¹⁾	60.6 ⁽¹⁾	60.6 ⁽¹⁾	64.0 ⁽¹⁾	62.8 ⁽¹⁾	68.3 ⁽¹⁾	68.3 ⁽¹⁾	6.8 ⁽¹⁾	6.8 ⁽¹⁾	14.9 [*]	14.9 [*]							
375	-	B			59.1 ⁽¹⁾	57.5 ⁽¹⁾	55.2 ⁽¹⁾	55.2 ⁽¹⁾	55.2 ⁽¹⁾	59.1 ⁽¹⁾	57.5 ⁽¹⁾	65.2 ⁽¹⁾	65.2 ⁽¹⁾	5.9 ⁽¹⁾	5.9 ⁽¹⁾	14.9 [*]	14.9 [*]							
380	-	B			55.2 ⁽¹⁾	53.0 ⁽¹⁾	52.2 ⁽¹⁾	52.2 ⁽¹⁾	52.2 ⁽¹⁾	55.2 ⁽¹⁾	53.0 ⁽¹⁾	61.4 ⁽¹⁾	61.4 ⁽¹⁾	5.0 ⁽¹⁾	5.0 ⁽¹⁾	14.9 [*]	14.9 [*]							

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



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	ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276					
		85	Wmax	87*85	Wmax																								
40	-			339.0*	339.0 ⁽¹⁾																								
45	-	305.0	314.0 ⁽¹⁾	303.0*	303.0*	291.0*	291.0*																						
50	-	551.0	551.0	437.0*	445.0 ⁽¹⁾	419.0*	419.0*	275.0*	275.0*	263.0*	263.0*	255.0*	255.0*																
55	-	537.0	551.0 ⁽¹⁾	446.0	447.0 ⁽¹⁾	411.0*	419.0 ⁽¹⁾	346.0*	346.0*	240.0*	240.0*	232.0*	232.0*	224.0*	224.0*														
60	-	250.0	256.0*	249.0*	249.0*	240.0*	240.0*	232.0*	232.0*	224.0*	224.0*	224.0*	224.0*	224.0*	224.0*														
65	-	509.0	551.0 ⁽¹⁾	442.0	449.0 ⁽¹⁾	419.0*	419.0*	346.0*	346.0 ⁽¹⁾	309.0*	309.0*	213.0*	213.0*	206.0*	206.0*	199.0*	199.0*												
70	-	229.0	234.0*	228.0*	228.0*	220.0*	220.0*	213.0*	213.0*	213.0*	213.0*	213.0*	213.0*	213.0*	213.0*	213.0*	213.0*												
75	-	485.0	551.0 ⁽¹⁾	439.0	450.0 ⁽¹⁾	411.0	419.0 ⁽¹⁾	346.0	346.0 ⁽¹⁾	308.0*	309.0 ⁽¹⁾	210.0*	210.0*	197.0*	197.0*	190.0*	190.0*	184.0*	184.0*	179.0*	179.0*								
80	-	211.0	217.0*	211.0*	211.0*	203.0*	203.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*	197.0*					
85	-	458.0	539.0 ⁽¹⁾	429.0	451.0 ⁽¹⁾	397.0	419.0 ⁽¹⁾	346.0	346.0 ⁽¹⁾	309.0	309.0 ⁽¹⁾	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*				
90	-	196.0	202.0 ⁽¹⁾	196.0*	196.0*	188.0*	188.0*	183.0*	183.0*	183.0*	183.0*	177.0*	177.0*	171.0*	171.0*	166.0*	166.0*	162.0*	162.0*	162.0*	162.0*	162.0*	162.0*	162.0*	162.0*				
95	-	424.0	521.0 ⁽¹⁾	410.0	451.0 ⁽¹⁾	382.0	419.0 ⁽¹⁾	344.0	346.0 ⁽¹⁾	309.0	309.0 ⁽¹⁾	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*				
100	-	182.0	185.0 ⁽¹⁾	182.0*	182.0*	175.0*	175.0*	170.0*	170.0*	165.0*	165.0*	160.0*	160.0*	155.0*	155.0*	151.0*	151.0*	145.0*	145.0*	145.0*	145.0*	145.0*	145.0*	145.0*	145.0*				
105	-	481.0	502.0 ⁽¹⁾	395.0	453.0 ⁽¹⁾	368.0	419.0 ⁽¹⁾	339.0	346.0 ⁽¹⁾	308.0	309.0 ⁽¹⁾	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*	230.0*				
110	-	172.0	172.0*	171.0*	171.0*	164.0*	164.0*	159.0*	159.0*	154.0*	154.0*	149.0*	149.0*	145.0*	145.0*	141.0*	141.0*	136.0*	136.0*	132.0*	132.0*	132.0*	132.0*	132.0*	132.0*				
115	-	116.0 ⁽¹⁾	127.0	129.0	129.0*	126.0*	126.0*	121.0*	121.0*	117.0*	117.0*	114.0*	114.0*	111.0*	111.0*	106.0*	106.0*	103.0*	103.0*	100.0*	100.0*	96.5*	96.5*	96.5*	96.5*				
120	-	400.0 ⁽¹⁾	238.0	398.0 ⁽¹⁾	296.0	386.0 ⁽¹⁾	283.0	346.0 ⁽¹⁾	264.0	307.0 ⁽¹⁾	221.0	267.0 ⁽¹⁾	221.0	229.0 ⁽¹⁾	196.0	196.0 ⁽¹⁾	167.0	167.0 ⁽¹⁾	143.0	144.0 ⁽¹⁾	123.0	123.0 ⁽¹⁾	103.0	104.0 ⁽¹⁾					
125	-	105.0 ⁽¹⁾	121.0*	121.0*	119.0*	119.0*	115.0*	115.0*	110.0*	111.0*	107.0*	107.0*	105.0*	105.0*	101.0*	101.0*	97.5*	97.5*	94.4*	94.4*	91.1*	91.1*							
130	-	96.3 ⁽¹⁾	105.0 ⁽¹⁾	113.0*	113.0*	112.0*	112.0*	109.0*	109.0*	105.0*	105.0*	102.0*	102.0*	99.4*	99.4*	95.4*	95.4*	92.2*	92.2*	89.4*	89.4*	86.1*	86.1*						
135	-	361.0 ⁽¹⁾	361.0 ⁽¹⁾	262.0	355.0 ⁽¹⁾	262.0	337.0 ⁽¹⁾	239.0	304.0 ⁽¹⁾	230.0	265.0 ⁽¹⁾	210.0	271.0 ⁽¹⁾	194.0	196.0 ⁽¹⁾	165.0	166.0 ⁽¹⁾	139.0	141.0 ⁽¹⁾	122.0	122.0 ⁽¹⁾	102.0	102.0 ⁽¹⁾						
140	-	89.1 ⁽¹⁾	96.4 ⁽¹⁾	103.0	103.0 ⁽¹⁾	105.0*	105.0 ⁽¹⁾	103.0*	103.0*	99.9*	99.9*	96.7*	96.7*	94.3*	94.3*	90.4*	90.4*	87.3*	87.3*	84.5*	84.5*	81.5*	81.5*						
145	-	343.0 ⁽¹⁾	344.0 ⁽¹⁾	232.0	340.0 ⁽¹⁾	247.0	333.0 ⁽¹⁾	241.0	302.0 ⁽¹⁾	226.0	263.0 ⁽¹⁾	204.0	223.0 ⁽¹⁾	192.0	196.0 ⁽¹⁾	163.0	165.0 ⁽¹⁾	137.0	140.0 ⁽¹⁾	121.0	121.0 ⁽¹⁾	101.0	102.0 ⁽¹⁾						
150	-	81.8 ⁽¹⁾	88.7 ⁽¹⁾	95.5 ⁽¹⁾	95.5 ⁽¹⁾	95.5*	95.5*	94.7*	94.7*	95.1*	95.1*	91.9*	91.9*	89.7*	89.7*	85.8*	85.8*	82.9*	82.9*	80.2*	80.2*	77.3*	77.3*						
155	-	326.0 ⁽¹⁾	328.0 ⁽¹⁾	326.0 ⁽¹⁾	326.0 ⁽¹⁾	327.0	321.0 ⁽¹⁾	230.0	299.0 ⁽¹⁾	220.0	262.0 ⁽¹⁾	197.0	220.0 ⁽¹⁾	189.0	196.0 ⁽¹⁾	163.0	165.0 ⁽¹⁾	136.0	139.0 ⁽¹⁾	120.0	121.0 ⁽¹⁾	101.0	101.0 ⁽¹⁾						
160	-	74.8 ⁽¹⁾	80.3 ⁽¹⁾	89.2*	89.2*	87.2*	87.2*	85.0*	85.0*	83.2*	83.2*	81.3*	81.3*	77.7*	77.7*	74.8*	74.8*	72.3*	72.3*	69.5*	69.5*								
165	-	74.6 ⁽¹⁾	80.9 ⁽¹⁾	87.9 ⁽¹⁾	94.1*	94.1*	92.0*	92.0*	89.9*	89.9*	87.5*	87.5*	85.3*	85.3*	81.6*	81.6*	78.7*	78.7*	76.1*	76.1*	73.3*	73.3*							
170	-	310.0 ⁽¹⁾	314.0 ⁽¹⁾	223.0	309.0 ⁽¹⁾	219.0	297.0 ⁽¹⁾	214.0	260.0 ⁽¹⁾	191.0	218.0 ⁽¹⁾	186.0	196.0 ⁽¹⁾	161.0	164.0 ⁽¹⁾	134.0	137.0 ⁽¹⁾	120.0	120.0 ⁽¹⁾	100.0	100.0 ⁽¹⁾								
175	-	67.3 ⁽¹⁾	74.8 ⁽¹⁾	80.3 ⁽¹⁾	89.2*	89.2*	87.2*	87.2*	85.0*	85.0*	83.2*	83.2*	81.3*	81.3*	77.7*	77.7*	74.8*	74.8*	72.3*	72.3*	69.5*	69.5*							
180	-	295.0 ⁽¹⁾	300.0 ⁽¹⁾	299.0	207.0	297.0 ⁽¹⁾	208.0	288.0 ⁽¹⁾	206.0	258.0 ⁽¹⁾	186.0	215.0 ⁽¹⁾	152.0	195.0 ⁽¹⁾	120.0	164.0 ⁽¹⁾	132.0	136.0 ⁽¹⁾	119.0	119.0 ⁽¹⁾	99.4	99.6 ⁽¹⁾							
185	-	60.5 ⁽¹⁾	69.2 ⁽¹⁾	74.3 ⁽¹⁾	81.7	81.7	82.5*	82.5*	80.5*	80.5*	78.7*	78.7*	75.7*	75.7*	72.7*	72.7*	70.4*	70.4*	67.1*	67.1*	64.7*	64.7*	62.4*	62.4*	59.8*	59.8*			
190	-	281.0 ⁽¹⁾	288.0 ⁽¹⁾	286.0 ⁽¹⁾	185.0	285.0 ⁽¹⁾	201.0	278.0 ⁽¹⁾	196.0	256.0 ⁽¹⁾	180.0	212.0 ⁽¹⁾	178.0	194.0 ⁽¹⁾	159.0	164.0 ⁽¹⁾	130.0	134.0 ⁽¹⁾	118.0	119.0 ⁽¹⁾	98.7	99.0 ⁽¹⁾							
195	-	55.7 ⁽¹⁾	63.7 ⁽¹⁾	68.5 ⁽¹⁾	74.9 ⁽¹⁾	78.4*	78.4*	76.4*	76.4*	74.6*	74.6*	73.4*	73.4*	70.6*	70.6*	67.9*	67.9*	65.4*	65.4*	62.8*	62.8*								
200	-	269.0 ⁽¹⁾	275.0 ⁽¹⁾	275.0 ⁽¹⁾	273.0 ⁽¹⁾	191.0	268.0 ⁽¹⁾	188.0	250.0 ⁽¹⁾	174.0	209.0 ⁽¹⁾	174.0	192.0 ⁽¹⁾	158.0	163.0 ⁽¹⁾	128.0	133.0 ⁽¹⁾	117.0	118.0 ⁽¹⁾	98.0	98.6 ⁽¹⁾								
205	-	51.0 ⁽¹⁾	58.2 ⁽¹⁾	62.6 ⁽¹⁾	69.0 ⁽¹⁾	74.5*	74.5*	72.5*	72.5*	70.7*	70.7*	69.6*	69.6*	67.1*	67.1*	64.7*	64.7*	62.4*	62.4*	59.8*	59.8*								
210	-	258.0 ⁽¹⁾	263.0 ⁽¹⁾	264.0 ⁽¹⁾	263.0 ⁽¹⁾	181.0	259.0 ⁽¹⁾	181.0	243.0 ⁽¹⁾	169.0	206.0 ⁽¹⁾	170.0	191.0 ⁽¹⁾	156.0	163.0 ⁽¹⁾	126.0	133.0 ⁽¹⁾	116.0	118.0 ⁽¹⁾	97.3	98.2 ⁽¹⁾								
215	-	46.3 ⁽¹⁾	52.6 ⁽¹⁾	58.0 ⁽¹⁾	63.5 ⁽¹⁾	71.0*	71.0*	69.0*	69.0*	67.2*	67.2*	66.0*	66.0*	63.6*	63.6*	61.7*	61.7*	59.5*	59.5*	56.9*	56.9*								
220	-	247.0 ⁽¹⁾	251.0 ⁽¹⁾	252.0 ⁽¹⁾	252.0 ⁽¹⁾	167.0	249.0 ⁽¹⁾	173.0	236.0 ⁽¹⁾	163.0	203.0 ⁽¹⁾	163.0	189.0 ⁽¹⁾	154.0	163.0 ⁽¹⁾	124.0	131.0 ⁽¹⁾	115.0	117.0 ⁽¹⁾	96.7	97.8 ⁽¹⁾								
225	-	41.5 ⁽¹⁾	47.3 ⁽																										

			286,600 lb – 374,800 lb		529,100 lb - 617,300 lb 330,700 lb - 463,000 lb		66,100 lb - 264,600 lb	
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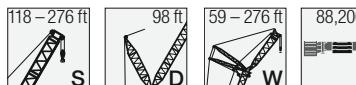
S 157																									
ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276		
	85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	
220	-						15.1 ⁽¹⁾	18.3 ⁽²⁾	22.6 ⁽¹⁾	25.1 ⁽¹⁾	28.9 ⁽¹⁾	32.4*	32.4*	30.7*	30.7*	29.1*	29.1*	29.1*	29.1*	27.4*	27.4*	27.4*	27.4*		
225	-	B					151.0 ⁽¹⁾	154.0 ⁽²⁾	153.0 ⁽³⁾	151.0 ⁽³⁾	149.0 ⁽²⁾	92.1	140.0 ⁽²⁾	89.9	112.0 ⁽²⁾	92.7	108.0 ⁽⁴⁾	87.2	92.3 ⁽⁴⁾						
230	-	B					13.2 ⁽¹⁾	16.3 ⁽²⁾	20.1 ⁽¹⁾	22.8 ⁽¹⁾	26.3 ⁽¹⁾	31.1*	31.1*	29.3*	29.3*	27.7*	27.7*	27.7*	27.7*	25.9*	25.9*	25.9*	25.9*		
235	-	B					11.3 ⁽¹⁾	14.3 ⁽²⁾	17.7 ⁽¹⁾	20.8 ⁽¹⁾	24.1 ⁽¹⁾	29.8*	29.8*	28.0*	28.0*	26.3*	26.3*	26.3*	26.3*	24.6*	24.6*	24.6*	24.6*		
240	-	B					139.0 ⁽¹⁾	144.0 ⁽²⁾	143.0 ⁽³⁾	142.0 ⁽³⁾	141.0 ⁽²⁾	79.8	134.0 ⁽²⁾	85.0	109.0 ⁽²⁾	88.6	105.0 ⁽⁴⁾	83.7	91.5 ⁽⁴⁾						
245	-	B					9.4 ⁽¹⁾	12.4 ⁽²⁾	14.7 ⁽¹⁾	18.8 ⁽¹⁾	21.9 ⁽¹⁾	26.6	26.6	26.7*	26.7*	25.0*	25.0*	25.0*	25.0*	23.3*	23.3*	23.3*	23.3*		
250	-	B					133.0 ⁽¹⁾	140.0 ⁽²⁾	139.0 ⁽³⁾	137.0 ⁽³⁾	137.0 ⁽²⁾	71.6	131.0 ⁽²⁾	81.6	107.0 ⁽²⁾	85.4	103.0 ⁽⁴⁾	81.7	91.0 ⁽⁴⁾						
255	-	B					12.9 ⁽¹⁾	16.8 ⁽²⁾	19.7 ⁽¹⁾	21.6 ⁽¹⁾	25.5*	25.5*	23.8*	23.8*	22.1*	22.1*	22.1*	22.1*	21.1*	21.1*	21.1*	21.1*			
260	-	B					133.0 ⁽¹⁾	134.0 ⁽²⁾	133.0 ⁽³⁾	133.0 ⁽³⁾	128.0 ⁽²⁾	77.7	106.0 ⁽²⁾	82.0	102.0 ⁽³⁾	79.8	90.1 ⁽⁴⁾								
265	-	B					11.0 ⁽¹⁾	14.7 ⁽²⁾	17.8 ⁽¹⁾	19.6 ⁽¹⁾	24.4*	24.4*	22.6*	22.6*	21.1*	21.1*	21.1*	21.1*	21.1*	21.1*	21.1*	21.1*	21.1*		
270	-	B					127.0 ⁽¹⁾	130.0 ⁽²⁾	129.0 ⁽³⁾	128.0 ⁽³⁾	125.0 ⁽²⁾	73.4	104.0 ⁽²⁾	78.5	101.0 ⁽³⁾	78.0	89.1 ⁽⁴⁾								
275	-	B					9.1 ⁽¹⁾	12.7 ⁽²⁾	16.0 ⁽¹⁾	17.8 ⁽¹⁾	23.5*	23.5*	21.6*	21.6*	20.2*	20.2*	20.2*	20.2*	20.2*	20.2*	20.2*	20.2*			
280	-	B					122.0 ⁽¹⁾	127.0 ⁽²⁾	125.0 ⁽³⁾	124.0 ⁽³⁾	122.0 ⁽²⁾	67.8	103.0 ⁽²⁾	74.9	99.9 ⁽³⁾	75.5	88.1 ⁽⁴⁾								
285	-	B					7.3 ⁽¹⁾	116.0 ⁽²⁾	124.0 ⁽³⁾	121.0 ⁽³⁾	118.0 ⁽²⁾	16.1 ⁽¹⁾	20.8	20.8	20.7*	19.3*	19.3*								
290	-	B					119.0 ⁽¹⁾	119.0 ⁽²⁾	118.0 ⁽³⁾	118.0 ⁽³⁾	115.0 ⁽²⁾	12.4 ⁽¹⁾	14.3 ⁽¹⁾	16.4 ⁽¹⁾	19.9*	19.9*	18.4*	18.4*	18.4*	18.4*	18.4*	18.4*	18.4*		
295	-	B					114.0 ⁽¹⁾	115.0 ⁽²⁾	114.0 ⁽³⁾	114.0 ⁽³⁾	112.0 ⁽²⁾	8.8 ⁽¹⁾	11.3 ⁽¹⁾	13.3 ⁽¹⁾	18.4*	18.4*	16.8*	16.8*							
300	-	B					109.0 ⁽¹⁾	113.0 ⁽²⁾	112.0 ⁽³⁾	112.0 ⁽³⁾	109.0 ⁽²⁾	97.5 ⁽²⁾	57.7	95.0 ⁽³⁾	63.5	83.9 ⁽⁴⁾									
305	-	B					105.0 ⁽¹⁾	111.0 ⁽²⁾	109.0 ⁽³⁾	109.0 ⁽³⁾	106.0 ⁽²⁾	96.2 ⁽²⁾	51.3	93.5 ⁽³⁾	60.0	83.0 ⁽⁴⁾									
310	-	B					97.8 ⁽¹⁾	101.0 ⁽²⁾	98.9 ⁽³⁾	98.9 ⁽³⁾	92.2 ⁽²⁾	84.6 ⁽²⁾	51.3	93.5 ⁽³⁾	60.0	83.0 ⁽⁴⁾									
315	-	B					93.8 ⁽¹⁾	99.9 ⁽²⁾	96.2 ⁽³⁾	96.2 ⁽³⁾	90.9 ⁽²⁾	73.7 ⁽²⁾	74.8 ⁽²⁾	73.4 ⁽²⁾	69.9 ⁽¹⁾	69.9 ⁽¹⁾	62.2	62.2	62.2	62.2	62.2	62.2	62.2		
320	-	B					106.0 ⁽¹⁾	106.0 ⁽²⁾	104.0 ⁽³⁾	104.0 ⁽³⁾	94.9 ⁽²⁾	81.9 ⁽²⁾	81.5 ⁽²⁾	79.8 ⁽²⁾	78.0 ⁽¹⁾	78.0 ⁽¹⁾									
325	-	B					102.0 ⁽¹⁾	104.0 ⁽²⁾	101.0 ⁽³⁾	101.0 ⁽³⁾	93.6 ⁽²⁾	79.2 ⁽²⁾	79.2 ⁽²⁾	77.7 ⁽²⁾	77.7 ⁽¹⁾	77.7 ⁽¹⁾	72.7 ⁽¹⁾	72.7 ⁽¹⁾							
330	-	B					88.1 ⁽¹⁾	87.5 ⁽²⁾	86.2 ⁽³⁾	86.2 ⁽³⁾	76.4 ⁽²⁾	76.4 ⁽²⁾	76.8 ⁽²⁾	76.8 ⁽²⁾	75.6 ⁽³⁾	75.6 ⁽³⁾	71.6 ⁽³⁾	71.6 ⁽³⁾							
335	-	B					84.6 ⁽¹⁾	86.1 ⁽²⁾	83.8 ⁽³⁾	83.8 ⁽³⁾	73.7 ⁽²⁾	73.7 ⁽²⁾	74.8 ⁽²⁾	74.8 ⁽²⁾	73.4 ⁽³⁾	73.4 ⁽³⁾	70.2 ⁽³⁾	70.2 ⁽³⁾							
340	-	B					81.9 ⁽¹⁾	81.5 ⁽²⁾	81.5 ⁽³⁾	81.5 ⁽³⁾	72.4 ⁽²⁾	72.4 ⁽²⁾	71.3 ⁽²⁾	71.3 ⁽²⁾	68.7 ⁽³⁾	68.7 ⁽³⁾	65.1 ⁽³⁾	65.1 ⁽³⁾							
345	-	B					79.2 ⁽¹⁾	79.2 ⁽²⁾	79.2 ⁽³⁾	79.2 ⁽³⁾	70.5 ⁽²⁾	70.5 ⁽²⁾	69.4 ⁽²⁾	69.4 ⁽²⁾	66.9 ⁽³⁾	66.9 ⁽³⁾	63.5 ⁽³⁾	63.5 ⁽³⁾							
350	-	B					76.4 ⁽¹⁾	76.8 ⁽²⁾	76.8 ⁽³⁾	76.8 ⁽³⁾	68.7 ⁽²⁾	68.7 ⁽²⁾	67.7 ⁽²⁾	67.7 ⁽²⁾	64.1 ⁽³⁾	64.1 ⁽³⁾	61.8 ⁽³⁾	61.8 ⁽³⁾							
355	-	B					73.7 ⁽¹⁾	74.8 ⁽²⁾	74.8 ⁽³⁾	74.8 ⁽³⁾	66.9 ⁽²⁾	66.9 ⁽²⁾	65.9 ⁽²⁾	65.9 ⁽²⁾	62.6 ⁽³⁾	62.6 ⁽³⁾	60.3 ⁽³⁾	60.3 ⁽³⁾							
360	-	B					70.5 ⁽¹⁾	70.5 ⁽²⁾	70.5 ⁽³⁾	70.5 ⁽³⁾	66.9 ⁽²⁾	59.8 ⁽²⁾	59.8 ⁽²⁾	59.8 ⁽²⁾	58.8 ⁽³⁾	58.8 ⁽³⁾									
365	-	B					68.7 ⁽¹⁾	68.7 ⁽²⁾	68.7 ⁽³⁾	68.7 ⁽³⁾	64.1 ⁽²⁾	56.0 ⁽²⁾	56.0 ⁽²⁾	56.0 ⁽²⁾	54.8 ⁽³⁾	54.8 ⁽³⁾									
370	-	B					66.9 ⁽¹⁾	66.9 ⁽²⁾	66.9 ⁽³⁾	66.9 ⁽³⁾	61.1 ⁽²⁾	53.7 ⁽²⁾	53.7 ⁽²⁾	53.7 ⁽²⁾	53.0 ⁽³⁾	53.0 ⁽³⁾									
375	-	B					64.1 ⁽¹⁾	64.1 ⁽²⁾	64.1 ⁽³⁾	64.1 ⁽³⁾	61.1 ⁽²⁾	59.8 ⁽²⁾	59.8 ⁽²⁾	59.8 ⁽²⁾	57.4 ⁽³⁾	57.4 ⁽³⁾									
380	-	B					61.1 ⁽¹⁾	61.1 ⁽²⁾	61.1 ⁽³⁾	61.1 ⁽³⁾	58.8 ⁽²⁾														
385	-	B					59.8 ⁽¹⁾																		
390	-	B					57.4 ⁽¹⁾																		
395	-	B					55.0 ⁽¹⁾																		

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



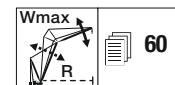
S 177

	ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276				
		85	Wmax	87*/85	Wmax	87*/85	Wmax																					
40	-			325.0*	325.0*																							
45	-	292.0	299.0*	291.0*	291.0*	280.0*	280.0*																					
50	-	490.0	490.0	403.0*	408.0*	370.0	370.0																					
55	B	264.0	273.0*	264.0*	264.0*	254.0*	254.0*	246.0*	246.0*																			
		482.0	490.0*	410.0*	410.0*	360.0	368.0*	309.0*	309.0*																			
		240.0	248.0*	240.0*	240.0*	232.0*	232.0*	225.0*	225.0*	217.0*	217.0*																	
		462.0	490.0*	406.0	411.0*	370.0	370.0	309.0*	309.0*	272.0*	272.0*																	
		220.0	227.0*	221.0*	221.0*	213.0*	213.0*	207.0*	207.0*	200.0*	200.0*	193.0*	193.0*															
		442.0	490.0*	399.0	411.0*	362.0	368.0*	309.0	309.0*	271.0*	272.0*	234.0*	234.0*															
		203.0	211.0*	204.0*	204.0*	197.0	197.0	191.0*	191.0*	185.0*	185.0*	179.0*	179.0*	173.0*	173.0*													
		422.0	489.0*	385.0	412.0*	351.0	366.0*	309.0	309.0*	272.0	272.0*	234.0*	234.0*	211.0*	211.0*													
		189.0	196.0*	190.0*	190.0*	183.0	183.0*	178.0*	178.0*	172.0*	172.0*	166.0*	166.0*	160.0*	160.0*	156.0*	156.0*											
		403.0	481.0*	371.0	414.0*	340.0	364.0*	306.0	309.0*	272.0	272.0*	233.0*	234.0*	208.0*	210.0*	185.0*	185.0*											
		176.0	181.0*	177.0*	177.0*	170.0*	170.0*	166.0*	166.0*	160.0*	160.0*	155.0*	155.0*	149.0*	149.0*	146.0*	146.0*	141.0*	141.0*									
		387.0	474.0*	357.0	412.0*	329.0	363.0*	300.0	309.0*	270.0	271.0*	234.0	234.0*	205.0	211.0*	183.0*	184.0*	158.0*	158.0*									
		165.0	165.0	166.0*	166.0*	159.0*	159.0*	155.0*	155.0*	150.0*	150.0*	145.0*	145.0*	140.0*	140.0*	136.0*	136.0*	131.0*	131.0*	127.0*	127.0*							
		333.0	466.0*	344.0	408.0*	318.0	361.0*	292.0	309.0*	266.0	271.0*	234.0	234.0*	210.0	210.0*	180.0*	184.0*	157.0*	158.0*	138.0*	138.0*							
		152.0*	156.0*	156.0*	150.0*	150.0*	146.0*	146.0*	141.0*	141.0*	136.0*	136.0*	131.0*	131.0*	128.0*	128.0*	123.0*	123.0*	119.0*	119.0*	115.0*	115.0*						
		457.0*	331.0	404.0*	308.0	356.0*	284.0	309.0*	260.0	271.0*	233.0	234.0*	207.0	209.0*	184.0	184.0*	156.0*	156.0*	136.0*	136.0*	117.0*	117.0*						
		139.0*	147.0*	141.0*	141.0*	137.0*	137.0*	132.0*	132.0*	128.0*	128.0*	123.0*	123.0*	121.0*	121.0*	116.0*	116.0*	112.0*	112.0*	109.0*	109.0*	98.1*	98.1*					
		436.0*	316.0	400.0*	297.0	352.0*	275.0	307.0*	253.0	270.0*	229.0	234.0*	204.0	208.0*	181.0	183.0*	157.0	157.0*	133.0*	135.0*	116.0*	116.0*	98.3*	98.3*				
		126.0*	139.0*	139.0*	133.0*	133.0*	129.0*	129.0*	125.0*	125.0*	121.0*	121.0*	116.0*	116.0*	114.0*	114.0*	109.0*	109.0*	106.0*	106.0*	102.0*	102.0*	96.8*	96.8*				
		416.0*	305.0	392.0*	286.0	348.0*	266.0	305.0*	245.0	270.0*	225.0	234.0*	201.0	207.0*	179.0	182.0*	156.0	156.0*	135.0	135.0*	116.0*	116.0*	97.1*	97.5*				
		115.0*	125.0*	126.0*	123.0*	123.0*	118.0*	118.0*	114.0*	114.0*	110.0*	110.0*	107.0*	107.0*	103.0*	103.0*	99.6*	99.6*	96.5*	96.5*	93.1*	93.1*						
		396.0*	271.0	383.0*	273.0	343.0*	258.0	302.0*	238.0	267.0*	219.0	234.0*	197.0	206.0*	177.0	181.0*	154.0	156.0*	133.0	133.0*	115.0	115.0*	96.1*	97.0*				
		105.0*	115.0*	120.0*	120.0*	116.0*	116.0*	112.0*	112.0*	108.0*	108.0*	104.0*	104.0*	102.0*	102.0*	97.4*	97.4*	94.2*	94.2*	91.2*	91.2*	87.9*	87.9*					
		376.0*	368.0*	265.0	338.0*	249.0	299.0*	231.0	265.0*	213.0	233.0*	194.0	204.0*	174.0	180.0*	153.0	155.0*	131.0	132.0*	114.0	115.0*	96.6	96.6					
		95.0*	105.0*	112.0*	112.0*	110.0*	110.0*	106.0*	106.0*	103.0*	103.0*	98.6*	98.6*	96.2*	96.2*	92.2*	92.2*	89.1*	89.1*	86.3*	86.3*	83.1*	83.1*					
		357.0*	353.0*	257.0	333.0*	242.0	296.0*	225.0	262.0*	208.0	231.0*	191.0	203.0*	172.0	179.0*	152.0	154.0*	130.0	131.0*	114.0	114.0*	95.9	95.9*					
		86.9*	94.8*	106.0	106.0*	105.0	105.0*	101.0*	101.0*	97.7*	97.7*	93.6*	93.6*	91.3*	91.3*	87.4*	87.4*	84.4*	84.4*	81.7*	81.7*	78.6*	78.6*					
		341.0*	339.0*	242.0	327.0*	235.0	293.0*	219.0	260.0*	200.0	230.0*	186.0	202.0*	170.0	178.0*	150.0	154.0*	128.0	130.0*	113.0	113.0*	95.3	95.4*					
		80.4*	87.6*	96.1	96.1	98.7*	98.7*	96.3*	96.3*	92.9*	92.9*	89.0*	89.0*	86.8*	86.8*	83.0*	83.0*	80.1*	80.1*	77.5*	77.5*	74.6*	74.6*					
		325.0*	324.0*	210.0	317.0*	227.0	290.0*	214.0	258.0*	199.0	228.0*	182.0	200.0*	167.0	176.0*	149.0	153.0*	127.0	129.0*	112.0	113.0*	94.7	94.8*					
		73.9*	80.3*	87.3*	93.3*	93.3*	91.2*	91.2*	88.6*	88.6*	84.7*	84.7*	82.6*	82.6*	78.9*	78.9*	76.0*	76.0*	73.5*	73.5*	70.6*	70.6*						
		311.0*	310.0*	210.0	286.0*	220.0	285.0*	194.0	256.0*	179.0	227.0*	199.0*	227.0*	164.0	175.0*	148.0	152.0*	125.0	128.0*	112.0	112.0*	94.1	94.3*					
		67.4*	73.1*	79.9*	88.4*	88.4*	86.3*	86.3*	84.4*	84.4*	80.8*	80.8*	78.7*	78.7*	75.1*	75.1*	72.3*	72.3*	69.8*	69.8*	67.1*	67.1*						
		296.0*	297.0*	211.0	281.0*	180.0	254.0*	189.0	225.0*	175.0	198.0*	161.0	175.0*	146.0	152.0*	123.0	127.0*	111.0	112.0*	94.3	93.7*							
		60.9*	67.4*	73.1*	83.8*	83.8*	81.8*	81.8*	79.9*	79.9*	77.1*	77.1*	75.1*	75.1*	71.5*	71.5*	68.8*	68.8*	66.4*	66.4*	63.7*	63.7*						
		281.0*	285.0*	210.0	276.0*	195.0	250.0*	196.0	250.0*	184.0	224.0*	171.0	196.0*	158.0	175.0*	144.0	152.0*	122.0	126.0*	110.0	111.0*	92.8	93.1*					
		54.4*	62.3*	67.6*	76.4	76.4	77.7*	77.7*	75.8*	75.8*	73.4*	73.4*	71.7*	71.7*	68.2*	68.2*	65.5*	65.5*	63.1*	63.1*	60.5*	60.5*						
		267.0*	274.0*	169.0	268.0*	190.0	249.0*	179.0	223.0*	167.0*	205.0*	155.0	174.0*	141.0	152.0*	120.0	125.0*	109.0	111.0*	92.3	92.8*							
		49.1*	57.3*	62.0*	68.6*	68.6*	73.9*	73.9*	72.0*	72.0*	69.6*	69.6*	68.4*	68.4*	65.1*	65.1*	62.4*	62.4*	60.2*	60.2*	57.6*	57.6*						
		255.0*	262.0*	162.0	261.0*	184.0	242.0*	175.0	220.0*	163.0	193.0*	152.0	173.0*	139.0	151.0*	118.0	124.0*	108.0	110.0*	91.6	92.4*							
		44.9*	52.2*	56.4*	62.9*	62.9*	70.3*	70.3*	68.4*	68.4*	66.1*	66.1*	65.0*	65.0*	62.2*	62.2*	59.6*	59.6*	57.3*	57.3*	54.7*	54.7*						
		245.0*	251.0*	173.0	233.0*	180.0	250.0*	158.0	210.0*	149.0	197.0*	130.0	170.0*	126.0														



286,600 lb –
374,800 lb

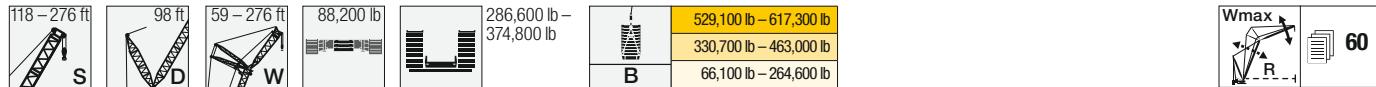
	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb



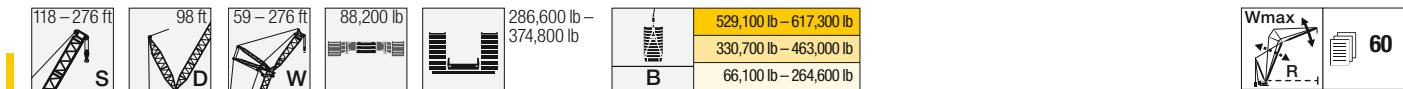
60

S 177														
ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177	
	85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
225	-				8.4 ⁽¹⁾		12.5 ⁽²⁾		14.9 ⁽³⁾		19.6 ⁽¹⁾		21.7 ⁽¹⁾	
	B				142.0 ⁽⁴⁾		146.0 ⁽⁵⁾		149.0 ⁽⁶⁾		148.0 ⁽⁷⁾		145.0 ⁽⁸⁾	
230	-						136.0 ⁽⁹⁾		140.0 ⁽¹⁰⁾		144.0 ⁽¹¹⁾		144.0 ⁽¹²⁾	
	B													
235	-								10.7 ⁽⁹⁾		15.1 ⁽¹¹⁾		17.4 ⁽¹¹⁾	
	B													
240	-										136.0 ⁽⁹⁾		139.0 ⁽¹⁰⁾	
	B													
245	-												141.0 ⁽¹²⁾	
	B													
250	-													
	B													
255	-													
	B													
260	-													
	B													
265	-													
	B													
270	-													
	B													
275	-													
	B													
280	-													
	B													
285	-													
	B													
290	-													
	B													
295	-													
	B													
300	-													
	B													
305	-													
	B													
310	-													
	B													
315	-													
	B													
320	-													
	B													
325	-													
	B													
330	-													
	B													
335	-													
	B													
340	-													
	B													
345	-													
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350	-													
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355	-													
	B													
360	-													
	B													
365	-													
	B													
370	-													
	B													
375	-													
	B													
380	-													
	B													
385	-													
	B													
390	-													
	B													
395	-													
	B													
400	-													
	B													
405	-													
	B													

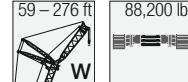
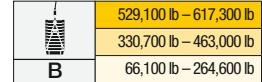
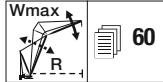
1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42°; 8) 47°; 9) 52°; 10) 57°; 11) 62°



		S 197																							
ft	W	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276	
		85	Wmax	87*85	Wmax	87*85	Wmax																		
45	-	280.0	289.0*	280.0*	280.0*																				
	B	419.0	419.0	375.0*	379.0*																				
50	-	253.0	261.0*	254.0*	254.0*	245.0*	245.0*	237.0*	237.0*																
	B	419.0	419.0	366.0*	382.0*	309.0*	309.0*	272.0*	272.0*	210.0*	210.0*														
55	-	231.0	241.0*	232.0*	232.0*	224.0*	224.0*	217.0*	217.0*	210.0*	210.0*														
	B	418.0	419.0*	379.0	382.0*	309.0*	309.0*	272.0*	272.0*	234.0*	234.0*	193.0*	193.0*	186.0*	186.0*										
60	-	212.0	221.0*	213.0*	213.0*	207.0*	207.0*	200.0*	200.0*	193.0*	193.0*	172.0*	172.0*	167.0*	167.0*										
	B	405.0	419.0*	369.0	382.0*	309.0	309.0*	272.0*	272.0*	234.0*	234.0*	228.0*	228.0*												
65	-	196.0	203.0*	197.0*	197.0*	191.0*	191.0*	185.0*	185.0*	179.0*	179.0*	172.0*	172.0*	167.0*	167.0*										
	B	389.0	419.0*	357.0	382.0*	309.0	309.0*	272.0	272.0*	234.0*	234.0*	224.0*	227.0*	196.0*	196.0*										
70	-	182.0	189.0*	184.0*	184.0*	178.0*	178.0*	172.0*	172.0*	166.0*	166.0*	160.0*	160.0*	156.0*	156.0*	151.0*	151.0*								
	B	375.0	419.0*	344.0	382.0*	309.0	309.0*	272.0	272.0*	234.0	234.0*	220.0	228.0*	196.0*	196.0*	174.0*	174.0*								
75	-	170.0	177.0*	171.0*	171.0*	166.0*	166.0*	161.0*	161.0*	155.0*	155.0*	150.0*	150.0*	145.0*	145.0*	141.0*	141.0*	135.0*	135.0*						
	B	362.0	419.0*	333.0	383.0*	306.0	309.0*	272.0	272.0*	234.0	234.0*	228.0	228.0*	193.0*	196.0*	172.0*	173.0*	150.0*	150.0*						
80	-	160.0	161.0*	161.0*	161.0*	155.0*	155.0*	150.0*	150.0*	146.0*	146.0*	140.0*	140.0*	136.0*	136.0*	132.0*	132.0*	127.0*	127.0*	123.0*	123.0*				
	B	348.0	419.0*	321.0	380.0*	298.0	309.0*	271.0	272.0*	234.0	234.0*	224.0	227.0*	196.0*	196.0*	170.0*	173.0*	148.0*	149.0*	130.0*	130.0*				
85	-	148.0*	151.0*	151.0*	151.0*	146.0*	146.0*	141.0*	141.0*	137.0*	137.0*	132.0*	132.0*	128.0*	128.0*	124.0*	124.0*	119.0*	119.0*	115.0*	115.0*	110.0*	110.0*		
	B	419.0*	311.0	377.0*	289.0	309.0*	266.0	272.0*	234.0	234.0*	220.0	226.0*	196.0	196.0*	173.0	173.0*	147.0*	149.0*	128.0	129.0*	111.0*	111.0*			
90	-	136.0*	143.0*	143.0*	143.0*	138.0*	138.0*	133.0*	133.0*	129.0*	129.0*	124.0*	124.0*	120.0*	120.0*	116.0*	116.0*	112.0*	112.0*	108.0*	108.0*	105.0*	105.0*		
	B	416.0*	299.0	374.0*	280.0	309.0*	258.0	272.0*	233.0	234.0*	215.0	225.0*	193.0	196.0*	172.0	173.0*	149.0	149.0	126.0*	128.0*	110.0*	110.0*	93.7*	93.7*	
95	-	124.0*	136.0*	136.0*	136.0*	130.0*	130.0*	126.0*	126.0*	122.0*	122.0*	117.0*	117.0*	113.0*	113.0*	110.0*	110.0*	105.0*	105.0*	102.0*	102.0*	98.7*	98.7*		
	B	402.0*	284.0	371.0*	270.0	309.0*	250.0	272.0*	229.0	234.0*	210.0	224.0*	190.0	195.0*	170.0	172.0*	147.0	148.0*	128.0	128.0*	109.0*	110.0*	92.6*	92.8*	
100	-	112.0*	122.0	122.0*	123.0*	119.0*	119.0*	115.0*	115.0*	110.0*	110.0*	107.0*	107.0*	104.0*	104.0*	99.4*	99.4*	96.0*	96.0*	93.0*	93.0*	89.4*	89.4*		
	B	386.0*	272.0	364.0*	259.0	309.0*	242.0	272.0*	224.0	234.0*	205.0	223.0*	186.0	195.0*	167.0	171.0*	146.0	147.0*	126.0*	126.0*	109.0	109.0*	91.6*	92.4*	
105	-	103.0*	113.0*	113.0*	113.0*	110.0*	110.0*	109.0*	109.0*	105.0*	105.0*	101.0*	101.0*	94.1*	94.1*	90.8*	90.8*	87.8*	87.8*	84.6*	84.6*				
	B	369.0*	357.0*	249.0	309.0*	235.0	272.0*	218.0	234.0*	186.0	200.0*	162.0	194.0*	146.0	170.0*	124.0	125.0*	109.0	109.0*	90.5	90.5*	89.0	90.5*		
110	-	94.5*	103.0*	112.0*	112.0*	108.0*	108.0*	104.0*	104.0*	99.3*	99.3*	96.1*	96.1*	92.9*	92.9*	88.9*	88.9*	85.8*	85.8*	83.1*	83.1*	80.0*	80.0*		
	B	353.0*	345.0*	239.0	309.0*	228.0	272.0*	212.0	234.0*	195.0	221.0*	179.0	194.0*	162.0	169.0*	144.0	146.0*	120.0*	125.0*	108.0	108.0*	91.5	91.5*		
115	-	85.6*	94.3*	105.0*	105.0*	103.0*	103.0*	98.7*	98.7*	94.4*	94.4*	91.3*	91.3*	88.2*	88.2*	84.3*	84.3*	81.4*	81.4*	78.7*	78.7*	75.6*	75.6*		
	B	337.0*	332.0*	231.0	308.0*	220.0	272.0*	207.0	234.0*	191.0	219.0*	175.0	193.0*	159.0	168.0*	142.0	145.0*	122.0	124.0*	108.0	108.0*	91.0	91.1*		
120	-	86.0*	95.0	95.0	97.7*	97.7*	94.0*	94.0*	89.9*	89.9*	86.8*	86.8*	83.8*	83.8*	80.1*	80.1*	77.2*	77.2*	74.6*	74.6*	71.7*	71.7*			
	B	322.0*	319.0*	220.0	272.0*	212.0	272.0*	202.0	234.0*	174.0	208.0*	152.0	192.0*	137.0	168.0*	140.0	145.0*	120.0*	123.0*	107.0	107.0*	95.5	96.0*		
125	-	72.3*	79.2*	87.1*	92.3*	92.3*	89.8*	89.8*	85.7*	85.7*	82.7*	82.7*	79.8*	79.8*	76.1*	76.1*	73.2*	73.2*	70.7*	70.7*	67.8*	67.8*			
	B	308.0*	306.0*	205.0	272.0*	196.0	234.0*	182.0	216.0*	168.0	191.0*	154.0	166.0*	139.0	144.0*	119.0	122.0*	106.0	106.0*	89.9	90.1*				
130	-	66.5*	72.5*	79.9*	87.4*	87.4*	85.5*	85.5*	81.8*	81.8*	81.8*	81.8*	78.9*	78.9*	76.0*	76.0*	72.4*	72.4*	69.6*	69.6*	67.2*	67.2*			
	B	295.0*	293.0*	198.0	289.0*	198.0	269.0*	190.0	234.0*	178.0	215.0*	156.0	190.0*	131.0	167.0*	137.0	144.0*	117.0	121.0*	105.0	106.0*	89.3	89.6*		
135	-	60.6*	65.7*	72.8*	82.9*	82.9*	81.0*	81.0*	78.2*	78.2*	75.3*	75.3*	72.5*	72.5*	68.9*	68.9*	66.2*	66.2*	63.8*	63.8*	61.1*	61.1*			
	B	282.0*	282.0*	192.0	266.0*	183.0	234.0*	174.0	214.0*	162.0	188.0*	149.0	170.0*	135.0	144.0*	116.0	120.0*	104.0	106.0*	88.7	89.2*				
140	-	54.8*	60.4*	66.8*	75.1	75.1	76.9*	76.9*	74.4*	74.4*	74.4*	74.4*	70.2*	72.0*	69.2*	69.2*	65.7*	65.7*	63.0*	63.0*	60.7*	60.7*			
	B	269.0*	271.0*	210.0*	269.0*	180.0	260.0*	177.0	234.0*	169.0	213.0*	159.0	187.0*	146.0	166.0*	133.0	144.0*	114.0	119.0*	103.0	105.0*	88.1	88.7*		
145	-	48.9*	55.7*	61.6*	71.1*	71.1*	73.1*	73.1*	70.7*	70.7*	68.8*	68.8*	66.8*	66.8*	62.7*	62.7*	60.1*	60.1*	57.8*	57.8*	55.2*	55.2*			
	B	256.0*	260.0*	210.0*	259.0*	180.0	230.0*	172.0	234.0*	163.0	212.0*	155.0	186.0*	140.0	165.0*	131.0	144.0*	113.0	118.0*	102.0	105.0*	87.5	88.3*		
150	-	43.1*	51.1*	56.3*	62.5*	62.5*	69.5*	69.5*	67.2*	67.2*	65.4*	65.4*	63.3*	63.3*	59.9*	59.9*	57.3*	57.3*	55.0*	55.0*	52.5*	52.5*			
	B	243.0*	250.0*	249.0*	245.0*	167.0	229.0*	158.0	208.0*	151.0	184.0*	141.0	164.0*	129.0	143.0*	111.0	118.0*	101.0	105.0*	86.9	88.1*				
155	-	39.2*	46.5*	51.0*	59.6*	59.6*	63.9*	63.9*	62.2*	62.2*	60.4*	60.4*	57.2*	57.2*	54.7*	54.7*	52.5*	52.5*	50.0*	50.0*					
	B	233.0*	240.0*	240.0*	240.0*	162.0	228.0*	153.0	208.0*	147.0	183.0*	130.0	175.0*	128.0	161.0*	119.0	141.0*	104.0	115.0*	97.1	102.0*	84.6	87.1*		
160	-	35.5*	41.9*	47.0*	52.5*	52.5*	59.9	59.9	60.9*	60.9*	59.2*	59.2*	57.4*	57.4*											

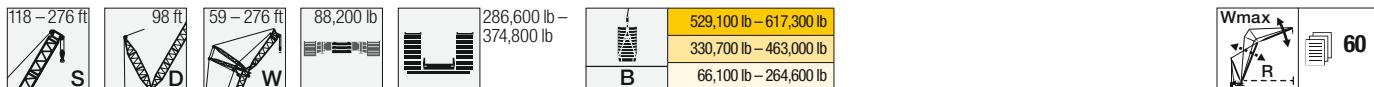


1) 12° ; 2) 17° ; 3) 22° ; 4) 27° ; 5) 32° ; 6) 37° ; 7) 42° ; 8) 47° ; 9) 52° ; 10) 57° ; 11) 62°

			286,600 lb – 374,800 lb		529,100 lb - 617,300 lb 330,700 lb - 463,000 lb		66,100 lb - 264,600 lb
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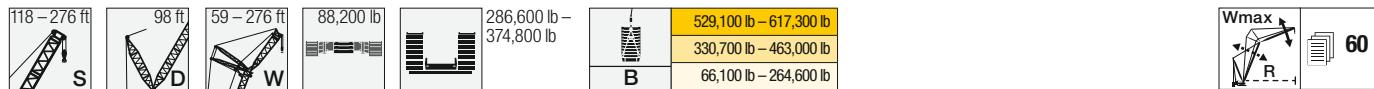
S 217

 ft	W 59	W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276	
		85	Wmax	87*85	Wmax	87*85	Wmax	87*85	Wmax	87*85	Wmax	87*85	Wmax										
45	B			270.0*	270.0*																		
50	B	243.0	252.0*	246.0*	246.0*	237.0*	237.0*																
55	B	383.0	383.0	309.0*	309.0*	272.0*	272.0*	225.0*	225.0*	217.0*	217.0*	210.0*	210.0*										
60	B	222.0	230.0*	225.0*	225.0*	217.0*	217.0*	234.0*	234.0*	234.0*	234.0*	194.0*	194.0*	186.0*	186.0*								
65	B	374.0	382.0*	309.0	309.0*	272.0*	272.0*	234.0*	234.0*	234.0*	234.0*	200.0*	200.0*	194.0*	194.0*	224.0*	225.0*						
70	B	164.0	172.0*	167.0*	167.0*	161.0*	161.0*	156.0*	156.0*	150.0*	150.0*	144.0*	144.0*	140.0*	140.0*	136.0*	136.0*	173.0*	173.0*				
75	B	204.0	214.0*	207.0*	207.0*	194.0*	194.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*	186.0*		
80	B	361.0	382.0*	309.0	309.0*	272.0	272.0*	234.0*	234.0*	234.0*	234.0*	198.0*	198.0*	198.0*	198.0*	198.0*	198.0*	170.0*	170.0*				
85	B	189.0	197.0*	192.0*	192.0*	185.0*	185.0*	179.0*	179.0*	179.0*	179.0*	173.0*	173.0*	166.0*	166.0*	166.0*	166.0*	166.0*	166.0*	166.0*	166.0*	166.0*	
90	B	176.0	184.0*	179.0*	179.0*	172.0*	172.0*	167.0*	167.0*	161.0*	161.0*	155.0*	155.0*	150.0*	150.0*	145.0*	145.0*	145.0*	145.0*	145.0*	145.0*	145.0*	
95	B	160.0*	172.0*	167.0*	167.0*	161.0*	161.0*	156.0*	156.0*	150.0*	150.0*	144.0*	144.0*	140.0*	140.0*	136.0*	136.0*	136.0*	136.0*	136.0*	136.0*	136.0*	
100	B	122.0*	132.0*	127.0*	127.0*	123.0*	123.0*	118.0*	118.0*	113.0*	113.0*	109.0*	109.0*	106.0*	106.0*	102.0*	102.0*	98.0*	98.0*	95.0*	95.0*	85.2*	
105	B	134.0*	145.0	148.0*	148.0*	142.0*	142.0*	138.0*	138.0*	132.0*	132.0*	127.0*	127.0*	123.0*	123.0*	119.0*	119.0*	115.0*	115.0*	111.0*	111.0*	101.0*	
110	B	133.0*	140.0*	140.0*	140.0*	134.0*	134.0*	130.0*	130.0*	125.0*	125.0*	120.0*	120.0*	116.0*	116.0*	112.0*	112.0*	108.0*	108.0*	104.0*	104.0*	99.6*	
115	B	136.0*	266.0	308.0*	308.0*	245.0	272.0*	226.0	234.0*	207.0	218.0*	188.0	193.0*	168.0	171.0*	150.0	150.0*	128.0*	131.0*	113.0*	113.0*	100.0*	
120	B	121.0*	132.0*	127.0*	127.0*	123.0*	123.0*	118.0*	118.0*	113.0*	113.0*	109.0*	109.0*	106.0*	106.0*	102.0*	102.0*	98.0*	98.0*	95.0*	95.0*	85.2*	
125	B	1354.0	260.0	306.0*	306.0*	236.0	271.0*	219.0	234.0*	201.0	216.0*	183.0	191.0*	165.0	169.0*	148.0	149.0*	130.0	131.0*	112.0*	114.0*	98.9*	
130	B	110.0*	119.0*	120.0*	120.0*	116.0*	116.0*	111.0*	111.0*	107.0	107.0*	103.0*	103.0*	100.0*	100.0*	95.9*	95.9*	92.5*	92.5*	89.6*	89.6*	83.9*	
135	B	1345.0	250.0	305.0*	305.0*	228.0	269.0*	212.0	234.0*	195.0	214.0*	179.0	190.0*	162.0	168.0*	146.0	149.0*	129.0	130.0*	114.0	114.0*	97.8*	
140	B	100.0*	113.0	113.0	114.0*	114.0*	110.0*	110.0*	106.0*	106.0*	101.0*	101.0*	98.0*	98.0*	94.7*	94.7*	90.6*	90.6*	87.4*	87.4*	84.6*	84.6*	81.4*
145	B	1336.0	240.0	302.0*	302.0*	225.0	267.0*	206.0	234.0*	190.0	212.0*	175.0	188.0*	159.0	167.0*	144.0	148.0*	127.0	129.0*	112.0	113.0*	99.2*	
150	B	92.5*	102.0*	109.0*	109.0*	105.0*	105.0*	100.0*	100.0*	96.0*	96.0*	92.9*	92.9*	89.7*	89.7*	85.7*	85.7*	82.7*	82.7*	79.9*	79.9*	76.9*	
155	B	1328.0*	297.0	218.0	266.0*	199.0	233.0*	185.0	210.0*	170.0	187.0*	156.0	166.0*	142.0	147.0*	126.0	129.0*	111.0	113.0*	98.4	98.6*	84.7	
160	B	84.6*	93.9*	104.0	104.0*	100.0*	100.0*	95.5*	95.5*	91.3*	91.3*	88.3*	88.3*	85.1*	85.1*	81.3*	81.3*	78.3*	78.3*	75.8*	75.8*	72.7*	
165	B	1317.0*	291.0*	211.0	262.0*	194.0	232.0*	180.0	209.0*	167.0	185.0*	153.0	165.0*	139.0	146.0*	125.0	128.0*	110.0	112.0*	97.6	98.1*	84.2	
170	B	76.7*	85.5*	93.6	93.6	89.6*	89.6*	85.6*	85.6*	81.0*	81.0*	76.9*	76.9*	73.4*	73.4*	70.7*	70.7*	72.2*	72.2*	74.3*	74.3*	71.8*	
175	B	76.7*	85.5*	93.6	93.6	89.6*	89.6*	85.6*	85.6*	81.0*	81.0*	76.9*	76.9*	73.4*	73.4*	70.7*	70.7*	72.2*	72.2*	74.3*	74.3*	71.8*	
180	B	70.1*	76.7*	85.5*	85.5*	81.0*	81.0*	77.0*	77.0*	73.0*	73.0*	70.7*	70.7*	68.1*	68.1*	65.2*	65.2*	68.1*	68.1*	65.2*	65.2*	65.2*	
185	B	70.1*	76.7*	85.5*	85.5*	81.0*	81.0*	77.0*	77.0*	73.0*	73.0*	70.7*	70.7*	68.1*	68.1*	65.2*	65.2*	68.1*	68.1*	65.2*	65.2*	65.2*	
190	B	64.8*	72.2*	79.4*	79.4*	86.6*	86.6*	83.1*	83.1*	79.1*	79.1*	76.2*	76.2*	73.4*	73.4*	69.7*	69.7*	67.0*	67.0*	64.6*	64.6*	61.9*	
195	B	291.0*	270.0*	249.0*	249.0*	228.0	269.0*	210.0	232.0*	194.0	209.0*	167.0	180.0*	153.0	165.0*	139.0	146.0*	120.0	126.0*	107.0	110.0*	95.1	
200	B	59.5*	65.9*	72.6*	72.6*	82.1*	82.1*	79.5*	79.5*	75.5*	75.5*	72.8*	72.8*	70.0*	70.0*	66.4*	66.4*	63.7*	63.7*	61.3*	61.3*	58.6*	
205	B	279.0*	265.0*	244.0*	244.0*	227.0*	227.0*	177.0	177.0*	163.0	163.0*	200.0*	200.0*	151.0	179.0*	141.0	160.0*	130.0	142.0*	110.0	110.0*	94.3	
210	B	54.2*	59.5*	65.8*	65.8*	73.9	73.9	75.5*	75.5*	72.3*	72.3*	69.5*	69.5*	66.5*	66.5*	63.3*	63.3*	60.6*	60.6*	58.4*	58.4*	55.7*	
215	B	268.0*	262.0*	238.0*	238.0*	217.0	220.0*	198.0*	208.0*	188.0*	198.0*	162.0	199.0*	148.0	178.0*	138.0	159.0*	128.0	141.0*	110.0	124.0*	93.5	
220	B	49.0*	54.6*	60.7*	60.7*	57.1*	57.1*	71.8*	71.8*	69.2*	69.2*	66.5*	66.5*	63.8*	63.8*	60.4*	60.4*	57.7*	57.7*	55.5*	55.5*	52.9*	
225	B	256.0*	253.0*	233.0*	233.0*	215.0	215.0*	190.0*	196.0*	164.0*	176.0*	160.0*	170.0*	135.0	157.0*	125.0	140.0*	114.0	124.0*	103.0	108.0*	92.6	
230	B	43.7*	50.3*	55.7*	55.7*	62.2*	62.2*	68.3*	68.3*	65.9*	65.9*	63.7*	63.7*	61.0*	61.0*	57.6*	57.6*	55.0*	55.0*	52.8*	52.8*	50.3*	
235	B	244.0*	245.0*	231.0*	231.0*	211.0*	211.0*	194.0*	194.0*	150.0*	150.0*	175.0*	175.0*	123.0	130.0*	110.0	120.0*	106.0	121.0*	97.7*	108.0*	91.7	
240	B	38.4*	46.1*	50.7*	50.7*	56.8*	56.8*	65.0*	65.0*	62.6*	62.6*	60.9*	60.9*	58.4*	58.4*	55.0*	55.0*	52.5*	52.5*	50.3*	50.3*	47.8*	
245	B	233.0*	236.0*	228.0*	228.0*	207.0*	207.0*	150.0	191.0*	141.0	173.0*	129.0	155.0*	120.0	139.0*	110.0	122.0*	100.0	108.0*	90.4	94.4*	79.6	
250	B	33.6*	41.8*	45.7*	45.7*	51.6*	51.6*	58.3	58.3	59.7*	59.7*	58.0*	58.0*	55.9*	55.9*	52.6*	52.6*	50.0*	50.0*	47.9*	47.9*	45.4*	
255	B	227.0*	227.0*	210.0*	210.0*	191.0*	191.0*	170.0*	170.0*	137.0	172.0*	120.0*	150.0*	110.0	135.0*	102.0	119.0*	93.2	105.0*	84.8	92.7*	76.2	
260	B	30.5*	37.6*	42.0*	42.0*	47.6*	47.6*	52.4*	52.4*	56.9*	56.9*	55.2*	55.2*	53.4*	53.4*</td								

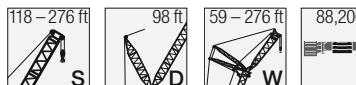


S 217																							
ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177										
	85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax									
245	-	B					122.0°	126.0°	128.0°	127.0°	125.0°	14.7° ¹⁾	17.4° ¹⁾	21.9°	20.4°	20.4°*	18.9°	18.9°					
250	-	B					118.0°	121.0°	124.0°	124.0°	122.0°	110.0° ²⁾	68.8	94.3°	64.3	85.9° ⁴⁾	58.9	74.8° ⁴⁾					
255	-	B					113.0°	116.0°	120.0°	121.0° ¹⁰⁾	119.0°	10.5° ¹¹⁾	12.6° ¹¹⁾	15.4° ¹¹⁾	21.0°	21.0°	19.5°	19.5°*	18.0°				
260	-	B					109.0°	113.0°	115.0°	118.0°	116.0°	11.1° ¹¹⁾	11.1° ¹¹⁾	11.1° ¹¹⁾	11.1° ¹¹⁾	17.2	17.2	17.2	17.2				
265	-	B					109.0°	111.0°	114.0°	114.0°	114.0°	106.0°	106.0°	91.3°	57.2	84.5° ⁴⁾	53.1	73.3° ⁴⁾					
270	-	B					105.0°	107.0°	110.0°	111.0°	109.0°	105.0°	105.0°	90.5°	9.8° ¹¹⁾	16.4°	16.4°*	14.8°	14.8°				
275	-	B					101.0°	103.0°	106.0°	109.0° ¹⁰⁾	106.0°	103.0°	103.0°	89.7° ¹¹⁾	55.7	84.1° ⁴⁾	51.5	73.0° ⁴⁾					
280	-	B					97.4°	99.5°	103.0°	105.0°	104.0°	101.0°	101.0°	89.0°	6.2° ¹⁰⁾	54.3	83.8° ⁴⁾	50.0	72.6° ⁴⁾				
285	-	B					96.2°	98.8°	102.0°	102.0°	101.0°	99.0°	99.0°	88.2°	4.3° ¹⁰⁾	51.4	83.4°	48.5	72.2°				
290	-	B					92.9°	95.0°	98.4°	98.4°	99.5°	96.3°	96.3°	87.1°	8.8	87.1°	8.8	8.8					
295	-	B					89.6°	91.2°	95.1°	97.5° ¹⁰⁾	94.7°	86.2°	86.2°	82.3°	8.8	44.6	82.3° ⁴⁾	71.9° ⁴⁾					
300	-	B					88.3°	91.8°	94.4°	94.4°	92.8°	85.6°	85.6°	82.1°	12.2°	43.1	82.1° ⁴⁾	70.9° ⁴⁾					
305	-	B					85.3°	88.5°	91.4°	91.4°	90.6°	83.6°	83.6°	81.8°	12.2	81.8°	12.2	70.6°					
310	-	B					82.4°	84.3°	88.4°	88.4°	88.9°	82.9°	82.9°	81.6°	8.8	81.6°	8.8	70.3°					
315	-	B					79.5°	81.6°	85.5°	85.5°	86.8°	81.0°	81.0°	81.3°	8.4	81.3°	8.4	70.0°					
320	-	B					78.9°	82.5°	84.2°	84.2°	80.1°	79.8°	79.8°	79.8°	7.9	69.7°	7.9	69.7°					
325	-	B					76.2°	79.5°	81.5°	81.5°	78.0°	77.7°	77.7°	77.7°	7.7	69.4°	7.7	69.4°					
330	-	B					73.5°	75.4°	78.8°	78.8°	76.1°	75.6°	75.6°	75.6°	7.5	69.2°	7.5	69.2°					
335	-	B					70.8°	73.0°	76.1°	76.1°	74.1°	73.5°	73.5°	73.5°	7.3	68.4°	7.3	68.4°					
340	-	B						70.6°	73.4°	73.4°	72.2°	72.2°	72.2°	72.2°	7.0	67.3°	7.0	67.3°					
345	-	B						68.2°	70.7°	70.7°	70.3°	70.3°	70.3°	70.3°	6.9	66.9°	6.9	66.9°					
350	-	B						65.8°	67.0°	68.4°	68.4°	68.4°	67.8°	67.8°	67.8°	6.5	65.4°	6.5	65.4°				
355	-	B						63.4°	64.8°	66.5°	66.5°	66.5°	66.1°	66.1°	66.1°	6.3	63.9°	6.3	63.9°				
360	-	B							62.6°	64.7°	64.7°	64.5°	64.5°	64.5°	64.5°	6.2	62.3°	6.2	62.3°				
365	-	B							60.4°	62.8°	62.8°	62.8°	62.8°	62.8°	62.8°	6.0	60.7°	6.0	60.7°				
370	-	B							58.2°	59.8°	59.8°	61.1°	61.1°	61.1°	61.1°	5.9	59.2°	5.9	59.2°				
375	-	B							56.0°	57.8°	57.8°	59.5°	59.5°	59.5°	59.5°	5.7	57.6°	5.7	57.6°				
380	-	B								55.8°	57.8°	57.8°	57.8°	57.8°	57.8°	57.8°	5.6	56.3°	5.6	56.3°			
385	-	B								53.8°	56.1°	56.1°	56.1°	56.1°	56.1°	56.1°	5.5	55.0°	5.5	55.0°			
390	-	B								51.8°	53.3°	53.3°	53.3°	53.3°	53.3°	53.3°	5.3	53.7°	5.3	53.7°			
395	-	B								49.7°	51.4°	51.4°	51.4°	51.4°	51.4°	51.4°	5.1	52.4°	5.1	52.4°			
400	-	B									49.5°	51.1°	51.1°	51.1°	51.1°	51.1°	51.1°	5.1	51.1°	5.1	51.1°		
405	-	B									47.6°	49.8°	49.8°	49.8°	49.8°	49.8°	49.8°	4.8	49.8°	4.8	49.8°		
410	-	B									45.8°	47.1°	47.1°	47.1°	47.1°	47.1°	47.1°	4.7	47.1°	4.7	47.1°		
415	-	B									43.9°	45.3°	45.3°	45.3°	45.3°	45.3°	45.3°	4.5	45.3°	4.5	45.3°		
420	-	B										41.7°	43.5°	43.5°	43.5°	43.5°	43.5°	43.5°	4.3	43.5°	4.3	43.5°	
425	-	B										39.9°	41.7°	41.7°	41.7°	41.7°	41.7°	41.7°	4.1	41.7°	4.1	41.7°	
430	-	B											39.9°	41.7°	41.7°	41.7°	41.7°	41.7°	41.7°	4.1	41.7°	4.1	41.7°
435	-	B												38.1°	38.1°	38.1°	38.1°	38.1°	38.1°	38.1°	38.1°	38.1°	38.1°

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

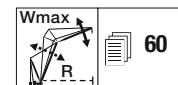


S 236																				
	ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177						
		85	Wmax	87*85	Wmax															
45	B	-	-	259.0*	259.0 ⁽¹⁾	272.0*	272.0 ⁽¹⁾	-	-	-	-	-	-	-	-					
50	B	233.0	244.0 ⁽¹⁾	236.0*	236.0*	228.0*	228.0 ⁽¹⁾	209.0*	209.0*	202.0*	202.0*	-	-	-	-					
55	B	309.0	309.0	272.0*	272.0 ⁽¹⁾	234.0*	234.0 ⁽¹⁾	234.0*	234.0 ⁽¹⁾	224.0*	224.0 ⁽¹⁾	-	-	-	-					
60	B	196.0	205.0 ⁽¹⁾	200.0*	200.0*	193.0*	193.0*	186.0*	186.0*	179.0*	179.0 ⁽¹⁾	-	-	-	-					
65	B	309.0	309.0	272.0*	272.0 ⁽¹⁾	234.0*	234.0 ⁽¹⁾	234.0*	234.0 ⁽¹⁾	218.0*	218.0 ⁽¹⁾	197.0*	197.0 ⁽¹⁾	-	-					
70	B	182.0	192.0 ⁽¹⁾	186.0*	186.0*	179.0*	179.0*	173.0*	173.0*	166.0*	166.0*	160.0 ⁽¹⁾	160.0 ⁽¹⁾	-	-					
75	B	302.0	309.0 ⁽¹⁾	271.0*	272.0 ⁽¹⁾	234.0*	234.0 ⁽¹⁾	225.0*	225.0	192.0*	197.0*	173.0*	174.0 ⁽¹⁾	-	-					
80	B	169.0	177.0 ⁽¹⁾	173.0*	173.0*	167.0*	167.0*	161.0*	161.0*	155.0*	155.0*	149.0*	149.0*	144.0*	144.0 ⁽¹⁾					
85	B	290.0	309.0 ⁽¹⁾	265.0	272.0 ⁽¹⁾	234.0*	234.0 ⁽¹⁾	220.0	222.0 ⁽¹⁾	198.0	198.0	170.0*	173.0 ⁽¹⁾	153.0*	153.0 ⁽¹⁾					
90	B	158.0	166.0 ⁽¹⁾	162.0*	162.0*	156.0*	156.0*	150.0*	150.0 ⁽¹⁾	145.0*	145.0 ⁽¹⁾	139.0*	139.0*	135.0*	135.0*					
95	B	279.0	309.0 ⁽¹⁾	256.0	272.0 ⁽¹⁾	233.0*	234.0 ⁽¹⁾	215.0	220.0 ⁽¹⁾	195.0	196.0 ⁽¹⁾	166.0*	173.0 ⁽¹⁾	150.0*	153.0 ⁽¹⁾					
100	B	149.0	154.0 ⁽¹⁾	152.0*	152.0*	147.0*	147.0*	141.0*	141.0*	136.0*	136.0*	130.0*	130.0 ⁽¹⁾	122.0*	122.0*					
105	B	274.0	309.0 ⁽¹⁾	247.0	272.0 ⁽¹⁾	228.0*	234.0 ⁽¹⁾	209.0	218.0 ⁽¹⁾	190.0	194.0 ⁽¹⁾	172.0	172.0 ⁽¹⁾	147.0*	147.0 ⁽¹⁾					
110	B	140.0	143.0*	143.0*	138.0*	138.0*	133.0*	133.0*	127.0*	127.0*	122.0*	122.0*	119.0*	119.0*	115.0*	115.0*				
115	B	264.0	308.0 ⁽¹⁾	239.0	271.0 ⁽¹⁾	221.0	234.0 ⁽¹⁾	203.0	216.0 ⁽¹⁾	185.0	192.0*	168.0	171.0*	151.0	151.0*	129.0*	134.0 ⁽¹⁾			
120	B	-	-	129.0*	135.0*	130.0	130.0*	125.0*	120.0*	115.0*	115.0*	110.0*	110.0*	103.0*	103.0*	103.0*	103.0 ⁽¹⁾			
125	B	303.0 ⁽¹⁾	303.0 ⁽¹⁾	230.0	270.0 ⁽¹⁾	213.0	234.0 ⁽¹⁾	196.0	214.0 ⁽¹⁾	180.0	190.0*	164.0	169.0*	148.0	150.0 ⁽¹⁾	133.0*	133.0*			
130	B	119.0*	128.0*	123.0*	123.0*	118.0*	118.0*	113.0*	113.0*	109.0*	109.0*	105.0*	105.0*	102.0*	102.0*	97.5*	97.5*			
135	B	300.0 ⁽¹⁾	300.0 ⁽¹⁾	226.0	266.0 ⁽¹⁾	205.0	234.0 ⁽¹⁾	190.0	212.0 ⁽¹⁾	175.0	188.0 ⁽¹⁾	160.0	168.0 ⁽¹⁾	145.0	149.0 ⁽¹⁾	131.0	132.0*			
140	B	108.0 ⁽¹⁾	115.0	117.0 ⁽¹⁾	117.0*	117.0*	112.0*	112.0 ⁽¹⁾	107.0*	107.0*	103.0*	103.0*	99.7*	99.7*	96.3*	96.3*	92.1*	92.1*		
145	B	298.0*	218.0	263.0 ⁽¹⁾	198.0	232.0 ⁽¹⁾	183.0	210.0 ⁽¹⁾	169.0	187.0*	155.0	166.0 ⁽¹⁾	142.0	148.0 ⁽¹⁾	128.0	131.0*	114.0	115.0 ⁽¹⁾		
150	B	97.8 ⁽¹⁾	109.0	109.0	111.0*	111.0*	107.0*	107.0*	102.0*	102.0*	97.5*	97.5*	94.4*	94.4*	91.1*	91.1*	87.0*	87.0*		
155	B	292.0*	210.0	260.0 ⁽¹⁾	195.0	230.0 ⁽¹⁾	178.0	208.0 ⁽¹⁾	164.0	185.0 ⁽¹⁾	151.0	165.0 ⁽¹⁾	139.0	147.0 ⁽¹⁾	126.0	130.0*	113.0	115.0 ⁽¹⁾		
160	B	89.8 ⁽¹⁾	99.9 ⁽¹⁾	106.0*	106.0*	101.0*	101.0*	96.8*	96.8*	92.5*	92.5*	89.5*	89.5*	86.3*	86.3*	83.8*	83.8*	81.1*	81.1*	
165	B	265.0*	257.0 ⁽¹⁾	189.0	229.0 ⁽¹⁾	173.0	206.0 ⁽¹⁾	160.0	183.0 ⁽¹⁾	148.0	163.0 ⁽¹⁾	136.0	146.0 ⁽¹⁾	120.0	130.0*	111.0	114.0 ⁽¹⁾	99.0	100.0*	
170	B	82.7 ⁽¹⁾	92.0 ⁽¹⁾	101.0	101.0*	96.7*	96.7*	92.1*	92.1*	87.9*	87.9*	85.0*	85.0*	81.9*	81.9*	78.1*	78.1*	75.1*	75.1*	
175	B	278.0 ⁽¹⁾	253.0 ⁽¹⁾	184.0	227.0 ⁽¹⁾	168.0	203.0 ⁽¹⁾	156.0	181.0 ⁽¹⁾	144.0	162.0 ⁽¹⁾	133.0	145.0 ⁽¹⁾	122.0	129.0*	109.0	113.0 ⁽¹⁾	98.0	99.4 ⁽¹⁾	
180	B	75.5 ⁽¹⁾	84.1 ⁽¹⁾	90.5	90.8 ⁽¹⁾	89.2*	92.3*	87.8*	87.8*	83.7*	83.7*	80.9*	80.9*	77.8*	77.8*	74.1*	74.1*	71.1*	71.1*	
185	B	272.0*	248.0 ⁽¹⁾	178.0	225.0 ⁽¹⁾	164.0	201.0 ⁽¹⁾	152.0	179.0 ⁽¹⁾	141.0	160.0 ⁽¹⁾	130.0	143.0 ⁽¹⁾	119.0	128.0*	108.0	112.0 ⁽¹⁾	96.7	98.9 ⁽¹⁾	
190	B	68.4 ⁽¹⁾	76.3 ⁽¹⁾	86.7	86.7	83.8*	83.8*	79.8*	79.8*	77.0*	77.0*	74.1*	74.1*	70.3*	70.3*	67.6*	67.6*	65.2*	65.2*	
195	B	265.0*	243.0 ⁽¹⁾	173.0	222.0 ⁽¹⁾	162.0	198.0 ⁽¹⁾	148.0	178.0 ⁽¹⁾	137.0	159.0 ⁽¹⁾	127.0	142.0 ⁽¹⁾	117.0	127.0*	106.0	112.0 ⁽¹⁾	95.4	98.3 ⁽¹⁾	
200	B	62.3 ⁽¹⁾	70.4 ⁽¹⁾	78.0 ⁽¹⁾	84.6*	80.1*	76.1*	76.1*	73.4*	73.4*	70.5*	70.5*	66.9*	66.9*	64.2*	64.2*	61.8*	61.8*		
205	B	259.0*	239.0 ⁽¹⁾	158.0	197.0 ⁽¹⁾	144.0	176.0 ⁽¹⁾	134.0	157.0 ⁽¹⁾	124.0	141.0 ⁽¹⁾	115.0	126.0 ⁽¹⁾	104.0	111.0*	94.0	97.7 ⁽¹⁾	84.3	86.0 ⁽¹⁾	
210	B	57.5 ⁽¹⁾	64.6 ⁽¹⁾	71.6 ⁽¹⁾	80.6*	80.6*	76.7*	76.7*	72.7*	72.7*	70.0*	70.0*	67.2*	67.2*	63.7*	63.7*	61.0*	61.0*		
215	B	253.0*	234.0 ⁽¹⁾	216.0*	154.0	195.0 ⁽¹⁾	141.0	174.0 ⁽¹⁾	131.0	156.0 ⁽¹⁾	122.0	139.0 ⁽¹⁾	112.0	125.0 ⁽¹⁾	102.0	110.0 ⁽¹⁾	92.5	97.2 ⁽¹⁾		
220	B	52.8 ⁽¹⁾	58.8 ⁽¹⁾	65.3 ⁽¹⁾	71.9	71.9	73.5*	73.5*	69.5*	69.5*	66.9*	66.9*	64.1*	64.1*	60.7*	60.7*	58.0*	58.0*		
225	B	246.0*	230.0 ⁽¹⁾	210.0	150.0	139.0	139.0 ⁽¹⁾	128.0	154.0 ⁽¹⁾	119.0	138.0 ⁽¹⁾	110.0	124.0*	100.0	109.0*	90.9	96.6 ⁽¹⁾	81.9	85.1 ⁽¹⁾	
230	B	48.0 ⁽¹⁾	52.9 ⁽¹⁾	59.3 ⁽¹⁾	68.3	68.3	70.3*	70.3*	66.6*	66.6*	64.0*	64.0*	61.2*	61.2*	57.8*	57.8*	55.2*	55.2*		
235	B	42.3 ⁽¹⁾	48.3 ⁽¹⁾	54.6 ⁽¹⁾	61.0 ⁽¹⁾	66.9*	66.9*	63.8*	63.8*	61.2*	61.2*	58.5*	58.5*	55.1*	55.1*	52.6*	52.6*	50.4*	50.4*	
240	B	232.0*	221.0 ⁽¹⁾	207.0 ⁽¹⁾	189.0 ⁽¹⁾	133.0	170.0 ⁽¹⁾	124.0	152.0 ⁽¹⁾	113.0	136.0 ⁽¹⁾	105.0	122.0*	96.0	108.0*	87.5	92.5 ⁽¹⁾	80.7	84.6 ⁽¹⁾	
245	B	38.4 ⁽¹⁾	44.5 ⁽¹⁾	49.8 ⁽¹⁾	55.8 ⁽¹⁾	63.7*	63.7*	61.2*	61.2*	58.6*	58.6*	56.0*	56.0*	52.6*	52.6*	50.1*	50.1*	48.0*	48.0*	
250	B	42.0 ⁽¹⁾	44.0 ⁽¹⁾	49.8 ⁽¹⁾	55.8 ⁽¹⁾	63.7*	63.7*	61.2*	61.2*	58.6*	58.6*	56.0*	56.0*	52.6*	52.6*	50.1*	50.1*	48.0*	48.0*	
255	B	33.7 ⁽¹⁾	40.6 ⁽¹⁾	45.1 ⁽¹⁾	50.5 ⁽¹⁾	56.5	56.5	58.3*	58.3*	56.2*	56.2*	53.6*	53.6*	50.3*	50.3*	47.8*	47.8*	45.7*	45.7*	
260	B	217.0*	211.0 ⁽¹⁾	201.0 ⁽¹⁾	186.0 ⁽¹⁾	127.0	167.0*	119.0	149.0 ⁽¹⁾	108.0	134.0 ⁽¹⁾	100.0	120.0*	91.8	107.0 ⁽¹⁾	84.0	94.5 ⁽¹⁾	76.3	83.1 ⁽¹⁾	
265	B	36.7 ⁽¹⁾	40.3 ⁽¹⁾	45.9 ⁽¹⁾	53.9	53.9	55.5*	55.5*	53.8*	53.8*	51.3*	51.3*	48.1*	48.1*	45.6*	45.6*	43.5*	43.5*	41.1*	41.1*
270	B	210.0*	206.0 ⁽¹⁾	198.0 ⁽¹⁾	184.0 ⁽¹⁾	124.0	166.0 ⁽¹⁾	116.0	148.0 ⁽¹⁾	106.0	133.0 ⁽¹⁾	98.1	119.0 ⁽¹⁾	89.8	106.0 ⁽¹⁾	82.3	93.8 ⁽¹⁾	74.9	82.9 ⁽¹⁾	
275	B	25.1 ⁽¹⁾	32.8 ⁽¹⁾	36.8 ⁽¹⁾	42.0 ⁽¹⁾	46.9*	53.0*	53.0*	51.3*	51.3*	49.2*	49.2*	45.9*	45.9*	43.5*	43.5*	41.5*	41.5*	39.1*	39.1*
280	B	203.0*	200.0 ⁽¹⁾	195.0	182.0 ⁽¹⁾	165.0 ⁽¹⁾	113.0	147.0*	105.0	144.0 ⁽¹⁾	95.9	118.0 ⁽¹⁾	87.9	105.0 ⁽¹⁾	80.5	93.1 ⁽¹⁾	73.4	82.5 ⁽¹⁾	66.0	71.9 ⁽¹⁾
285	B	22.2 ⁽¹⁾	29.0 ⁽¹⁾	33.6 ⁽¹⁾	38.1 ⁽¹⁾	42.6 ⁽¹⁾	50.6*	48.9*	48.9*	48.9*	47.1*	47.1*	43.9*	43.9*	41.5*	41.5*	39.5*	39.5*	37.1*	37.1*
290	B	196.0*	195.0 ⁽¹⁾	190.0 ⁽¹⁾	180.0 ⁽¹⁾	163.0*	111.0	146.0 ⁽¹⁾	103.0	131.0 ⁽¹⁾	93.8	117.0 ⁽¹⁾	86.0	104.0 ⁽¹⁾	78.9	92.5 ⁽¹⁾	72.0	81.9 ⁽¹⁾	64.8	71.7 ⁽¹⁾
295																				



286,600 lb –
374,800 lb

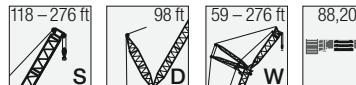
	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb



60

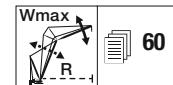
A ft	S 236																				
	W 59		W 79		W 98		W 118		W 138		W 157		W 177								
	85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax							
250	-			113.0°		116.0°		120.0°		122.0°		120.0°		118.0°							
255	B			112.0°		116.0°		118.0°		117.0°		115.0°		106.0°							
260	B			108.0°		111.0°		114.0°		115.0°		112.0°		104.0°							
265	B			104.0°		107.0°		110.0°		112.0°		109.0°		104.0°							
270	B			101.0°		103.0°		106.0°		108.0°		107.0°		102.0°							
275	B					99.6°		102.0°		105.0°		105.0°		102.0°							
280	B					96.2°		98.2°		101.0°		102.0°		99.1°							
285	B					92.8°		94.1°		97.7°		101.0°		98.2°							
290	B					89.3°		91.0°		94.3°		96.8°		95.7°							
295	B							88.0°		90.8°		93.6°		93.5°							
300	B									84.9°		87.3°		91.9°							
305	B										81.9°		83.4°								
310	B										78.8°		80.6°								
315	B											77.9°		81.1°							
320	B											75.2°		78.0°							
325	B											72.4°		74.5°							
330	B											69.7°		72.0°							
335	B												69.6°		72.8°						
340	B												67.1°		69.9°						
345	B												64.6°		66.6°						
350	B												62.1°		64.3°						
355	B													62.1°		64.4°					
360	B													59.8°		61.8°					
365	B													57.5°		58.7°					
370	B													55.2°		56.6°					
375	B														54.5°		57.4°				
380	B														52.4°		55.2°				
385	B														50.3°		52.2°				
390	B														48.3°		50.3°				
395	B															48.4°		50.3°			
400	B															46.5°		47.8°			
405	B															44.6°		46.0°			
410	B															42.7°		44.3°			
415	B																42.5°		45.0°		
420	B																40.7°		41.7°		
425	B																	39.0°		39.6°	
430	B																	37.2°		37.5°	
435	B																		35.5°		
440	B																		33.4°		
445	B																		31.3°		
450	B																		29.3°		

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



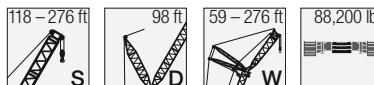
286,600 lb –
374,800 lb

	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb



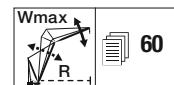
60

S 256																												
ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276					
	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	-		234.0°	234.0°																								
50	-	B	222.0	235.0°	228.0°	228.0°	218.0°	218.0°	221.0°	221.0°	193.0°	193.0°																
55	-	B	204.0	216.0°	209.0°	201.0°	201.0°	193.0°	193.0°	193.0°	193.0°																	
60	-	B	188.0	199.0°	193.0°	193.0°	186.0°	186.0°	179.0°	179.0°	170.0°	170.0°																
65	-	B	271.0	271.0	234.0	234.0	210.0	218.0°	189.0°	192.0°	170.0°	170.0°	150.0°	150.0°	166.0°	169.0°	150.0°	150.0°										
70	-	B	175.0	183.0°	180.0°	180.0°	172.0°	172.0°	166.0°	166.0°	159.0°	159.0°	149.0°	149.0°	143.0°	143.0°	133.0°	133.0°										
75	-	B	255.0	268.0°	230.0	233.0°	210.0	214.0°	189.0	189.0°	163.0°	168.0°	147.0	149.0°	133.0°	133.0°	117.0°	117.0°										
80	-	B	152.0	162.0°	157.0°	150.0°	150.0°	145.0°	145.0°	139.0°	139.0°	134.0°	134.0°	129.0°	129.0°	130.0°	130.0°	117.0°	117.0°									
85	-	B	143.0	150.0°	147.0°	147.0°	141.0°	141.0°	136.0°	136.0°	130.0°	130.0°	125.0°	125.0°	121.0°	121.0°	114.0°	114.0°	102.0°	102.0°								
90	-	B	242.0	264.0°	217.0	231.0°	198.0	208.0°	180.0	185.0°	163.0	165.0°	147.0	147.0°	127.0°	130.0°	114.0°	115.0°	102.0°	102.0°								
95	-	B	135.0	136.0°	139.0°	139.0°	133.0°	133.0°	128.0°	128.0°	123.0°	123.0°	118.0°	118.0°	114.0°	114.0°	110.0°	110.0°	99.8°	99.8°	88.6°	88.6°	77.6*	77.6*				
100	-	B	233.0	259.0°	210.0	231.0°	192.0	205.0°	175.0	182.0°	158.0	163.0°	144.0	145.0°	129.0	129.0°	112.0°	115.0°	99.8°	101.0°	88.6°	88.6°						
105	-	B	125.0°	131.0°	131.0°	126.0°	126.0°	121.0°	121.0°	116.0°	116.0°	111.0°	111.0°	107.0°	107.0°	104.0°	104.0°	97.9°	97.9°	87.2°	87.2°	77.6*	77.6*					
110	-	B	238.0	238.0°	202.0	227.0°	186.0	203.0°	170.0	180.0°	154.0	161.0°	140.0	143.0°	127.0	128.0°	114.0	114.0°	97.9°	98.8°	87.8°	87.8°						
115	-	B	115.0°	115.0°	125.0°	119.0°	119.0°	114.0°	114.0°	109.0°	109.0°	105.0°	105.0°	101.0°	101.0°	97.9°	97.9°	93.5°	93.5°	85.7°	85.7°	76.4*	76.4*	67.2*	67.2*			
120	-	B	248.0	248.0°	198.0	223.0°	180.0	200.0°	165.0	177.0°	150.0	159.0°	137.0	142.0°	124.0	127.0°	112.0	113.0°	99.4	99.4°	85.7°	85.7°	76.4*	76.4*	67.2*	67.2*		
125	-	B	106.0°	110.0	114.0°	113.0	113.0	108.0	108.0°	103.0	103.0°	99.0°	99.0°	95.8°	95.8°	92.4°	92.4°	88.3°	88.3°	84.0°	84.0°	75.2*	75.2*	66.2*	66.2*			
130	-	B	243.0°	192.0	218.0°	174.0	196.0°	160.0	175.0°	146.0	157.0°	133.0	140.0°	121.0	125.0°	110.0	112.0°	97.7	98.2°	86.8	86.8	75.2*	75.2*	66.2*	66.2*			
135	-	B	95.7°	105.0°	105.0°	107.0°	107.0°	103.0°	103.0°	98.1°	98.1°	93.8°	93.8°	90.7°	90.7°	87.4°	87.4°	83.4°	83.4°	80.2°	80.2°	74.1*	74.1*	65.2*	65.2*			
140	-	B	238.0	238.0°	185.0	214.0°	170.0	193.0°	162.0	172.0°	143.0	154.0°	130.0	139.0°	119.0	124.0°	108.0	111.0°	96.2	97.4°	85.7	85.7°	76.0	76.0	65.2*	65.2*		
145	-	B	86.1°	97.1°	97.1°	102.0°	102.0°	97.8°	97.8°	93.2°	93.2°	89.0°	89.0°	86.0°	86.0°	82.8°	82.8°	79.7°	79.7°	75.9°	75.9°	72.5*	72.5*	64.3*	64.3*			
150	-	B	235.0°	235.0°	210.0	210.0°	167.0	180.0°	152.0	170.0°	139.0	150.0°	128.0	137.0°	117.0	123.0°	106.0	110.0°	94.9	96.6°	84.6	84.6	75.3*	75.3*	66.0	66.0		
155	-	B	78.2°	82.1°	82.1°	88.1°	88.1°	89.0°	89.0°	84.5°	84.5°	80.4°	80.4°	77.7°	77.7°	74.7°	74.7°	70.9°	70.9°	68.0°	68.0°	65.6*	65.6*	61.9*	61.9*			
160	-	B	72.8°	82.1°	82.1°	88.1°	88.1°	89.0°	89.0°	84.5°	84.5°	80.4°	80.4°	77.7°	77.7°	74.7°	74.7°	70.9°	70.9°	68.0°	68.0°	65.6*	65.6*	61.9*	61.9*			
165	-	B	66.2°	74.6°	74.6°	82.8	82.8	82.8	82.8	85.1°	85.1°	80.7°	80.7°	76.6°	76.6°	73.9°	73.9°	71.0°	71.0°	67.3°	67.3°	64.6°	64.6°	62.3*	62.3*	58.8*	58.8*	
170	-	B	66.2°	72.8°	72.8°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°	80.5°		
175	-	B	59.5°	67.8°	67.8°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°		
180	-	B	59.5°	67.8°	67.8°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°	74.0°		
185	-	B	54.0°	62.4°	62.4°	69.5°	69.5°	78.3°	78.3°	73.7°	73.7°	69.8°	69.8°	67.2°	67.2°	64.4°	64.4°	60.9°	60.9°	58.2°	58.2°	56.0°	56.0°	52.9°	52.9°			
190	-	B	54.0°	62.4°	62.4°	69.5°	69.5°	78.0°	78.0°	73.0°	73.0°	69.0°	69.0°	67.2°	67.2°	64.4°	64.4°	60.9°	60.9°	58.2°	58.2°	56.0°	56.0°	52.9°	52.9°			
195	-	B	49.6°	57.1°	57.1°	63.5°	63.5°	69.0°	69.0°	62.1°	62.1°	70.7°	70.7°	66.8°	66.8°	64.2°	64.2°	61.4°	61.4°	58.0°	58.0°	55.3°	55.3°	53.2°	53.2°	50.2*	50.2*	
200	-	B	49.6°	57.1°	57.1°	63.5°	63.5°	69.0°	69.0°	62.1°	62.1°	70.7°	70.7°	66.8°	66.8°	64.2°	64.2°	61.4°	61.4°	58.0°	58.0°	55.3°	55.3°	53.2°	53.2°	50.2*	50.2*	
205	-	B	36.7°	42.2°	42.2°	48.0°	48.0°	54.2°	54.2°	62.3°	62.3°	58.8°	58.8°	56.2°	56.2°	53.6°	53.6°	50.2°	50.2°	47.7°	47.7°	45.7°	45.7°	43.0*	43.0*	43.0*	43.0*	
210	-	B	32.4°	37.5°	37.5°	43.5°	43.5°	51.4°	51.4°	54.7°	54.7°	56.4°	56.4°	53.8°	53.8°	51.2°	51.2°	47.9°	47.9°	45.5°	45.5°	43.4*	43.4*	40.9*	40.9*			
215	-	B	28.1°	34.8°	34.8°	39.1°	39.1°	51.1°	51.1°	52.1°	52.1°	54.2°	54.2°	51.6°	51.6°	49.1°	49.1°	45.1°	45.1°	42.8°	42.8°	40.0°	40.0°	37.6°	37.6°	33.3°	33.3°	
220	-	B	23.8°	31.2°	31.2°	34.6°	34.6°	40.3°	40.3°	45.7°	45.7°	49.5°	49.5°	45.4°	45.4°	42.7°	42.7°	40.7°	40.7°	38.2°	38.2°	35.9°	35.9°	33.9°	33.9°	31.6°	31.6°	
225	-	B	19.8°	23.8°	23.8°	25.0°	25.0°	21.8°	21.8°	25.3°	25.3°	30.0°	30.0°	34.7°	34.7°	41.3°	41.3°	39.6°	39.6°	36.6°	36.6°	34.2°	34.2°	32.3°	32.3°	30.0*	30.0*	
230	-	B	19.2°	21.9°	21.9°	23.1°	23.1°	21.8°	21.8°	25.3°	25.3°	30.0°	30.0°	34.7°	34.7°	41.3°	41.3°	39.6°	39.6°	37.4°								



286,600 lb –
374,800 lb

	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb



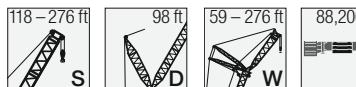
60

ft	B	S 256																									
		W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256					
		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				
260	B					104.0°		106.0°		108.0°		105.0°		97.1°		89.9°		82.2°		73.1°		47.3	65.1°	42.7	57.5°		
265	B					100.0°		103.0°		104.0°		102.0°		96.7°		88.2°		81.3°		72.5°		46.4	64.6°	41.7	57.1°		
270	B					99.1°		101.0°		99.4°		96.5°		86.9°		80.0°		71.9°		64.1°		40.8	56.7°	36.6	49.3°		
275	B					95.5°		97.2°		96.8°		94.7°		85.3°		79.2°		71.3°		63.6°		39.9	56.3°	35.7	49.0°		
280	B					91.9°		94.0°		94.2°		92.4°		83.7°		77.8°		70.4°		63.1°		39.0	55.9°	34.8	48.7°		
285	B					88.3°		90.9°		91.6°		90.2°		82.9°		76.7°		69.7°		62.6°		38.4	55.5°	34.0	48.4°		
290	B					87.7°		89.0°		87.9°		82.7°		75.3°		69.2°		62.1°		55.1°		33.2	48.0°	9.7*	9.7*		
295	B					84.6°		85.7°		85.7°		81.1°		74.2°		67.9°		61.3°		54.7°		32.5	47.7°	9.3*	9.3*		
300	B					81.4°		82.8°		83.5°		79.4°		72.8°		66.9°		60.7°		54.3°		31.9	47.4°				
305	B					78.3°		80.0°		81.3°		77.7°		72.6°		65.7°		60.3°		53.8°		31.4	47.1°				
310	B					77.2°		79.0°		76.1°		72.5°		64.9°		59.2°		53.1°		46.8°							
315	B					74.4°		75.8°		74.4°		70.8°		63.7°		58.8°		52.8°		46.4°							
320	B					71.6°		73.3°		72.7°		69.3°		63.0°		58.0°		52.5°		46.1°							
325	B					68.7°		70.8°		71.0°		67.8°		62.9°		56.9°		51.6°		45.5°							
330	B					68.3°		69.3°		66.4°		62.8°		56.1°		51.1°		45.3°									
335	B					65.8°		65.9°		64.9°		61.1°		55.2°		50.7°		45.1°									
340	B					63.2°		63.9°		63.4°		59.8°		55.0°		49.7°		44.4°									
345	B					60.7°		61.8°		61.9°		58.5°		54.9°		49.3°		44.0°									
350	B							59.7°		60.4°		57.2°		54.8°		48.3°		43.8°									
355	B							57.6°		57.4°		55.9°		53.1°		47.8°		43.0°									
360	B							55.5°		55.7°		54.5°		51.9°		47.7°		42.5°									
365	B							53.4°		54.0°		53.2°		50.7°		47.6°		42.0°									
370	B									52.3°		51.9°		49.5°		47.6°		41.3°									
375	B									50.6°		49.3°		48.4°		45.8°		41.0°									
380	B									48.9°		47.9°		47.2°		44.8°		41.0°									
385	B									47.2°		46.5°		46.0°		43.7°		41.0°									
390	B										45.1°		44.8°		42.6°		41.0°										
395	B										43.7°		42.5°		41.6°		39.2°										
400	B										42.3°		41.3°		40.5°		38.2°										
405	B										40.9°		40.0°		39.4°		37.2°										
410	B											38.8°		38.3°		36.2°											
415	B											37.6°		35.8°		35.2°											
420	B											36.3°		34.5°		34.2°											
425	B											35.1°		33.1°		33.2°											
430	B												31.8°		32.2°												
435	B												30.6°		28.5°												
440	B												29.4°		26.5°												
445	B												27.9°		24.5°												
450	B													22.6°													
455	B													20.6°													
460	B													18.6°													
465	B													16.7°													

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

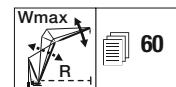


S 276																											
	ft	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276			
		85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax																
45	B	224.0°	224.0°																								
50	B	224.0°	224.0°																								
55	B	218.0°	218.0°	196.0*	196.0*	191.0*	191.0*	171.0*	171.0*																		
60	B	234.0	234.0	210.0*	219.0*	191.0*	193.0*	171.0*	171.0*																		
65	B	181.0	193.0*	186.0*	186.0*	178.0*	178.0*	167.0*	167.0*	151.0*	151.0*																
70	B	234.0	234.0	216.0	216.0	185.0*	192.0*	167.0*	169.0*	151.0*	151.0*																
75	B	168.0	178.0*	173.0*	173.0*	166.0*	166.0*	160.0*	160.0*	148.0*	148.0*	133.0*	133.0*														
80	B	232.0	233.0*	210.0	213.0*	190.0	190.0*	163.0*	168.0*	148.0*	149.0*	133.0*	133.0*														
85	B	157.0	168.0*	161.0*	161.0*	155.0*	155.0*	149.0*	149.0*	143.0*	143.0*	130.0*	130.0*	117.0*	117.0*												
90	B	224.0	232.0*	204.0	210.0*	186.0	187.0*	167.0	167.0*	144.0*	148.0*	130.0*	131.0*	117.0*	117.0*												
95	B	147.0	155.0*	151.0*	151.0*	145.0*	145.0*	139.0*	139.0*	134.0*	134.0*	127.0*	127.0*	115.0*	115.0*	103.0*	103.0*										
100	B	216.0	231.0*	198.0	207.0*	180.0	185.0*	163.0	165.0*	147.0	147.0*	127.0*	130.0*	115.0*	115.0*	103.0*	103.0*										
105	B	138.0	146.0*	142.0*	142.0*	136.0*	136.0*	131.0*	131.0*	125.0*	125.0*	120.0*	120.0*	112.0*	112.0*	101.0*	101.0*	89.3*	89.3*								
110	B	210.0	230.0*	191.0	204.0*	175.0	182.0*	159.0	162.0*	143.0	144.0*	129.0	129.0*	112.0*	114.0*	101.0*	101.0*	89.3*	89.3*								
115	B	130.0	133.0*	134.0*	134.0*	128.0	128.0*	123.0*	123.0*	118.0*	118.0*	113.0*	113.0*	109.0*	109.0*	98.6*	98.6*	87.7*	87.7*	77.9*	77.9*						
120	B	123.0	127.0*	127.0*	127.0*	121.0	121.0*	116.0*	116.0*	111.0	111.0*	107.0*	107.0*	103.0*	103.0*	96.5*	96.5*	86.0*	86.0*	76.6*	76.6*	68.1*	68.1*				
125	B	197.0	221.0*	177.0	197.0*	163.0	176.0*	150.0	157.0*	136.0	140.0*	123.0	125.0*	111.0	120.0*	99.9	99.9	86.0*	87.4*	76.6*	77.0*	68.1*	68.1*				
130	B	112.0*	120.0*	120.0*	120.0*	110.0	110.0*	105.0*	105.0*	101.0	101.0*	97.4*	97.4*	93.3*	93.3*	84.4*	84.4*	75.2*	75.2*	67.0*	67.0*	58.8*	58.8*				
135	B	216.0*	216.0*	172.0	193.0*	157.0	173.0*	145.0	155.0*	132.0	138.0*	120.0	124.0*	109.0	111.0*	98.1	98.5*	87.0	87.0	75.2*	75.2*	67.3*	67.3*	58.8*	58.8*		
140	B	103.0*	115.0*	115.0*	115.0*	109.0	109.0*	104.0*	104.0*	99.5	99.5*	95.1*	95.1*	92.1*	92.1*	88.6*	88.6*	82.5*	82.5*	73.8*	73.8*	65.9*	65.9*	57.8*	57.8*		
145	B	93.8*	101.0	101.0*	101.0*	103.0	103.0*	99.1*	99.1*	94.4*	94.4*	90.1*	90.1*	87.2*	87.2*	83.9*	83.9*	79.4*	79.4*	72.3*	72.3*	64.6*	64.6*	56.8*	56.8*		
150	B	84.6*	96.0	96.0	96.0	98.6*	98.6*	94.2*	94.2*	89.7	89.7*	85.5*	85.5*	82.6*	82.6*	79.5*	79.5*	75.6*	75.6*	70.7*	70.7*	63.3*	63.3*	56.1*	56.1*		
155	B	84.6*	96.0	96.0	96.0	98.6*	98.6*	94.2*	94.2*	89.7	89.7*	85.5*	85.5*	82.6*	82.6*	79.5*	79.5*	75.6*	75.6*	70.7*	70.7*	63.3*	63.3*	55.8*	55.8*		
160	B	79.0	82.0*	72.0*	77.6*	73.6*	73.6*	71.0*	71.0*	68.1*	68.1*	64.4*	64.4*	61.6*	61.6*	58.1*	58.1*	52.4*	52.4*	52.4*	52.4*	52.4*	52.4*	52.4*	52.4*		
165	B	64.2*	72.4*	72.4*	72.4*	79.0	79.0	82.0*	82.0*	77.6*	77.6*	73.6*	73.6*	71.0*	71.0*	68.1*	68.1*	64.4*	64.4*	61.6*	61.6*	58.1*	58.1*	52.4*	52.4*		
170	B	64.2*	72.4*	72.4*	72.4*	79.0	79.0	82.0*	82.0*	77.6*	77.6*	73.6*	73.6*	71.0*	71.0*	68.1*	68.1*	64.4*	64.4*	61.6*	61.6*	58.1*	58.1*	52.4*	52.4*		
175	B	58.1*	65.3*	65.3*	65.3*	76.0	76.0	78.5*	78.5*	74.1*	74.1*	70.2*	70.2*	67.6*	67.6*	64.8*	64.8*	61.2*	61.2*	58.4*	58.4*	55.2*	55.2*	50.7*	50.7*		
180	B	58.1*	65.3*	65.3*	65.3*	76.0	76.0	78.5*	78.5*	74.1*	74.1*	70.2*	70.2*	67.6*	67.6*	64.8*	64.8*	61.2*	61.2*	58.4*	58.4*	55.2*	55.2*	50.7*	50.7*		
185	B	52.0*	59.5*	59.5*	59.5*	67.1*	75.4*	75.4*	75.4*	70.9*	70.9*	67.0*	67.0*	64.5*	64.5*	61.7*	61.7*	58.2*	58.2*	55.5*	55.5*	52.4*	52.4*	48.2*	48.2*		
190	B	52.0*	59.5*	59.5*	59.5*	67.1*	75.4*	75.4*	75.4*	70.9*	70.9*	67.0*	67.0*	64.5*	64.5*	61.7*	61.7*	58.2*	58.2*	55.5*	55.5*	52.4*	52.4*	48.2*	48.2*		
195	B	48.8*	54.5*	54.5*	54.5*	61.3*	72.9*	72.9*	72.9*	67.9*	67.9*	64.1*	64.1*	61.5*	61.5*	58.8*	58.8*	55.3*	55.3*	52.7*	52.7*	49.8*	49.8*	45.7*	45.7*		
200	B	48.8*	54.5*	54.5*	54.5*	61.3*	72.9*	72.9*	72.9*	67.9*	67.9*	64.1*	64.1*	61.5*	61.5*	58.8*	58.8*	55.3*	55.3*	52.7*	52.7*	49.8*	49.8*	45.7*	45.7*		
205	B	42.8*	49.5*	49.5*	49.5*	55.6*	63.1	63.1	63.1	56.2*	56.2*	61.3*	61.3*	58.8*	58.8*	56.1*	56.1*	52.7*	52.7*	50.1*	50.1*	47.2*	47.2*	43.3*	43.3*		
210	B	42.8*	49.5*	49.5*	49.5*	55.6*	63.1	63.1	63.1	56.2*	56.2*	61.3*	61.3*	58.8*	58.8*	56.1*	56.1*	52.7*	52.7*	50.1*	50.1*	47.2*	47.2*	43.3*	43.3*		
215	B	32.0*	39.5*	39.5*	39.5*	47.5*	54.0*	54.0*	54.0*	50.4*	50.4*	54.0*	54.0*	49.4*	49.4*	46.8*	46.8*	43.5*	43.5*	41.1*	41.1*	38.5*	38.5*	35.0*	35.0*		
220	B	32.0*	39.5*	39.5*	39.5*	47.5*	54.0*	54.0*	54.0*	50.4*	50.4*	54.0*	54.0*	49.4*	49.4*	46.8*	46.8*	43.5*	43.5*	41.1*	41.1*	38.5*	38.5*	35.0*	35.0*		
225	B	23.0*	29.5*	29.5*	29.5*	34.7*	41.7*	41.7*	41.7*	39.9*	39.9*	47.9*	47.9*	45.5*	45.5*	42.9*	42.9*	39.7*	39.7*	37.3*	37.3*	34.8*	34.8*	31.4*	31.4*		
230	B	23.0*	29.5*	29.5*	29.5*	34.7*	41.7*	41.7*	41.7*	39.9*	39.9*	47.9*	47.9*	45.5*	45.5*	42.9*	42.9*	39.7*	39.7*	37.3*	37.3*	34.8*	34.8*	31.4*	31.4*		
235	B	15.2*	23.0*	23.0*	23.0*	31.9*	39.1	39.1	39.1	42.0*	42.0*	39.4*	39.4*	36.2*	36.2*	33.9*	33.9*	31.4*	31.4*	28.2*	28.2*	25.6*	25.6*	22.7*	22.7*		
240	B	15.2*	23.0*	23.0*	23.0*	31.9*	39.1	39.1	39.1	42.0*	42.0*	37.9*	37.9*	34.6*	34.6*	32.3*	32.3*	29.9*	29.9*	26.7*	26.7*	24.3*	24.3*	21.5*	21.5*		
245	B	11.9*	19.1*	19.1*	19.1*	20.3*	25.1*	25.1*	25.1*	28.2*	28.2*	32.3*	32.3*	30.2*	30.2*	27.7*	27.7*	25.4*	25.4*	23.1*	23.1*	20.5*	20.5*	17.5*	17.5*		
250	B	8.5*	15.1*	15.1*	15.1*	14.1*	21.0*	21.0*	21.0*	26.3*	26.3*	32.2*	32.2*	34.7*	34.7*	31.7*	31.7*	29.3*	29.3*	27.0*	27.0*	24.0*	24.0*	20.4*	20.4*		
255	B	8.5*	15.1*	15.1*	15.1*	14.1*	21.0*	21.0*	21.0*	26.3*	26.3*	32.2*	32.2*	34.7*	34.7*	31.7*	31.7*	29.3*	29.3*	27.0*							



286,600 lb –
374,800 lb

	529,100 lb – 617,300 lb
	330,700 lb – 463,000 lb
B	66,100 lb – 264,600 lb



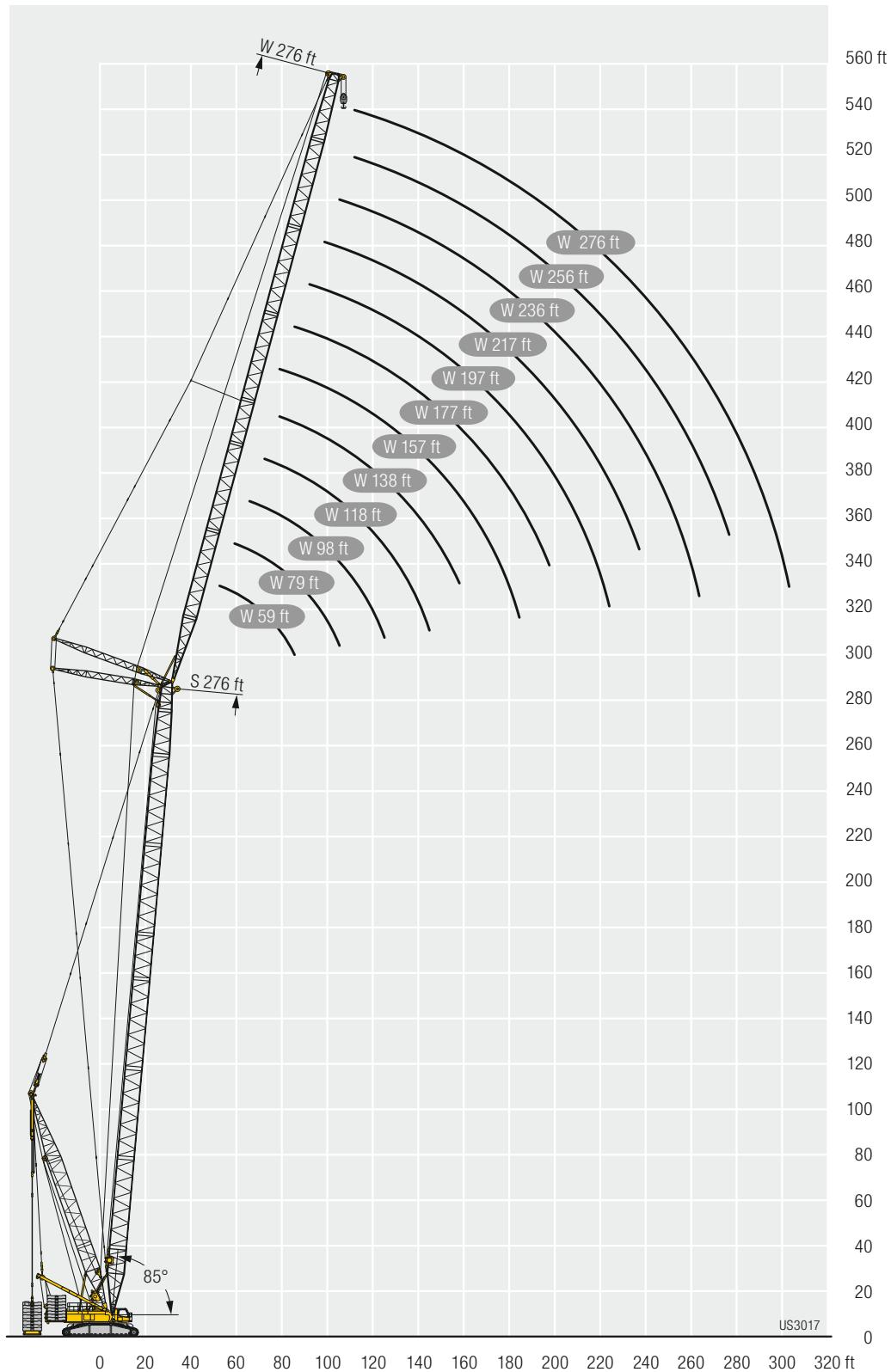
60

ft	S 276																								
	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276		
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		
265	B					99.1°		96.6°		91.6°		86.0°		78.9°		72.7°		66.2°		59.1°		12.2	12.2	13.9°	13.9°
270	B					95.5°		93.1°		89.3°		84.0°		78.3°		71.5°		65.5°		58.4°		37.6	52.5°	33.3	46.4°
275	B					92.0°		90.5°		87.1°		81.9°		77.9°		70.1°		64.3°		57.5°		32.4	45.9°	29.5	40.1°
280	B					88.4°		87.9°		84.8°		79.9°		77.3°		68.8°		63.5°		56.8°		30.9	44.9°	28.6	39.7°
285	B					85.3°		81.5°		77.8°		75.3°		67.5°		62.5°		56.2°		50.2°		30.3	44.4°	26.2	38.5°
290	B					82.7°		79.4°		75.8°		73.4°		66.5°		61.3°		55.1°		49.7°		44.0°	25.4	38.1°	8.3°
295	B					80.1°		77.3°		73.7°		71.4°		66.2°		60.3°		54.6°		49.1°		43.5°	24.8	7.9°	37.7°
300	B					77.5°		75.1°		71.7°		69.4°		65.9°		59.3°		53.8°		48.6°		43.1°	24.3	37.4°	
305	B					73.0°		69.1°		67.5°		63.8°		58.1°		52.7°		47.5°		42.7°		23.9	37.0°		
310	B					70.9°		67.2°		65.5°		62.2°		57.6°		52.0°		47.0°		42.2°			36.7°		
315	B					68.8°		65.3°		63.5°		60.7°		57.3°		50.8°		46.3°		41.8°			36.3°		
320	B					66.6°		63.5°		61.6°		59.1°		57.1°		50.1°		45.4°		40.8°			36.0°		
325	B					61.6°		58.7°		57.6°		55.1°		49.4°		45.0°		40.4°					35.6°		
330	B					59.7°		57.0°		56.0°		53.7°		49.1°		44.0°		39.9°					35.2°		
335	B					57.8°		55.4°		54.4°		52.3°		48.9°		43.5°		39.0°					34.6°		
340	B					56.0°		53.8°		52.9°		50.9°		48.7°		42.5°		38.7°					34.3°		
345	B					52.2°		50.2°		49.5°		46.7°		42.2°		38.0°							33.9°		
350	B					50.5°		48.7°		48.2°		45.4°		42.0°									33.1°		
355	B					48.9°		47.2°		46.8°		44.2°		41.9°		36.7°		32.8°					32.8°		
360	B					47.3°		45.7°		45.4°		42.9°		41.7°		39.7°		36.0°					32.3°		
365	B					44.2°		42.9°		41.7°													31.7°		
370	B					42.7°		41.5°		40.4°													31.5°		
375	B					41.2°		40.2°		39.2°													30.6°		
380	B					39.7°		38.8°		37.9°													30.2°		
385	B					37.4°		35.6°		35.2°													30.1°		
390	B					36.0°		34.3°		34.1°													30.0°		
395	B					34.7°		33.1°		33.0°													29.9°		
400	B					33.3°		31.9°		31.9°													29.9°		
405	B																						27.9°		
410	B																						27.0°		
415	B																						26.0°		
420	B																						25.1°		
425	B																						24.2°		
430	B																						23.2°		
435	B																						22.3°		
440	B																						21.4°		
445	B																						18.9°		
450	B																						15.9°		
455	B																						13.9°		
460	B																						12.0°		
465	B																						10.1°		
470	B																						8.2°		
475	B																						6.3°		

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

Lifting heights Hauteurs de levage

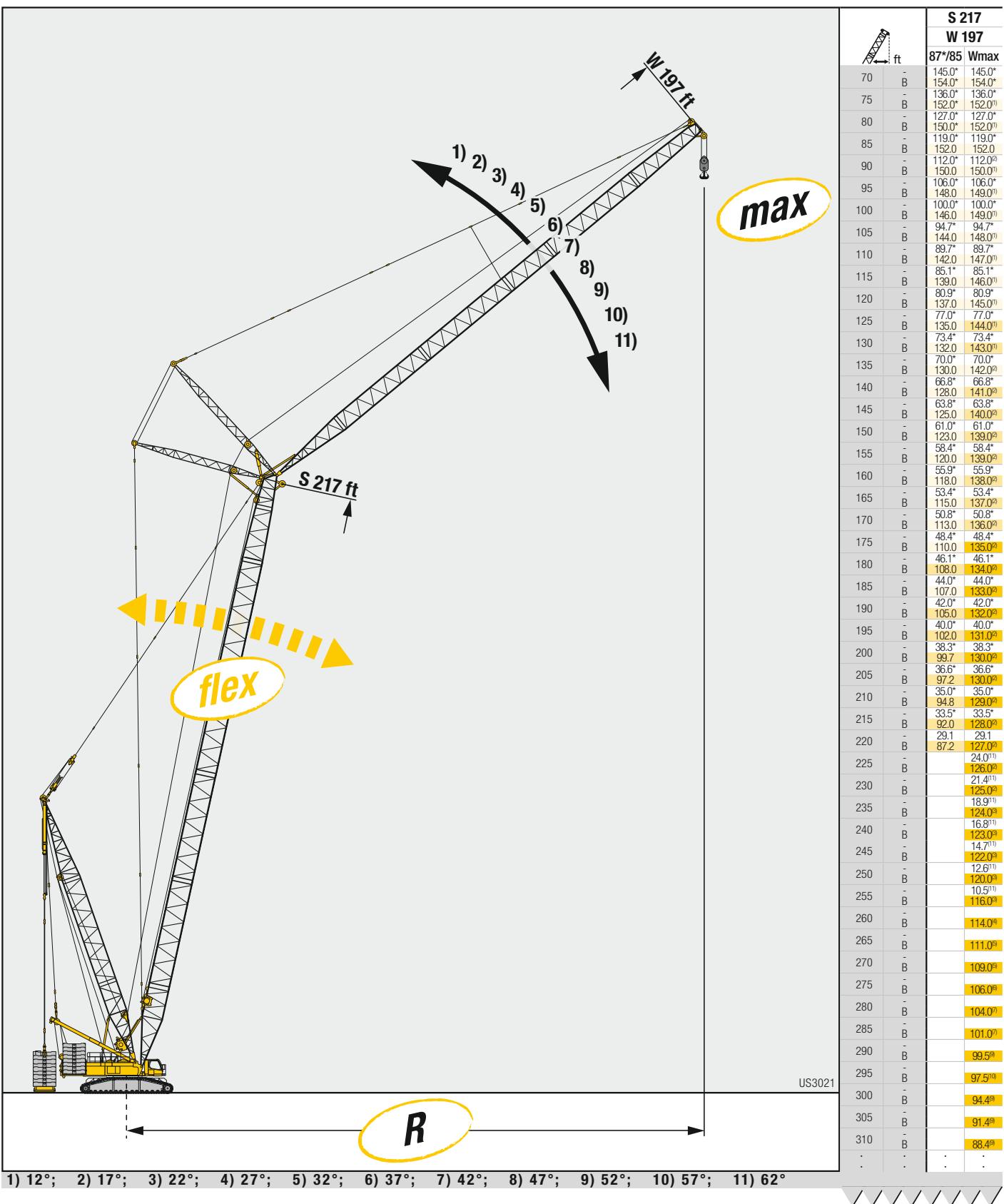
SDWB



Example

Exemple

Wmax





22,050 lb/88,200 lb



110,250 lb - 374,800 lb

ft	SL 79												SL 98																						
	F 39			F 59			F 79			F 98			F 118		F 39			F 59			F 79			F 98		F 118									
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°							
28	271																																		
30	271																																		
32	271	267																																	
34	271	262	234.0																																
36	271	253	229.0																																
38	271	244	223.0																																
40	270	236	155.0	215.0	190.0		184.0																												
45	260	218	146.0	197.0	175.0		169.0		153.0																										
50	239	204	139.0	182.0	163.0		155.0	140.0		142.0																									
55	221	190	133.0	168.0	153.0	110.0	144.0	130.0		131.0	118.0		110.0																						
60	206	179	127.0	157.0	143.0	105.0	134.0	122.0		121.0	111.0		103.0																						
65	193	169	122.0	147.0	135.0	100.0	125.0	115.0	89.6	113.0	105.0		96.6																						
70	182	160	117.0	138.0	128.0	96.0	117.0	108.0	85.6	106.0	98.2		90.8																						
75	171	152	113.0	130.0	121.0	92.3	110.0	102.0	81.8	99.5	92.5	77.0	85.4																						
80	163	145	109.0	123.0	115.0	88.7	104.0	97.1	78.3	93.8	87.6	73.7	80.4	67.3																					
85	155	139	106.0	117.0	110.0	85.5	98.4	92.3	75.3	88.6	83.0	70.5	76.1	64.2																					
90	148	133	103.0	112.0	105.0	82.8	93.4	88.0	72.5	83.9	79.0	67.6	72.1	61.4																					
95	141	128	101.0	107.0	101.0	80.3	89.0	84.1	69.7	79.7	75.4	64.9	68.7	58.7																					
100	136	124	99.0	102.0	97.3	77.9	84.8	80.4	67.4	75.8	72.0	62.4	65.3	56.3																					
105	128	120	97.8	97.9	93.6	75.9	81.1	77.2	65.1	72.2	68.8	60.0	62.3	54.1																					
110							94.2	90.3	74.0	77.8	74.3	63.1	69.0	65.9	57.9	59.5	52.0	118	118	100.0	103.0	97.5	77.5	84.1	79.2	66.0									
115							90.8	87.3	72.4	74.6	71.5	61.4	66.2	63.2	56.0	57.0	50.1	111	111	98.6	99.2	94.3	75.8	81.0	76.5	64.2									
120							87.7	84.8	71.1	71.9	69.0	59.7	63.4	60.8	54.1	54.6	48.4	104	105	97.6	95.8	91.4	74.2	77.9	73.9	62.5									
125							82.6	70.2	69.2	66.7	58.2	60.8	58.6	52.4	52.4	46.6																			
130									66.7	64.7	56.8	58.6	56.5	51.0	50.4	45.1																			
135									64.5	62.6	55.6	56.4	54.5	49.7	48.5	43.6																			
140									62.5	61.0	54.6	54.4	52.7	48.2	46.8	42.3																			
145									53.7	52.4	51.0	47.0	45.1	41.0																					
150									50.8	49.4	45.9	43.6	39.8										64.0	62.1	55.1	55.2	53.3	48.3							
155									49.2	48.0	44.8	42.2	38.7										62.3	60.7	54.3	53.5	51.7	47.1							
160									47.8	46.6	43.9	40.8	37.7												53.5	51.9	50.3	46.3							
165												43.0	39.5	36.7												50.4	49.0	45.4	42.5						
170												38.3	35.8													48.9	47.8	44.6	41.2						
175												37.2	35.0													47.6	46.6	43.7	40.1						
180												36.2	34.3															43.0	39.0	36.1					
185																														38.1	35.4				
190																														37.1	34.7				
195																														36.1	34.1				
200																																33.6			



39-118 ft



22,050 lb/88,200 lb



110,250 lb – 374,800 lb



39-118 ft



22,050 lb/88,200 lb



110,250 lb – 374,800 lb



22,050 lb/88,200 lb



| 110,250 lb – 374,800 lb



22,050 lb/88,200 lb



110,250 lb - 374,800 lb

A ft	SL 236															SL 256																	
	F 39			F 59			F 79			F 98			F 118		F 39			F 59			F 79			F 98			F 118						
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°				
45	222.0	118.0													208.0																		
50	216.0	194.0		167.0											202.0	185.0																	
55	210.0	191.0	146.0	162.0	147.0										197.0	180.0	154.0																
60	205.0	187.0	143.0	158.0	143.0		132.0								193.0	176.0	143.0	149.0	137.0	126.0													
65	196.0	183.0	140.0	153.0	139.0		128.0	116.0		113.0					187.0	173.0	140.0	146.0	133.0	123.0				109.0									
70	181.0	179.0	137.0	149.0	136.0	105.0	124.0	113.0		109.0	98.9				174.0	169.0	137.0	142.0	130.0	105.0	120.0	109.0				106.0							
75	167.0	169.0	135.0	145.0	133.0	103.0	121.0	110.0		106.0	96.3				86.4	161.0	163.0	135.0	139.0	127.0	103.0	117.0	107.0				103.0	92.8			79.7		
80	155.0	157.0	132.0	141.0	130.0	101.0	118.0	107.0	79.7	103.0	93.8				83.9	149.0	152.0	133.0	136.0	125.0	101.0	114.0	104.0				99.9	90.5			79.7		
85	144.0	146.0	129.0	138.0	127.0	99.0	115.0	105.0	79.7	100.0	91.3				81.6	139.0	141.0	130.0	132.0	122.0	99.0	111.0	102.0	79.7			97.3	88.3			79.1		
90	134.0	136.0	127.0	133.0	124.0	97.2	111.0	102.0	79.7	97.6	89.0	71.5			79.4	129.0	131.0	128.0	129.0	119.0	97.4	108.0	99.5	79.6			94.7	86.3			77.3		
95	126.0	128.0	125.0	126.0	121.0	95.4	109.0	99.8	79.6	94.9	86.9	69.9			77.4	61.0	121.0	123.0	125.0	122.0	117.0	95.8	106.0	97.2	79.3			92.2	84.2	69.4		75.4	
100	118.0	119.0	121.0	118.0	118.0	93.7	106.0	97.6	78.5	92.6	84.7	68.5			75.4	59.7	113.0	115.0	119.0	115.0	114.0	94.3	103.0	95.0	78.8			89.8	82.2	68.1		73.7	59.4
105	110.0	111.0	114.0	111.0	113.0	92.2	103.0	95.4	77.2	90.2	82.7	67.1			73.5	58.4	106.0	108.0	111.0	108.0	109.0	92.8	101.0	93.0	77.4			87.7	80.2	66.9		71.9	58.1
110	102.0	104.0	106.0	104.0	106.0	90.6	101.0	93.3	75.8	87.9	80.9	65.9			71.7	57.1	99.0	101.0	104.0	101.0	103.0	91.4	98.1	91.1	76.0			85.6	78.5	65.7		70.2	56.8
115	95.4	96.8	99.4	97.1	98.9	89.2	97.8	91.3	74.5	85.8	79.0	64.6			70.0	55.9	92.3	93.8	96.9	95.1	96.4	90.0	94.7	89.2	74.7			83.7	76.9	64.5		68.7	55.6
120	89.0	90.5	93.0	90.8	92.6	87.8	92.0	89.4	73.1	83.7	77.3	63.3			68.4	54.8	86.3	87.6	90.5	88.8	90.1	88.7	89.4	87.4	73.6			81.8	75.4	63.4		67.2	54.5
125	83.4	84.8	87.3	85.3	86.8	86.4	86.3	87.2	71.9	81.5	75.6	62.1			66.7	53.7	80.5	82.1	84.7	83.1	84.3	86.6	83.8	84.9	72.4			79.9	73.9	62.3		65.7	53.5
130	78.2	79.4	81.8	79.9	81.7	84.3	81.1	83.0	70.8	79.3	73.9	60.9			65.0	52.6	75.4	76.7	79.4	78.0	79.0	82.4	78.5	80.6	71.4			77.8	72.4	61.2		64.2	52.4
135	73.4	74.7	76.9	75.2	76.6	79.6	76.4	78.1	69.7	76.5	72.1	59.8			63.3	51.5	70.5	72.0	74.4	73.2	74.2	77.4	73.7	75.7	70.3			74.8	71.0	60.2		63.0	51.5
140	69.0	70.1	72.4	70.6	72.2	75.1	71.8	73.7	68.6	72.9	70.2	58.8			61.7	50.4	66.3	67.5	69.9	68.7	69.7	72.7	69.3	71.2	69.3			70.3	69.4	59.2		61.7	50.6
145	64.9	66.1	68.0	66.6	68.0	70.7	67.8	69.4	67.4	68.9	68.3	57.8			60.2	49.5	62.1	63.4	65.6	64.6	65.5	68.5	65.3	67.1	68.2			66.2	67.2	58.2		60.3	49.7
150	61.1	62.2	64.2	62.7	64.2	66.8	63.9	65.6	66.1	64.9	65.4	56.8			58.7	48.6	58.4	59.6	61.8	60.7	61.6	64.5	61.4	63.2	66.5			62.6	63.9	57.2		58.9	48.9
155	57.6	58.6	60.5	59.2	60.5	63.0	60.4	61.9	64.0	61.5	62.4	55.8			57.2	47.7	54.8	56.0	58.1	57.2	58.1	60.8	57.9	59.5	62.9			58.9	60.3	56.2		57.4	48.0
160	54.3	55.3	57.1	55.9	57.2	59.5	57.0	58.6	61.5	58.0	59.3	54.8			55.9	46.8	51.6	52.7	54.7	53.9	54.7	57.3	54.4	56.2	59.5			55.6	57.0	55.2		55.9	47.2
165	51.3	52.2	53.9	52.8	54.0	56.3	53.9	55.3	58.3	55.0	56.1	53.9			54.3	45.9	48.5	49.5	51.5	50.8	51.6	54.1	51.4	53.0	56.1			52.5	53.7	54.2		53.5	46.4
170	48.4	49.3	50.9	49.9	51.0	53.2	50.9	52.5	55.2	52.0	53.1	53.1			52.2	45.0	45.6	46.7	48.5	47.9	48.6	50.9	48.4	50.1	53.1			49.6	50.8	52.8		51.2	45.5
175	45.7	46.6	48.1	47.1	48.3	50.4	48.2	49.6	52.3	49.3	50.3	51.9			50.1	44.2	42.9	43.9	45.7	45.1	45.8	48.2	45.7	47.2	50.1			46.9	48.0	50.9		48.7	44.7
180	43.2	44.0	45.5	44.6	45.7	47.7	45.6	47.0	49.6	46.7	47.7	50.5			47.6	43.5	40.4	41.4	43.0	42.6	43.2	45.4	43.1	44.7	47.5			44.3	45.4	48.7		46.0	44.0
185	40.8	41.6	43.0	42.1	43.2	45.1	43.2	44.5	46.9	44.3	45.2	48.2			45.1	42.8	38.0	39.0	40.6	40.1	40.8	42.9	40.7	42.1	44.8			41.9	42.9	46.2		43.5	43.2
190	38.5	39.3	40.6	39.9	40.9	42.7	40.9	42.2	44.6	42.0	42.9	45.7			42.8	42.1	35.8	36.7	38.2	37.9	38.4	40.5	38.4	39.8	42.4			39.5	40.6	43.7		41.3	42.4
195	36.4	37.2	38.4	37.7	38.7	40.4	38.8	40.0	42.2	39.9	40.7	43.5			40.6	41.4	33.6	34.6	36.0	35.7	36.3	38.2	36.3	37.6	40.1			37.4	38.3	41.4		39.0	41.0
200	34.4	35.1	36.3	35.7	36.7	38.3	36.7	37.9	40.0	37.7	38.6	41.2			38.5	40.7	31.7	32.5	33.9	33.7	34.2	36.1	34.2	35.5	37.9			35.3	36.3	39.2		37.0	39.6
205	32.5	33.2	34.3	33.8	34.7	36.3	34.7	35.9	38.0	35.8	36.6	39.2			36.5	39.5	29.7	30.6	31.9	31.7	32.2	34.0	32.3	33.5	35.8			33.4	34.3	37.1		34.9	37.6
210	30.7	31.4	32.4	31.9	32.8	34.3	32.9	34.0	36.0	34.0	34.7	37.2			34.7	37.6	28.0	28.8	30.0	29.9	30.4	32.1	30.4	31.7	33.9			31.5	32.4	35.1		33.1	35.6
215	29.0	29.6	30.6	30.2	31.0	32.4	31.1	32.2	34.1	32.2	32.9	35.3			32.9	35.8	26.3	27.0	28.2	28.1	28.5	30.2	28.6	29.9	32.0			29.8	30.6	33.3		31.3	33.7
220	27.4	28.0	28.9	28.5	29.4	30.7	29.5	30.5	32.3	30.5	31.2	33.5			31.2	34.0	24.6	25.4	26.5	26.4	26.9	28.4	27.0	28.1	30.2			28.1	2				



22,050 lb/88,200 lb



110,250 lb - 374,800 lb

A ft	SL 276															SL 295															
	F 39			F 59			F 79			F 98			F 118		F 39			F 59			F 79			F 98			F 118				
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°		
50	189.0	173.0													174.0																
55	185.0	169.0		145.0											171.0	156.0															
60	181.0	166.0	138.0	141.0	129.0		118.0								167.0	155.0		133.0													
65	177.0	163.0	136.0	138.0	126.0		116.0								164.0	152.0	128.0	130.0	118.0		110.0										
70	168.0	159.0	133.0	135.0	123.0		114.0	104.0		100.0					161.0	150.0	126.0	127.0	116.0		107.0										
75	156.0	154.0	131.0	132.0	121.0	101.0	111.0	102.0		97.5	88.8				150.0	146.0	124.0	124.0	114.0	95.7	105.0	95.8									
80	144.0	146.0	129.0	129.0	118.0	99.2	108.0	99.4		95.1	86.7				77.7	139.0	140.0	122.0	122.0	112.0	94.1	102.0	93.6		89.4	81.7				73.6	
85	134.0	136.0	127.0	126.0	116.0	97.5	106.0	97.2	79.3	92.7	84.6				76.1	129.0	132.0	120.0	119.0	110.0	92.5	99.8	91.6		87.4	79.8				71.9	
90	125.0	126.0	125.0	123.0	113.0	95.8	103.0	95.1	78.8	90.5	82.7				74.5	120.0	123.0	119.0	117.0	108.0	91.0	97.6	89.7	75.3	85.3	78.1				70.3	
95	116.0	118.0	121.0	117.0	111.0	94.3	101.0	93.0	77.8	88.3	80.9	67.1			72.8	112.0	115.0	116.0	114.0	106.0	89.5	95.5	87.9	73.9	83.4	76.4	64.0		68.7		
100	109.0	110.0	115.0	110.0	109.0	92.8	98.8	91.0	76.5	86.2	79.2	65.9			71.1	57.8	105.0	107.0	111.0	106.0	104.0	88.1	93.4	86.2	72.6	81.5	74.8	62.8		67.1	
105	102.0	103.0	107.0	103.0	105.0	91.3	96.6	89.0	75.2	84.2	77.5	64.8			69.5	56.8	98.1	100.0	104.0	99.6	102.0	86.6	91.5	84.5	71.4	79.7	73.3	61.7		65.7	
110	95.7	96.8	101.0	97.1	98.6	90.0	94.4	87.2	74.0	82.3	75.9	63.7			68.0	55.7	91.9	93.9	97.2	93.4	95.9	85.2	89.7	82.9	70.3	78.0	71.8	60.7		64.3	
115	89.7	90.8	94.3	91.3	92.8	88.7	91.7	85.5	72.8	80.5	74.4	62.6			66.5	54.7	86.1	88.2	91.2	87.8	90.2	84.1	87.5	81.3	69.2	76.3	70.3	59.7		63.0	
120	83.8	84.7	87.9	85.8	87.1	87.2	86.7	83.8	71.7	78.8	72.9	61.6			65.1	53.7	80.8	82.8	85.6	82.5	84.9	82.9	83.2	79.8	68.1	74.7	69.0	58.7		61.6	
125	78.2	79.0	82.0	80.3	81.6	84.5	81.6	81.9	70.6	77.2	71.5	60.7			63.7	52.8	75.7	77.4	79.9	77.6	79.8	81.4	78.5	78.1	67.1	73.2	67.7	57.8		60.4	
130	73.1	74.0	76.7	75.0	76.3	80.0	76.5	78.1	69.5	75.2	70.1	59.7			62.4	51.9	70.6	72.2	74.5	72.8	74.8	77.9	74.0	75.2	66.2	71.7	66.4	56.8		59.2	
135	68.3	69.1	71.8	70.3	71.4	75.0	71.7	73.2	68.5	72.1	68.8	58.8			61.1	51.0	66.1	67.5	69.6	68.0	70.0	73.1	69.5	71.1	65.2	69.4	65.2	55.9		58.1	
140	64.0	64.7	67.3	66.0	67.0	70.3	67.3	68.7	67.6	67.7	67.5	57.9			60.0	50.2	61.5	63.2	65.1	63.6	65.5	68.4	65.1	66.6	64.3	65.5	64.1	55.1		57.0	
145	59.8	60.6	63.1	61.8	62.9	66.0	63.2	64.5	66.7	63.6	64.8	57.0			58.8	49.4	57.6	59.0	61.1	59.7	61.3	64.1	61.0	62.4	63.5	61.5	62.4	54.2		56.0	
150	56.1	56.8	59.2	58.1	58.9	62.1	59.5	60.6	64.2	59.8	61.4	56.2			57.6	48.6	53.8	55.3	57.0	55.9	57.7	60.1	57.2	58.5	62.0	57.7	59.4	53.4		55.0	
155	52.5	53.2	55.5	54.4	55.5	58.4	55.8	57.1	60.7	56.4	57.8	55.4			56.3	47.9	50.3	51.6	53.5	52.3	54.0	56.4	53.8	55.0	58.9	54.2	55.8	52.7		53.9	
160	49.3	49.9	52.1	51.2	52.0	54.9	52.6	53.6	57.2	53.1	54.4	54.5			54.8	47.2	47.0	48.4	50.0	49.0	50.7	53.1	50.5	51.7	55.4	50.9	52.4	52.0		52.6	
165	46.2	46.8	48.9	48.0	49.0	51.7	49.4	50.6	54.0	49.9	51.4	53.4			51.9	46.5	44.0	45.2	46.9	45.9	47.5	49.7	47.3	48.5	52.1	47.9	49.2	51.2		49.8	
170	43.4	43.9	45.9	45.2	45.9	48.6	46.5	47.5	50.9	47.1	48.3	51.8			49.0	45.7	41.1	42.4	43.9	43.0	44.6	46.7	44.5	45.5	49.0	44.9	46.4	50.0		47.0	
175	40.7	41.1	43.2	42.4	43.2	45.8	43.8	44.8	48.0	44.3	45.6	49.3			46.3	44.9	38.4	39.6	41.2	40.2	41.8	43.8	41.6	42.8	46.2	42.2	43.6	47.5		44.3	
180	38.1	38.7	40.5	39.9	40.5	43.0	41.2	42.2	45.3	41.8	42.9	46.7			43.6	44.0	35.9	37.1	38.5	37.8	39.2	41.2	39.1	40.1	43.4	39.7	40.9	44.8		41.7	
185	35.8	36.2	38.0	37.4	38.2	40.5	38.8	39.7	42.6	39.3	40.5	44.0			41.2	43.1	33.5	34.7	36.0	35.3	36.8	38.6	36.7	37.7	40.9	37.2	38.5	42.3		39.1	
190	33.5	34.0	35.6	35.2	35.8	38.1	36.4	37.4	40.2	37.0	38.2	41.6			38.8	41.3	31.3	32.5	33.6	33.1	34.4	36.2	34.4	35.3	38.4	35.0	36.1	39.9		36.9	
195	31.4	31.8	33.5	33.0	33.7	35.8	34.3	35.1	37.9	34.9	35.9	39.2			36.7	39.6	29.2	30.2	31.5	30.9	32.3	34.0	32.2	33.1	36.1	32.8	34.0	37.5		34.7	
200	29.4	29.8	31.4	31.0	31.6	33.7	32.2	33.1	35.7	32.8	33.9	37.1			34.6	37.6	27.2	28.3	29.3	28.9	30.1	31.8	30.2	31.1	33.9	30.8	31.8	35.3		32.6	
205	27.5	27.9	29.4	29.0	29.6	31.6	30.3	31.0	33.6	30.9	31.8	35.0			32.6	35.5	25.3	26.3	27.4	26.9	28.2	29.8	28.3	29.1	31.8	28.8	29.9	33.2		30.6	
210	25.7	26.0	27.5	27.2	27.7	29.7	28.4	29.2	31.7	29.0	30.0	33.0			30.7	33.5	23.5	24.5	25.5	25.1	26.3	27.8	26.4	27.2	29.9	27.0	28.0	31.3		28.7	
215	24.0	24.3	25.7	25.4	26.0	27.8	26.7	27.4	29.7	27.3	28.1	31.1			28.8	31.6	21.9	22.8	23.7	23.4	24.6	26.0	24.7	25.4	28.0	25.2	26.2	29.3		27.0	
220	22.4	22.7	24.0	23.8	24.3	26.1	25.0	25.7	28.0	25.6	26.5	29.3			27.2	29.8	20.4	21.3	22.1	21.8	22.8	24.2	22.9	23.7	26.2	23.5	24.5	27.5		25.3	
225	21.0	21.3	22.4	22.3	22.7	24.4	23.4	24.0	26.2	24.0	24.8	27.6			25.6	28.1	19.2	19.9	20.7	20.4	21.5	22.6	21.6	22.1	24.5	22.1	22.8	25.8		23.6	
230	19.7	20.0	21.0	21.0	21.3	22.8	21.9	22.6	24.6	22.5	23.3	25.9			24.1	26.4	17.9	18.7	19.3	19.2	20.1	21.1	20.2	20.8	22.9	20.7	21.5	24.2		22.2	
235	18.6	18.8	19.7	19.7	20.1	21.4	20.7	21.2	23.1	21.2	21.9	24.4			22.6	24.9	16.7	17.4	18.1	18.0											



22,050 lb/88,200 lb

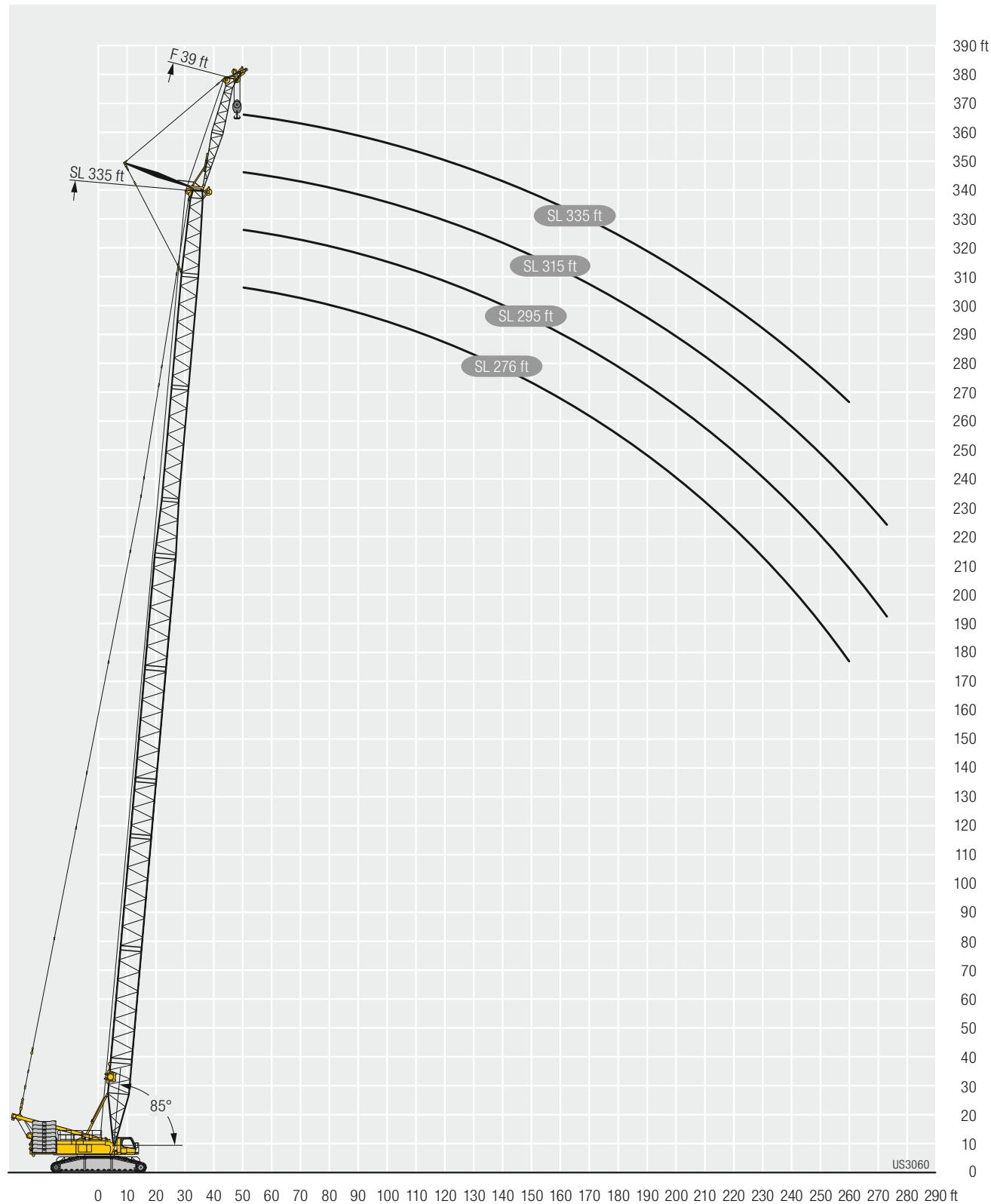


110,250 lb - 374,800 lb

ft	SL 315												SL 335				
	F 39			F 59			F 79			F 98			F 39				
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°
55	155,0	146,0											140,0				
60	152,0	143,0		124,0									137,0	130,0			
65	149,0	141,0	120,0	121,0	112,0		103,0						134,0	127,0	112,0		
70	146,0	139,0	118,0	118,0	110,0		100,0			88,2			131,0	125,0	110,0		
75	143,0	136,0	117,0	116,0	107,0	90,6	98,1	90,0		86,1			129,0	123,0	108,0		
80	135,0	133,0	115,0	114,0	105,0	89,1	95,9	88,1		84,1	77,2		125,0	120,0	107,0		
85	125,0	126,0	113,0	112,0	103,0	87,5	93,8	86,3		82,2	75,6		119,0	117,0	105,0		
90	116,0	118,0	112,0	110,0	101,0	86,1	91,8	84,6	71,4	80,3	74,0		112,0	113,0	104,0		
95	108,0	110,0	110,0	107,0	99,5	84,7	90,1	82,9	70,2	78,5	72,5		104,0	106,0	102,0		
100	101,0	103,0	106,0	102,0	97,7	83,4	88,3	81,4	69,0	76,9	71,0	59,2	97,0	98,6	100,0		
105	94,5	95,8	99,5	95,2	95,1	82,2	86,5	79,9	67,8	75,3	69,6	58,2	90,5	92,0	96,6		
110	88,4	89,6	93,1	89,2	90,9	80,9	84,9	78,4	66,7	73,7	68,3	57,2	84,6	85,9	90,4		
115	82,8	84,0	87,2	83,7	85,3	79,7	82,7	77,1	65,7	72,2	67,0	56,3	79,1	80,3	84,7		
120	77,6	78,8	81,8	78,5	80,1	78,6	79,5	75,7	64,7	70,8	65,7	55,4	74,0	75,2	79,3		
125	72,7	73,9	76,7	73,7	75,2	77,6	74,7	74,4	63,7	69,5	64,6	54,6	69,2	70,4	74,4		
130	68,3	69,2	71,9	69,2	70,7	74,8	70,4	71,7	62,8	68,0	63,4	53,8	64,8	66,0	69,7		
135	63,7	64,6	67,0	65,1	66,4	70,6	66,2	68,0	62,0	65,5	62,4	53,0	60,8	61,8	65,4		
140	59,5	60,2	62,5	60,9	62,1	66,0	62,3	63,9	61,2	62,3	61,3	52,2	56,8	57,8	61,0		
145	55,4	56,3	58,3	56,8	58,0	61,7	58,3	59,9	60,4	58,7	60,4	51,5	52,9	53,8	56,8		
150	51,6	52,4	54,5	53,1	54,2	57,7	54,6	56,0	59,7	55,1	57,5	50,8	49,3	50,2	53,0		
155	48,2	49,0	50,9	49,6	50,7	54,0	51,0	52,4	56,7	51,6	54,1	50,1	45,7	46,6	49,4		
160	44,8	45,6	47,5	46,2	47,4	50,6	47,8	49,1	53,2	48,3	50,7	49,4	42,6	43,3	46,1		
165	41,9	42,6	44,4	43,2	44,1	47,4	44,8	46,0	49,9	45,2	47,6	48,8	39,5	40,3	42,8		
170	38,9	39,7	41,3	40,3	41,3	44,4	41,7	43,1	46,8	42,4	44,6	47,7	36,7	37,3	40,0		
175	36,4	36,9	38,6	37,6	38,5	41,4	39,1	40,2	43,9	39,7	41,9	45,4	34,0	34,7	37,1		
180	33,8	34,4	35,9	35,1	35,9	38,8	36,5	37,7	41,2	37,0	39,4	42,7	31,4	32,1	34,5		
185	31,4	32,0	33,5	32,6	33,5	36,2	34,1	35,2	38,6	34,7	36,8	40,1	29,1	29,7	32,1		
190	29,2	29,8	31,1	30,4	31,2	33,9	31,8	32,8	36,2	32,4	34,5	37,7	26,8	27,5	29,7		
195	27,1	27,5	28,9	28,2	29,0	31,5	29,6	30,7	33,9	30,2	32,3	35,4	24,8	25,3	27,5		
200	25,1	25,6	26,8	26,2	26,9	29,4	27,6	28,5	31,6	28,2	30,2	33,1	22,8	23,4	25,4		
205	23,2	23,6	24,8	24,3	25,0	27,4	25,7	26,6	29,6	26,2	28,2	31,1	21,1	21,5	23,5		
210	21,6	22,0	22,9	22,6	23,1	25,4	23,9	24,7	27,6	24,5	26,3	29,1	19,6	20,0	21,6		
215	20,0	20,4	21,4	21,0	21,6	23,6	22,2	23,0	25,7	22,7	24,6	27,1	18,1	18,5	20,1		
220	18,7	19,0	19,9	19,6	20,0	21,9	20,7	21,5	23,9	21,2	22,9	25,4	16,7	17,1	18,6		
225	17,3	17,7	18,5	18,2	18,7	20,5	19,3	20,0	22,3	19,9	21,3	23,6	15,4	15,8	17,3		
230	16,1	16,4	17,2	16,9	17,4	19,1	18,0	18,7	20,9	18,5	20,0	22,1	14,2	14,5	16,0		
235	14,9	15,2	15,9	15,7	16,2	17,8	16,8	17,4	19,5	17,4	18,7	20,7	13,0	13,3	14,7		
240	13,7	14,0	14,7	14,6	15,0	16,6	15,6	16,2	18,3	16,2	17,6	19,4	11,9	12,2	13,5		
245	12,7	12,9	13,6	13,5	13,9	15,4	14,5	15,1	17,0	15,0	16,4	18,2	10,7	11,1	12,3		
250	11,6	11,9	12,5	12,4	12,8	14,3	13,4	14,0	15,9	14,0	15,3	17,0	9,6	9,9	11,2		
255	10,6	10,8	11,4	11,4	11,7	13,2	12,4	12,9	14,7	12,9	14,2	15,9	8,4	8,7	10,2		
260	9,6	9,8	10,4	10,4	10,7	12,1	11,4	11,9	13,7	12,0	13,2	14,8	7,2	7,6	9,1		
265	8,4	8,7	9,4	9,5	9,8	11,1	10,5	10,9	12,6	11,0	12,2	13,8	6,1	6,4	8,0		
270	7,3	7,5	8,2	8,5	8,9	10,1	9,6	10,0	11,7	10,1	11,3	12,7			6,8		
275	6,2	6,5	7,1	7,4	7,8	9,2	8,6	9,1	10,7	9,2	10,4	11,8			5,7		
280				6,0	6,4	6,7	7,7	8,2	9,8	8,3	9,5	10,8					
285						5,7	7,1	6,7	7,2	8,9	7,3	8,6	10,0				
290							6,0	5,7	6,2	7,9	6,4	7,8	9,1				
295										7,0		6,9	8,2				
300											5,9		5,9	7,4			
305												6,5					
310												5,5					

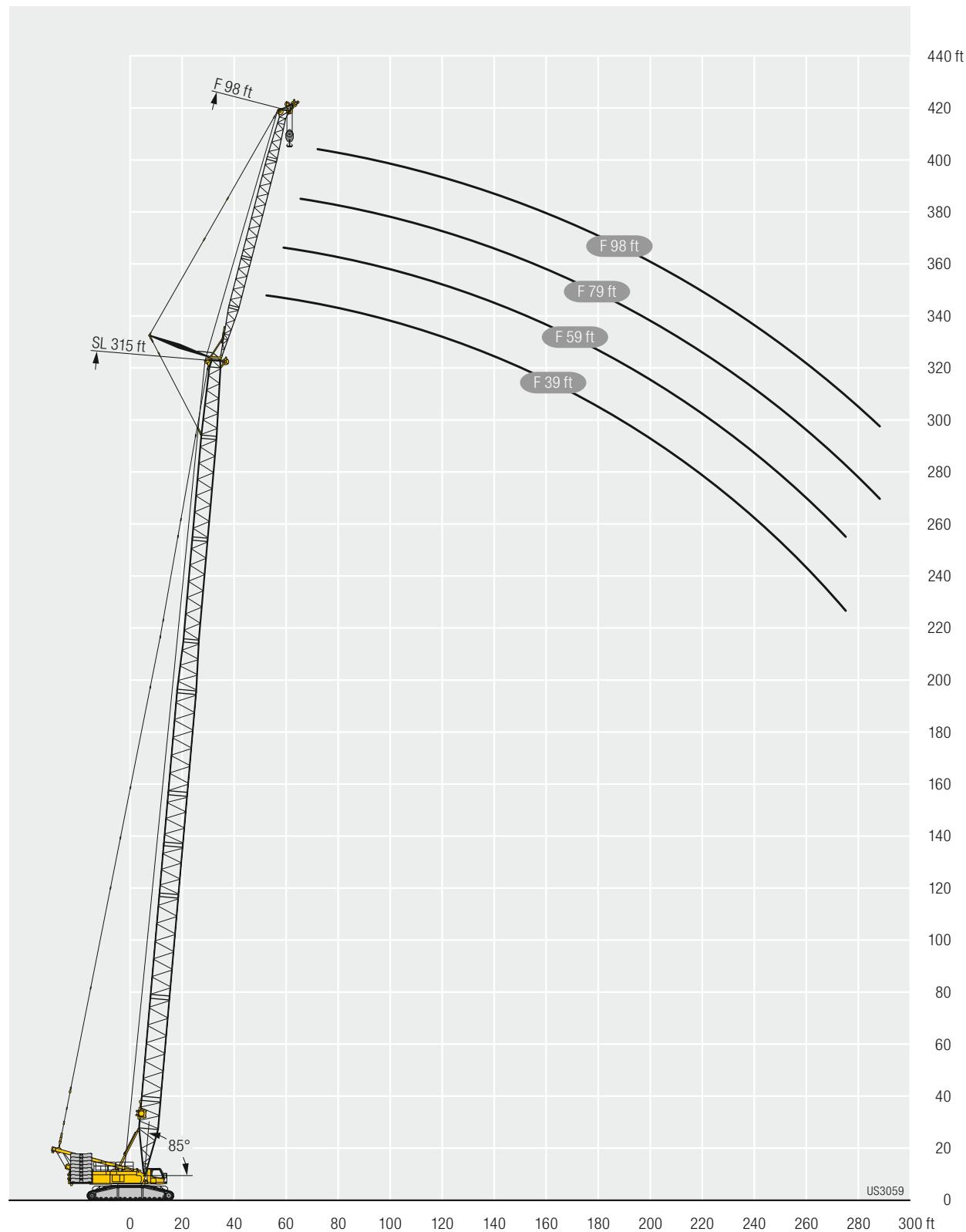
Lifting heights Hauteurs de levage

SLF



Lifting heights Hauteurs de levage

SLF





22,050 lb / 88,200 lb

110,250 lb – 374,800 lb

A ft	SL3 177														A ft		
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
36	271															36	
38	271															38	
40	271	269														40	
45	271	257		231												45	
50	271	246	152	221	184		184									50	
55	261	235	147	210	176		176			155						55	
60	238	225	143	200	169	113	167	143		149						60	
65	218	215	140	191	163	110	160	137		143	119					65	
70	201	202	136	183	157	107	153	132	90.9	136	118		109		97	70	
75	185	187	133	176	151	104	146	127	88.6	131	114		105		94	75	
80	172	173	130	168	146	101	140	123	86.2	125	110		101		91.2	80	
85	159	160	127	159	141	98.6	135	118	83.7	120	106	76.1		96.9		88.4	
90	146	147	124	148	137	96.3	130	114	81.7	115	102	73.9	93.3	68	85.8	90	
95	136	137	121	137	132	94.1	125	110	79.7	111	98.5	71.8	89.7	66	83.3	62	
100	126	127	119	128	128	92	121	107	77.8	107	95.2	70	86.7	64.1	80.3	60.1	
105	118	118	116	119	121	90	117	104	75.8	103	92.2	68.2	83.7	62.3	77.2	58.4	
110	110	111	112	112	113	88.3	112	101	74.2	99.5	89.3	66.6	80.9	60.6	74.2	56.7	
115	103	104	107	105	106	86.5	106	97.8	72.6	96.1	86.6	65	78.2	59	71.8	55.1	
120	96.8	97.3	100	98.3	99.4	84.8	99.1	95.1	71.1	92.8	84	63.4	75.6	57.6	69.6	53.4	
125	91.1	91.6	94.2	92.5	93.7	83.2	93.3	92.3	69.6	89.8	81.4	61.9	73.3	56.2	67.5	52	
130	85.8	86.3	88.8	87.1	88.4	81.7	88.1	88.8	68.1	86.8	79.2	60.5	71.1	54.9	65.5	50.7	
135	80.9	81.5	83.9	82.3	83.4	80.3	83.1	84.6	66.7	83.6	77	59.3	69	53.6	63.5	49.3	
140	76.5	77	79.3	77.9	78.9	79	78.7	80	65.4	79.5	75	58.1	67	52.3	61.6	48.1	
145	72.4	72.8	75	73.7	74.7	76.5	74.6	75.8	64.3	75.3	73	56.9	65.1	51.1	59.7	46.8	
150	68.6	69	71	69.8	70.8	73.1	70.6	71.9	63.2	71.5	71.1	55.7	63.3	49.9	58	45.7	
155	65.1	65.4	67.3	66.3	67.2	69.3	67.1	68.2	62.1	67.9	68.6	54.6	61.6	48.7	56.3	44.6	
160	61.8	62.1	63.9	63	63.8	65.9	63.8	64.9	61.1	64.5	65.9	53.5	60	47.6	54.7	43.5	
165	58.7	59	60.7	59.8	60.7	62.6	60.6	61.7	60.2	61.5	62.7	52.5	58.6	46.6	53.2	42.6	
170	55.8	56.1	57.7	56.9	57.7	59.6	57.7	58.7	59	58.5	59.8	51.7	57.2	45.7	51.8	41.7	
175	53.1	53.3	54.9	54.2	55	56.7	55	55.9	57.3	55.7	57	50.8	55.9	44.8	50.4	40.8	
180	50.6	50.8	52.2	51.6	52.4	54	52.4	53.3	55.1	53.2	54.3	49.9	54	44	49.2	39.9	
185			49.7	49.2	49.9	51.4	49.9	50.9	52.5	50.7	51.9	49.1	51.7	43.1	48	39.1	
190				46.9	47.6	49	47.6	48.5	50	48.4	49.5	48.4	49.4	42.4	46.8	38.3	
195				44.8	45.4	46.7	45.5	46.3	47.8	46.3	47.3	47.7	47.2	41.7	45.7	37.5	
200				42.7	43.3	44.5	43.4	44.2	45.6	44.2	45.2	46.9	45.1	41	44.7	36.8	
205						42.4	41.5	42.2	43.5	42.3	43.2	45	43.2	40.3	43.4	36.1	
210							39.6	40.3	41.5	40.4	41.3	43	41.3	39.7	41.6	35.4	
215							37.9	38.5	39.6	38.7	39.6	41.1	39.5	39	39.9	34.8	
220								36.8	37.8	37	37.9	39.3	37.8	38.5	38.2	34.2	
225									36.1	35.4	36.2	37.6	36.2	37.6	36.6	33.6	
230										33.9	34.6	35.9	34.6	36.3	35	33	
235										32.5	33.2	34.3	33.2	34.8	33.5	32.5	
240										31.1	31.7	32.8	31.8	33.3	32.2	31.9	
245											30.4	31.8	30.8	31.4		245	
250											29.1	30.5	29.5	30.8		250	
255											27.9	29.1	28.3	29.9		255	
260												27.8	27.1	28.7		260	
265													26	27.5		265	
270														24.9	26.3	270	
275														23.8	25.2	275	
280														24.1		280	



ft	SL3 197														ft		
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
38	271															38	
40	271															40	
45	271	259		127												45	
50	271	248	152	222	116											50	
55	253	238	149	212	177		177			157						55	
60	230	229	145	203	171		169	143		151						60	
65	210	212	141	195	165	111	161	138		144	119					65	
70	194	195	138	187	159	108	155	133		138	118		110		96.4	70	
75	179	180	135	178	154	105	149	128	88.7	132	115		105		93.7	75	
80	166	167	132	166	149	102	143	124	86.3	127	111		101		91.1	80	
85	155	156	129	154	144	100	138	120	84.3	122	107	76.4			88.6	85	
90	143	145	126	144	140	98	133	116	82.3	118	103	74.3	94.1	68.3	86.2	90	
95	133	134	124	134	135	95.9	128	113	80.3	113	99.9	72.5	90.9	66.3	83.8	62	95
100	123	124	121	125	127	93.9	124	109	78.4	110	96.9	70.7	87.9	64.4	81.4	60.2	100
105	115	116	118	116	118	92	117	106	76.8	106	94	69.1	85.2	62.7	78.7	58.5	105
110	107	108	111	109	110	90.1	110	103	75.2	102	91.3	67.4	82.5	61.1	75.9	57	110
115	100	101	104	102	104	88.4	103	100	73.6	99	88.7	65.9	79.9	59.6	73.3	55.5	115
120	94	94.7	97.8	95.7	96.9	86.7	96.6	97.1	72	95.8	86.2	64.5	77.5	58.2	71.1	54.1	120
125	88.3	89	92	89.8	91.3	85.1	90.8	92.5	70.6	91.5	83.8	63.1	75.1	56.8	69.1	52.7	125
130	83.1	83.7	86.5	84.6	85.9	83.7	85.6	87.2	69.4	86.5	81.4	61.8	72.9	55.5	67.1	51.3	130
135	78.3	78.8	81.5	79.8	81	82.2	80.6	82.3	68.2	81.5	79.2	60.5	70.9	54.3	65.2	50	135
140	73.8	74.4	77	75.2	76.5	79.1	76.2	77.6	67	77.1	77.1	59.2	68.9	53	63.2	48.8	140
145	69.7	70.2	72.7	71.1	72.3	75	72	73.5	65.7	72.9	74	58	67.1	51.8	61.3	47.6	145
150	65.9	66.3	68.8	67.3	68.4	71	68.2	69.6	64.6	69.1	70.6	56.8	65.2	50.8	59.7	46.6	150
155	62.4	62.8	65.1	63.7	64.8	67.3	64.7	65.9	63.5	65.5	67.1	55.7	63.5	49.8	58	45.5	155
160	59.1	59.5	61.6	60.4	61.4	63.8	61.3	62.6	62.3	62.2	63.7	54.7	61.7	48.8	56.5	44.5	160
165	56	56.4	58.4	57.3	58.2	60.5	58.2	59.4	61	59.1	60.5	53.8	59.7	47.7	55	43.5	165
170	53.1	53.5	55.5	54.4	55.3	57.5	55.2	56.4	58.7	56.1	57.6	52.9	57.4	46.8	53.6	42.6	170
175	50.4	50.7	52.6	51.6	52.6	54.6	52.4	53.6	55.7	53.4	54.8	52	54.6	45.9	52.2	41.7	175
180	47.9	48.2	50	49.1	49.9	51.9	49.9	51	53	50.8	52.2	51.1	52	45.1	50.9	40.8	180
185	45.5	45.8	47.5	46.7	47.5	49.3	47.5	48.5	50.5	48.4	49.6	50.3	49.5	44.3	49.6	40	185
190	43.3	43.5	45.1	44.4	45.2	46.9	45.1	46.2	48	46.1	47.3	49.4	47.2	43.5	47.5	39.1	190
195	41.2	41.4	42.9	42.2	43	44.6	43	44	45.7	43.9	45.1	47.2	45	42.7	45.3	38.3	195
200	39.3	40.7		40.2	40.9	42.5	41	41.9	43.6	41.9	43	45.1	42.9	42	43.3	37.6	200
205				38.3	39	40.4	39	39.9	41.5	39.9	41	43	40.9	41.3	41.2	37	205
210				36.4	37.1	38.4	37.2	38	39.5	38.1	39.1	41.1	39.1	40.5	39.4	36.3	210
215				34.7	35.3	36.6	35.4	36.2	37.6	36.3	37.3	39.2	37.3	39.2	37.6	35.7	215
220						34.8	33.8	34.5	35.8	34.7	35.6	37.4	35.6	37.8	36	35.1	220
225							32.2	32.9	34.1	33	34	35.6	34	36.1	34.3	34.5	225
230							30.7	31.4	32.5	31.5	32.4	34	32.4	34.4	32.8	33.9	230
235							29.9	30.9	30.1	30.9	32.4	30.9	32.9	31.3	33.1	235	
240								29.4	28.7	29.5	30.9	29.5	31.4	29.9	32.2	240	
245									27.4	28.2	29.5	28.2	29.9	28.6	30.8	245	
250									26.1	26.9	28.1	26.9	28.5	27.3	29.4	250	
255										24.9	25.6	26.7	25.7	27.2	26.1	28.1	255
260										24.5	26		24.5	26.8		260	
265											23.3	24.7	23.7	25.6		265	
270											22.2	23.5	22.7	24.4		270	
275											21.3	22.4	21.7	23.3		275	
280											20.9	22.3		20.9		280	
285											20	21.3		20.9		285	
290											19.3	20.4		19.3		290	
295												19.6		19.6		295	
300												18.8		18.8		300	



ft	SL3 217														ft		
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
40	271.0															40	
45	271.0	260.0														45	
50	267.0	250.0		223.0												50	
55	244.0	241.0	150.0	214.0	178.0		177.0									55	
60	222.0	224.0	147.0	205.0	172.0		170.0	143.0		151.0						60	
65	203.0	205.0	143.0	197.0	167.0	111.0	163.0	139.0		145.0						65	
70	187.0	189.0	140.0	186.0	161.0	109.0	157.0	134.0		139.0	118.0					70	
75	173.0	174.0	137.0	172.0	156.0	106.0	151.0	130.0	89.0	134.0	116.0		106.0		93.7	75	
80	160.0	162.0	134.0	160.0	151.0	103.0	146.0	126.0	86.9	129.0	112.0		102.0		91.4	80	
85	149.0	150.0	131.0	149.0	147.0	101.0	140.0	122.0	84.8	124.0	108.0	76.7	98.6		88.9	85	
90	139.0	140.0	128.0	139.0	141.0	99.4	136.0	118.0	82.9	119.0	105.0	74.8	95.3		86.6	90	
95	130.0	131.0	126.0	131.0	133.0	97.3	130.0	115.0	81.1	116.0	102.0	73.0	92.2	66.6	83.7	95	
100	120.0	121.0	124.0	122.0	124.0	95.3	122.0	111.0	79.4	112.0	98.6	71.3	89.2	64.9	80.8	60.5	100
105	112.0	113.0	117.0	114.0	116.0	93.4	115.0	108.0	77.7	108.0	95.7	69.7	86.4	63.3	77.9	58.9	105
110	104.0	105.0	109.0	106.0	108.0	91.7	107.0	105.0	76.2	105.0	93.0	68.2	83.9	61.8	75.9	57.3	110
115	97.7	98.3	102.0	99.3	101.0	90.0	100.0	102.0	74.7	101.0	90.4	66.7	81.3	60.4	74.0	55.7	115
120	91.3	92.1	95.5	93.2	94.6	88.4	94.0	95.9	73.3	94.9	87.9	65.3	79.0	58.9	72.2	54.4	120
125	85.7	86.4	89.7	87.3	88.9	86.8	88.3	90.1	71.9	89.2	85.5	63.9	76.8	57.6	70.3	53.1	125
130	80.5	81.0	84.2	82.1	83.6	84.6	83.2	84.8	70.6	83.9	83.3	62.6	74.6	56.4	68.4	51.8	130
135	75.5	76.3	79.3	77.3	78.6	81.3	78.3	80.0	69.3	79.2	80.7	61.4	72.6	55.1	66.6	50.7	135
140	71.2	71.8	74.7	72.7	74.2	77.3	73.8	75.4	68.1	74.7	76.6	60.1	70.8	53.9	64.8	49.5	140
145	67.1	67.6	70.4	68.7	69.9	72.9	69.7	71.3	66.9	70.6	72.5	59.0	68.9	52.8	63.1	48.4	145
150	63.2	63.8	66.5	64.8	66.1	68.9	65.8	67.3	65.7	66.8	68.5	57.9	66.7	51.6	61.3	47.4	150
155	59.8	60.3	62.9	61.2	62.5	65.2	62.3	63.7	64.5	63.2	65.0	56.9	64.3	50.6	59.7	46.3	155
160	56.5	56.9	59.4	57.9	59.0	61.7	58.9	60.3	63.0	59.8	61.5	55.9	61.4	49.6	58.1	45.4	160
165	53.4	53.8	56.2	54.8	55.9	58.5	55.8	57.1	59.8	56.8	58.4	54.9	58.2	48.6	56.4	44.4	165
170	50.5	50.9	53.2	51.9	53.0	55.4	52.8	54.2	56.7	53.8	55.4	54.0	55.3	47.8	54.7	43.5	170
175	47.8	48.2	50.4	49.2	50.2	52.5	50.1	51.4	53.8	51.1	52.6	53.1	52.5	46.9	52.7	42.6	175
180	45.3	45.6	47.8	46.6	47.6	49.8	47.5	48.8	51.1	48.5	50.0	52.1	49.9	46.1	50.2	41.7	180
185	42.9	43.2	45.2	44.2	45.1	47.3	45.1	46.3	48.5	46.1	47.5	50.2	47.4	45.3	47.6	40.9	185
190	40.7	41.0	42.9	41.9	42.8	44.8	42.8	43.9	46.1	43.7	45.2	47.7	45.1	44.5	45.4	40.1	190
195	38.6	38.8	40.7	39.7	40.6	42.6	40.6	41.8	43.8	41.6	42.9	45.4	42.8	43.7	43.1	39.3	195
200	36.6	36.8	38.6	37.7	38.6	40.4	38.6	39.6	41.5	39.5	40.9	43.2	40.8	42.8	41.1	38.6	200
205	34.7	34.9	36.6	35.8	36.6	38.4	36.7	37.7	39.5	37.6	38.8	41.1	38.8	41.6	39.1	37.8	205
210	32.9	33.1	34.7	34.0	34.7	36.4	34.8	35.8	37.5	35.8	37.0	39.2	36.9	39.6	37.3	37.2	210
215		31.4	32.8	32.2	33.0	34.5	33.0	34.0	35.6	34.0	35.2	37.3	35.1	37.7	35.4	36.6	215
220				30.6	31.3	32.8	31.4	32.3	33.9	32.3	33.4	35.5	33.4	35.9	33.8	35.8	220
225				29.0	29.7	31.1	29.8	30.7	32.2	30.7	31.8	33.8	31.8	34.2	32.1	35.0	225
230				27.6	28.2	29.5	28.3	29.1	30.5	29.2	30.3	32.1	30.3	32.5	30.6	33.4	230
235					27.9	26.9	27.6	29.0		27.8	28.8	30.5	28.8	31.0	29.1	31.8	235
240						25.5	26.2	27.5	26.4	27.4	29.0	27.4	29.5	27.7	30.3	240	
245						24.2	24.9	26.0	25.1	26.0	27.6	26.0	28.0	26.4	28.9	245	
250							23.6	24.7	23.8	24.7	26.2	24.7	26.7	25.1	27.5	250	
255								23.3	22.6	23.4	24.9	23.5	25.3	23.9	26.2	255	
260									21.6	22.3	23.6	22.4	24.1	22.7	24.9	260	
265									20.6	21.3	22.4	21.3	22.9	21.7	23.7	265	
270									19.7	20.3	21.3	20.4	21.8	20.7	22.5	270	
275										19.4	20.3	19.5	20.8	19.9	21.5	275	
280												18.6	19.8	19.0	20.6	280	
285												17.8	19.0	18.2	19.7	285	
290												17.0	18.1	17.4	18.8	290	
295													17.3	16.6	18.0	295	
300													15.9	17.2	300		
305													15.2	16.4	305		
310														15.7	310		
315														14.9	315		



	SL3 236																
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	ft
45	263.0															45	
50	259.0	251.0		148.0												50	
55	235.0	237.0	150.0	213.0	178.0		112.0									55	
60	214.0	216.0	147.0	206.0	172.0		158.0									60	
65	196.0	198.0	144.0	195.0	167.0		158.0	139.0		144.0						65	
70	180.0	182.0	141.0	180.0	162.0	109.0	156.0	134.0		139.0	117.0					70	
75	167.0	168.0	138.0	167.0	157.0	106.0	153.0	130.0		134.0	115.0		106.0			75	
80	154.0	156.0	136.0	155.0	153.0	104.0	148.0	126.0	87.0	130.0	112.0		102.0			80	
85	144.0	145.0	133.0	144.0	146.0	102.0	143.0	123.0	85.1	125.0	109.0		98.7			85	
90	134.0	135.0	130.0	134.0	137.0	100.0	135.0	119.0	83.2	121.0	105.0	74.7	95.4			90	
95	125.0	126.0	127.0	126.0	128.0	98.3	126.0	116.0	81.5	117.0	103.0	73.0	92.6	66.4		95	
100	117.0	118.0	122.0	118.0	120.0	96.5	119.0	113.0	80.0	113.0	99.6	71.5	90.0	64.8	81.3	100	
105	109.0	110.0	114.0	111.0	113.0	94.7	112.0	110.0	78.4	110.0	96.9	70.1	87.3	63.4	78.7	58.8	105
110	101.0	102.0	106.0	103.0	105.0	93.1	105.0	106.0	77.0	104.0	94.2	68.6	84.8	62.0	76.3	57.3	110
115	94.8	95.6	99.4	96.5	98.3	91.5	98.3	99.8	75.5	98.3	91.7	67.2	82.5	60.7	74.5	56.0	115
120	88.4	89.3	92.9	90.2	91.9	90.1	92.0	93.5	74.0	92.3	89.3	65.8	80.1	59.3	72.8	54.7	120
125	82.8	83.6	87.2	84.7	86.1	88.0	86.3	87.7	72.7	86.6	86.9	64.6	77.9	57.9	71.2	53.5	125
130	77.6	78.2	81.8	79.2	81.0	84.4	81.0	82.4	71.5	81.4	83.6	63.3	76.0	56.7	69.5	52.3	130
135	72.7	73.5	76.8	74.5	75.9	79.5	76.3	77.4	70.4	76.6	78.7	62.1	74.1	55.7	67.7	51.1	135
140	68.4	68.9	72.3	69.9	71.6	75.0	71.8	73.0	69.2	72.1	74.2	60.9	72.2	54.6	66.0	50.0	140
145	64.2	64.9	67.9	66.0	67.3	70.6	67.7	68.8	68.0	68.1	70.0	59.8	69.4	53.6	64.3	48.9	145
150	60.5	61.1	64.1	62.0	63.5	66.7	63.8	64.9	66.4	64.2	66.3	58.7	65.9	52.5	62.6	47.9	150
155	56.9	57.4	60.4	58.5	59.9	62.9	60.3	61.2	63.8	60.7	62.5	57.7	62.4	51.5	60.9	46.9	155
160	53.6	54.2	57.0	55.2	56.5	59.4	56.9	57.9	60.9	57.3	59.2	56.8	59.1	50.6	58.8	46.0	160
165	50.6	51.1	53.8	52.1	53.4	56.2	53.8	54.6	57.6	54.3	56.0	55.9	55.8	49.6	55.9	45.0	165
170	47.7	48.2	50.8	49.2	50.4	53.1	50.8	51.8	54.5	51.2	53.1	55.0	53.0	48.7	53.1	44.1	170
175	45.0	45.5	48.0	46.4	47.7	50.3	48.1	48.9	51.6	48.6	50.2	53.0	50.1	47.8	50.4	43.3	175
180	42.5	42.9	45.3	43.9	45.0	47.6	45.5	46.3	48.9	45.9	47.6	50.6	47.6	47.0	47.8	42.4	180
185	40.1	40.5	42.8	41.5	42.6	45.0	43.1	43.8	46.3	43.6	45.1	48.2	45.0	46.2	45.3	41.6	185
190	37.9	38.2	40.5	39.2	40.3	42.6	40.8	41.5	43.9	41.2	42.8	45.7	42.8	45.3	43.0	40.8	190
195	35.8	36.1	38.3	37.1	38.0	40.3	38.6	39.3	41.6	39.1	40.6	43.4	40.5	43.8	40.8	40.1	195
200	33.8	34.0	36.1	35.0	36.0	38.2	36.6	37.2	39.4	37.0	38.5	41.1	38.5	41.6	38.8	39.4	200
205	31.8	32.1	34.1	33.1	34.1	36.1	34.6	35.2	37.3	35.1	36.5	39.1	36.4	39.5	36.7	38.6	205
210	30.1	30.3	32.2	31.3	32.2	34.1	32.8	33.3	35.3	33.2	34.6	37.1	34.6	37.6	34.9	37.7	210
215	28.4	28.6	30.4	29.5	30.4	32.3	31.0	31.6	33.5	31.5	32.8	35.2	32.8	35.7	33.1	36.5	215
220	26.8	27.0	28.7	27.9	28.7	30.5	29.3	29.9	31.7	29.8	31.1	33.4	31.1	33.9	31.4	34.7	220
225	25.2	25.4	27.1	26.4	27.1	28.8	27.7	28.2	30.0	28.2	29.5	31.7	29.5	32.1	29.8	33.0	225
230	23.8	24.0	25.5	24.9	25.6	27.2	26.2	26.7	28.4	26.7	27.9	30.0	27.9	30.5	28.3	31.4	230
235	22.4	22.6	24.0	23.4	24.2	25.7	24.8	25.2	26.8	25.3	26.4	28.4	26.4	28.9	26.8	29.8	235
240				22.2	22.8	24.2	23.4	23.8	25.3	23.9	25.0	27.0	25.0	27.4	25.4	28.3	240
245				21.0	21.6	22.8	22.1	22.5	23.9	22.6	23.7	25.5	23.6	26.0	24.0	26.8	245
250				20.0	20.5	21.6	21.0	21.3	22.5	21.5	22.4	24.1	22.5	24.6	22.8	25.5	250
255					19.5	20.5	20.0	20.2	21.3	20.4	21.3	22.8	21.3	23.3	21.7	24.1	255
260							19.0	19.3	20.3	19.4	20.3	21.6	20.3	22.1	20.6	22.9	260
265							18.1	18.3	19.2	18.5	19.3	20.6	19.3	21.0	19.7	21.7	265
270							17.2	17.4	18.2	17.6	18.3	19.6	18.4	20.0	18.7	20.7	270
275									17.3	16.7	17.5	18.6	17.5	19.0	17.8	19.8	275
280										15.9	16.6	17.7	16.6	18.1	17.0	18.9	280
285										15.1	15.7	16.8	15.8	17.2	16.2	18.0	285
290											14.9	15.9	15.0	16.3	15.4	17.1	290
295												15.0	14.3	15.5	14.6	16.3	295
300													13.5	14.7	13.9	15.5	300
305													12.8	13.9	13.2	14.7	305
310														13.2	12.4	13.9	310
315															11.6	13.2	315
320															10.8	12.5	320
325															11.6	325	
330															10.8	330	



22,050 lb/
88,200 lb



110,250 lb – 374,800 lb

A ft	SL3 246														A ft	
	F 39			F 59			F 79			F 98			F 118		F 138	
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°
45	258.0														45	
50	253.0	251.0		122.0											50	
55	230.0	233.0	151.0	211.0											55	
60	210.0	212.0	148.0	206.0	172.0		158.0			143.0					60	
65	192.0	194.0	144.0	192.0	167.0		158.0			139.0					65	
70	177.0	179.0	142.0	177.0	162.0	109.0	156.0	134.0							70	
75	163.0	165.0	139.0	163.0	157.0	106.0	153.0	130.0		134.0	115.0		106.0		75	
80	151.0	153.0	136.0	152.0	152.0	104.0	149.0	127.0	86.9	130.0	112.0		102.0		80	
85	141.0	142.0	134.0	141.0	144.0	102.0	141.0	123.0	85.0	125.0	109.0		98.8		85	
90	131.0	132.0	131.0	132.0	134.0	100.0	132.0	120.0	83.3	121.0	106.0	74.9	95.9		90	
95	122.0	124.0	128.0	123.0	126.0	98.6	124.0	116.0	81.7	118.0	103.0	73.1	93.0		95	
100	114.0	116.0	121.0	115.0	118.0	96.8	116.0	113.0	80.1	114.0	100.0	71.6	90.4	64.9	100	
105	107.0	108.0	113.0	108.0	111.0	95.2	109.0	110.0	78.7	108.0	97.4	70.2	87.7	63.5	105	
110	99.8	101.0	105.0	102.0	104.0	93.7	103.0	105.0	77.2	102.0	94.9	68.8	85.2	62.1	110	
115	93.0	93.8	98.0	94.9	96.8	92.2	96.7	98.5	75.8	96.3	92.4	67.4	82.9	60.7	115	
120	86.8	87.8	91.5	88.6	90.5	90.7	90.6	92.1	74.4	90.9	89.8	66.1	80.6	59.5	120	
125	81.2	81.8	85.7	82.9	84.7	88.6	84.8	86.3	73.1	85.2	86.8	64.8	78.5	58.2	125	
130	75.9	76.8	80.4	77.9	79.5	83.3	79.6	81.0	71.9	80.0	82.4	63.7	76.6	56.9	130	
135	71.2	71.8	75.4	72.9	74.7	78.3	74.8	76.0	70.7	75.2	77.5	62.5	74.7	55.8	135	
140	66.6	67.4	70.8	68.6	70.1	73.7	70.5	71.5	69.5	70.7	72.9	61.4	72.3	54.7	140	
145	62.7	63.3	66.6	64.3	65.9	69.4	66.2	67.5	68.4	66.7	68.7	60.3	68.5	53.7	145	
150	58.8	59.5	62.6	60.6	62.0	65.4	62.4	63.4	66.4	62.9	64.9	59.3	64.6	52.7	150	
155	55.3	55.9	59.0	57.0	58.4	61.6	58.7	59.9	63.2	59.3	61.3	58.2	61.0	51.8	155	
160	52.0	52.5	55.6	53.7	55.1	58.2	55.5	56.4	59.7	56.0	57.8	57.2	57.8	50.9	160	
165	48.9	49.5	52.3	50.6	51.9	54.9	52.3	53.4	56.4	52.8	54.7	56.1	54.6	50.0	165	
170	46.1	46.6	49.4	47.7	49.0	51.9	49.5	50.3	53.3	49.9	51.7	54.2	51.6	49.1	170	
175	43.4	43.8	46.5	45.0	46.1	48.9	46.6	47.6	50.4	47.1	49.0	52.3	48.9	48.2	175	
180	40.9	41.3	43.9	42.3	43.6	46.3	44.1	44.9	47.6	44.6	46.3	49.6	46.2	47.4	180	
185	38.5	38.9	41.4	40.0	41.1	43.7	41.6	42.5	45.1	42.1	43.8	46.9	43.8	46.6	185	
190	36.2	36.6	39.0	37.7	38.8	41.3	39.4	40.1	42.6	39.9	41.5	44.5	41.3	44.7	190	
195	34.1	34.5	36.8	35.5	36.6	39.0	37.2	37.9	40.3	37.6	39.3	42.2	39.2	42.6	195	
200	32.1	32.4	34.7	33.5	34.5	36.8	35.1	35.8	38.1	35.7	37.1	40.0	37.1	40.5	200	
205	30.2	30.5	32.7	31.5	32.6	34.8	33.2	33.8	36.1	33.7	35.2	37.9	35.2	38.4	205	
210	28.4	28.7	30.8	29.7	30.7	32.8	31.3	31.9	34.1	31.9	33.2	35.9	33.2	36.4	210	
215	26.7	27.0	29.0	28.0	28.9	30.9	29.6	30.1	32.2	30.1	31.5	34.0	31.5	34.5	215	
220	25.1	25.4	27.3	26.3	27.3	29.2	27.8	28.4	30.4	28.4	29.7	32.2	29.8	32.7	220	
225	23.6	23.8	25.6	24.8	25.6	27.5	26.3	26.8	28.7	26.8	28.1	30.5	28.1	31.0	225	
230	22.2	22.4	24.1	23.3	24.1	25.9	24.8	25.3	27.1	25.3	26.5	28.8	26.6	29.3	230	
235	21.0	21.1	22.6	22.0	22.7	24.3	23.3	23.8	25.5	23.9	25.1	27.3	25.1	27.8	235	
240	19.9	20.0	21.3	20.8	21.4	22.9	22.0	22.4	24.0	22.5	23.7	25.7	23.7	26.3	240	
245			20.2	19.7	20.3	21.6	20.8	21.2	22.6	21.3	22.4	24.3	22.4	24.8	245	
250				18.6	19.2	20.4	19.8	20.1	21.4	20.2	21.2	22.9	21.2	23.5	250	
255				17.6	18.2	19.3	18.8	19.1	20.2	19.2	20.1	21.7	20.2	22.1	255	
260				16.7	17.2	18.3	17.8	18.1	19.2	18.2	19.1	20.6	19.1	21.1	260	
265						17.3	16.8	17.1	18.2	17.3	18.1	19.5	18.2	20.0	265	
270							15.9	16.2	17.2	16.4	17.2	18.5	17.2	19.0	270	
275							15.0	15.3	16.2	15.5	16.3	17.6	16.4	18.0	275	
280								14.4	15.3	14.7	15.4	16.6	15.5	17.1	280	
285									14.4	13.9	14.6	15.7	14.7	16.2	285	
290										13.1	13.8	14.9	13.9	15.3	290	
295										12.3	13.0	14.0	13.1	14.5	295	
300											13.2	12.4	13.7	12.7	14.4	300
305												11.6	12.9	11.9	13.7	305
310												10.8	12.1	11.1	12.9	310
315												9.9	11.3	10.2	12.1	315
320												10.4	9.4	11.3	320	
325													8.7	10.4	325	
330													8.0	9.6	330	
335														8.7	335	
340														7.9	340	



A ft	SL3 256												A ft				
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
45	248.0														45		
50	245.0	244.0													50		
55	227.0	229.0		205.0				158.0							55		
60	206.0	208.0	148.0	201.0	172.0		158.0								60		
65	189.0	191.0	145.0	188.0	167.0		158.0			140.0					65		
70	174.0	176.0	142.0	174.0	162.0	109.0	157.0	134.0		137.0					70		
75	160.0	162.0	139.0	161.0	158.0	106.0	153.0	130.0		134.0	115.0				75		
80	149.0	150.0	137.0	149.0	152.0	104.0	148.0	126.0	86.8	129.0	112.0		102.0		80		
85	138.0	140.0	134.0	139.0	141.0	102.0	139.0	123.0	85.0	125.0	109.0		98.6		85		
90	129.0	130.0	131.0	129.0	132.0	101.0	130.0	120.0	83.3	121.0	106.0	74.8	95.7		90		
95	120.0	121.0	127.0	121.0	123.0	98.8	122.0	117.0	81.7	118.0	103.0	73.1	92.8		95		
100	112.0	113.0	119.0	113.0	116.0	97.1	114.0	114.0	80.2	113.0	100.0	71.5	90.3	65.0	100		
105	105.0	106.0	111.0	106.0	109.0	95.5	107.0	109.0	78.8	106.0	97.4	70.1	87.9	63.5	105		
110	98.3	99.3	104.0	99.8	102.0	94.0	101.0	103.0	77.4	100.0	95.0	68.8	85.5	62.2	110		
115	91.5	92.5	96.8	93.5	95.6	92.5	95.1	96.9	76.0	94.5	92.7	67.5	83.3	60.8	115		
120	85.5	86.2	90.4	87.4	89.3	90.9	89.3	90.9	74.7	89.2	90.1	66.2	81.2	59.6	120		
125	79.7	80.7	84.5	81.7	83.5	87.4	83.6	85.1	73.3	84.0	86.5	65.0	79.1	58.4	125		
130	74.6	75.3	79.3	76.5	78.2	82.3	78.4	79.8	72.1	78.8	81.2	63.9	77.1	57.2	130		
135	69.7	70.6	74.2	71.7	73.4	77.2	73.6	74.9	71.0	73.9	76.3	62.8	75.3	56.1	135		
140	65.5	66.1	69.8	67.2	68.9	72.6	69.2	70.4	69.8	69.5	71.8	61.7	71.4	55.0	140		
145	61.3	62.0	65.4	63.2	64.7	68.4	65.1	66.3	68.5	65.4	67.6	60.6	67.4	53.9	145		
150	57.6	58.2	61.6	59.3	60.8	64.3	61.2	62.4	65.8	61.7	63.7	59.6	63.5	52.9	150		
155	54.0	54.6	57.9	55.8	57.3	60.7	57.7	58.7	62.1	58.1	60.2	58.6	59.9	52.0	155		
160	50.8	51.4	54.5	52.5	53.9	57.1	54.3	55.4	58.7	54.8	56.8	57.6	56.6	51.1	160		
165	47.7	48.2	51.3	49.4	50.8	53.9	51.2	52.2	55.3	51.7	53.6	56.4	53.5	50.2	165		
170	44.8	45.4	48.3	46.5	47.8	50.8	48.2	49.3	52.3	48.7	50.7	54.3	50.5	49.3	170		
175	42.2	42.6	45.5	43.7	45.1	48.0	45.6	46.4	49.4	46.0	47.8	51.4	47.8	48.4	175		
180	39.6	40.1	42.8	41.2	42.4	45.2	42.9	43.8	46.7	43.4	45.3	48.6	45.1	47.2	180		
185	37.3	37.7	40.3	38.7	40.0	42.7	40.5	41.3	44.0	41.0	42.7	46.1	42.7	45.7	185		
190	35.0	35.4	38.0	36.5	37.6	40.3	38.2	39.0	41.7	38.7	40.4	43.6	40.4	44.0	190		
195	32.9	33.3	35.7	34.3	35.5	38.0	36.1	36.8	39.3	36.6	38.1	41.3	38.1	41.8	195		
200	30.9	31.3	33.7	32.3	33.4	35.8	34.0	34.7	37.2	34.5	36.1	39.0	36.1	39.5	200		
205	29.0	29.3	31.7	30.4	31.4	33.7	32.0	32.7	35.1	32.6	34.1	37.0	34.0	37.5	205		
210	27.2	27.5	29.7	28.6	29.6	31.8	30.2	30.9	33.1	30.7	32.2	34.9	32.2	35.5	210		
215	25.5	25.8	28.0	26.8	27.8	30.0	28.4	29.1	31.2	29.0	30.4	33.1	30.4	33.6	215		
220	23.9	24.2	26.2	25.2	26.1	28.2	26.8	27.4	29.4	27.3	28.7	31.3	28.7	31.8	220		
225	22.4	22.7	24.6	23.6	24.5	26.5	25.2	25.7	27.7	25.7	27.1	29.6	27.1	30.1	225		
230	21.1	21.3	23.0	22.2	23.0	24.9	23.7	24.2	26.1	24.2	25.5	27.9	25.5	28.4	230		
235	20.0	20.1	21.7	20.9	21.7	23.4	22.2	22.8	24.5	22.8	24.0	26.3	24.1	26.9	235		
240	18.8	19.0	20.5	19.8	20.5	22.0	21.0	21.4	23.1	21.5	22.7	24.8	22.7	25.3	240		
245	17.8	17.9	19.3	18.7	19.3	20.8	19.9	20.3	21.8	20.4	21.4	23.4	21.5	23.9	245		
250	16.8	16.9	18.2	17.6	18.3	19.6	18.8	19.2	20.6	19.3	20.3	22.1	20.3	22.5	250		
255				16.7	17.3	18.5	17.8	18.2	19.4	18.3	19.2	20.9	19.3	21.3	255		
260				15.7	16.3	17.5	16.8	17.2	18.4	17.3	18.2	19.8	18.3	20.3	260		
265				14.8	15.3	16.5	15.9	16.2	17.4	16.3	17.3	18.8	17.3	19.2	265		
270				14.4	15.5		15.0	15.3	16.4	15.4	16.3	17.8	16.4	18.2	270		
275							14.1	14.4	15.4	14.6	15.4	16.8	15.5	17.3	275		
280							13.2	13.5	14.5	13.8	14.5	15.9	14.6	16.3	280		
285							12.3	12.6	13.6	12.9	13.7	15.0	13.8	15.4	285		
290									12.6	12.1	12.9	14.1	13.0	14.6	290		
295										11.2	12.1	13.3	12.2	13.7	12.6	14.5	295
300										10.3	11.2	12.4	11.5	12.9	11.8	13.7	300
305											10.3	11.5	10.7	12.1	11.0	12.9	305
310											10.6	9.8	11.4	10.2	12.1	310	
315												8.9	10.5	9.3	11.3	315	
320												8.1	9.6	8.5	10.5	320	
325													8.7	7.7	9.7	325	
330													7.9	6.9	8.8	330	
335													6.2	8.0	7.2	335	
340														6.4	340		
345															6.4	345	



	SL3 266																	
	F 39			F 59			F 79			F 98			F 118		F 138			
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	ft	
45	156.0															45		
50	239.0	240.0														50		
55	222.0	225.0		201.0			158.0									55		
60	202.0	205.0	148.0	199.0	172.0											60		
65	185.0	187.0	145.0	185.0	167.0		158.0			138.0						65		
70	170.0	172.0	143.0	171.0	162.0	108.0	157.0	134.0		136.0						70		
75	157.0	159.0	140.0	158.0	158.0	106.0	153.0	130.0		134.0	115.0					75		
80	145.0	147.0	137.0	146.0	149.0	104.0	147.0	127.0	86.9	130.0	112.0		102.0		88.4	80		
85	135.0	137.0	135.0	136.0	139.0	103.0	137.0	123.0	85.2	125.0	109.0		98.4		86.9	85		
90	126.0	127.0	132.0	127.0	130.0	101.0	127.0	120.0	83.5	122.0	106.0		95.7		85.1	90		
95	117.0	119.0	125.0	118.0	121.0	99.3	119.0	117.0	82.0	118.0	103.0	73.1	93.1		83.2	95		
100	110.0	111.0	117.0	111.0	113.0	97.7	112.0	113.0	80.5	111.0	101.0	71.6	90.6	64.8	81.3	100		
105	103.0	104.0	109.0	104.0	106.0	96.1	105.0	107.0	79.1	104.0	98.1	70.3	88.1	63.5	79.1	58.7	105	
110	96.1	97.3	102.0	97.4	99.8	94.6	98.8	101.0	77.7	98.0	95.7	68.9	85.6	62.1	76.9	57.4	110	
115	89.8	90.9	95.3	91.5	93.8	93.0	93.0	94.8	76.3	92.4	93.2	67.7	83.3	60.8	74.7	56.2	115	
120	83.6	84.7	88.9	85.7	87.7	90.6	87.5	89.3	75.0	87.1	90.0	66.4	81.3	59.6	73.1	55.0	120	
125	78.2	79.0	83.0	80.1	82.0	86.4	82.1	83.7	73.7	82.2	85.1	65.2	79.3	58.5	71.6	53.9	125	
130	72.8	73.9	77.7	74.9	76.7	80.9	76.9	78.4	72.5	77.3	79.9	64.1	77.2	57.3	70.1	52.8	130	
135	68.2	69.0	72.9	70.2	71.8	75.9	72.1	73.5	71.4	72.5	75.0	63.1	74.1	56.2	68.7	51.7	135	
140	63.7	64.6	68.2	65.7	67.5	71.3	67.6	69.0	70.2	68.1	70.5	62.0	70.3	55.2	67.1	50.6	140	
145	59.7	60.4	64.1	61.6	63.2	67.0	63.7	64.8	68.2	64.0	66.3	61.0	66.1	54.1	65.1	49.6	145	
150	55.9	56.6	60.1	57.8	59.4	63.1	59.8	61.0	64.7	60.2	62.4	60.0	62.2	53.2	62.4	48.6	150	
155	52.4	53.1	56.5	54.2	55.7	59.2	56.2	57.4	60.9	56.7	58.8	58.9	58.6	52.2	58.7	47.6	155	
160	49.1	49.7	53.0	50.9	52.5	55.9	52.9	54.0	57.4	53.3	55.5	58.0	55.3	51.3	55.4	46.7	160	
165	46.1	46.7	49.8	47.8	49.2	52.5	49.7	50.8	54.2	50.3	52.3	56.1	52.2	50.4	52.3	45.8	165	
170	43.2	43.7	46.9	44.9	46.3	49.5	46.8	47.8	51.0	47.3	49.3	53.1	49.3	49.6	49.4	45.0	170	
175	40.5	41.1	44.0	42.2	43.5	46.6	44.1	45.1	48.2	44.6	46.5	50.3	46.3	48.7	46.7	44.2	175	
180	38.0	38.5	41.4	39.6	41.0	43.9	41.5	42.4	45.4	42.0	43.9	47.5	43.8	47.5	44.0	43.4	180	
185	35.6	36.1	38.9	37.2	38.4	41.3	39.0	40.0	42.9	39.6	41.4	44.9	41.3	45.4	41.6	42.6	185	
190	33.4	33.8	36.5	34.9	36.2	38.9	36.8	37.6	40.3	37.3	39.0	42.4	39.0	43.0	39.3	41.8	190	
195	31.2	31.7	34.3	32.8	34.0	36.7	34.6	35.4	38.1	35.1	36.9	40.1	36.8	40.6	37.1	40.4	195	
200	29.3	29.7	32.2	30.7	31.9	34.5	32.6	33.3	35.8	33.1	34.7	37.9	34.7	38.4	35.0	38.9	200	
205	27.4	27.7	30.2	28.8	30.0	32.5	30.6	31.3	33.8	31.1	32.8	35.8	32.8	36.3	33.0	37.2	205	
210	25.5	25.9	28.3	27.0	28.1	30.5	28.7	29.4	31.8	29.3	30.8	33.8	30.8	34.3	31.2	35.2	210	
215	23.9	24.2	26.5	25.3	26.3	28.6	27.0	27.7	29.9	27.5	29.1	31.9	29.1	32.4	29.4	33.2	215	
220	22.3	22.6	24.8	23.6	24.6	26.9	25.3	25.9	28.1	25.9	27.3	30.1	27.4	30.6	27.7	31.5	220	
225	20.9	21.2	23.2	22.1	23.1	25.2	23.7	24.3	26.5	24.2	25.7	28.3	25.8	28.9	26.1	29.7	225	
230	19.7	20.0	21.7	20.8	21.6	23.6	22.3	22.8	24.8	22.8	24.1	26.7	24.2	27.2	24.5	28.1	230	
235	18.6	18.7	20.4	19.6	20.4	22.1	21.0	21.5	23.2	21.5	22.8	25.1	22.8	25.7	23.1	26.5	235	
240	17.4	17.6	19.2	18.5	19.2	20.8	19.8	20.2	21.9	20.3	21.4	23.6	21.5	24.2	21.8	25.0	240	
245	16.4	16.5	18.0	17.4	18.1	19.6	18.7	19.1	20.6	19.1	20.2	22.2	20.3	22.7	20.6	23.6	245	
250	15.3	15.5	17.0	16.3	17.0	18.5	17.6	18.0	19.5	18.1	19.1	21.0	19.2	21.5	19.5	22.2	250	
255	14.2	14.3	15.9	15.3	16.0	17.4	16.6	16.9	18.3	17.0	18.1	19.9	18.1	20.3	18.5	21.1	255	
260	13.2	14.8		14.3	15.0	16.3	15.6	15.9	17.3	16.1	17.1	18.8	17.1	19.3	17.5	20.0	260	
265				13.3	14.0	15.3	14.6	15.0	16.2	15.1	16.1	17.7	16.1	18.2	16.5	19.0	265	
270				12.2	12.9	14.3	13.7	14.0	15.3	14.2	15.1	16.7	15.2	17.2	15.6	17.9	270	
275				11.2	11.9	13.2	12.8	13.2	14.3	13.3	14.2	15.7	14.3	16.2	14.7	17.0	275	
280						12.1	11.8	12.2	13.4	12.5	13.4	14.8	13.5	15.3	13.8	16.0	280	
285							10.8	11.1	12.4	11.6	12.5	13.9	12.6	14.4	13.0	15.2	285	
290							9.8	10.1	11.4	10.7	11.7	13.0	11.8	13.5	12.2	14.3	290	
295								8.9	9.2	10.3	9.8	10.8	12.2	11.0	12.7	11.4	13.5	295
300										9.3	8.9	9.8	11.3	10.1	11.9	10.5	12.6	300
305											8.0	8.9	10.4	9.3	11.1	9.7	11.9	305
310											7.2	8.0	9.4	8.4	10.2	8.8	11.1	310
315													8.4	7.6	9.3	7.9	10.2	315
320													7.5	6.7	8.4	7.1	9.3	320
325														5.9	7.5	6.4	8.4	325
330														6.7	5.6	7.6	6.8	330
335														5.9		6.8	335	
340														6.0			6.0	340



A ft	SL3 276														A ft		
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
50	229.0	139.0														50	
55	220.0	222.0		191.0												55	
60	200.0	203.0	148.0	190.0	171.0											60	
65	183.0	186.0	145.0	184.0	166.0		157.0			133.0						65	
70	169.0	171.0	143.0	169.0	162.0		156.0	133.0		132.0						70	
75	156.0	158.0	140.0	157.0	158.0	106.0	153.0	129.0		131.0	115.0					75	
80	144.0	146.0	138.0	145.0	147.0	105.0	145.0	126.0		128.0	112.0		101.0		86.7	80	
85	134.0	136.0	135.0	135.0	137.0	103.0	135.0	123.0	84.9	124.0	109.0		97.9		85.4	85	
90	125.0	126.0	131.0	126.0	128.0	101.0	126.0	120.0	83.3	121.0	106.0		95.3		84.0	90	
95	117.0	118.0	123.0	118.0	119.0	99.4	118.0	117.0	81.8	116.0	103.0	73.1	92.7		82.3	95	
100	109.0	110.0	115.0	110.0	112.0	97.8	110.0	113.0	80.3	109.0	101.0	71.6	90.3	64.8	80.6	100	
105	102.0	103.0	108.0	103.0	105.0	96.3	104.0	106.0	78.9	103.0	98.2	70.3	88.1	63.5	78.7	58.6	
110	95.7	96.9	101.0	97.0	98.6	94.9	97.5	99.4	77.7	96.7	95.8	69.0	85.8	62.2	76.7	57.2	
115	89.7	90.7	94.8	91.2	92.7	93.5	91.7	93.6	76.5	91.1	93.3	67.8	83.6	61.0	74.7	56.0	
120	83.7	84.6	88.4	85.7	87.0	90.7	86.5	88.3	75.2	86.0	89.0	66.6	81.6	59.7	72.9	54.9	
125	78.1	78.9	82.6	80.1	81.4	85.9	81.4	83.0	74.0	81.2	84.1	65.4	79.7	58.6	71.3	53.7	
130	73.0	73.9	77.2	74.9	76.1	80.5	76.3	77.8	72.8	76.5	79.3	64.2	77.3	57.4	69.9	52.7	
135	68.2	69.0	72.3	70.1	71.2	75.4	71.5	72.9	71.7	71.8	74.3	63.2	74.1	56.3	68.5	51.7	
140	63.9	64.6	67.8	65.9	66.8	70.8	67.0	68.4	70.7	67.4	69.9	62.2	69.6	55.3	66.9	50.6	
145	59.7	60.5	63.6	61.6	62.8	66.5	62.9	64.2	68.0	63.3	65.7	61.2	65.5	54.3	65.1	49.7	
150	56.0	56.7	59.7	57.9	58.8	62.6	59.2	60.3	64.2	59.5	61.8	60.3	61.6	53.3	61.6	48.7	
155	52.5	53.1	56.0	54.3	55.3	58.9	55.5	56.9	60.4	56.1	58.2	59.4	58.0	52.4	58.1	47.8	
160	49.2	49.9	52.6	51.0	51.8	55.3	52.3	53.4	56.9	52.8	54.8	58.0	54.6	51.6	54.8	46.9	
165	46.1	46.7	49.4	47.9	48.8	52.2	49.2	50.3	53.7	49.6	51.8	55.7	51.5	50.8	51.6	46.0	
170	43.3	43.9	46.4	45.0	45.7	49.0	46.3	47.3	50.6	46.8	48.7	52.6	48.7	50.0	48.7	45.2	
175	40.6	41.1	43.7	42.3	43.1	46.2	43.5	44.5	47.7	44.0	46.0	49.7	45.9	49.0	46.1	44.4	
180	38.1	38.6	41.0	39.7	40.4	43.5	41.0	41.9	45.0	41.5	43.4	47.1	43.2	47.5	43.5	43.6	
185	35.7	36.1	38.5	37.3	38.0	41.0	38.5	39.4	42.4	39.0	40.9	44.4	40.8	44.9	40.9	42.8	
190	33.4	33.9	36.1	35.1	35.6	38.6	36.2	37.1	40.0	36.7	38.6	42.0	38.4	42.5	38.7	42.0	
195	31.3	31.8	34.0	32.9	33.5	36.3	34.1	34.9	37.6	34.6	36.3	39.6	36.3	40.2	36.5	41.0	
200	29.3	29.7	31.8	30.9	31.4	34.1	32.0	32.8	35.5	32.5	34.3	37.4	34.2	38.0	34.4	38.8	
205	27.4	27.8	29.8	28.9	29.5	32.1	30.1	30.8	33.4	30.6	32.2	35.4	32.2	35.9	32.5	36.7	
210	25.6	26.0	28.0	27.1	27.6	30.1	28.2	29.0	31.4	28.7	30.4	33.4	30.4	33.8	30.5	34.7	
215	23.9	24.3	26.1	25.3	25.9	28.3	26.5	27.2	29.5	27.0	28.6	31.5	28.5	32.0	28.8	32.8	
220	22.4	22.7	24.5	23.7	24.2	26.5	24.8	25.5	27.8	25.3	26.9	29.7	26.9	30.1	27.1	31.0	
225	21.0	21.3	22.9	22.2	22.6	24.8	23.3	23.9	26.1	23.8	25.2	27.9	25.2	28.5	25.5	29.3	
230	19.8	20.0	21.4	20.9	21.3	23.2	21.8	22.4	24.4	22.3	23.7	26.3	23.7	26.8	24.0	27.6	
235	18.6	18.8	20.2	19.7	20.0	21.8	20.6	21.1	22.9	21.0	22.3	24.7	22.3	25.2	22.5	26.1	
240	17.4	17.6	19.0	18.5	18.9	20.5	19.4	19.9	21.6	19.8	21.0	23.2	21.0	23.7	21.3	24.6	
245	16.4	16.6	17.8	17.4	17.7	19.4	18.3	18.7	20.3	18.7	19.9	21.9	19.9	22.4	20.1	23.2	
250	15.3	15.5	16.7	16.3	16.7	18.2	17.2	17.6	19.1	17.6	18.8	20.7	18.8	21.1	19.1	21.9	
255	14.2	14.4	15.7	15.3	15.6	17.1	16.2	16.6	18.0	16.6	17.7	19.5	17.7	20.0	18.0	20.7	
260	13.1	13.3	14.6	14.4	14.6	16.1	15.2	15.6	17.0	15.6	16.7	18.5	16.7	18.9	17.0	19.6	
265	12.0	12.2	13.5	13.4	13.7	15.1	14.2	14.6	16.0	14.7	15.7	17.4	15.8	17.9	16.0	18.6	
270			12.3	12.3	12.7	14.1	13.3	13.7	15.0	13.8	14.8	16.4	14.8	16.9	15.1	17.6	
275			11.3	11.3	11.6	13.1	12.4	12.8	14.0	12.9	13.9	15.5	13.9	15.9	14.2	16.6	
280			10.2	10.2	10.5	12.0	11.4	11.8	13.1	12.1	13.0	14.5	13.1	15.0	13.4	15.7	
285			9.3	9.3	9.5	10.9	10.5	10.8	12.2	11.2	12.2	13.6	12.2	14.1	12.6	14.8	
290							9.5	9.8	11.2	10.3	11.3	12.8	11.4	13.2	11.8	13.9	
295							8.5	8.9	10.2	9.4	10.4	11.9	10.7	12.4	10.9	13.1	
300							7.7	7.9	9.2	8.5	9.5	11.1	9.9	11.6	10.1	12.3	
305								7.1	8.2	7.6	8.6	10.2	8.9	10.8	9.3	11.5	
310										6.8	7.7	9.2	8.0	10.0	8.4	10.7	
315										6.0	6.8	8.2	7.2	9.1	7.6	9.9	
320											6.0	7.3	6.4	8.2	6.7	9.1	
325											6.5	5.6	7.3	6.0	8.2	325	
330													6.5		7.4	330	
335													5.7		6.5	335	
340														5.8		340	

22,050 lb /
88,200 lb

110,250 lb – 374,800 lb

A ft	SL3 285														A ft		
	F 39			F 59			F 79			F 98			F 118		F 138		
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°	
50	223.0															50	
55	215.0	216.0														55	
60	197.0	199.0	148.0	185.0												60	
65	180.0	182.0	145.0	180.0	164.0		155.0			131.0						65	
70	166.0	168.0	143.0	166.0	161.0		153.0			130.0						70	
75	153.0	155.0	140.0	153.0	155.0	106.0	150.0	129.0		129.0						75	
80	142.0	143.0	138.0	142.0	145.0	105.0	142.0	126.0		127.0	111.0		100.0		85.9	80	
85	131.0	133.0	135.0	132.0	135.0	103.0	132.0	123.0	84.9	124.0	108.0		97.5		84.7	85	
90	122.0	124.0	129.0	123.0	125.0	101.0	124.0	120.0	83.4	121.0	106.0		95.0		83.3	90	
95	114.0	115.0	121.0	115.0	117.0	99.5	115.0	116.0	82.0	114.0	103.0	73.0	92.5		81.2	95	
100	106.0	108.0	113.0	108.0	110.0	98.0	108.0	110.0	80.7	107.0	101.0	71.6	90.1		79.1	100	
105	99.5	101.0	106.0	101.0	103.0	96.5	101.0	104.0	79.4	101.0	98.2	70.3	87.9	63.3	77.2	105	
110	93.3	94.5	99.3	94.7	96.4	95.1	95.3	97.4	78.0	94.6	95.8	69.0	85.7	62.0	75.7	57.1	110
115	87.5	88.6	93.2	89.0	90.5	93.4	89.7	91.6	76.7	89.1	92.0	67.8	83.6	60.9	74.2	55.9	115
120	81.9	83.1	87.0	83.7	85.1	90.6	84.4	86.3	75.4	83.9	87.1	66.7	81.6	59.8	72.8	54.8	120
125	76.4	77.3	81.1	78.5	79.8	84.6	79.5	81.3	74.3	79.1	82.2	65.6	79.4	58.7	71.4	53.7	125
130	71.4	72.1	75.8	73.4	74.6	79.2	74.8	76.4	73.1	74.7	77.7	64.5	76.5	57.6	70.0	52.7	130
135	66.6	67.5	70.9	68.6	69.8	74.1	70.0	71.5	71.8	70.3	73.1	63.4	72.4	56.5	68.6	51.6	135
140	62.2	62.9	66.4	64.2	65.3	69.5	65.6	67.0	70.0	66.0	68.6	62.3	68.2	55.5	67.2	50.6	140
145	58.2	59.0	62.2	60.2	61.2	65.2	61.5	62.9	67.1	61.9	64.4	61.3	64.2	54.6	63.9	49.6	145
150	54.4	55.0	58.3	56.3	57.4	61.2	57.7	59.0	63.0	58.1	60.5	60.4	60.3	53.6	60.3	48.7	150
155	50.9	51.6	54.6	52.9	53.8	57.6	54.2	55.4	59.2	54.5	56.9	59.4	56.7	52.8	56.8	47.9	155
160	47.6	48.2	51.2	49.4	50.5	54.1	50.8	52.1	55.7	51.4	53.5	57.9	53.4	51.9	53.5	47.0	160
165	44.6	45.2	48.0	46.4	47.2	50.8	47.8	48.8	52.4	48.2	50.4	54.6	50.2	51.0	50.4	46.2	165
170	41.7	42.2	45.0	43.4	44.4	47.8	44.8	46.0	49.4	45.3	47.5	51.5	47.2	50.2	47.4	45.4	170
175	39.0	39.6	42.2	40.8	41.5	44.9	42.1	43.1	46.4	42.6	44.6	48.6	44.6	48.8	44.6	44.7	175
180	36.5	37.0	39.6	38.2	39.0	42.2	39.5	40.5	43.7	39.9	42.1	45.9	41.9	46.4	42.2	44.0	180
185	34.1	34.6	37.1	35.8	36.5	39.6	37.1	38.0	41.1	37.6	39.5	43.3	39.5	43.8	39.7	43.1	185
190	31.9	32.3	34.8	33.5	34.2	37.2	34.8	35.7	38.7	35.3	37.2	40.7	37.2	41.3	37.3	42.0	190
195	29.7	30.2	32.5	31.4	32.0	34.9	32.6	33.5	36.4	33.2	35.0	38.5	34.9	39.1	35.2	39.8	195
200	27.7	28.2	30.4	29.3	30.0	32.8	30.6	31.4	34.2	31.1	32.9	36.2	32.9	36.8	33.1	37.7	200
205	25.8	26.3	28.4	27.4	28.0	30.7	28.6	29.5	32.2	29.1	30.9	34.2	30.9	34.7	31.2	35.6	205
210	24.0	24.4	26.5	25.6	26.2	28.8	26.8	27.6	30.1	27.3	29.0	32.2	29.0	32.7	29.3	33.5	210
215	22.3	22.7	24.7	23.9	24.4	26.9	25.0	25.8	28.3	25.5	27.3	30.3	27.2	30.8	27.4	31.7	215
220	21.0	21.3	23.0	22.2	22.8	25.2	23.4	24.1	26.5	23.9	25.5	28.5	25.5	29.0	25.8	29.9	220
225	19.6	19.9	21.6	20.9	21.3	23.5	21.8	22.6	24.8	22.3	23.9	26.7	23.9	27.3	24.2	28.1	225
230	18.4	18.7	20.2	19.6	20.0	22.0	20.6	21.1	23.2	21.0	22.4	25.1	22.4	25.6	22.7	26.5	230
235	17.2	17.4	18.9	18.4	18.8	20.7	19.3	19.9	21.8	19.8	21.1	23.5	21.1	24.0	21.4	24.9	235
240	16.1	16.3	17.7	17.2	17.6	19.4	18.2	18.6	20.4	18.6	19.8	22.1	19.9	22.6	20.1	23.5	240
245	15.0	15.2	16.6	16.1	16.5	18.2	17.0	17.5	19.2	17.5	18.7	20.8	18.7	21.3	19.0	22.1	245
250	13.8	14.1	15.5	15.1	15.4	17.1	16.0	16.4	18.1	16.4	17.6	19.6	17.6	20.1	17.9	20.8	250
255	12.6	12.9	14.4	14.0	14.4	16.0	14.9	15.4	16.9	15.4	16.5	18.5	16.6	19.0	16.9	19.7	255
260	11.5	11.7	13.2	13.0	13.3	14.9	14.0	14.4	15.9	14.4	15.5	17.4	15.6	17.9	15.9	18.6	260
265	10.4	10.6	12.0	11.9	12.2	13.9	13.0	13.4	14.8	13.5	14.5	16.4	14.6	16.8	14.9	17.6	265
270	9.3	9.5	10.9	10.8	11.1	12.9	12.1	12.5	13.9	12.6	13.6	15.4	13.7	15.8	14.0	16.5	270
275		8.5	9.7	9.7	10.1	11.8	11.0	11.5	12.9	11.7	12.7	14.4	12.8	14.9	13.1	15.6	275
280				8.7	9.0	10.7	9.9	10.4	12.0	10.8	11.8	13.5	11.9	13.9	12.2	14.6	280
285				7.7	8.0	9.6	9.0	9.4	11.0	9.8	11.0	12.6	11.1	13.0	11.4	13.8	285
290				6.8	7.0	8.5	8.0	8.4	9.9	8.9	10.0	11.7	10.2	12.2	10.6	12.9	290
295					6.1	7.5	7.1	7.5	8.9	7.8	9.1	10.8	9.4	11.3	9.7	12.1	295
300							6.2	6.5	7.9	7.0	8.0	9.9	8.5	10.5	8.9	11.3	300
305								5.7	6.9	6.2	7.2	8.9	7.6	9.7	8.0	10.5	305
310									6.0		6.3	7.9	6.7	8.9	7.1	9.6	310
315												7.0	5.8	7.9	6.3	8.8	315
320													6.1		7.0		320
325														6.1		7.0	325
330															6.2		330

22,050 lb/
88,200 lb

110,250 lb – 374,800 lb

ft	SL3 295														ft		
	F 39			F 59			F 79			F 98			F 118		F 138		
10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	15°	30°	15°	30°		
50	211.0															50	
55	207.0	206.0														55	
60	193.0	195.0		175.0												60	
65	177.0	179.0	145.0	173.0	157.0		147.0									65	
70	163.0	165.0	143.0	163.0	155.0		145.0			124.0						70	
75	150.0	152.0	141.0	151.0	152.0	106.0	143.0	126.0	123.0							75	
80	139.0	141.0	138.0	140.0	143.0	104.0	139.0	124.0	122.0	122.0	109.0		97.4			80	
85	129.0	131.0	135.0	130.0	133.0	103.0	130.0	122.0		121.0	106.0		95.8		82.4	85	
90	120.0	121.0	127.0	121.0	124.0	101.0	121.0	120.0	79.7	119.0	104.0		94.1		81.3	90	
95	112.0	113.0	119.0	113.0	116.0	99.7	113.0	116.0	79.7	112.0	101.0	72.8	92.0		79.7	95	
100	104.0	106.0	111.0	106.0	108.0	98.2	106.0	108.0	79.7	105.0	98.6	71.5	89.7		78.0	100	
105	97.5	98.7	104.0	98.9	102.0	96.7	99.5	102.0	79.6	98.7	96.5	70.2	87.5	63.1	76.3	105	
110	91.2	92.4	97.4	92.8	95.3	95.2	93.4	95.5	78.8	92.8	93.5	69.1	85.5	61.8	74.8	56.9	
115	85.5	86.7	91.4	87.1	89.6	93.0	87.8	89.8	77.7	87.2	89.6	68.0	83.5	60.7	73.4	55.7	
120	80.1	81.3	85.7	81.8	84.2	88.8	82.6	84.4	76.7	82.1	84.4	66.8	81.4	59.5	71.9	54.6	
125	75.0	76.0	79.9	76.8	79.1	83.5	77.8	79.6	75.7	77.4	79.6	65.6	79.0	58.4	70.5	53.6	
130	69.8	70.8	74.5	72.0	74.1	78.1	73.2	74.9	74.6	73.0	75.1	64.5	74.9	57.4	69.2	52.6	
135	65.3	66.1	69.6	67.3	69.2	73.0	68.8	70.4	73.2	68.8	70.8	63.5	70.6	56.4	67.9	51.7	
140	60.8	61.8	65.1	62.9	64.7	68.4	64.3	65.8	71.0	64.7	66.5	62.5	66.6	55.5	65.3	50.7	
145	56.9	57.6	61.0	58.9	60.6	64.1	60.2	61.6	66.7	60.7	62.4	61.6	62.9	54.6	62.1	49.7	
150	53.0	53.9	57.0	55.1	56.9	60.1	56.4	57.8	62.7	56.9	58.6	60.6	59.2	53.7	58.7	48.8	
155	49.6	50.2	53.5	51.5	53.2	56.4	53.0	54.2	58.9	53.3	54.9	59.6	55.6	52.8	55.5	47.9	
160	46.3	47.0	50.0	48.3	49.9	53.0	49.7	50.9	55.4	50.0	51.5	56.9	52.2	52.0	52.3	47.1	
165	43.3	43.8	46.9	45.1	46.8	49.7	46.5	47.7	52.1	47.1	48.4	53.6	49.1	51.2	49.2	46.3	
170	40.4	41.1	43.8	42.3	43.8	46.7	43.7	44.7	49.0	44.1	45.6	50.5	46.1	50.1	46.3	45.5	
175	37.7	38.3	41.1	39.5	41.1	43.8	40.8	42.0	46.2	41.4	42.8	47.6	43.4	48.1	43.5	44.7	
180	35.2	35.8	38.4	37.0	38.4	41.1	38.4	39.3	43.3	38.9	40.1	44.8	40.9	45.4	41.0	44.0	
185	32.8	33.3	36.0	34.6	36.1	38.6	35.9	36.9	40.8	36.4	37.7	42.3	38.3	42.8	38.6	43.0	
190	30.6	31.1	33.6	32.3	33.7	36.2	33.6	34.6	38.4	34.2	35.3	39.8	36.1	40.3	36.2	41.2	
195	28.5	28.9	31.4	30.2	31.5	33.9	31.5	32.4	36.1	31.9	33.2	37.5	33.9	38.0	34.0	38.8	
200	26.5	27.0	29.3	28.2	29.4	31.7	29.4	30.3	33.9	29.9	31.0	35.3	31.7	35.8	32.0	36.6	
205	24.6	25.0	27.3	26.2	27.5	29.7	27.5	28.3	31.8	28.0	29.1	33.1	29.8	33.7	30.0	34.6	
210	22.8	23.2	25.4	24.4	25.6	27.7	25.6	26.4	29.8	26.2	27.2	31.2	27.9	31.8	28.2	32.6	
215	21.3	21.6	23.6	22.7	23.9	25.9	23.9	24.6	27.9	24.4	25.4	29.3	26.1	29.8	26.4	30.7	
220	19.9	20.2	22.0	21.2	22.2	24.2	22.2	23.0	26.1	22.7	23.7	27.5	24.4	28.1	24.7	28.9	
225	18.6	18.9	20.6	19.8	20.8	22.5	20.9	21.5	24.4	21.4	22.1	25.8	22.8	26.3	23.2	27.1	
230	17.3	17.6	19.3	18.6	19.5	21.1	19.6	20.2	22.9	20.0	20.8	24.1	21.5	24.7	21.7	25.5	
235	16.2	16.4	18.0	17.4	18.3	19.8	18.4	18.9	21.4	18.8	19.5	22.6	20.1	23.2	20.4	24.0	
240	15.0	15.3	16.8	16.2	17.1	18.5	17.2	17.7	20.1	17.6	18.4	21.2	19.0	21.7	19.2	22.4	
245	13.9	14.2	15.6	15.1	16.0	17.3	16.1	16.6	18.9	16.5	17.2	20.0	17.8	20.5	18.1	21.2	
250	12.7	13.0	14.5	14.1	14.9	16.2	15.0	15.5	17.7	15.5	16.1	18.8	16.7	19.3	17.0	20.0	
255	11.4	11.7	13.4	13.0	13.8	15.1	14.0	14.4	16.6	14.4	15.1	17.7	15.7	18.1	15.9	18.9	
260	10.3	10.5	12.2	11.9	12.8	14.1	13.0	13.4	15.5	13.5	14.0	16.6	14.6	17.1	14.9	17.8	
265	9.2	9.4	11.0	10.8	11.7	13.0	12.0	12.4	14.5	12.5	13.1	15.6	13.7	16.0	14.0	16.7	
270	8.1	8.4	9.9	9.6	10.6	12.0	11.0	11.4	13.5	11.6	12.1	14.5	12.7	15.0	13.0	15.8	
275	7.0	7.3	8.7	8.6	9.4	10.8	9.9	10.4	12.5	10.7	11.3	13.6	11.9	14.0	12.2	14.8	
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	11.0	13.1	11.3	13.9	
285			6.6	6.6	7.4	8.6	7.8	8.3	10.6	8.7	9.3	11.8	10.1	12.2	10.4	12.9	
290				5.7	6.5	7.6	6.8	7.3	9.5	7.8	8.4	10.9	9.3	11.4	9.6	12.1	
295						6.6	5.9	6.3	8.4	6.8	7.4	10.0	8.4	10.5	8.7	11.3	
300									7.4	5.9	6.5	9.0	7.4	9.7	7.7	10.5	
305											6.5	5.6	8.1	6.5	8.9	6.8	9.7
310												5.5		7.1	5.7	7.9	
315														6.1		7.9	
320															6.1		
325																6.1	



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

	SL3 305													
	F 39			F 59			F 79			F 98				
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°		
50	206.0												50	
55	200.0	200.0											55	
60	190.0	191.0		170.0									60	
65	173.0	176.0	145.0	168.0	154.0		143.0						65	
70	159.0	162.0	143.0	160.0	152.0		142.0			121.0			70	
75	147.0	149.0	141.0	148.0	149.0	106.0	139.0	124.0		120.0			75	
80	136.0	138.0	139.0	137.0	141.0	105.0	135.0	122.0		119.0	107.0		80	
85	126.0	128.0	134.0	127.0	131.0	103.0	127.0	120.0		118.0	105.0		85	
90	117.0	119.0	125.0	118.0	122.0	101.0	119.0	118.0	79.7	116.0	103.0		90	
95	109.0	111.0	116.0	111.0	113.0	99.7	111.0	114.0	79.7	110.0	101.0		95	
100	102.0	103.0	109.0	103.0	106.0	98.2	104.0	106.0	79.7	103.0	98.6	71.5	100	
105	94.9	96.4	102.0	96.6	99.4	96.8	97.3	99.6	79.7	96.6	96.0	70.3	105	
110	88.8	90.1	95.2	90.5	93.2	95.4	91.2	93.4	79.1	90.6	92.9	69.1	110	
115	83.1	84.3	89.3	84.8	87.4	92.0	85.7	87.7	78.0	85.1	87.5	68.0	115	
120	77.9	79.0	83.8	79.6	82.1	87.1	80.5	82.5	76.9	80.1	82.5	66.9	120	
125	73.0	74.1	78.4	74.8	77.1	81.9	75.7	77.6	75.9	75.4	77.6	65.8	125	
130	68.2	69.2	73.1	70.2	72.5	76.7	71.2	73.0	74.9	71.0	73.1	64.7	130	
135	63.6	64.5	68.2	65.8	67.8	71.7	67.1	68.8	73.7	66.9	69.0	63.7	135	
140	59.3	60.2	63.7	61.3	63.3	67.1	62.8	64.4	69.9	63.1	65.0	62.7	140	
145	55.1	56.1	59.5	57.2	59.2	62.8	58.8	60.3	65.5	59.2	61.1	61.8	145	
150	51.5	52.3	55.7	53.6	55.3	58.8	55.0	56.4	61.5	55.4	57.2	60.7	150	
155	47.9	48.8	51.9	50.0	51.9	55.1	51.4	52.8	57.7	51.9	53.6	58.8	155	
160	44.7	45.4	48.6	46.8	48.4	51.6	48.2	49.4	54.1	48.6	50.2	55.8	160	
165	41.6	42.4	45.3	43.7	45.4	48.5	45.1	46.4	50.9	45.6	47.1	52.4	165	
170	38.8	39.4	42.5	40.7	42.4	45.3	42.2	43.3	47.8	42.8	44.1	49.3	170	
175	36.1	36.8	39.6	38.1	39.6	42.5	39.5	40.6	44.9	39.9	41.4	46.4	175	
180	33.6	34.1	37.0	35.4	37.0	39.8	36.8	38.0	42.2	37.4	38.7	43.6	180	
185	31.2	31.8	34.5	33.1	34.6	37.3	34.5	35.4	39.5	35.0	36.3	41.0	185	
190	29.0	29.5	32.2	30.7	32.3	34.8	32.1	33.2	37.2	32.7	34.0	38.7	190	
195	26.9	27.4	29.9	28.7	30.0	32.6	30.0	30.9	34.8	30.6	31.7	36.3	195	
200	24.9	25.3	27.9	26.6	28.0	30.4	27.9	28.9	32.6	28.4	29.7	34.1	200	
205	23.0	23.5	25.8	24.7	26.0	28.4	26.0	26.9	30.5	26.6	27.7	32.0	205	
210	21.4	21.7	24.0	22.9	24.2	26.4	24.2	25.0	28.5	24.7	25.8	29.9	210	
215	19.9	20.3	22.1	21.3	22.4	24.6	22.4	23.2	26.7	23.0	24.0	28.1	215	
220	18.5	18.9	20.7	19.9	21.0	22.8	21.0	21.6	24.9	21.6	22.3	26.2	220	
225	17.2	17.6	19.3	18.6	19.6	21.3	19.6	20.3	23.2	20.1	21.0	24.6	225	
230	16.0	16.3	18.0	17.3	18.3	19.9	18.4	18.9	21.6	18.8	19.6	22.9	230	
235	14.8	15.1	16.8	16.1	17.0	18.6	17.1	17.7	20.3	17.6	18.4	21.4	235	
240	13.5	13.9	15.6	14.9	15.9	17.4	16.0	16.5	19.0	16.4	17.1	20.2	240	
245	12.3	12.6	14.4	13.8	14.7	16.2	14.8	15.4	17.8	15.3	16.0	18.9	245	
250	11.1	11.4	13.3	12.8	13.7	15.0	13.8	14.2	16.6	14.2	14.9	17.8	250	
255	9.8	10.1	12.0	11.6	12.6	14.0	12.7	13.2	15.5	13.2	13.9	16.6	255	
260	8.6	8.9	10.8	10.3	11.4	12.9	11.7	12.2	14.4	12.2	12.9	15.6	260	
265	7.5	7.8	9.5	9.2	10.2	11.8	10.6	11.2	13.4	11.3	11.9	14.5	265	
270	6.5	6.7	8.4	8.1	9.1	10.6	9.5	10.1	12.4	10.3	11.0	13.5	270	
275		5.7	7.3	7.1	8.0	9.5	8.4	9.0	11.5	9.3	10.0	12.5	275	
280			6.2	6.0	6.9	8.4	7.4	7.9	10.4	8.2	8.9	11.6	280	
285					6.0	7.3	6.4	6.9	9.3	7.3	7.9	10.7	285	
290						6.3		5.9	8.2	6.3	6.9	9.8	290	
295									7.2		5.9	8.8	295	
300										6.2			7.8	
305												6.7	305	
310												5.8	310	



39 - 138 ft

1

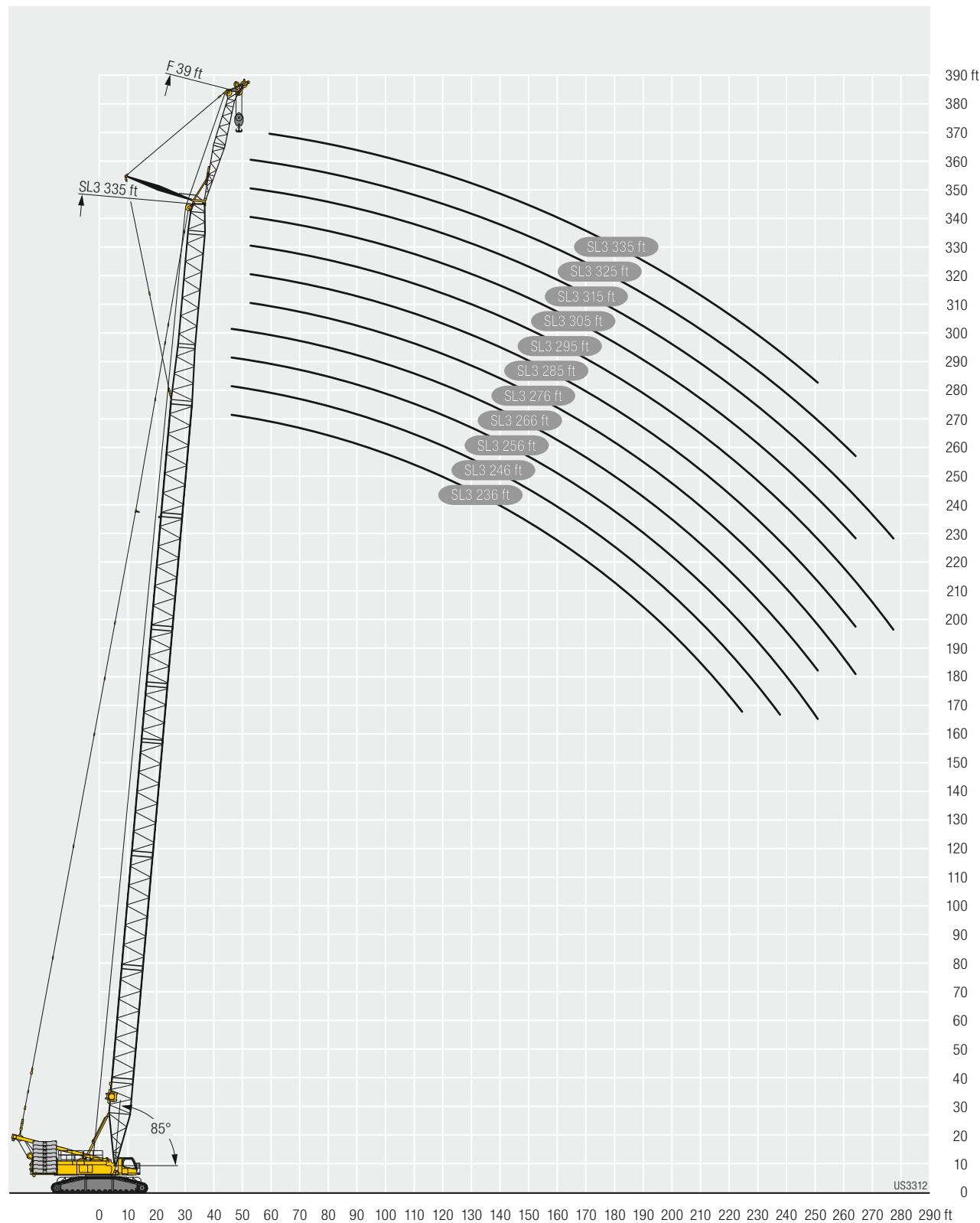
22,050 lb
88,200 lb

110,250 lb – 374,800 lb

Lifting heights

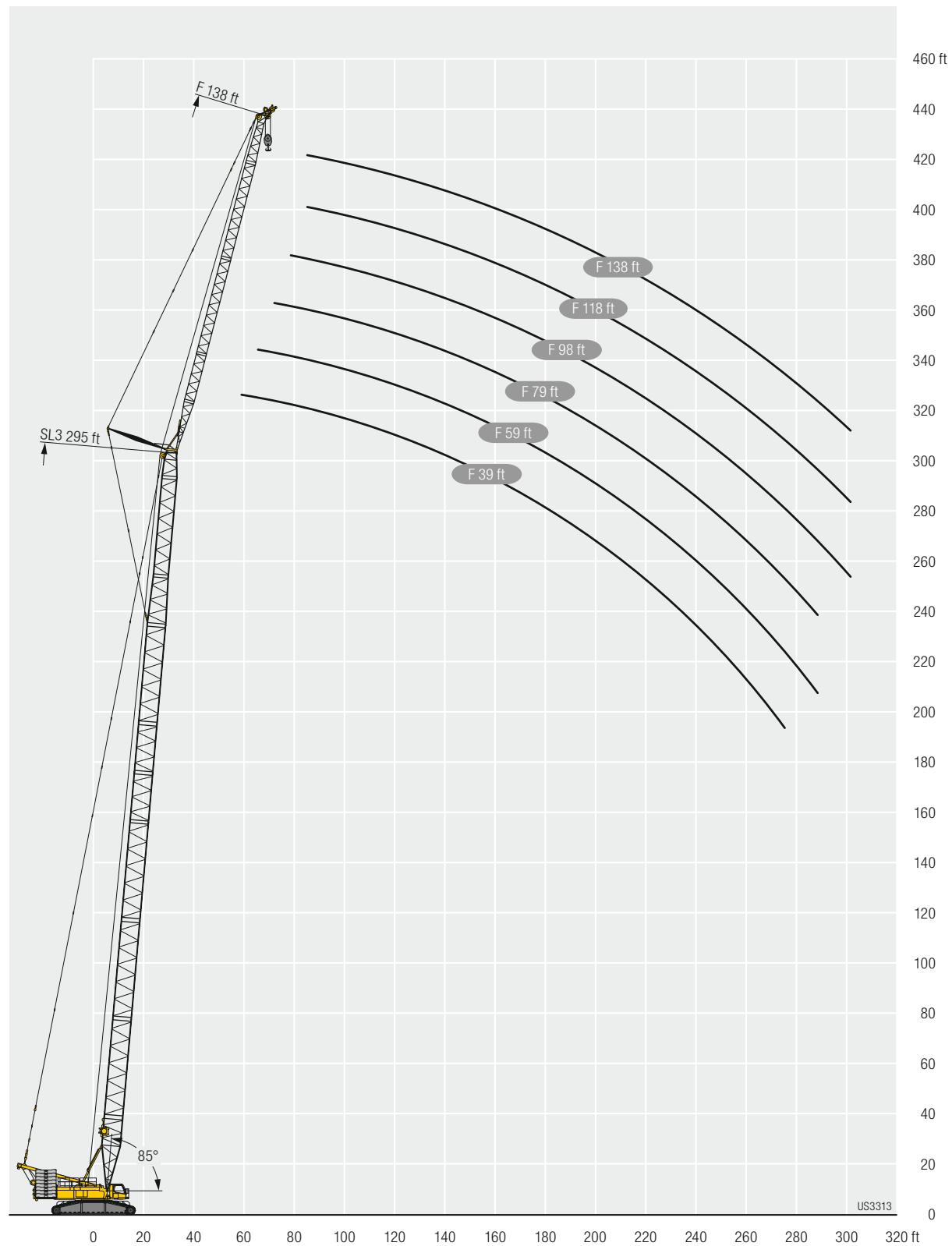
Hauteurs de levage

SL3F



Lifting heights Hauteurs de levage

SL3F





		SL4 177										SL4 187													
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
		271.0										271.0													
38	-	271.0										271.0													
	B	271.0										271.0													
40	-	271.0										271.0													
	B	271.0										271.0													
45	-	271.0	258.0	233.0								271.0	259.0												
	B	271.0	258.0	233.0								271.0	259.0												
50	-	271.0	247.0	222.0	184.0							271.0	248.0	223.0											
	B	271.0	247.0	222.0	185.0							271.0	248.0	223.0											
55	-	251.0	236.0	211.0	177.0	176.0				157.0		250.0	238.0	213.0	178.0	177.0									
	B	271.0	236.0	211.0	177.0	177.0				157.0		271.0	238.0	213.0	178.0	177.0									
60	-	228.0	226.0	201.0	170.0	168.0	143.0	150.0				227.0	227.0	203.0	171.0	169.0	144.0	150.0							
	B	270.0	226.0	201.0	170.0	168.0	143.0	150.0				271.0	229.0	203.0	171.0	169.0	144.0	150.0							
65	-	209.0	211.0	192.0	163.0	160.0	138.0	144.0	119.0			208.0	210.0	194.0	165.0	162.0	138.0	143.0	123.0						
	B	262.0	217.0	192.0	163.0	161.0	138.0	144.0	119.0			266.0	220.0	194.0	165.0	162.0	138.0	143.0	123.0						
70	-	192.0	194.0	184.0	157.0	153.0	132.0	137.0	118.0	110.0	97.5	191.0	193.0	186.0	159.0	155.0	133.0	137.0	118.0	110.0	97.7				
	B	252.0	209.0	184.0	157.0	154.0	132.0	137.0	118.0	110.0	97.5	255.0	212.0	186.0	159.0	155.0	133.0	137.0	118.0	110.0	97.7				
75	-	178.0	179.0	175.0	152.0	147.0	127.0	131.0	114.0	105.0	94.5	176.0	179.0	176.0	153.0	149.0	128.0	131.0	114.0	106.0	94.7				
	B	241.0	201.0	177.0	152.0	147.0	128.0	132.0	114.0	105.0	94.5	244.0	204.0	179.0	153.0	149.0	128.0	131.0	114.0	106.0	94.7				
80	-	165.0	166.0	164.0	146.0	141.0	123.0	126.0	110.0	101.0	91.6	164.0	166.0	164.0	148.0	143.0	124.0	126.0	110.0	102.0	92.0				
	B	231.0	194.0	170.0	147.0	141.0	123.0	126.0	110.0	101.0	91.6	235.0	197.0	172.0	148.0	143.0	124.0	126.0	110.0	102.0	92.0				
85	-	152.0	153.0	153.0	141.0	136.0	118.0	121.0	106.0	97.2	88.8	152.0	154.0	153.0	143.0	137.0	120.0	121.0	106.0	97.8	89.3				
	B	222.0	187.0	163.0	142.0	136.0	119.0	121.0	106.0	97.2	88.8	225.0	190.0	166.0	143.0	137.0	120.0	121.0	106.0	97.9	89.3				
90	-	140.0	141.0	142.0	137.0	130.0	114.0	116.0	102.0	93.6	86.1	141.0	142.0	143.0	139.0	132.0	116.0	116.0	102.0	94.3	86.7				
	B	213.0	181.0	157.0	137.0	130.0	115.0	116.0	102.0	93.6	86.1	217.0	184.0	160.0	139.0	132.0	116.0	116.0	102.0	94.3	86.7				
95	-	130.0	131.0	132.0	132.0	126.0	111.0	111.0	98.9	90.0	83.5	130.0	132.0	133.0	133.0	127.0	112.0	112.0	98.5	90.8	84.1				
	B	205.0	175.0	152.0	133.0	126.0	111.0	111.0	98.9	90.1	83.5	209.0	179.0	154.0	135.0	128.0	112.0	112.0	98.5	90.8	84.1				
100	-	121.0	121.0	122.0	124.0	121.0	107.0	107.0	95.6	87.0	80.7	121.0	122.0	123.0	125.0	123.0	109.0	108.0	95.4	87.7	81.5				
	B	198.0	170.0	146.0	129.0	121.0	107.0	107.0	95.6	87.0	80.7	201.0	173.0	149.0	131.0	123.0	109.0	108.0	95.4	87.7	81.5				
105	-	112.0	113.0	114.0	115.0	115.0	104.0	103.0	92.4	84.0	77.6	112.0	114.0	115.0	116.0	116.0	105.0	104.0	92.4	84.8	78.6				
	B	191.0	165.0	142.0	125.0	117.0	104.0	103.0	92.5	84.0	77.6	195.0	168.0	144.0	127.0	119.0	105.0	104.0	92.4	84.8	78.6				
110	-	105.0	106.0	107.0	108.0	107.0	101.0	99.8	89.4	81.2	74.6	105.0	106.0	107.0	109.0	108.0	102.0	100.0	89.5	82.0	75.7				
	B	185.0	160.0	137.0	121.0	113.0	101.0	99.8	89.5	81.2	74.6	189.0	164.0	140.0	123.0	115.0	102.0	100.0	89.5	82.0	75.7				
115	-	98.2	98.9	99.8	101.0	101.0	98.0	96.3	86.7	78.5	72.1	97.9	99.3	100.0	102.0	101.0	99.2	96.8	86.8	79.5	72.9				
	B	179.0	156.0	133.0	118.0	110.0	98.0	96.4	86.8	78.5	72.1	183.0	159.0	136.0	120.0	111.0	99.5	97.0	86.8	79.5	72.9				
120	-	92.1	92.7	93.7	94.9	94.6	94.4	92.7	84.2	75.9	69.9	91.8	93.0	93.9	95.6	95.2	96.0	93.6	84.2	76.9	70.8				
	B	174.0	152.0	129.0	114.0	106.0	95.1	93.2	84.2	76.0	70.0	177.0	155.0	131.0	117.0	108.0	96.6	93.8	84.2	76.9	70.8				
125	-	86.5	87.1	88.0	89.3	89.0	90.5	89.0	81.7	73.5	67.8	86.2	87.2	88.4	89.7	89.4	90.9	89.3	81.8	74.6	68.7				
	B	169.0	148.0	125.0	112.0	103.0	92.6	90.2	81.7	73.6	67.9	172.0	151.0	128.0	114.0	105.0	94.1	90.9	81.8	74.6	68.7				
130	-	81.4	82.0	82.8	84.2	83.9	85.4	84.7	79.4	71.3	65.7	81.0	82.0	83.1	84.5	84.1	85.8	84.4	79.5	72.4	66.6				
	B	164.0	145.0	121.0	109.0	99.9	90.2	87.5	79.4	71.3	65.8	168.0	148.0	124.0	111.0	102.0	91.7	88.0	79.5	72.4	66.7				
135	-	76.7	77.2	78.2	79.3	79.1	80.6	79.9	77.1	69.2	63.7	76.2	77.3	78.2	79.6	79.4	80.9	79.7	77.4	70.3	64.6				
	B	160.0	141.0	118.0	106.0	97.1	88.0	84.8	77.2	69.2	63.7	163.0	145.0	121.0	108.0	99.0	89.3	85.4	77.4	70.3	64.6				
140	-	72.4	72.9	73.8	74.9	74.8	76.1	75.7	75.1	67.2	61.8	71.8	72.8	73.9	75.1	74.9	76.5	75.2	75.0	68.3	62.7				
	B	155.0	138.0	115.0	104.0	94.4	85.7	82.3	75.1	67.2	61.8	159.0	141.0	118.0	106.0	96.3	87.2	82.9	75.4	76.3	68.3	62.7			
145	-	68.4	68.8	69.8	70.9	70.7	72.0	71.5	72.4	65.4	59.9	67.8	68.7	69.8	70.9	70.8	72.3	71.2	72.5	66.4	60.8				
	B	152.0	135.0	112.0	101.0	91.9	83.7	79.9	73.2	65.4	59.9	155.0	138.0	115.0	104.0	93.7	85.1	80.7	73.5	66.4	60.8				
150	-	64.7	65.0	66.0	67.1	66.9	68.2	67.9	69.2	63.6	58.1	64.0	64.8	65.9	67.1	67.0	68.4	67.3	69.1	64.6	59.0	59.0			
	B	148.0	132.0	109.0	99.3	89.6	81.8	77.8	71.3	63.6	58.1	151.0	135.0	112.0	101.0	91.4	83.2	78.5	71.7	64.7	59.1	57.4			
155	-	61.2	61.6	62.6	63.5	63.5	64.6	64.4	65.8	61.8	56.4	60.5	61.3</												

	177–433 ft		98 ft		39–138 ft		88,200 lb		286,600 lb – 374,800 lb		F			
											B	529,100 lb – 617,300 lb		
											330,700 lb – 463,000 lb			
											66,100 lb – 264,600 lb			

 ft	SL4 177										SL4 187													
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
200 B -			39.7	40.2	40.4	41.2	41.3	42.3	42.3	43.5			39.1	39.8	40.0	40.9	40.5	41.6	42.1	42.0				
			89.2	83.4	71.6	67.1	61.0	57.2	49.9	44.8			91.3	84.9	73.4	68.4	61.8	57.6	51.0	45.6				
205 B -					38.5	39.3	39.4	40.4	40.4	41.5			37.2	37.9	38.1	39.0	38.5	39.7	40.2	40.1				
					70.3	66.0	59.8	56.1	48.9	43.8			89.8	83.8	72.1	67.3	60.5	56.6	49.9	44.6				
210 B -			36.7	37.4	37.6	38.6	38.6	39.7					36.0	36.2	37.1	36.7	37.8	38.3	38.2					
			69.1	65.0	58.6	55.1	47.9	42.7					82.8	70.7	66.2	59.3	55.6	49.0	43.7					
215 B -			35.0	35.7	35.9	36.8	36.8	37.9						34.5	35.3	35.0	36.0	36.5	36.5	42.7				
			68.0	64.0	57.4	54.2	47.0	41.8						69.5	65.2	58.2	54.7	48.0	42.7					
220 B -			34.0	34.3	35.1	35.2	36.2							32.9	33.6	33.4	34.3	34.8	34.8					
			63.1	56.3	53.3	46.1	40.9							68.4	64.4	57.1	53.8	47.1	41.8					
225 B -					32.7	33.5	33.6	34.7						31.3	32.0	31.8	32.7	33.2	33.2					
					55.3	52.4	45.2	40.1						67.3	63.5	56.1	52.9	46.2	40.9					
230 B -			31.3	32.0	32.0	33.1									30.3	31.2	31.7	31.7						
			54.4	51.6	44.4	39.2									55.1	52.0	45.3	40.0						
235 B -					30.6	30.6	31.7								28.9	29.7	30.2	30.2						
					50.8	43.6	38.4								54.1	51.3	44.5	39.2						
240 B -						29.3	30.3								27.6	28.3	28.8	28.9						
						42.8	37.7								53.3	50.5	43.7	38.4						
245 B -						27.9	29.0									27.0	27.5	27.6						
						42.1	36.9									49.8	42.9	37.7						
250 B -						26.7	27.7										26.2	26.3						
						41.4	36.2										42.3	37.0						
255 B -							26.5										25.0	25.1						
							35.5										41.6	36.4						
260 B -							25.3										23.8	23.9						
							34.9										41.0	35.7						
265 B -							24.2											22.8						
							34.3											35.1						
270 B -							23.1											21.8						
							33.7											34.5						
275 B -							22.1											20.9						
							33.2											33.9						
280 B -																		20.1						
																		33.4						



	ft	SL4 197												SL4 207													
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138			
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
40	-	271.0										271.0															
	B	271.0										271.0															
45	-	271.0	260.0									271.0	260.0														
	B	271.0	260.0									271.0	260.0														
50	-	267.0	249.0	224.0								267.0	251.0	224.0													
	B	271.0	249.0	224.0								271.0	251.0	224.0													
55	-	243.0	240.0	213.0	178.0	177.0						241.0	241.0	214.0	179.0	178.0											
	B	271.0	240.0	213.0	178.0	178.0						271.0	241.0	214.0	179.0	178.0											
60	-	221.0	223.0	204.0	171.0	169.0	144.0	152.0				220.0	223.0	205.0	172.0	170.0	144.0	152.0									
	B	271.0	231.0	204.0	171.0	170.0	144.0	152.0				271.0	232.0	205.0	172.0	170.0	144.0	152.0									
65	-	202.0	204.0	195.0	165.0	162.0	139.0	145.0	119.0			201.0	204.0	197.0	166.0	163.0	139.0	145.0	123.0								
	B	269.0	222.0	196.0	165.0	162.0	139.0	145.0	119.0			269.0	224.0	197.0	166.0	163.0	139.0	145.0	123.0								
70	-	186.0	188.0	185.0	160.0	155.0	133.0	139.0	118.0	110.0	97.2	185.0	187.0	185.0	161.0	157.0	134.0	139.0	119.0	110.0	97.2						
	B	259.0	214.0	188.0	160.0	156.0	134.0	139.0	118.0	110.0	97.3	261.0	216.0	190.0	161.0	157.0	134.0	140.0	119.0	110.0	97.2						
75	-	172.0	173.0	171.0	154.0	149.0	129.0	133.0	115.0	106.0	94.5	170.0	173.0	171.0	155.0	151.0	130.0	134.0	114.0	106.0	94.7						
	B	249.0	207.0	181.0	154.0	150.0	129.0	133.0	115.0	106.0	94.5	251.0	209.0	182.0	155.0	151.0	130.0	134.0	114.0	106.0	94.7						
80	-	159.0	161.0	159.0	149.0	144.0	124.0	128.0	111.0	102.0	91.8	158.0	160.0	159.0	150.0	145.0	125.0	129.0	110.0	102.0	92.1						
	B	239.0	200.0	174.0	149.0	144.0	125.0	128.0	111.0	102.0	91.8	242.0	202.0	176.0	150.0	145.0	125.0	129.0	110.0	102.0	92.1						
85	-	148.0	149.0	148.0	144.0	138.0	120.0	123.0	108.0	98.2	89.3	147.0	149.0	148.0	146.0	140.0	121.0	124.0	107.0	98.7	89.5						
	B	230.0	193.0	168.0	144.0	139.0	120.0	123.0	108.0	98.2	89.3	233.0	196.0	170.0	146.0	140.0	121.0	124.0	107.0	98.7	89.5						
90	-	138.0	139.0	138.0	139.0	133.0	117.0	118.0	104.0	94.8	86.7	137.0	139.0	138.0	140.0	135.0	117.0	119.0	103.0	95.3	87.0						
	B	222.0	187.0	162.0	140.0	134.0	117.0	118.0	104.0	94.8	86.7	225.0	190.0	164.0	142.0	135.0	117.0	119.0	103.0	95.4	87.0						
95	-	127.0	128.0	129.0	131.0	128.0	113.0	114.0	101.0	91.5	84.3	127.0	129.0	129.0	131.0	121.0	114.0	115.0	100.0	92.2	84.7						
	B	214.0	181.0	156.0	136.0	129.0	113.0	114.0	101.0	91.5	84.3	217.0	185.0	159.0	138.0	131.0	114.0	115.0	100.0	92.2	84.7						
100	-	118.0	119.0	120.0	122.0	121.0	110.0	110.0	97.5	88.3	81.9	118.0	120.0	121.0	123.0	121.0	111.0	111.0	97.0	89.0	82.3						
	B	207.0	176.0	151.0	132.0	125.0	110.0	110.0	97.5	88.3	81.9	210.0	179.0	154.0	134.0	126.0	111.0	111.0	97.0	89.1	82.3						
105	-	110.0	111.0	112.0	113.0	113.0	106.0	106.0	94.5	85.4	79.2	110.0	111.0	112.0	114.0	113.0	108.0	108.0	94.0	86.3	79.9						
	B	200.0	171.0	147.0	129.0	121.0	106.0	106.0	94.5	85.4	79.2	203.0	174.0	149.0	130.0	122.0	108.0	108.0	94.0	86.3	79.9						
110	-	103.0	103.0	104.0	106.0	105.0	103.0	103.0	91.6	82.7	76.4	102.0	104.0	105.0	107.0	106.0	105.0	104.0	91.3	83.6	77.2						
	B	194.0	167.0	142.0	125.0	117.0	103.0	103.0	91.6	82.7	76.4	197.0	169.0	144.0	127.0	118.0	105.0	104.0	91.3	83.6	77.2						
115	-	95.9	96.5	97.5	99.1	98.5	99.7	98.7	88.9	80.2	73.7	95.4	97.0	98.0	99.5	99.0	101.0	99.9	88.7	81.1	74.5						
	B	188.0	162.0	138.0	122.0	113.0	101.0	99.2	98.9	80.2	73.7	191.0	165.0	140.0	123.0	115.0	102.0	101.0	88.7	81.1	74.5						
120	-	89.7	90.4	91.5	92.7	92.5	94.1	93.1	86.3	77.8	71.3	89.4	90.6	91.6	93.4	92.8	94.8	93.8	86.3	78.7	72.1						
	B	182.0	158.0	134.0	119.0	110.0	98.0	96.2	86.3	77.8	71.3	186.0	161.0	136.0	120.0	111.0	99.3	97.6	86.3	78.7	72.1						
125	-	84.1	84.8	85.7	87.2	86.8	88.6	87.6	83.8	75.5	69.3	83.7	84.9	86.1	87.6	87.3	89.0	88.1	83.9	76.3	70.1						
	B	177.0	154.0	130.0	116.0	107.0	95.4	93.1	83.9	75.5	69.3	180.0	157.0	133.0	117.0	108.0	96.7	94.6	83.9	76.3	70.1						
130	-	79.1	79.6	80.7	82.0	81.7	83.3	82.6	81.5	73.3	67.3	78.4	79.7	80.8	82.3	81.8	83.8	82.9	81.6	74.1	68.1						
	B	172.0	150.0	127.0	113.0	104.0	92.9	90.4	81.7	73.3	67.4	175.0	153.0	129.0	115.0	105.0	94.3	91.8	81.6	74.2	68.1						
135	-	74.4	74.9	76.0	77.2	76.9	78.6	77.8	78.5	71.3	65.4	73.8	74.9	76.0	77.5	77.2	78.8	78.2	79.3	72.1	66.2						
	B	168.0	147.0	123.0	110.0	101.0	90.6	87.8	78.5	71.3	65.4	171.0	150.0	126.0	112.0	102.0	92.0	89.3	79.4	72.2	66.2						
140	-	69.9	70.6	71.5	72.8	72.6	74.0	73.5	75.0	69.2	63.5	69.4	70.4	71.6	72.9	72.7	74.5	73.7	75.1	70.1	64.3						
	B	164.0	144.0	120.0	108.0	97.9	88.5	85.3	77.4	69.3	63.5	167.0	147.0	123.0	110.0	99.7	88.8	86.8	77.5	70.1	64.3						
145	-	66.0	66.5	67.5	68.7	68.5	70.0	69.4	71.2	67.3	61.6	65.2	66.4	67.4	68.9	68.6	70.2	69.7	70.8	68.2	62.4						
	B	160.0	141.0	117.0	105.0	95.4	86.5	82.9	75.4	67.4	61.6	163.0	144.0	120.0	107.0	97.2	87.7	84.4	75.5	68.3	62.4						
150	-	62.3	62.8	63.8	64.9	64.8	66.2	65.7	67.3	65.4	59.9	61.6	62.6	63.7	65.0	64.8	66.4	65.8	67.1	66.4	60.6						
	B	156.0	138.0	115.0	103.0	93.0	84.5	80.7	73.6	65.6	60.0	159.0	141.0	117.0	105.0	94.9	85.8	82.2	73.7	66.5	60.7						
155	-	58.9	59																								

				286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
						330,700 lb – 463,000 lb
						66,100 lb – 264,600 lb

	SL4 197												SL4 207																																
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138																						
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°																					
200 B -		36.4	37.3	38.1	38.2	39.1	39.2	40.3	40.3	41.5	35.2	35.8	36.8	37.6	37.8	38.8	38.8	39.6	40.1	40.0	37.8	38.8	38.8	39.6																					
		117.0	93.3	86.4	74.9	69.6	63.9	59.5	51.9	46.4	130.0	120.0	95.4	88.1	76.6	70.9	65.1	59.7	52.8	47.3	76.6	70.9	65.1	59.7																					
205 B -			35.5	36.2	36.3	37.2	37.3	38.4	38.4	39.5	33.3	33.9	34.9	35.7	35.8	36.9	36.9	37.6	38.2	38.1	35.7	36.9	36.9	37.6																					
210 B -			91.8	85.2	73.5	68.5	62.6	58.5	50.9	45.4	128.0	118.0	93.8	86.8	75.1	69.8	63.9	58.6	51.7	46.3	92.3	85.6	73.8	68.7	62.6	57.6	50.8	45.3																	
215 B -			33.7	34.3	34.5	35.4	35.4	36.6	36.6	37.7			33.1	33.8	34.0	35.0	35.0	35.7	36.3	36.2	31.4	32.1	32.3	33.2	33.3	33.9	34.5	34.5																	
			90.4	84.1	72.3	67.5	61.3	57.4	49.9	44.4											90.9	84.6	72.5	67.6	61.4	56.6	49.8	44.4																	
220 B -			32.0	32.6	32.8	33.6	33.8	34.8	34.8	35.9											29.7	30.4	30.6	31.5	31.7	32.3	32.8	32.8																	
			89.0	83.1	71.0	66.5	60.1	56.4	48.9	43.5											89.6	83.6	71.3	66.7	60.2	55.7	48.8	43.4																	
225 B -					31.2	31.9	32.1	33.1	33.1	34.2											29.6	28.8	29.0	29.9	30.1	30.7	31.2	31.2																	
					69.8	65.5	58.9	55.5	48.0	42.6											82.7	70.1	65.7	59.1	54.8	47.9	42.5	42.5																	
230 B -					29.6	30.4	30.6	31.5	31.6	32.6											27.5	28.4	28.6	28.6	29.1	29.7	29.7	29.7																	
					68.7	64.6	57.9	54.6	47.1	41.7											69.1	64.9	58.0	53.9	47.1	41.6	41.6	41.6																	
235 B -					28.2	28.9	29.1	30.0	30.1	31.1											26.1	26.9	27.1	27.6	28.2	28.2	28.2	28.2																	
					67.7	63.8	56.9	53.7	46.2	40.9											68.1	64.1	57.1	53.1	46.2	40.8	40.8	40.8																	
240 B -						26.3	27.2	27.2	28.3												24.8	25.5	25.7	26.2	26.8	26.8	26.8	26.8																	
						55.0	52.1	44.6	39.2												67.1	63.3	56.1	52.3	45.5	40.0	40.0	40.0																	
245 B -						25.0	25.8	25.9	26.9															24.4	24.9	25.5	25.5	25.5	25.5	25.5	25.5														
						54.1	51.4	43.9	38.5															55.2	51.6	44.7	39.3	39.3	39.3	39.3	39.3														
250 B -						23.8	24.6	24.6	25.7															23.2	23.6	24.1	24.2	24.2	24.2	24.2	24.2														
						53.3	50.7	43.1	37.7															54.2	50.9	44.0	38.5	38.5	38.5	38.5	38.5														
255 B -							23.4	24.4																22.1	22.4	22.9	23.0	23.0	23.0	23.0	23.0														
							42.5	37.0																53.4	50.2	43.3	37.8	37.8	37.8	37.8	37.8														
260 B -							22.3	23.3																			21.4	21.8	22.0	22.0	22.0	22.0	22.0	22.0											
							41.8	36.3																				49.6	42.6	37.2	37.2	37.2	37.2	37.2	37.2										
265 B -							21.3	22.2																																					
							41.2	35.7																																					
270 B -								21.3																																					
								35.1																																					
275 B -									20.4																																				
									34.6																																				
280 B -									19.5																																				
									34.0																																				
285 B -									18.7																																				
									33.5																																				
290 B -										33.0																																			
295 B -																																													



		SL4 217										SL4 226												
ft	F 39	F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138		
		10°	15°	10°	15°	10°	15°	10°	15°	15°	10°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
45	-	271.0	261.0								271.0													
	B	271.0	262.0								271.0													
50	-	260.0	252.0	225.0							258.0	252.0	224.0											
	B	271.0	252.0	225.0							271.0	253.0	225.0											
55	-	235.0	237.0	215.0	179.0	178.0					233.0	236.0	216.0	179.0										
	B	271.0	243.0	215.0	179.0	178.0					271.0	244.0	216.0	180.0										
60	-	213.0	216.0	206.0	173.0	171.0		153.0			212.0	215.0	207.0	174.0	171.0		153.0							
	B	271.0	234.0	207.0	173.0	171.0		153.0			271.0	235.0	208.0	174.0	172.0		153.0							
65	-	195.0	197.0	194.0	167.0	164.0	140.0	146.0			194.0	197.0	194.0	168.0	165.0	140.0	147.0							
	B	271.0	226.0	199.0	167.0	164.0	140.0	146.0			271.0	228.0	200.0	168.0	165.0	140.0	147.0							
70	-	180.0	182.0	179.0	162.0	158.0	135.0	140.0	118.0	111.0	97.2	178.0	181.0	179.0	162.0	158.0	141.0	119.0	111.0					
	B	266.0	219.0	191.0	162.0	158.0	135.0	140.0	118.0	111.0	97.2	267.0	220.0	193.0	163.0	159.0	135.0	141.0	119.0	111.0				
75	-	166.0	168.0	166.0	157.0	152.0	130.0	135.0	116.0	107.0	94.7	165.0	167.0	165.0	158.0	153.0	131.0	136.0	115.0	107.0	94.7			
	B	256.0	211.0	184.0	157.0	152.0	130.0	135.0	116.0	107.0	94.7	258.0	214.0	186.0	158.0	153.0	131.0	136.0	115.0	107.0	94.7			
80	-	154.0	155.0	154.0	152.0	146.0	126.0	130.0	113.0	103.0	92.2	152.0	155.0	154.0	153.0	147.0	127.0	130.0	111.0	103.0	92.3			
	B	247.0	205.0	178.0	152.0	146.0	126.0	130.0	113.0	103.0	92.2	248.0	207.0	179.0	153.0	148.0	127.0	130.0	111.0	103.0	92.3			
85	-	143.0	144.0	143.0	145.0	141.0	122.0	125.0	109.0	99.3	89.7	142.0	144.0	143.0	146.0	141.0	123.0	126.0	108.0	99.7	89.8			
	B	238.0	199.0	172.0	147.0	141.0	122.0	125.0	109.0	99.3	89.7	240.0	201.0	174.0	148.0	142.0	123.0	126.0	108.0	99.7	89.9			
90	-	133.0	135.0	134.0	136.0	133.0	119.0	120.0	106.0	95.9	87.2	132.0	134.0	133.0	136.0	133.0	120.0	121.0	105.0	96.3	87.4			
	B	230.0	193.0	166.0	143.0	136.0	119.0	120.0	106.0	96.0	87.2	232.0	196.0	168.0	144.0	138.0	120.0	121.0	105.0	96.3	87.5			
95	-	125.0	126.0	125.0	127.0	125.0	115.0	116.0	102.0	92.9	84.9	123.0	125.0	125.0	127.0	125.0	116.0	117.0	101.0	93.3	84.9			
	B	223.0	187.0	161.0	139.0	132.0	115.0	116.0	102.0	92.9	84.9	224.0	190.0	163.0	140.0	133.0	116.0	117.0	101.0	93.3	84.9			
100	-	116.0	117.0	117.0	119.0	117.0	112.0	112.0	99.2	89.8	82.7	115.0	117.0	117.0	119.0	117.0	113.0	114.0	98.3	90.4	82.0			
	B	215.0	182.0	156.0	135.0	128.0	112.0	112.0	99.2	89.8	82.7	217.0	185.0	158.0	137.0	129.0	113.0	114.0	98.3	90.4	82.0			
105	-	108.0	108.0	109.0	111.0	110.0	109.0	109.0	96.3	87.0	80.5	107.0	109.0	110.0	112.0	110.0	109.0	109.0	95.6	87.5	79.2			
	B	209.0	177.0	151.0	132.0	124.0	109.0	109.0	96.3	87.0	80.5	211.0	180.0	153.0	133.0	125.0	110.0	110.0	95.6	87.5	79.2			
110	-	100.0	101.0	102.0	104.0	103.0	105.0	103.0	93.5	84.3	78.0	99.9	101.0	102.0	104.0	103.0	105.0	104.0	92.9	85.0	76.9			
	B	202.0	173.0	147.0	128.0	120.0	106.0	105.0	93.5	84.5	78.0	205.0	175.0	149.0	130.0	122.0	107.0	107.0	92.9	85.0	76.9			
115	-	93.5	94.1	95.1	96.8	96.2	98.2	97.1	90.9	81.8	75.5	92.9	94.6	95.5	97.4	96.8	99.0	97.6	90.3	82.6	75.0			
	B	196.0	168.0	142.0	125.0	117.0	103.0	102.0	90.9	82.0	75.5	199.0	171.0	145.0	127.0	118.0	104.0	103.0	90.4	82.6	75.0			
120	-	87.2	88.1	89.2	90.7	90.1	92.0	91.0	88.3	79.4	73.0	86.9	88.3	89.4	91.1	90.6	92.7	91.5	88.0	80.3	73.2			
	B	191.0	164.0	138.0	122.0	113.0	101.0	98.9	88.5	79.6	73.0	193.0	167.0	141.0	124.0	115.0	102.0	100.0	88.1	80.3	73.2			
125	-	81.8	82.5	83.5	85.1	84.5	86.4	85.5	85.8	77.2	70.8	81.2	82.5	83.7	85.5	84.9	86.9	85.9	85.5	78.1	71.4			
	B	185.0	160.0	135.0	119.0	110.0	98.0	96.0	86.1	77.3	70.8	188.0	163.0	137.0	121.0	111.0	99.0	97.3	85.8	78.1	71.4			
130	-	76.7	77.2	78.4	79.9	79.5	81.2	80.3	82.4	75.1	68.9	76.0	77.4	78.5	80.1	79.8	81.6	80.7	81.9	75.9	69.6			
	B	180.0	156.0	131.0	117.0	107.0	95.5	93.1	83.9	75.1	68.9	183.0	159.0	133.0	118.0	109.0	96.6	94.5	83.6	75.9	69.6			
135	-	71.9	72.6	73.7	75.0	74.7	76.6	75.8	77.6	73.0	67.0	71.3	72.5	73.6	75.4	75.0	76.9	75.9	77.4	73.9	67.7			
	B	175.0	153.0	128.0	114.0	104.0	93.2	90.5	81.7	73.0	67.0	179.0	156.0	130.0	116.0	106.0	94.4	91.8	81.5	73.9	67.7			
140	-	67.7	68.2	69.2	70.7	70.4	72.0	71.4	73.3	71.1	65.1	66.8	68.2	69.3	70.7	70.5	72.4	71.7	72.9	71.9	65.9			
	B	171.0	150.0	125.0	111.0	101.0	91.0	88.1	79.6	71.1	65.1	174.0	152.0	127.0	113.0	103.0	92.3	89.4	79.5	72.0	65.9			
145	-	63.6	64.2	65.3	66.5	66.3	68.0	67.4	69.3	68.6	63.3	62.9	64.1	65.1	66.7	66.4	68.2	67.4	68.9	69.3	64.1			
	B	167.0	147.0	122.0	109.0	99.0	88.0	80.2	75.7	69.4	61.2	63.3	170.0	149.0	124.0	111.0	100.0	90.2	87.0	77.6	70.1	64.1		
150	-	59.9	60.5	61.5	62.8	62.6	64.2	63.6	65.4	65.3	61.5	59.1	60.2	61.4	62.8	62.6	64.3	63.7	65.0	65.5	62.3			
	B	163.0	144.0	119.0	107.0	96.5	87.0	83.5	75.9	67.5	61.5	166.0	146.0	121.0	108.0	98.0	88.3	84.8	75.7	68.2	62.4			
155	-	56.5	57.0	58.0	59.3	59.1	60.6	60.1	61.9	61.7	59.5	55.6	56.7	57.8	59.2	59.0	60.7	60.1	61.4	62.0	60.5			
	B	160.0	141.0	117.0	105.0	94.2	85.2	81.4	74.1	65.8	59.9	162.0	144.0	118.0	106.0	95.7	86.5	82.7	74.0	66.7	60.7			
160	-	53.3	53.7	54.8	55.9	55.8	57.3	56.8	58.6	58.4	53.8	52.4	53.4	54.6	55.9	55.8	57.3	56.9	58.0	58.5	57.8			
	B	156.0	138.0	114.0	103.0	92.0	83.5	79.4	72.4	64.2	58.3	159.0	141.0	116.0	104.0	93.5	84.6	80.7	72.4	65.1	59.2			
165	-	50.2	50.7	51.7	52.9	52.8	54.1	53.8	55.5	55.3	56.2	49.3	50.3	51.5	52.7	52.6								

				286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
						330,700 lb – 463,000 lb
						66,100 lb – 264,600 lb

SL4 217												SL4 226																								
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138													
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°												
210	-	30.2	30.4	31.4	32.1	32.3	33.3	33.3	34.5	34.6	35.7	29.0	29.7	30.8	31.6	31.8	32.9	32.9	33.6	34.3	34.2															
	B	130.0	119.0	94.2	87.1	75.1	69.9	63.8	59.5	51.6	46.1	132.0	121.0	96.1	88.6	76.6	70.9	65.0	59.6	52.6	46.8															
215	-	28.7	30.4	30.6	31.5	31.6	32.8	32.8	33.9	33.9	34.1	27.4	28.0	29.0	29.9	30.0	31.1	31.2	31.9	32.5	32.5															
	B	117.0	92.7	86.0	73.8	68.9	62.6	58.4	50.7	45.1	130.0	119.0	94.6	87.5	75.3	69.9	63.8	58.5	51.7	45.9																
220	-	28.1	28.8	29.0	29.9	30.0	31.1	31.1	32.2	32.2	32.8	26.4	27.4	28.2	28.4	29.4	29.5	30.2	30.8	30.8																
	B	91.3	84.9	72.7	67.8	61.5	57.5	49.7	44.2	128.0	118.0	93.1	86.4	74.0	68.8	62.6	57.5	50.7	45.0																	
225	-	26.5	27.2	27.4	28.3	28.4	29.5	29.5	30.6			25.8	26.6	26.8	27.8	27.9	28.5	29.2	29.2																	
	B	90.1	84.0	71.5	66.9	60.4	56.5	48.8	43.3	91.8	85.3	72.8	67.8	61.5	56.6	49.8	44.2																			
230	-	25.1	25.7	25.9	26.8	26.9	28.0	28.0	29.1			24.4	25.1	25.3	26.3	26.4	27.0	27.6	27.6																	
	B	88.9	83.1	70.4	66.0	59.3	55.6	47.9	42.4	90.6	84.4	71.7	66.9	60.4	55.8	48.8	43.3																			
235	-					24.5	25.3	25.5	26.5	26.6	27.6			23.0	23.7	23.9	24.8	25.0	25.5	26.2	26.2															
	B					69.4	65.1	58.2	54.7	47.1	41.6	89.4	83.4	70.6	66.0	59.3	54.9	48.0	42.4																	
240	-	23.2	23.9	24.2	25.1	25.2	26.2	26.2			21.7	22.3	22.5	23.4	23.6	24.1	24.7	24.8																		
	B	68.4	64.3	57.3	54.0	46.3	40.8	88.3	82.5	69.6	65.1	58.3	54.0	47.1	41.6																					
245	-	21.9	22.6	22.8	23.8	23.9	24.9					21.3	22.1	22.2	22.8	23.4	23.5																			
	B	67.4	63.5	56.4	53.2	45.5	40.1	52.9	50.5	42.7	37.3	68.6	64.3	57.4	53.3	46.3	40.8																			
250	-	21.5	21.7	22.5	22.6	23.6						20.3	21.0	21.2	21.6	22.2	22.2																			
	B	62.8	55.5	52.4	44.8	39.4	52.8	55.5	52.4	44.8	39.4	67.6	63.7	56.5	52.5	45.5	40.1	54.8	51.1	44.1	38.7															
255	-					20.7	21.4	21.5	22.4			19.3	19.9	20.2	20.6	20.6	21.1	21.2																		
	B					54.6	51.8	44.1	38.7	66.7	63.0	55.6	51.8	44.8	39.4																					
260	-					19.7	20.4	20.5	21.4					19.2	19.6	20.1	20.1																			
	B					53.7	51.1	43.4	38.0	52.9	50.5	42.7	37.3	18.2	18.6	19.1	19.2	54.0	50.5	43.5	38.0															
265	-					18.8	19.5	19.6	20.4					17.3	17.7	18.2	18.3	53.2	49.9	42.8	37.4															
	B					52.9	50.5	42.7	37.3	52.9	50.5	42.7	37.3	16.8	17.3	17.4	17.4	49.3	42.2	36.8																
270	-							18.7	19.5																											
	B							42.1	36.7	52.9	50.5	42.7	37.3	52.9	50.5	42.7	37.3	16.4	16.6	41.7	36.2															
275	-							17.8	18.6																											
	B							41.5	36.1	52.9	50.5	42.7	37.3	52.9	50.5	42.7	37.3	15.6	15.7	41.1	35.6															
280	-							16.9	17.8																											
	B							40.9	35.5	52.9	50.5	42.7	37.3	52.9	50.5	42.7	37.3	14.8	15.0	40.6	35.0															
285	-							16.1	17.0																											
	B							40.4	34.9	52.9	50.5	42.7	37.3	52.9	50.5	42.7	37.3	14.2	14.5	34.5	34.0															
290	-								16.2																											
	B								34.4																											
295	-								15.4																											
	B								33.8																											
300	-								14.7																											
	B								33.3																											
305	-									32.9																										
310	-																																			
315	-																																			

	177–433 ft		98 ft		39–138 ft		88,200 lb		286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
											330,700 lb – 463,000 lb
											66,100 lb – 264,600 lb

ft	SL4 236												SL4 246														
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138				
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°			
-	268.0												266.0														
45	B	270.0											266.0														
50	B	250.0	251.0										267.0	253.0													
55	B	271.0	253.0	226.0	229.0	216.0							267.0	253.0													
60	B	271.0	236.0	206.0	208.0	205.0	174.0	171.0	152.0				246.0	237.0	208.0	174.0	171.0										
65	B	270.0	229.0	189.0	191.0	188.0	168.0	165.0	140.0	147.0			226.0	227.0	201.0	169.0	165.0	140.0	146.0								
70	B	267.0	221.0	174.0	175.0	173.0	163.0	159.0	135.0	141.0	118.0		208.0	210.0	194.0	164.0	159.0	136.0	141.0	119.0							
75	B	261.0	215.0	160.0	162.0	158.0	153.0	131.0	136.0	116.0	107.0	93.8	193.0	195.0	187.0	159.0	154.0	132.0	136.0	115.0	107.0	93.6					
80	B	252.0	208.0	148.0	150.0	149.0	151.0	147.0	127.0	131.0	113.0	103.0	91.7	179.0	181.0	179.0	154.0	149.0	128.0	131.0	112.0	103.0	91.5				
85	B	244.0	203.0	138.0	139.0	141.0	138.0	124.0	126.0	110.0	99.7	89.5	167.0	169.0	167.0	150.0	144.0	124.0	127.0	108.0	99.9	89.5					
90	B	236.0	197.0	128.0	130.0	129.0	132.0	129.0	120.0	122.0	106.0	96.5	87.2	156.0	158.0	156.0	146.0	139.0	121.0	123.0	105.0	96.8	87.3				
95	B	229.0	192.0	120.0	121.0	121.0	123.0	120.0	117.0	117.0	103.0	93.5	84.8	146.0	148.0	147.0	142.0	135.0	117.0	119.0	102.0	93.9	85.1				
100	B	222.0	187.0	112.0	113.0	113.0	113.0	113.0	100.0	100.0	90.7	82.2	137.0	138.0	138.0	138.0	131.0	114.0	115.0	99.4	91.2	82.6					
105	B	215.0	182.0	105.0	106.0	106.0	108.0	106.0	109.0	106.0	97.4	87.9	79.6	129.0	130.0	130.0	132.0	127.0	111.0	112.0	96.6	88.6	80.1				
110	B	209.0	177.0	97.3	98.3	99.2	101.0	99.9	102.0	99.0	94.8	85.4	77.1	121.0	122.0	122.0	125.0	122.0	109.0	108.0	94.2	86.0	77.5				
115	B	203.0	173.0	90.8	91.7	92.6	94.4	93.7	96.0	94.3	92.1	83.0	75.1	113.0	114.0	115.0	117.0	116.0	106.0	105.0	91.7	83.6	75.5				
120	B	197.0	169.0	84.6	85.5	86.5	88.2	87.7	89.8	88.6	89.3	80.7	73.4	106.0	107.0	108.0	110.0	109.0	103.0	102.0	89.5	81.3	73.8				
125	B	192.0	165.0	79.1	80.0	81.1	82.6	82.1	84.2	83.1	85.5	78.5	71.6	195.0	168.0	140.0	123.0	114.0	101.0	101.0	99.3	87.3	79.1	72.1			
130	B	187.0	161.0	74.1	74.7	75.8	77.6	77.0	78.9	78.0	80.3	76.5	69.9	93.3	94.2	95.4	97.1	96.5	97.7	96.0	85.1	77.1	70.5				
135	B	183.0	158.0	69.3	70.1	71.2	72.6	72.4	74.2	73.3	75.5	74.5	68.2	87.9	88.5	89.7	91.6	90.9	93.0	91.8	83.0	75.2	68.8				
140	B	178.0	155.0	65.1	65.7	66.7	68.4	67.9	69.9	69.0	71.1	70.8	66.4	82.7	83.5	84.7	86.3	86.0	87.8	86.9	81.1	73.3	67.0				
145	B	174.0	151.0	61.0	61.7	62.8	64.2	64.0	65.7	65.1	67.0	66.8	64.7	78.1	78.7	79.8	81.5	81.1	83.2	82.3	79.1	71.6	65.3				
150	B	170.0	148.0	57.4	58.0	59.0	60.5	60.2	62.0	61.2	63.3	63.0	63.0	73.6	74.3	75.5	77.0	76.8	78.5	77.9	77.0	69.9	63.7				
155	B	166.0	146.0	53.9	54.4	55.6	56.9	56.8	58.3	57.9	59.7	59.6	60.5	69.6	70.2	71.4	72.9	72.5	74.5	73.8	74.1	68.1	62.0				
160	B	163.0	143.0	50.7	51.3	52.3	53.6	53.4	55.1	54.5	56.5	56.3	57.5	65.8	66.3	67.6	69.0	68.8	70.4	70.0	71.2	66.5	60.4				
165	B	159.0	141.0	47.7	48.2	49.3	50.6	50.5	51.9	51.6	53.3	52.2	54.5	62.2	62.8	64.0	65.4	65.1	66.9	66.3	67.7	65.0	58.9				
170	B	156.0	138.0	44.9	45.3	46.5	47.7	47.5	49.1	48.6	50.4	50.3	51.4	59.0	59.4	60.6	62.0	61.9	63.4	63.0	64.1	63.1	57.5				
175	B	153.0	136.0	42.2	42.7	43.8	45.0	44.9	46.3	46.0	47.7	47.5	48.8	55.8	56.3	57.5	58.7	58.6	60.3	59.8	61.0	60.9	56.1				
180	B	150.0	134.0	39.8	40.2	41.3	42.4	42.4	43.8	43.4	45.1	45.1	46.2	52.9	53.4	54.5	55.8	55.7	57.2	56.9	57.9	58.6	54.9				
185	B	147.0	132.0	37.4	37.8	38.9	40.0	40.0	41.3	41.1	42.7	42.6	43.8	50.2	50.6	51.8	52.9	52.9	54.4	54.0	55.1	55.8	53.7				
190	B	145.0	130.0	35.3	35.6	36.7	37.8	37.8	39.1	38.8	40.4	40.4	41.5	47.5	48.0	49.1	50.3	50.3	51.7	51.5	52.4	53.0	51.9				
195	B	142.0	128.0	33.2	33.5	34.6	35.6	35.6	36.9	36.8	38.2	38.2	39.3	45.1	45.5	46.6	47.8	47.8	49.2	48.9	49.9	50.6	50.1				
200	B	140.0	126.0	31.2	31.5	32.6	33.6	33.6	34.8	34.7	36.2	36.2	37.3	42.8	43.1	44.3	45.3	45.4	46.7	46.6	47.5	48.1	48.0				
205	B	137.0	124.0	29.4	29.7	30.7	31.7	31.7	32.9	32.8	34.2	34.2	35.3	40.6	40.9	42.0	43.1	43.2	44.5	44.3	45.2	45.9	45.8				

 177–433 ft	 98 ft	 39–138 ft	 88,200 lb	 286,600 lb – 374,800 lb	 529,100 lb – 617,300 lb	 330,700 lb – 463,000 lb	 66,100 lb – 264,600 lb
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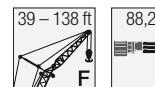
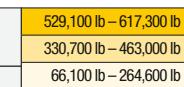
 ft	SL4 236												SL4 246																
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138						
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°					
210	-	27.6	27.9	28.9	29.8	29.9	31.0	31.0	32.4	32.4	33.5	38.5	38.8	39.9	40.9	41.0	42.3	42.2	43.0	43.7	43.6								
	B	135.0	123.0	98.0	90.0	77.9	71.9	66.2	61.4	53.3	47.5	138.0	125.0	99.9	91.5	79.3	73.1	67.3	61.4	54.1	48.3								
215	-	26.0	26.2	27.2	28.1	28.2	29.3	29.3	30.6	30.6	31.7	36.6	36.8	37.9	38.9	39.0	40.2	40.1	41.0	41.6	41.6								
	B	133.0	121.0	96.4	88.8	76.6	70.9	64.9	60.3	52.3	46.5	136.0	123.0	98.4	90.3	78.0	72.0	66.1	60.4	53.1	47.3								
220	-	24.4	24.6	25.6	26.5	26.6	27.6	27.7	29.0	29.0	30.1	34.7	34.9	36.0	37.0	37.0	38.3	38.2	39.0	39.7	39.6								
	B	131.0	120.0	95.0	87.7	75.3	69.9	63.7	59.3	51.4	45.6	134.0	121.0	96.8	89.1	76.8	70.9	64.9	59.4	52.1	46.4								
225	-	22.9	23.1	24.1	24.9	25.0	26.0	26.1	27.3	27.4	28.4	32.9	33.1	34.2	35.1	35.2	36.3	36.4	37.1	37.8	37.8								
	B	130.0	119.0	93.6	86.6	74.1	68.8	62.6	58.3	50.5	44.7	132.0	120.0	95.4	88.0	75.5	70.0	63.7	58.4	51.3	45.5								
230	-	21.8	22.6	23.4	23.5	24.5	24.6	25.8	25.9	26.9	31.2	31.4	32.5	33.3	33.5	34.6	34.6	35.3	36.0	36.0									
	B	117.0	92.2	85.5	73.0	67.9	61.5	57.4	49.5	43.9	130.0	119.0	94.0	86.9	74.3	69.0	62.6	57.5	50.4	44.6									
235	-			21.4	22.0	22.2	23.1	23.2	24.4	24.4	25.4	29.6	29.8	30.8	31.6	31.8	32.9	32.9	33.6	34.3	34.3								
	B			91.0	84.6	71.8	67.0	60.5	56.5	48.6	43.1	128.0	118.0	92.6	85.9	73.2	68.0	61.6	56.6	49.5	43.8								
240	-			20.3	20.8	21.0	21.8	22.0	23.0	23.1	24.1					29.2	30.0	30.2	31.2	31.3	32.0	32.7							
	B			89.8	83.7	70.8	66.1	59.4	55.7	47.8	42.3					91.5	85.0	72.1	67.1	60.5	55.8	48.7	43.0						
245	-			19.2	19.7	19.9	20.7	20.8	21.8	21.8	22.7					27.7	28.5	28.7	29.7	29.8	30.4	31.1							
	B			88.7	82.9	69.7	65.3	58.5	54.8	47.1	41.5					90.3	84.1	71.0	66.3	59.5	55.0	47.9	42.2						
250	-					18.9	19.6	19.8	20.6	20.7	21.6					26.3	27.0	27.2	28.2	28.3	28.9	29.6	29.7						
	B					68.7	64.5	57.5	54.1	46.3	40.8					89.2	83.2	70.0	65.5	58.6	54.2	47.2	41.4						
255	-					17.9	18.5	18.8	19.6	19.7	20.5					24.9	25.6	25.8	26.7	27.0	27.5	28.2	28.2						
	B					67.8	63.8	56.6	53.3	45.6	40.1					88.2	82.5	69.0	64.7	57.7	53.4	46.4	40.7						
260	-					16.9	17.6	17.8	18.6	18.7	19.5							24.5	25.4	25.6	26.1	26.8	26.9						
	B					66.9	63.2	55.7	52.6	44.9	39.4							68.1	64.0	56.9	52.7	45.7	40.0						
265	-					16.0	16.6	16.9	17.6	17.7	18.6							23.2	24.0	24.3	24.8	25.5	25.6						
	B					66.1	62.5	54.9	51.9	44.2	38.7							67.3	63.3	56.0	52.1	45.0	39.3						
270	-							16.0	16.7	16.8	17.7							22.1	22.8	23.1	23.5	24.2	24.3						
	B							54.1	51.3	43.6	38.0							66.5	62.6	55.2	51.4	44.3	38.7						
275	-							15.1	15.8	16.0	16.8								21.7	21.9	22.4	23.0	23.1						
	B							53.4	50.7	43.0	37.4								62.0	54.4	50.8	43.7	38.1						
280	-							14.3	15.0	15.1	15.9								21.0	21.3	21.9	22.0							
	B							52.7	50.1	42.3	36.8								53.7	50.2	43.1	37.5							
285	-										14.3	15.1							20.0	20.4	20.9	21.0							
	B										41.8	36.2							53.0	49.7	42.5	36.9							
290	-										13.5	14.3								19.4	20.0	20.1							
	B										41.3	35.7								49.2	41.9	36.4							
295	-										12.7	13.6									19.1	19.2							
	B										40.8	35.1									41.4	35.8							
300	-										12.0	12.8									18.2	18.4							
	B										40.3	34.6									40.9	35.3							
305	-											12.1									17.4	17.5							
	B											34.1									40.4	34.8							
310	-											11.4										16.7							
	B											33.7										34.3							
315	-											10.8										16.0							
	B											33.2										33.8							
320	-																				15.2								
	B																				33.4								

			286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
			330,700 lb – 463,000 lb		66,100 lb – 264,600 lb

ft	SL4 256												SL4 266													
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138			
	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
-	258.0										256.0	252.0														
45	B	258.0									256.0	252.0														
50	B	259.0	252.0								256.0	252.0														
55	B	259.0	253.0								250.0	245.0	211.0													
60	B	256.0	245.0	213.0							256.0	245.0	211.0													
65	B	234.0	235.0	207.0	174.0	158.0					233.0	235.0	206.0	174.0	170.0											
70	B	262.0	237.0	207.0	174.0	158.0					257.0	238.0	206.0	174.0	170.0											
75	B	220.0	221.0	201.0	169.0	158.0	139.0	144.0			219.0	216.0	201.0	169.0	165.0											
80	B	262.0	230.0	201.0	169.0	158.0	140.0	144.0			258.0	231.0	201.0	169.0	165.0											
85	B	202.0	204.0	194.0	164.0	157.0	135.0	140.0	119.0		202.0	204.0	195.0	164.0	159.0	135.0	140.0									
90	B	226.0	217.0	188.0	159.0	154.0	131.0	136.0	116.0	106.0	92.3	187.0	188.0	187.0	160.0	154.0	131.0	136.0	116.0	106.0	91.9					
95	B	187.0	189.0	186.0	159.0	154.0	131.0	136.0	116.0	106.0	92.4	259.0	219.0	189.0	160.0	154.0	132.0	136.0	116.0	106.0	91.9					
100	B	256.0	211.0	182.0	155.0	151.0	128.0	131.0	113.0	103.0	90.6	173.0	175.0	174.0	155.0	149.0	128.0	132.0	113.0	103.0	90.2					
105	B	174.0	176.0	174.0	155.0	150.0	128.0	131.0	113.0	103.0	90.6	151.0	152.0	151.0	147.0	141.0	122.0	124.0	107.0	97.0	86.7					
110	B	248.0	206.0	177.0	151.0	146.0	124.0	127.0	110.0	99.7	88.9	250.0	207.0	178.0	152.0	145.0	125.0	127.0	110.0	99.9	88.5					
115	B	151.0	153.0	152.0	147.0	141.0	121.0	123.0	107.0	96.8	86.8	151.0	152.0	151.0	147.0	141.0	122.0	124.0	107.0	97.0	86.7					
120	B	241.0	200.0	172.0	147.0	141.0	121.0	123.0	107.0	96.8	86.8	243.0	202.0	173.0	148.0	141.0	122.0	124.0	107.0	97.0	86.7					
125	B	142.0	143.0	142.0	143.0	137.0	118.0	119.0	104.0	93.9	84.7	141.0	142.0	142.0	143.0	136.0	118.0	120.0	104.0	94.1	84.7					
130	B	234.0	195.0	167.0	143.0	137.0	118.0	119.0	104.0	93.9	84.7	236.0	197.0	168.0	144.0	137.0	118.0	120.0	104.0	94.1	84.7					
135	B	133.0	134.0	134.0	136.0	133.0	115.0	116.0	101.0	91.3	82.5	132.0	134.0	133.0	136.0	132.0	115.0	116.0	102.0	91.6	82.7					
140	B	227.0	191.0	162.0	140.0	133.0	115.0	116.0	101.0	91.3	82.5	230.0	192.0	163.0	141.0	133.0	115.0	116.0	102.0	91.6	82.7					
145	B	125.0	126.0	126.0	128.0	127.0	112.0	112.0	112.0	98.2	88.8	80.1	124.0	125.0	125.0	128.0	125.0	113.0	113.0	98.9	89.1	80.4				
150	B	220.0	186.0	158.0	136.0	130.0	112.0	112.0	112.0	98.5	88.8	80.1	223.0	188.0	159.0	137.0	129.0	113.0	113.0	99.0	89.1	80.4				
155	B	117.0	119.0	119.0	121.0	120.0	109.0	109.0	95.8	86.3	77.7	117.0	118.0	118.0	120.0	118.0	110.0	110.0	96.4	86.7	78.1					
160	B	214.0	182.0	154.0	133.0	126.0	109.0	109.0	96.0	86.3	77.7	217.0	183.0	155.0	134.0	126.0	110.0	110.0	96.5	86.7	78.1					
165	B	110.0	111.0	112.0	114.0	113.0	107.0	106.0	93.6	84.0	75.6	110.0	111.0	111.0	114.0	112.0	107.0	107.0	94.1	84.4	75.9					
170	B	208.0	177.0	150.0	130.0	123.0	107.0	106.0	93.6	84.0	75.6	211.0	179.0	151.0	132.0	122.0	107.0	107.0	94.2	84.4	75.9					
175	B	103.0	104.0	105.0	107.0	107.0	107.0	103.0	91.3	81.8	73.9	103.0	104.0	105.0	107.0	106.0	105.0	105.0	104.0	91.8	82.3	74.2				
180	B	203.0	173.0	146.0	127.0	120.0	104.0	103.0	91.3	81.8	73.9	206.0	175.0	147.0	129.0	119.0	105.0	105.0	104.0	91.9	82.3	74.2				
185	B	96.5	97.5	98.4	100.0	100.0	101.0	99.3	89.1	79.7	72.3	96.6	97.4	98.5	100.0	99.8	102.0	100.0	99.6	89.6	80.2	72.6				
190	B	198.0	169.0	142.0	125.0	116.0	102.0	100.0	89.1	79.7	72.3	201.0	172.0	144.0	126.0	116.0	103.0	101.0	99.7	89.2	80.2	72.6				
195	B	90.7	91.4	92.6	94.3	94.4	95.9	94.8	87.1	77.6	70.7	90.4	91.5	92.5	94.4	93.9	96.2	94.9	87.6	78.2	71.1					
200	B	193.0	166.0	139.0	122.0	114.0	99.5	97.6	87.1	77.6	70.7	196.0	168.0	140.0	123.0	114.0	100.0	98.6	87.7	78.2	71.1					
205	B	85.1	86.0	87.2	88.8	89.0	90.3	89.3	85.0	85.0	75.7	69.1	85.1	85.9	87.2	88.8	88.3	90.6	89.6	85.6	76.4	69.6				
210	B	188.0	162.0	135.0	119.0	111.0	97.3	95.0	85.0	85.0	75.7	69.1	191.0	165.0	137.0	120.0	111.0	98.3	96.1	85.7	76.4	69.6				
215	B	80.2	80.9	82.0	83.7	84.0	85.2	84.2	83.0	73.9	67.4	79.9	80.8	82.0	83.8	83.2	85.4	84.5	83.5	83.5	76.9	67.7				
220	B	184.0	159.0	132.0	117.0	108.0	95.2	92.5	83.1	73.9	67.4	187.0	161.0	134.0	118.0	108.0	96.2	93.6	83.8	74.5	67.9					
225	B	75.5	76.3	77.4	79.0	79.3	80.5	79.6	81.0	72.1	65.8	75.3	76.0	77.3	78.9	78.7	80.6	79.7	81.2	72.8	66.3					
230	B	180.0	156.0	129.0	115.0	105.0	93.2	90.0	81.2	72.1	65.8	183.0	158.0	131.0	116.0	105.0	94.1	91.3	81.9	72.8	66.3					
235	B	71.3	71.9	73.0	74.6	74.9	76.2	75.5	77.4	70.4	64.1	70.9	71.6	72.8	74.6	74.2	76.3	75.4	77.6	71.1	64.7					
240	B	176.0	153.0	126.0	112.0	103.0	91.3	87.9	79.3	70.4	64.1	179.0	155.0	128.0	114.0	103.0	92.2	89.0	80.1	71.1	64.7					
245	B	67.2	67.8	69.0	70.5	70.9	72.0	71.3	73.4	68.8	62.5	66.9	67.5	68.8	70.3	70.1	72.1	71.4	73.5	69.4	63.1					
250	B	173.0	150.0	124.0	110.0	101.0	89.5	85.8	77.6	68.8	62.5	175.0	152.0	125.0	112.0	101.0	90.4	86.9	78.4	69.4	63.1					
255	B	63.5	64.1	65.2	66.7	67.1	68.2	67.6	69.6	67.1	61.0	63.1	63.7	64.9	66.6	66.3	68.2	67.4	69.7	67.8	61.7					
260	B	169.0	148.0	121.0	108.0	98.5	87.7	83.9	75.9	67.2	61.0	172.0	150.0	123.0	110.0	98.7	88.6	84.9	84.9	76.8	67.8	61.7				



A ft	SL4 256										SL4 266													
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118			
	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
210	-	36.5	36.9	38.0	39.0	39.6	40.3	40.2	41.7	41.7	42.8	35.7	36.2	37.3	38.5	38.5	39.9	39.8	41.4	41.4	41.3			
	B	141.0	126.0	101.0	92.8	81.5	74.0	68.3	63.1	54.7	48.9	143.0	129.0	103.0	94.0	81.8	75.0	69.3	63.8	55.4	55.4	49.5		
215	-	34.6	34.9	36.0	37.0	37.6	38.3	38.2	39.7	39.7	40.7	33.8	34.2	35.3	36.4	36.5	37.8	37.7	39.3	39.4	39.3			
	B	139.0	125.0	99.9	91.6	80.1	72.9	67.1	62.1	53.8	47.9	141.0	127.0	101.0	92.8	80.5	73.9	68.0	62.9	54.4	54.4	48.5		
220	-	32.7	33.0	34.1	35.1	35.7	36.3	36.2	37.7	37.8	38.8	31.9	32.2	33.4	34.5	34.6	35.9	35.8	37.3	37.4	37.3			
	B	137.0	123.0	98.4	90.4	78.8	71.8	65.9	61.1	52.8	47.0	139.0	125.0	100.0	91.6	79.1	72.9	66.9	61.9	53.4	53.4	47.6		
225	-	31.0	31.3	32.3	33.2	33.9	34.5	34.5	35.8	35.9	36.9	30.1	30.5	31.6	32.6	32.7	34.0	33.9	35.5	35.5	35.5			
	B	135.0	122.0	96.9	89.3	77.6	70.8	64.8	60.1	51.9	46.1	137.0	124.0	98.5	90.5	77.9	71.9	65.7	61.0	52.6	52.6	46.7		
230	-	29.3	29.6	30.6	31.5	32.2	32.7	32.7	34.1	34.2	35.2	28.5	28.7	29.8	30.8	31.0	32.2	32.2	33.7	33.7	33.7			
	B	133.0	121.0	95.6	88.2	76.3	69.9	63.6	59.1	51.0	45.2	135.0	122.0	97.1	89.4	76.7	70.9	64.6	60.0	51.8	51.8	45.8		
235	-	27.7	27.9	28.9	29.8	30.5	31.1	31.1	32.4	32.5	33.5	26.8	27.1	28.2	29.2	29.3	30.5	30.5	32.0	32.0	32.0			
	B	131.0	119.0	94.2	87.2	75.2	69.0	62.6	58.2	50.2	44.4	133.0	121.0	95.8	88.4	75.6	70.0	63.5	59.1	51.0	51.0	45.0		
240	-	26.2	26.4	27.4	28.2	28.9	29.4	29.5	30.8	30.9	31.9	25.3	25.5	26.6	27.5	27.7	28.9	28.9	30.3	30.4	30.4			
	B	129.0	118.0	92.9	86.2	74.1	68.1	61.6	57.4	49.4	43.6	132.0	120.0	94.6	87.3	74.4	69.1	62.5	58.2	50.2	50.2	44.2		
245	-	24.7	24.9	25.9	26.7	27.4	27.9	28.0	29.2	29.3	30.3	23.8	24.1	25.1	26.0	26.2	27.3	27.3	28.7	28.8	28.9			
	B	127.0	117.0	91.7	85.2	73.0	67.3	60.6	56.6	48.6	42.8	130.0	119.0	93.3	86.4	73.4	68.2	61.6	57.4	49.3	49.3	43.5		
250	-	24.5	25.3	26.0	26.4	26.6	27.8	27.8	28.8	28.8	22.5	22.7	23.6	24.5	24.7	25.8	25.9	27.2	27.3	27.4				
	B	90.5	84.3	71.9	66.4	59.6	55.8	47.8	42.1	128.0	118.0	92.0	85.4	72.4	67.4	60.6	56.6	48.5	42.7					
255	-	23.1	23.9	24.6	25.0	25.2	26.3	26.4	27.4			22.4	23.1	23.3	24.4	24.5	25.8	25.9	25.9	25.9	25.9			
	B	89.4	83.5	70.9	65.6	58.7	55.0	47.0	41.3			90.9	84.4	71.4	66.6	59.7	55.9	47.8	42.0					
260	-	21.9	22.5	23.2	23.6	23.8	24.9	24.9	25.1	26.0		21.2	21.8	22.0	23.0	23.2	24.4	24.5	24.6	24.6	24.6			
	B	88.4	82.7	69.9	64.9	57.8	54.3	46.3	40.6			89.8	83.7	70.4	65.8	58.8	55.1	47.1	41.3					
265	-	21.4	22.0	22.4	22.6	23.6	23.7	23.7	24.7			20.1	20.7	20.9	21.8	21.9	23.1	23.2	23.3	23.3	23.3			
	B	82.0	69.1	64.2	56.9	53.6	45.7	39.9				88.7	82.9	69.5	65.1	57.9	54.4	46.4	40.6					
270	-	21.0	21.3	21.5	22.4	22.6	23.5					19.1	19.7	19.9	20.7	20.9	21.8	22.0	22.1	22.1	22.1			
	B	68.2	63.5	56.1	52.9	45.0	39.3					87.7	82.2	68.6	64.4	57.1	53.7	45.7	40.0					
275	-	20.0	20.2	20.5	21.3	21.4	22.3						18.9	19.6	19.9	20.8	20.9	21.0	21.0	21.0	21.0	21.0		
	B	67.4	62.9	55.3	52.3	44.4	38.6						67.8	63.7	56.3	53.0	45.0	40.3						
280	-	19.0	19.3	19.5	20.3	20.5	21.3						17.9	18.6	18.9	19.8	19.9	20.0	20.0	20.0	20.0	20.0		
	B	66.6	62.3	54.6	51.7	43.8	38.0						66.9	63.1	55.5	52.4	44.4	38.7						
285	-	18.6	19.4	19.5	20.3	20.5	21.3						17.0	17.7	17.9	18.8	18.9	19.1	19.1	19.1	19.1	19.1		
	B	53.9	51.1	43.2	37.4								66.2	62.5	54.7	51.7	43.8	38.1						
290	-	17.7	18.5	18.6	19.4								16.7	17.0	17.9	18.0	18.2							
	B	53.2	50.5	42.6	36.8								61.9	54.0	51.2	43.3	37.5							
295	-	16.9	17.6	17.7	18.5									16.2	17.0	17.1	17.3							
	B	52.5	50.0	42.0	36.3									53.3	50.7	42.7	37.0							
300	-		16.7	16.9	17.7									15.3	16.1	16.2	16.4							
	B		49.5	41.5	35.8									52.7	50.2	42.1	36.4							
305	-			16.0	16.8										15.3	15.4	15.6							
	B			41.0	35.2										49.7	41.6	35.9							
310	-			15.2	16.0											14.6	14.8							
	B			40.5	34.8											41.1	35.4							
315	-			14.5	15.3											13.8								
	B			40.1	34.3											13.1								
320	-				14.5											33.9								
	B				33.9											13.8								
325	-					33.4										13.1								
	B					33.0										33.0								
330	-						13.1										11.9							
	B						33.0										33.6							
335	-							11.1									11.1							
	B							33.1									33.1							

 177–433 ft	 98 ft	 39–138 ft	 88,200 lb	286,600 lb – 374,800 lb	 529,100 lb – 617,300 lb	330,700 lb – 463,000 lb	 66,100 lb – 264,600 lb
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 ft	SL4 276												SL4 285													
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138			
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
50	-	246.0											242.0													
	B	246.0											242.0													
55	-	244.0	241.0	204.0									242.0	238.0												
	B	247.0	241.0	204.0									243.0	238.0												
60	-	227.0	226.0	202.0	173.0								231.0	228.0	200.0											
	B	248.0	237.0	202.0	173.0								243.0	236.0	200.0											
65	-	213.0	210.0	200.0	168.0	158.0		140.0					212.0	214.0	199.0	168.0	164.0		138.0							
	B	248.0	231.0	201.0	169.0	158.0		140.0					244.0	231.0	200.0	168.0	164.0		138.0							
70	-	196.0	198.0	192.0	164.0	158.0	135.0	137.0					196.0	197.0	194.0	164.0	159.0	135.0	136.0							
	B	249.0	225.0	195.0	164.0	158.0	135.0	137.0					244.0	225.0	195.0	164.0	159.0	135.0	136.0							
75	-	182.0	184.0	182.0	159.0	155.0	131.0	135.0	117.0	106.0			181.0	183.0	181.0	160.0	154.0	131.0	135.0	116.0						
	B	250.0	219.0	189.0	160.0	155.0	132.0	135.0	117.0	106.0			245.0	220.0	189.0	160.0	154.0	131.0	135.0	116.0						
80	-	169.0	171.0	169.0	156.0	151.0	128.0	131.0	113.0	103.0	89.1		168.0	170.0	169.0	156.0	150.0	128.0	131.0	113.0	102.0	88.6				
	B	249.0	213.0	184.0	156.0	151.0	128.0	131.0	113.0	103.0	89.1		245.0	214.0	184.0	156.0	150.0	128.0	132.0	113.0	102.0	88.6				
85	-	157.0	159.0	158.0	152.0	147.0	125.0	127.0	110.0	99.6	87.7		157.0	158.0	157.0	152.0	145.0	125.0	127.0	110.0	99.7	87.2				
	B	246.0	208.0	178.0	152.0	147.0	125.0	127.0	110.0	99.7	87.7		243.0	209.0	179.0	152.0	145.0	125.0	128.0	110.0	99.7	87.2				
90	-	147.0	148.0	147.0	148.0	143.0	122.0	124.0	107.0	96.8	86.1		146.0	148.0	147.0	148.0	141.0	122.0	124.0	107.0	96.9	85.8				
	B	242.0	203.0	173.0	148.0	143.0	122.0	124.0	107.0	96.8	86.1		241.0	204.0	174.0	149.0	141.0	122.0	124.0	107.0	96.9	85.8				
95	-	138.0	139.0	138.0	141.0	137.0	119.0	120.0	104.0	94.1	84.3		137.0	138.0	138.0	141.0	136.0	119.0	120.0	104.0	94.3	84.1				
	B	237.0	198.0	169.0	145.0	139.0	119.0	120.0	104.0	94.1	84.3		239.0	199.0	170.0	145.0	138.0	119.0	120.0	105.0	94.3	84.1				
100	-	129.0	130.0	130.0	132.0	131.0	116.0	116.0	102.0	91.6	82.4		128.0	130.0	129.0	132.0	129.0	116.0	117.0	102.0	91.7	82.4				
	B	231.0	193.0	164.0	141.0	135.0	116.0	117.0	102.0	91.6	82.4		233.0	195.0	165.0	142.0	134.0	116.0	117.0	102.0	91.8	82.4				
105	-	121.0	122.0	122.0	125.0	123.0	113.0	113.0	99.3	89.2	80.3		120.0	122.0	121.0	124.0	122.0	113.0	114.0	99.5	89.4	80.5				
	B	225.0	189.0	160.0	138.0	131.0	113.0	113.0	99.3	89.2	80.3		227.0	191.0	161.0	139.0	130.0	113.0	114.0	99.6	89.5	80.5				
110	-	114.0	115.0	115.0	117.0	116.0	110.0	110.0	96.8	86.9	78.2		113.0	114.0	114.0	117.0	115.0	111.0	111.0	97.1	87.2	78.4				
	B	219.0	185.0	156.0	135.0	128.0	110.0	110.0	96.8	86.9	78.2		221.0	187.0	157.0	136.0	127.0	111.0	111.0	97.1	87.2	78.4				
115	-	107.0	108.0	108.0	111.0	110.0	108.0	107.0	94.5	84.6	76.0		106.0	108.0	108.0	110.0	108.0	108.0	107.0	94.9	85.0	76.3				
	B	213.0	181.0	152.0	132.0	125.0	108.0	107.0	94.5	84.6	76.0		216.0	183.0	153.0	133.0	124.0	108.0	108.0	94.9	85.0	76.3				
120	-	101.0	102.0	102.0	105.0	104.0	105.0	103.0	92.3	82.5	74.2		100.0	101.0	102.0	104.0	102.0	105.0	103.0	92.8	82.9	74.3				
	B	208.0	177.0	148.0	130.0	121.0	106.0	105.0	92.3	82.6	74.2		210.0	179.0	150.0	130.0	121.0	106.0	105.0	92.8	82.9	74.3				
125	-	94.4	95.3	96.4	98.3	98.1	99.7	97.6	90.2	80.5	72.6		94.2	95.2	96.1	98.5	96.7	99.6	97.1	90.7	80.9	72.8				
	B	203.0	173.0	145.0	127.0	118.0	103.0	102.0	90.2	80.6	72.6		205.0	175.0	146.0	128.0	118.0	104.0	103.0	90.7	81.0	72.8				
130	-	88.6	89.5	90.4	92.3	92.5	94.0	92.4	88.1	78.6	71.1		88.5	89.2	90.5	92.5	91.6	94.2	92.1	88.6	79.0	71.4				
	B	198.0	170.0	141.0	124.0	116.0	101.0	99.3	88.2	78.7	71.1		200.0	171.0	143.0	125.0	115.0	102.0	100.0	88.7	79.0	71.4				
135	-	83.1	84.0	85.0	86.8	87.0	88.5	87.4	86.2	76.7	69.7		83.0	83.9	85.0	87.0	86.3	88.7	86.7	77.2	70.0					
	B	193.0	166.0	138.0	122.0	113.0	99.0	96.8	86.3	76.8	69.7		196.0	168.0	140.0	123.0	113.0	99.7	97.6	86.8	77.2	70.0				
140	-	78.2	79.0	80.2	81.8	82.0	83.4	82.3	84.2	74.9	68.1		77.9	78.6	79.9	81.8	81.3	83.6	82.5	84.0	75.5	68.5				
	B	189.0	163.0	135.0	119.0	110.0	97.0	94.4	84.4	75.0	68.1		191.0	165.0	137.0	120.0	110.0	97.7	95.2	85.0	75.5	68.5				
145	-	73.5	74.2	75.3	77.2	77.3	78.6	77.7	80.1	73.2	66.5		73.2	74.1	75.3	77.1	76.6	78.8	77.8	80.3	73.8	67.0				
	B	185.0	160.0	132.0	117.0	108.0	95.0	92.1	82.6	73.3	66.5		187.0	162.0	134.0	118.0	108.0	95.8	93.0	83.1	73.9	67.0				
150	-	69.3	70.0	71.1	72.6	73.1	74.2	73.4	75.7	71.4	65.0		68.9	69.5	70.8	72.7	72.3	74.3	73.4	75.8	72.1	65.5				
	B	181.0	157.0	129.0	115.0	105.0	93.0	89.9	80.8	71.6	65.0		184.0	159.0	131.0	116.0	105.0	93.9	90.8	81.4	72.2	65.5				
155	-	65.2	65.9	67.0	68.7	68.9	70.3	69.5	71.6	69.6	63.4		64.9	65.6	66.9	68.5	68.2	70.2	69.3	71.7	70.3	64.0				
	B	177.0	154.0	127.0	113.0	103.0	91.2	87.8	79.1	69.9	63.5		180.0	156.0	128.0	114.0	103.0	92.0	88.6	79.7	70.6					

177–433 ft	98 ft	39–138 ft	88,200 lb	286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
SL4	D	F			B	330,700 lb – 463,000 lb 66,100 lb – 264,600 lb

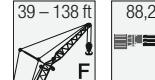
ft	SL4 276												SL4 285											
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°
215	-	32.7	33.0	34.1	35.2	35.9	36.5	36.4	38.0	37.9	39.0	31.9	32.3	33.5	34.6	34.6	36.1	35.9	37.7	37.7	37.5			
	B	144.0	129.0	103.0	93.9	82.5	74.8	69.0	63.5	55.1	49.0	146.0	130.0	104.0	95.0	82.6	75.6	69.9	64.3	55.8	49.6			
220	-	30.8	31.1	32.2	33.3	33.9	34.6	34.5	36.1	36.1	37.1	30.0	30.4	31.5	32.7	32.7	34.1	34.0	35.6	35.6	35.6			
	B	142.0	127.0	101.0	92.7	81.2	73.7	67.8	62.5	54.1	48.1	144.0	129.0	103.0	93.7	81.3	74.6	68.8	63.3	54.8	48.7			
225	-	29.0	29.4	30.4	31.5	32.1	32.8	32.7	34.2	34.2	35.2	28.2	28.5	29.7	30.9	30.9	32.3	32.1	33.8	33.8	33.7			
	B	140.0	126.0	99.9	91.5	79.9	72.7	66.6	61.6	53.2	47.3	142.0	127.0	101.0	92.5	80.0	73.6	67.6	62.3	53.9	47.8			
230	-	27.4	27.7	28.7	29.7	30.4	31.0	30.9	32.4	32.5	33.5	26.5	26.9	28.0	29.1	29.2	30.5	30.4	32.0	32.0	32.0			
	B	138.0	124.0	98.5	90.4	78.6	71.7	65.5	60.7	52.3	46.4	140.0	126.0	99.9	91.5	78.8	72.6	66.5	61.4	53.0	46.9			
235	-	25.8	26.0	27.1	28.1	28.8	29.3	29.3	30.7	30.8	31.7	24.9	25.2	26.4	27.4	27.5	28.8	28.7	30.3	30.3	30.3			
	B	136.0	123.0	97.2	89.3	77.5	70.7	64.4	59.8	51.5	45.6	138.0	124.0	98.5	90.5	77.5	71.7	65.5	60.6	52.2	46.2			
240	-	24.2	24.5	25.5	26.5	27.2	27.7	27.7	29.1	29.2	30.1	23.4	23.7	24.8	25.8	25.9	27.2	27.1	28.6	28.7	28.6			
	B	134.0	121.0	95.9	88.3	76.3	69.8	63.3	58.9	50.7	44.8	136.0	123.0	97.1	89.4	76.5	70.7	64.4	59.7	51.3	45.4			
245	-	22.8	23.1	24.1	25.0	25.6	26.2	26.2	27.6	27.6	28.6	22.0	22.3	23.3	24.3	24.3	25.6	25.6	27.1	27.1	27.1			
	B	132.0	120.0	94.7	87.3	75.3	69.0	62.4	58.1	49.9	44.0	134.0	122.0	95.9	88.4	75.4	69.9	63.3	58.9	50.6	44.7			
250	-	21.6	21.7	22.6	23.5	24.2	24.7	24.8	26.1	26.1	27.1	20.8	21.0	21.9	22.8	22.9	24.1	24.1	25.6	25.6	25.6			
	B	130.0	119.0	93.4	86.4	74.2	68.1	61.4	57.3	49.1	43.3	131.0	121.0	94.7	87.5	74.4	69.0	62.3	58.1	49.8	43.9			
255	-	20.4	20.6	21.4	22.2	22.8	23.3	23.4	24.7	24.7	25.7	19.6	19.8	20.7	21.5	21.6	22.7	22.7	24.1	24.2	24.2			
	B	128.0	118.0	92.2	85.6	73.2	67.3	60.5	56.5	48.4	42.6	128.0	119.0	93.5	86.6	73.3	68.2	61.4	57.3	49.1	43.2			
260	-	19.3	19.5	20.3	21.0	21.6	22.0	22.1	23.3	23.4	24.3	18.5	18.7	19.6	20.4	20.5	21.4	21.5	22.8	22.9	22.9			
	B	124.0	116.0	91.1	84.7	72.2	66.6	59.6	55.8	47.7	41.9	124.0	118.0	92.4	85.7	72.4	67.4	60.5	56.6	48.3	42.5			
265	-			19.2	19.9	20.5	20.9	21.0	22.0	22.2	23.1	17.5	17.7	18.5	19.3	19.4	20.3	20.4	21.5	21.6	21.6			
	B			90.1	84.0	71.3	65.8	58.8	55.1	47.0	41.2	120.0	117.0	91.3	84.9	71.4	66.6	59.6	55.9	47.6	41.8			
270	-			18.2	18.9	19.5	19.8	20.0	21.0	21.0	21.8			17.5	18.2	18.3	19.2	19.4	20.4	20.5	20.6			
	B			89.1	83.2	70.4	65.1	57.9	54.4	46.3	40.5			90.4	84.2	70.6	65.9	58.8	55.2	46.9	41.1			
275	-			17.3	17.9	18.5	18.8	19.0	19.9	20.0	20.8			16.5	17.2	17.3	18.2	18.4	19.4	19.5	19.5			
	B			88.1	82.5	69.5	64.4	57.1	53.8	45.6	39.9			89.5	83.5	69.7	65.2	58.0	54.5	46.3	40.4			
280	-			16.9	17.5	17.8	18.0	18.9	19.0	19.8			15.6	16.2	16.4	17.2	17.4	18.4	18.5	18.6				
	B			81.8	68.7	63.8	56.3	53.1	45.0	39.3			88.5	82.7	68.8	64.6	57.2	53.8	45.7	39.8				
285	-			16.6	16.9	17.1	18.0	18.1	18.1	18.9			14.6	15.3	15.5	16.2	16.4	17.4	17.5	17.6				
	B			67.8	63.2	55.6	52.5	44.4	38.7			87.7	82.1	68.0	63.9	56.4	53.2	45.0	39.2					
290	-			15.7	16.0	16.2	17.1	17.1	17.9					14.5	15.3	15.5	16.5	16.6	16.7					
	B			67.1	62.6	54.9	51.9	43.8	38.1					67.3	63.3	55.7	52.6	44.4	38.6					
295	-			14.8	15.1	15.3	16.2	16.3	17.0					13.7	14.5	14.7	15.6	15.7	15.8					
	B			66.4	62.0	54.2	51.3	43.3	37.5					66.6	62.8	54.9	52.0	43.9	38.1					
300	-					14.5	15.3	15.4	16.2					12.7	13.6	13.8	14.7	14.8	15.0					
	B					53.5	50.8	42.7	37.0					65.9	62.2	54.3	51.4	43.3	37.5					
305	-					13.7	14.5	14.6	15.4						12.6	13.0	13.9	14.0	14.1					
	B					52.9	50.2	42.2	36.4						61.7	53.7	50.9	42.7	37.0					
310	-					13.0	13.7	13.8	14.6							12.1	13.0	13.2	13.3					
	B					52.3	49.7	41.7	35.9							53.1	50.4	42.2	36.5					
315	-						12.9	13.0	13.8								11.2	12.2	12.4	12.6				
	B						49.2	41.2	35.4								52.5	49.9	41.7	36.0				
320	-							12.3	13.1								10.3	11.2	11.6	11.8				
	B							40.8	34.9								51.9	49.4	41.2	35.5				
325	-							11.6	12.4											10.8	11.1			
	B							40.3	34.5											40.8	35.1			
330	-							10.9	11.6											9.9	10.3			
	B							39.9	34.1											40.4	34.6			
335	-								10.9											9.0	9.5			
	B								33.7											39.9	34.2			
340	-								10.1											8.7				
	B								33.3											33.8				
345	-								9.3											7.9				
	B								32.9											33.4				
350	-																			7.1				
	B				</td																			



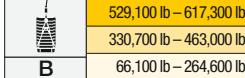
		SL4 295										SL4 305													
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
		10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
	-	231.0												226.0											
50	B	231.0												226.0											
	-	231.0	230.0											227.0	224.0										
55	B	232.0	230.0											227.0	224.0										
	-	225.0	222.0	192.0										219.0	220.0	188.0									
60	B	233.0	231.0	192.0										227.0	225.0	188.0									
	-	207.0	209.0	193.0	168.0	157.0		135.0	133.0					206.0	204.0	189.0	167.0	157.0							
65	B	233.0	229.0	193.0	168.0	157.0								228.0	225.0	189.0	167.0	157.0							
	-	191.0	193.0	190.0	164.0	157.0	135.0	133.0						190.0	192.0	187.0	163.0	156.0	134.0	131.0					
70	B	233.0	225.0	191.0	164.0	157.0	135.0	133.0						228.0	223.0	188.0	163.0	156.0	134.0	131.0					
	-	177.0	179.0	177.0	160.0	155.0	131.0	132.0	116.0					176.0	178.0	177.0	160.0	155.0	131.0	130.0	115.0				
75	B	233.0	221.0	189.0	160.0	155.0	131.0	132.0	116.0					229.0	221.0	187.0	160.0	155.0	131.0	130.0	116.0				
	-	164.0	166.0	165.0	156.0	151.0	128.0	131.0	113.0	102.0	87.0	163.0	165.0	164.0	156.0	151.0	128.0	129.0	112.0	101.0	86.2				
80	B	234.0	216.0	185.0	156.0	151.0	128.0	131.0	113.0	102.0	87.0	229.0	216.0	185.0	156.0	151.0	128.0	129.0	113.0	101.0	86.2				
	-	153.0	154.0	153.0	152.0	147.0	125.0	127.0	110.0	99.2	85.8	152.0	154.0	153.0	152.0	147.0	125.0	126.0	110.0	98.8	85.1				
85	B	234.0	211.0	181.0	152.0	147.0	125.0	127.0	110.0	99.2	85.8	229.0	211.0	181.0	152.0	147.0	125.0	126.0	110.0	98.8	85.1				
	-	142.0	144.0	143.0	145.0	142.0	122.0	124.0	107.0	96.6	84.7	142.0	143.0	143.0	145.0	142.0	122.0	123.0	107.0	96.5	84.0				
90	B	234.0	206.0	176.0	149.0	143.0	122.0	124.0	107.0	96.6	84.7	228.0	207.0	176.0	149.0	143.0	122.0	124.0	107.0	96.5	84.0				
	-	133.0	135.0	134.0	136.0	134.0	119.0	120.0	104.0	94.0	83.2	133.0	134.0	134.0	136.0	134.0	119.0	120.0	105.0	94.1	82.4				
95	B	233.0	202.0	171.0	146.0	139.0	119.0	120.0	105.0	94.1	83.2	228.0	203.0	172.0	146.0	140.0	119.0	121.0	105.0	94.1	82.6				
	-	125.0	126.0	126.0	128.0	126.0	116.0	117.0	102.0	91.5	81.6	124.0	126.0	126.0	127.0	126.0	117.0	117.0	102.0	91.8	80.4				
100	B	231.0	197.0	167.0	142.0	136.0	116.0	117.0	102.0	91.6	81.6	226.0	198.0	168.0	143.0	136.0	117.0	117.0	102.0	91.8	81.2				
	-	117.0	119.0	118.0	120.0	119.0	114.0	114.0	99.6	89.3	79.9	116.0	118.0	118.0	120.0	118.0	114.0	114.0	99.9	89.5	78.5				
105	B	227.0	193.0	163.0	139.0	132.0	114.0	114.0	99.7	89.4	79.9	224.0	194.0	164.0	140.0	133.0	114.0	114.0	99.9	89.5	79.8				
	-	110.0	111.0	112.0	113.0	112.0	111.0	110.0	97.3	87.1	78.1	109.0	111.0	111.0	113.0	111.0	111.0	111.0	97.6	87.4	76.9				
110	B	223.0	189.0	159.0	137.0	129.0	111.0	111.0	97.4	87.3	78.1	221.0	190.0	160.0	137.0	130.0	112.0	111.0	97.6	87.4	78.0				
	-	104.0	105.0	105.0	107.0	106.0	108.0	105.0	95.1	85.1	76.2	103.0	104.0	104.0	106.0	105.0	107.0	104.0	95.4	85.3	75.5				
115	B	219.0	185.0	156.0	134.0	126.0	109.0	108.0	95.1	85.2	76.2	218.0	187.0	157.0	134.0	127.0	109.0	109.0	95.4	85.3	76.1				
	-	97.7	98.9	99.1	101.0	99.7	102.0	99.0	93.0	83.1	74.3	97.0	98.1	98.5	100.0	99.4	101.0	98.7	93.3	83.3	74.1				
120	B	214.0	181.0	152.0	131.0	123.0	107.0	106.0	93.1	83.1	74.3	214.0	183.0	153.0	132.0	124.0	107.0	106.0	93.3	83.3	74.3				
	-	92.1	93.0	93.6	95.1	94.3	96.1	93.8	91.0	81.2	72.6	91.4	92.5	93.0	94.5	93.9	95.8	93.4	91.3	81.4	72.7				
125	B	208.0	178.0	149.0	129.0	120.0	104.0	103.0	91.0	81.2	72.6	210.0	179.0	150.0	129.0	121.0	105.0	104.0	91.5	81.4	72.7				
	-	86.2	87.2	88.3	89.7	89.3	91.0	88.8	88.9	79.3	71.2	86.0	87.0	87.9	89.3	88.8	90.6	88.3	89.3	79.6	71.3				
130	B	203.0	174.0	145.0	126.0	117.0	102.0	101.0	89.1	79.3	71.2	205.0	176.0	147.0	127.0	118.0	103.0	101.0	89.6	79.6	71.3				
	-	81.1	81.8	82.9	84.2	84.3	85.9	84.2	86.3	77.4	69.9	80.8	81.7	82.9	84.2	84.0	85.7	83.7	86.4	77.8	70.0				
135	B	199.0	171.0	142.0	124.0	115.0	100.0	98.2	87.2	77.5	69.9	201.0	172.0	143.0	125.0	116.0	101.0	98.9	87.8	77.9	70.0				
	-	75.9	76.9	78.0	79.1	79.4	80.9	79.7	82.3	75.7	68.6	75.9	76.7	77.9	79.2	79.4	81.0	79.3	82.4	76.1	68.7				
140	B	194.0	167.0	139.0	121.0	112.0	98.4	95.8	85.4	75.8	68.6	197.0	169.0	140.0	122.0	113.0	99.0	96.6	86.0	76.2	68.7				
	-	71.4	72.1	73.5	74.4	74.7	76.1	75.1	77.7	74.1	67.2	71.0	72.0	73.2	74.4	74.8	76.3	75.1	77.9	74.4	67.4				
145	B	191.0	164.0	136.0	119.0	110.0	96.4	93.7	83.7	74.1	67.2	192.0	166.0	137.0	120.0	111.0	97.1	94.4	84.3	74.6	67.4				
	-	67.0	67.9	69.1	70.2	70.4	71.7	70.9	73.3	71.9	65.7	66.9	67.6	69.0	70.0	70.4	71.8	70.8	73.5	72.5	66.1				
150	B	187.0	161.0	133.0	117.0	107.0	94.6	91.6	82.0	72.5	65.8	189.0	163.0	135.0	118.0	108.0	95.2	92.3	82.6	73.1	66.1				
	-	63.1	63.7	65.1	66.1	66.5	67.7	66.8	69.2	69.0	64.3	62.7	63.6	64.8	66.0	66.3	67.7	66.8	69.3	69.0	64.7				
155	B	183.0	159.0	131.0	115.0	105.0	92.8	89.5	80.4	71.0	64.4	185.0	160.0	132.0	116.0	106.0	93.4	90.3	81.0	71.6	64.8				
	-	59.3	60.1	61.4	62.3	62.7	64.0	63.1	65.4	65.2	62.9	59.0	59.7	61.1	62.0	62.7	63.8	63.0	65.5	65.3	63.3				
160	B	180.0	156.0	128.0	113.0	103.0	91.1	87.4	78.7	69.5	63.0	182.0	158.0	129.0	114.0	104.0	91.7	88.3	79.3	70.1	63.4				
	-	55.9	56.5	57.7	58.7	59.1	60.4	59.7	61.8	61.4	55.4	56.2	57.5	58.5	59.0	60.3	59.5	61.8	61.7	60.9	58.0				
165	B	176.0	154.0	126.0	111.0	101.0	89.4	85.6	77.1	68.0	61.7	178.0	155.0	127.0	112.0	102.0	90.2	86.4	77.8	68.6	62.1				
	-	52.6	53.3	54.5	55.4	55.9	57.0	56.3	58.6	58.4	59.2	52													

177–433 ft	98 ft	39 – 138 ft	88,200 lb	286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
SL4	D	F			B	330,700 lb – 463,000 lb 66,100 lb – 264,600 lb

ft	SL4 295												SL4 305																													
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138																			
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°																		
215	-	30.5	30.9	32.1	32.7	33.4	34.1	33.9	35.6	35.6	36.7	29.8	30.2	31.5	32.1	32.8	33.7	33.4	35.3	35.2	35.2	35.2	35.2																			
	B	150.0	133.0	107.0	96.1	84.6	76.3	70.7	65.0	56.3	50.1	152.0	135.0	108.0	97.1	85.7	77.2	71.5	65.7	56.9	50.7	50.7	50.7																			
220	-	28.6	29.0	30.2	30.7	31.4	32.2	32.0	33.7	33.7	34.7	27.9	28.3	29.6	30.2	30.9	31.7	31.5	33.3	33.3	33.3	33.3	33.3																			
	B	147.0	132.0	105.0	94.8	83.2	75.3	69.6	64.0	55.4	49.1	149.0	133.0	107.0	95.9	84.4	76.1	70.3	64.7	55.9	49.8	49.8	49.8																			
225	-	26.9	27.2	28.4	29.0	29.6	30.3	30.2	31.8	31.8	32.9	26.1	26.5	27.8	28.3	29.0	29.9	29.6	31.4	31.5	31.4	31.4	31.4																			
	B	145.0	130.0	104.0	93.6	82.0	74.3	68.5	63.0	54.5	48.3	146.0	132.0	105.0	94.7	83.1	75.2	69.2	63.7	55.0	48.9	48.9	48.9																			
230	-	25.2	25.5	26.7	27.2	27.9	28.6	28.4	30.1	30.1	31.1	24.4	24.7	26.0	26.6	27.3	28.0	27.9	29.6	29.7	29.6	29.6	29.6																			
	B	143.0	129.0	102.0	92.4	80.8	73.3	67.4	62.2	53.6	47.5	143.0	130.0	104.0	93.5	82.0	74.2	68.2	62.8	54.2	48.0	48.0	48.0																			
235	-	23.6	23.9	25.0	25.5	26.2	26.9	26.8	28.4	28.4	29.4	22.7	23.1	24.4	24.9	25.6	26.4	26.2	27.9	28.0	27.9	27.9	27.9																			
	B	140.0	127.0	101.0	91.4	79.6	72.4	66.3	61.3	52.8	46.7	140.0	129.0	102.0	92.2	80.8	73.2	67.1	62.0	53.3	47.2	47.2	47.2																			
240	-	22.1	22.3	23.5	23.9	24.6	25.3	25.2	26.8	26.8	27.8	21.4	21.6	22.8	23.3	24.0	24.7	24.6	26.3	26.3	26.3	26.3	26.3																			
	B	137.0	126.0	99.5	90.5	78.5	71.4	65.3	60.5	52.0	45.9	137.0	127.0	101.0	91.3	79.6	72.3	66.1	61.1	52.5	46.4	46.4	46.4																			
245	-	20.8	21.1	22.0	22.5	23.2	23.7	23.8	25.2	25.3	26.2	20.1	20.3	21.4	21.8	22.5	23.2	23.1	24.7	24.8	24.8	24.8	24.8																			
	B	134.0	124.0	98.2	89.5	77.4	70.5	64.2	59.6	51.2	45.1	133.0	126.0	99.5	90.3	78.4	71.4	65.1	60.3	51.7	45.6	45.6	45.6																			
250	-	19.6	19.8	20.8	21.2	21.8	22.4	22.4	23.8	23.8	24.8	18.9	19.1	20.2	20.6	21.2	21.7	21.7	23.2	23.3	23.2	23.2	23.2																			
	B	130.0	123.0	96.9	88.5	76.3	69.6	63.2	58.8	50.4	44.3	129.0	124.0	98.2	89.4	77.3	70.5	64.1	59.5	51.0	44.9	44.9	44.9																			
255	-	18.5	18.7	19.6	20.0	20.6	21.1	21.1	22.4	22.5	23.3	17.7	17.9	19.0	19.3	20.0	20.5	20.5	21.8	21.9	22.0	22.0	22.0																			
	B	127.0	121.0	95.7	87.5	75.3	68.8	62.3	58.0	49.7	43.7	126.0	123.0	97.0	88.5	76.3	69.7	63.1	58.7	50.3	44.2	44.2	44.2																			
260	-	17.4	17.6	18.5	18.8	19.4	19.9	20.0	21.1	21.2	22.1	16.6	16.9	17.8	18.2	18.9	19.3	19.4	20.7	20.8	20.8	20.8	20.8																			
	B	122.0	119.0	94.5	86.6	74.3	68.1	61.4	57.2	48.9	43.0	122.0	121.0	95.8	87.6	75.3	68.9	62.2	57.9	49.6	43.5	43.5	43.5																			
265	-	16.4	16.5	17.5	17.8	18.4	18.8	18.9	20.0	20.1	20.9	15.6	15.8	16.8	17.1	17.8	18.2	18.3	19.5	19.6	19.6	19.6	19.6																			
	B	118.0	116.0	93.4	85.7	73.3	67.3	60.5	56.5	48.2	42.3	118.0	119.0	94.7	86.7	74.3	68.2	61.3	57.2	48.9	42.8	42.8	42.8																			
270	-	15.4	15.5	16.4	16.7	17.3	17.8	17.9	19.0	19.0	19.8	14.5	14.7	15.7	16.0	16.7	17.1	17.2	18.5	18.5	18.6	18.6	18.6																			
	B	114.0	114.0	92.3	84.8	72.3	66.6	59.6	55.8	47.5	41.6	114.0	115.0	93.7	85.9	73.4	67.4	60.5	56.5	48.2	42.2	42.2	42.2																			
275	-	14.4	14.6	15.5	15.7	16.3	16.7	16.8	17.9	18.0	18.8	13.3	13.5	14.7	15.0	15.7	16.1	16.2	17.4	17.5	17.5	17.5	17.5																			
	B	110.0	111.0	91.3	84.1	71.5	65.9	58.8	55.2	46.9	41.0	111.0	111.0	92.5	85.2	72.5	66.7	59.7	55.8	47.5	41.5	41.5	41.5																			
280	-																																									
	B	90.3	83.4	70.6	65.2	58.0	54.5	46.2	40.3	107.0	108.0	91.5	84.5	71.6	66.0	58.8	55.1	46.9	40.9																							
285	-	13.6	13.8	14.5	14.8	15.0	16.0	16.1	16.9			11.2	12.7	13.0		13.8	14.2	14.3	15.4	15.5	15.6																					
	B	89.4	82.8	69.7	64.6	57.2	53.8	45.6	39.8			104.0	90.6	83.8		70.7	65.4	58.1	54.4	46.3	40.2																					
290	-	12.6	12.9	13.6	13.9	14.1	15.1	15.2	15.9				11.5	11.9		12.8	13.2	13.4	14.5	14.6	14.7																					
	B	88.4	82.2	68.9	63.9	56.5	53.2	45.0	39.2				89.7	83.1		69.9	64.7	57.3	53.8	45.7	39.6																					
295	-	11.9	12.7	13.0	13.2	14.2	14.3	15.1				10.4	10.8		11.8	12.2	12.6	13.6	13.7	13.8																						
	B	81.6																																								
300	-																																									
	B	67.5																																								
305	-																																									
	B	66.8																																								
310	-																																									
	B	66.1																																								
315	-																																									
	B																																									
320	-																																									
	B																																									
325	-																																									
	B																																									
330	-																																									
	B																																									
335	-																																									
	B																																									
340	-																																									
	B																																									
345	-																																									

 177–433 ft	 98 ft	 39–138 ft	 88,200 lb	286,600 lb – 374,800 lb	 529,100 lb – 617,300 lb
					330,700 lb – 463,000 lb
					B 66,100 lb – 264,600 lb

 ft	SL4 315										SL4 325													
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
50	-	215.0																						
	B	215.0																						
55	-	216.0	213.0																					
	B	216.0	213.0																					
60	-	213.0	211.0	179.0																				
	B	216.0	213.0	179.0																				
65	-	200.0	198.0	180.0	158.0	150.0																		
	B	216.0	213.0	180.0	158.0	150.0																		
70	-	185.0	187.0	179.0	158.0	149.0					126.0													
	B	216.0	212.0	180.0	158.0	150.0					126.0													
75	-	171.0	173.0	172.0	158.0	150.0	130.0				126.0													
	B	216.0	211.0	179.0	158.0	150.0	130.0				126.0													
80	-	159.0	161.0	160.0	156.0	148.0	127.0	125.0	112.0	98.7	84.1	158.0	160.0	159.0	154.0	146.0	126.0	123.0	111.0	97.3	83.1			
	B	217.0	209.0	178.0	156.0	148.0	127.0	125.0	112.0	98.7	84.1	212.0	204.0	174.0	154.0	146.0	126.0	123.0	111.0	97.3	83.1			
85	-	148.0	150.0	149.0	152.0	146.0	124.0	124.0	109.0	97.1	83.2	147.0	149.0	148.0	150.0	144.0	124.0	122.0	109.0	96.1	82.2			
	B	217.0	208.0	176.0	154.0	146.0	124.0	124.0	110.0	97.1	83.2	211.0	203.0	173.0	152.0	144.0	124.0	122.0	109.0	96.1	82.2			
90	-	138.0	140.0	139.0	142.0	139.0	122.0	122.0	107.0	95.6	82.2	137.0	139.0	139.0	141.0	139.0	122.0	121.0	107.0	95.0	81.3			
	B	216.0	206.0	174.0	151.0	143.0	122.0	122.0	107.0	95.8	82.2	211.0	201.0	171.0	149.0	142.0	122.0	121.0	107.0	95.1	81.3			
95	-	129.0	130.0	130.0	133.0	130.0	119.0	120.0	104.0	93.7	81.0	128.0	130.0	130.0	132.0	130.0	119.0	120.0	104.0	93.5	80.2			
	B	215.0	202.0	171.0	148.0	139.0	119.0	120.0	104.0	93.7	81.0	210.0	199.0	169.0	146.0	139.0	119.0	120.0	104.0	93.5	80.2			
100	-	121.0	122.0	122.0	125.0	122.0	116.0	117.0	102.0	91.5	79.3	120.0	121.0	121.0	124.0	122.0	116.0	117.0	102.0	91.4	78.8			
	B	214.0	198.0	168.0	145.0	136.0	117.0	117.0	102.0	91.5	79.3	208.0	197.0	167.0	143.0	136.0	117.0	117.0	102.0	91.4	78.8			
105	-	113.0	114.0	114.0	117.0	115.0	114.0	113.0	99.8	89.3	77.7	112.0	114.0	114.0	116.0	115.0	114.0	113.0	99.8	89.3	77.3			
	B	212.0	195.0	164.0	142.0	133.0	114.0	114.0	99.8	89.3	77.7	207.0	194.0	164.0	141.0	133.0	114.0	114.0	99.8	89.3	77.3			
110	-	106.0	107.0	108.0	110.0	108.0	110.0	107.0	97.7	87.3	76.2	105.0	107.0	107.0	109.0	108.0	110.0	107.0	97.7	87.3	75.9			
	B	209.0	191.0	160.0	139.0	130.0	112.0	111.0	97.7	87.3	76.2	204.0	192.0	161.0	138.0	130.0	112.0	112.0	97.8	87.3	75.9			
115	-	99.9	101.0	101.0	104.0	102.0	104.0	101.0	95.5	85.3	74.8	99.2	100.0	101.0	103.0	102.0	104.0	101.0	95.6	85.4	74.6			
	B	207.0	187.0	157.0	136.0	127.0	110.0	109.0	95.5	85.3	74.8	202.0	188.0	158.0	135.0	127.0	110.0	109.0	95.8	85.4	74.6			
120	-	94.0	95.2	95.6	98.1	96.3	98.3	95.7	93.5	83.3	73.5	93.3	94.5	95.0	96.7	95.9	97.9	95.2	93.6	83.5	73.3			
	B	205.0	184.0	154.0	134.0	124.0	107.0	106.0	93.5	83.4	73.5	200.0	185.0	154.0	133.0	125.0	108.0	107.0	93.8	83.5	73.3			
125	-	88.5	89.7	90.1	92.6	90.9	92.8	90.4	91.6	81.4	72.2	87.8	88.9	89.6	91.1	90.6	92.5	90.1	91.6	81.7	72.1			
	B	201.0	180.0	151.0	131.0	121.0	105.0	104.0	91.6	81.6	72.2	197.0	181.0	151.0	131.0	122.0	106.0	104.0	92.0	81.7	72.1			
130	-	83.5	84.5	85.1	87.5	86.0	87.8	85.6	88.1	79.7	70.9	82.7	83.8	84.5	86.0	85.5	87.4	88.3	80.0	70.8				
	B	198.0	177.0	147.0	129.0	119.0	103.0	101.0	89.7	79.8	70.9	194.0	178.0	148.0	128.0	119.0	104.0	102.0	90.1	80.0	70.8			
135	-	78.4	79.4	80.4	82.7	81.3	83.1	80.9	84.0	78.1	69.7	77.9	79.0	79.8	81.2	80.8	82.7	80.4	83.6	78.4	69.7			
	B	193.0	173.0	144.0	127.0	116.0	101.0	99.2	87.9	78.1	69.7	190.0	175.0	145.0	126.0	117.0	102.0	99.7	88.3	78.4	69.7			
140	-	73.6	74.4	75.6	77.6	76.9	78.5	76.5	79.4	76.2	68.4	73.3	74.3	75.3	76.7	76.5	78.2	76.0	79.1	76.6	68.5			
	B	190.0	170.0	141.0	124.0	114.0	99.5	97.0	86.2	76.4	68.4	187.0	172.0	142.0	124.0	115.0	100.0	97.6	86.6	76.8	68.5			
145	-	69.0	69.9	71.0	73.0	72.4	74.0	72.4	75.2	74.0	67.1	68.9	69.6	70.9	72.2	72.3	74.0	71.9	74.9	73.3	67.2			
	B	187.0	167.0	138.0	122.0	111.0	97.6	94.8	84.6	74.8	67.2	185.0	168.0	139.0	122.0	112.0	102.0	98.2	95.6	85.0	75.2	67.3		
150	-	64.7	65.5	66.8	68.6	68.2	69.6	68.5	71.1	70.2	65.9	64.4	65.4	66.6	67.7	68.2	69.7	68.0	70.9	69.8	66.0			
	B	184.0	164.0	135.0	120.0	109.0	95.8	83.0	73.3	66.0	182.0	166.0	136.0	119.0	110.0	96.5	95.3	83.4	73.7	66.1	66.1			
155	-	60.8	61.6	62.9	64.7	64.2	65.6	64.6	67.2	66.6	64.6	60.5	61.1	62.7	63.6	64.1	65.6	64.4	67.2	66.1	64.0			
	B	182.0	161.0	133.0	118.0	107.0	94.0	90.7	81.4	71.9	64.7	179.0	163.0	134.0	117.0	110.0	108.0	94.7	91.6	81.9	72.2	64.9		
160	-	57.0	57.8	58.9	60.9	60.5	61.8	60.9	63.3	63.1	62.6	56.7	57.5	58.9	60.0	60.3	61.7	60.7	63.4	62.7	61.5			
	B	179.0	159.0	130.0	116.0	105.0	92.2	88.7	79.8	70.4	63.5	177.0	160.0	131.0	115.0	106.0	92.9	89.6	80.4	73.8	63.8			
165	-	53.6	54.3	55.6	57.2	57.1	58.2	57.4	59.8	59.6	60.3	53.1	53.9	55.2	56.4	56.9	58.1	57.3	59.8	59.5	58.3			
	B	175.0	156.0	128.0	114.0	103.0	90.6	86.8	78.3	69.0	62.3	174.0	158.0	129.0	113.0	104.0	91.3	87.7	78.9	69.4	62.7			
170	-	50.3	51.0	52.3	54.0	53.6	55.0	54.2	56.4	56.3	57.3	49.9	50.6	52.0	53.0	53.6	54.8	53.9	56.4	56.3	55.4			
	B	171.0	153.0	126.0	112.0	101.0	89.1	85.1	76.9	76.7	61.1	172.0	155.0	127.0	112.0									

				286,600 lb – 374,800 lb	
				B	529,100 lb – 617,300 lb 330,700 lb – 463,000 lb 66,100 lb – 264,600 lb

ft	B	SL4 315										SL4 325																
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138				
		10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°					
225	-	24.7	25.1	26.3	27.6	27.6	28.3	28.1	29.9	29.9	30.8	23.9	24.4	25.6	26.2	27.0	27.8	27.6	29.5	29.4	29.4	29.4	29.4					
	B	142.0	131.0	105.0	96.0	83.7	75.6	69.9	64.2	55.4	49.3	146.0	134.0	107.0	96.0	84.8	76.6	70.7	64.9	56.1	49.8							
230	-	23.0	23.4	24.6	25.8	25.8	26.6	28.1	29.1	22.3	22.6	24.5	24.5	25.3	26.0	25.9	27.7	27.7	27.6	27.6	27.6	27.6	27.6					
	B	140.0	130.0	104.0	94.9	82.4	74.6	68.7	63.3	54.5	48.4	143.0	132.0	105.0	94.9	83.6	75.6	69.6	64.0	55.2	48.9							
235	-	21.5	21.8	23.0	24.1	24.2	24.9	24.7	26.4	26.4	27.4	20.9	21.2	22.3	22.8	23.6	24.4	24.2	26.0	26.0	25.9	25.9	25.9					
	B	137.0	129.0	102.0	93.7	81.2	73.7	67.6	62.3	53.7	47.6	139.0	131.0	104.0	93.8	82.4	74.7	68.5	63.1	54.3	48.1							
240	-	20.2	20.5	21.5	22.5	22.6	23.4	23.1	24.8	24.9	25.7	19.5	19.8	21.0	21.4	22.2	22.7	22.7	24.3	24.4	24.4	24.4	24.4					
	B	135.0	127.0	101.0	92.6	80.0	72.7	66.5	61.5	52.9	46.8	135.0	129.0	102.0	92.6	81.3	73.7	67.5	62.2	53.5	47.3							
245	-	19.0	19.3	20.3	21.2	21.3	21.8	21.8	23.3	23.3	24.3	18.3	18.6	19.6	20.1	20.8	21.4	21.3	22.9	22.9	22.8	22.8	22.8					
	B	132.0	126.0	99.7	91.6	78.8	71.8	65.5	60.6	52.1	46.1	131.0	128.0	101.0	91.4	80.1	72.8	66.5	61.4	52.7	46.5							
250	-	17.8	18.1	19.0	19.9	20.0	20.6	20.5	21.9	22.0	22.9	17.1	17.3	18.4	18.8	19.5	20.1	20.0	21.5	21.5	21.5	21.5	21.5					
	B	128.0	124.0	98.4	90.6	77.6	70.9	64.6	59.8	51.3	45.3	127.0	126.0	99.8	90.5	79.0	71.9	65.5	60.6	51.9	45.8							
255	-	16.7	16.9	17.9	18.8	18.9	19.4	19.3	20.7	20.7	21.5	15.9	16.2	17.2	17.6	18.3	18.9	18.8	20.2	20.3	20.3	20.3	20.3					
	B	125.0	121.0	97.2	89.6	76.6	69.9	63.6	59.0	50.6	44.6	124.0	124.0	98.6	89.6	77.8	71.0	64.6	59.8	51.2	45.1							
260	-	15.6	15.8	16.8	17.6	17.7	18.2	18.2	19.5	19.5	20.3	14.8	15.1	16.1	16.5	17.2	17.7	17.7	19.0	19.1	19.1	19.1	19.1					
	B	121.0	119.0	96.1	88.6	75.6	69.1	62.7	58.2	49.8	43.8	120.0	121.0	97.5	88.8	76.8	70.1	63.6	59.1	50.5	44.4							
265	-	14.6	14.8	15.7	16.6	16.7	17.1	17.1	18.4	18.5	19.2	13.8	14.0	15.0	15.4	16.1	16.6	16.6	17.9	17.9	18.0	18.0	18.0					
	B	117.0	116.0	94.9	87.7	74.6	68.4	61.7	57.5	49.2	43.1	117.0	117.0	96.3	87.9	75.8	69.3	62.6	58.4	49.8	43.8							
270	-	13.6	13.7	14.7	15.5	15.6	16.1	16.1	17.3	17.4	18.1	12.6	12.9	14.0	14.3	15.0	15.5	15.5	16.8	16.9	16.9	16.9	16.9					
	B	113.0	114.0	93.9	86.8	73.7	67.6	60.9	56.7	48.5	42.4	113.0	114.0	95.3	87.1	74.9	68.6	61.7	57.6	49.2	43.1							
275	-	12.6	12.8	13.7	14.5	14.6	15.1	15.1	16.3	16.4	17.1	11.4	11.7	13.0	13.3	14.0	14.5	14.5	15.8	15.8	15.9	15.9	15.9					
	B	110.0	111.0	92.9	86.1	72.8	66.8	60.1	56.1	47.8	41.8	110.0	111.0	94.2	86.3	73.9	67.8	60.9	56.9	48.5	42.5							
280	-	11.5	11.7	12.8	13.5	13.7	14.1	14.2	15.3	15.4	16.1	10.3	10.6	11.9	12.3	13.0	13.5	13.5	14.8	14.9	14.9	14.9	14.9					
	B	107.0	108.0	91.9	85.3	71.9	66.2	59.3	55.4	47.1	41.2	107.0	107.0	93.2	85.5	73.0	67.1	60.1	56.2	47.9	41.8							
285	-	10.3	10.6	11.9	12.6	12.8	13.2	13.2	14.4	14.4	15.2	9.2	9.4	10.8	11.3	12.1	12.5	12.6	13.8	13.9	13.9	13.9	13.9					
	B	104.0	105.0	90.9	84.5	71.1	65.5	58.5	54.8	46.4	40.6	104.0	104.0	92.2	84.8	72.1	66.3	59.3	55.6	47.2	41.2							
290	-	9.3	9.5	10.8	11.7	11.9	12.3	12.4	13.4	13.5	14.3	8.1	8.3	9.7	10.2	11.2	11.6	11.7	12.9	13.0	13.0	13.0	13.0					
	B	101.0	102.0	90.0	83.8	70.2	64.9	57.7	54.1	45.9	40.0	101.0	102.0	91.2	84.1	71.3	65.6	58.6	54.9	46.6	40.6							
295	-	9.8	10.7	11.0	11.4	11.5	12.6	12.6	13.4	13.4	14.1	7.1	7.3	8.6	9.0	10.1	10.6	10.8	12.0	12.1	12.2	12.2	12.2					
	B	89.2	83.2	69.5	64.3	56.9	53.5	45.3	39.4	98.2	98.6	90.3	83.3	70.5	65.0	57.8	54.3	46.0	40.0									
300	-	8.8	9.6	10.1	10.5	10.7	11.7	11.8	12.5			6.3	7.6	8.0	9.1	9.6	9.9	11.1	11.2	11.3								
	B	88.3	82.6	68.7	63.7	56.2	52.9	44.7	38.8			95.9	89.5	82.7	69.7	64.4	57.1	53.7	45.5	39.4								
305	-	7.8	8.6	9.1	9.6	9.9	9.9	10.9	11.0	11.0	11.7			6.6	7.0	8.0	8.5	9.0	10.3	10.4	10.5							
	B	87.5	82.0	68.0	63.1	55.6	52.3	44.2	38.3					88.8	82.1	68.9	63.9	56.4	53.1	44.9	38.9							
310	-	7.6	8.2	8.6	9.0	10.1	10.2	10.9				5.6	6.0	7.0	7.5	8.1	9.4	9.6	9.7									
	B	81.5	67.3	62.7	54.9	51.8	43.7	37.8				87.9	81.4	68.2	63.2	55.8	52.5	44.4	38.3									
315	-	7.3	7.6	8.1	9.2	9.4	9.4	10.1				6.1	6.5	7.1	8.4	8.7	8.9											
	B	66.7	62.2	54.2	51.3	43.2	37.2					86.7	80.6	67.5	62.7	55.2	52.0	43.8	37.8									
320	-	6.3	6.7	7.2	8.2	8.7	9.4											5.6	6.1	7.4	7.7	8.0						
	B	66.0	61.7	53.6	50.8	42.7	36.7											66.9	62.2	54.5	51.5	43.3	37.3					
325	-	5.8	6.3	6.3	7.4	7.9	8.6											66.2	61.8	53.8	51.0	42.8	36.8					
	B	65.5	61.3	53.0	50.3	42.2	36.2											65.6	61.4	53.2	50.5	42.4	36.3					
330	-					6.5	7.0	7.8										61.0	52.7	50.1	41.9	35.9						
	B					52.5	49.9	41.7	35.7									52.1	49.6	41.4	35.4							
335	-					5.7	6.1	7.0										51.6	49.2	41.0	35.0							
	B					52.0	49.5	41.3	35.3									51.2	48.8	40.6	34.6							
340	-					51.5	49.1	40.9	34.9									49.7										
	B					50.5	48.7	40.5																				



	ft	SL4 335										SL4 345													
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
55	-	199.0														194.0									
	B	199.0														194.0									
60	-	199.0	196.0	165.0												194.0	191.0								
	B	199.0	196.0	165.0												194.0	191.0								
65	-	189.0	192.0	166.0	151.0											192.0	190.0	161.0							
	B	199.0	195.0	166.0	151.0											194.0	190.0	161.0							
70	-	178.0	182.0	166.0	150.0	139.0		118.0								179.0	181.0	162.0	147.0	136.0		116.0			
	B	199.0	195.0	166.0	150.0	139.0		118.0								194.0	189.0	162.0	147.0	136.0		116.0			
75	-	165.0	168.0	164.0	150.0	140.0	119.0	118.0								165.0	168.0	161.0	146.0	136.0	121.0	116.0			
	B	199.0	194.0	165.0	150.0	140.0	119.0	118.0								194.0	188.0	161.0	146.0	136.0	121.0	116.0			
80	-	153.0	156.0	154.0	149.0	140.0	119.0	118.0	108.0							154.0	155.0	154.0	145.0	136.0	120.0	115.0	106.0		
	B	199.0	193.0	165.0	149.0	140.0	119.0	118.0	108.0							193.0	187.0	161.0	145.0	136.0	120.0	115.0	106.0		
85	-	142.0	145.0	144.0	147.0	139.0	119.0	117.0	107.0	93.5		79.7	143.0	145.0	143.0	145.0	135.0	120.0	115.0	105.0	92.0	78.3			
	B	199.0	191.0	164.0	148.0	139.0	119.0	117.0	107.0	93.5		79.7	193.0	186.0	160.0	145.0	135.0	120.0	115.0	105.0	92.0	78.3			
90	-	133.0	135.0	134.0	137.0	134.0	119.0	116.0	106.0	92.9		78.7	133.0	135.0	134.0	137.0	133.0	119.0	114.0	104.0	91.4	77.5			
	B	198.0	190.0	163.0	147.0	137.0	119.0	116.0	106.0	92.9		78.7	193.0	185.0	158.0	144.0	134.0	119.0	114.0	104.0	91.4	77.5			
95	-	124.0	126.0	125.0	128.0	126.0	119.0	116.0	104.0	92.1		77.7	124.0	126.0	125.0	128.0	125.0	118.0	113.0	103.0	90.8	76.7			
	B	197.0	188.0	161.0	145.0	136.0	119.0	116.0	104.0	92.1		77.7	192.0	183.0	157.0	143.0	133.0	118.0	113.0	103.0	90.8	76.7			
100	-	116.0	118.0	117.0	120.0	118.0	118.0	114.0	102.0	90.5		76.7	116.0	118.0	117.0	120.0	118.0	116.0	112.0	101.0	89.5	75.8			
	B	196.0	187.0	159.0	143.0	134.0	118.0	114.0	102.0	90.5		76.7	191.0	181.0	155.0	142.0	132.0	116.0	112.0	101.0	89.5	75.8			
105	-	108.0	111.0	110.0	113.0	111.0	113.0	110.0	99.5		88.8	75.7	109.0	110.0	109.0	113.0	110.0	113.0	109.0	99.4	88.2	74.9			
	B	195.0	185.0	157.0	142.0	132.0	116.0	113.0	99.6		88.8	75.7	190.0	180.0	154.0	141.0	130.0	114.0	111.0	99.4	88.2	74.9			
110	-	102.0	104.0	103.0	106.0	104.0	107.0	104.0	97.5		87.1	74.7	102.0	103.0	103.0	106.0	104.0	106.0	104.0	97.6	86.9	74.0			
	B	193.0	184.0	156.0	139.0	130.0	113.0	112.0	97.6		87.1	74.7	189.0	179.0	152.0	139.0	129.0	112.0	110.0	97.6	87.0	74.0			
115	-	95.5	97.7	97.1	99.9	98.0	101.0	98.4	95.5		85.3	73.5	95.7	97.2	96.6	99.6	97.6	99.9	98.2	95.7	85.1	73.0			
	B	191.0	181.0	154.0	137.0	127.0	111.0	111.0	95.7		85.3	73.5	186.0	177.0	151.0	137.0	127.0	110.0	110.0	95.7	85.3	73.0			
120	-	89.7	91.9	91.4	94.1	92.3	95.5	92.8	93.6		83.4	72.4	90.0	91.3	91.9	93.8	91.9	94.1	92.5	93.0	83.3	71.9			
	B	189.0	180.0	152.0	135.0	124.0	109.0	108.0	93.7		83.4	72.4	185.0	176.0	149.0	135.0	124.0	108.0	108.0	93.8	83.5	71.9			
125	-	84.3	86.5	86.1	88.7	87.0	90.1	87.6	89.9		81.6	71.2	84.6	85.8	85.4	88.3	86.6	88.6	87.1	89.5	81.6	70.9			
	B	187.0	178.0	150.0	132.0	122.0	107.0	106.0	91.8		81.6	71.2	183.0	175.0	147.0	133.0	122.0	106.0	106.0	92.0	81.8	70.9			
130	-	79.3	81.4	81.1	83.7	82.1	85.1	82.5	84.7		79.8	70.1	79.6	80.8	80.5	83.2	81.7	83.7	82.1	84.5	79.7	69.8			
	B	184.0	176.0	148.0	130.0	120.0	105.0	103.0	90.1		79.9	70.1	181.0	173.0	146.0	130.0	120.0	104.0	104.0	90.3	80.1	69.8			
135	-	74.7	76.7	76.5	79.0	77.6	80.3	77.9	80.1		78.0	69.0	74.9	76.1	75.9	78.5	77.0	78.9	77.5	79.7	77.4	68.8			
	B	181.0	174.0	146.0	128.0	117.0	104.0	101.0	88.4		78.3	69.0	178.0	171.0	145.0	128.0	118.0	102.0	102.0	88.7	87.6	68.8			
140	-	70.3	72.2	72.2	74.5	73.2	75.9	73.6	75.7		74.2	67.9	70.5	71.6	71.5	74.1	72.6	74.4	73.1	75.2	74.0	67.7			
	B	178.0	171.0	143.0	126.0	115.0	102.0	99.3	86.8		76.7	67.9	175.0	168.0	143.0	126.0	115.0	101.0	99.7	87.0	77.1	67.7			
145	-	66.0	67.7	68.0	70.2	69.0	71.6	69.6	71.5		70.3	66.8	66.4	67.4	67.4	69.9	68.5	70.2	69.1	71.1	69.9	66.7			
	B	175.0	168.0	140.0	124.0	113.0	100.0	97.4	85.2		75.3	66.8	173.0	165.0	140.0	124.0	113.0	99.0	97.6	85.5	75.6	66.7			
150	-	61.9	63.5	63.9	66.0	65.2	67.7	65.8	67.7		65.5	63.3	62.4	63.1	63.6	65.9	64.6	66.3	65.3	67.3	66.1	64.9			
	B	171.0	165.0	137.0	122.0	110.0	98.4	95.4	83.7		73.8	65.7	170.0	163.0	138.0	122.0	111.0	97.4	95.8	84.0	74.2	65.6	65.6		
155	-	57.8	59.5	59.9	61.9	61.4	63.8	62.3	64.1		63.0	63.2	58.4	59.3	59.7	61.8	60.9	62.5	61.7	63.6	62.6	62.2			
	B	168.0	163.0	135.0	119.0	108.0	96.6	93.5	82.2		72.5	64.7	168.0	161.0	135.0	120.0	109.0	95.8	93.9	82.5	72.8	64.6	64.6		
160	-	54.2	55.7	56.4	58.1	57.8	60.0	58.9	60.6		59.7	59.9	54.5	55.5	56.0	58.0	57.5	59.0	58.4	60.2	59.2	59.1			
	B	165.0	160.0	132.0	117.0	106.0	94.9	91.6	80.8		71.1	63.6	166.0	158.0	133.0	118.0	107.0	94.1	92.1	81.1	71.4	63.7			
165	-	50.7	52.3	52.8	54.7	54.2	56.5	55.6	57.2		56.5	56.8	51.2	51.9	52.6	54.5	54.1	55.5	55.2	57.0	56.1	56.0			
	B	162.0	158.0	130.0	115.0	104.0	93.2	89.6	79.3		69.8	62.6	163.0	157.0	131.0	116.0	105.0	92.5	90.3	79.7	70.1	62.7			
170	-	47.5	48.9	49.5	51.3	51.1	53.1	52.4	54.0		53.6	53.9	47.8	48.7	49.2	51.2	50.8	52.1	53.8	53.1	53.1	53.1			
	B	159.0	155.0	128.0	114.0	102.0	91.6	87.7	77.9		68.4	61.6	161.0	155.0	128.0	114.0	103.0	90.8	88.5	78.3	68.7	61.8			
175	-	44.5	45.9	46.5	48.2	48.0	50.1	49.3	50.8		50.6	51.1	44.8	45.4	46.1	47.9	47.8	49.0	49.1	50.7	50.2	50.4			



A ft		SL4 335										SL4 345													
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138	
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
240	-	17.9	18.7	19.2	20.3	20.3	21.7	21.5	22.5	22.5	23.4	17.7	18.1	18.6	19.8	19.8	20.5	21.2	22.0	22.2	22.8	32.4	49.4		
245	B	126.0	124.0	103.0	94.2	81.6	75.0	69.0	62.6	53.9	47.6	129.0	127.0	104.0	95.2	82.8	74.7	70.0	63.4	54.5	49.4	32.4	49.4		
250	B	16.6	17.5	18.0	19.0	19.1	20.3	20.3	21.0	21.1	22.0	16.5	16.8	17.3	18.5	18.5	19.2	19.8	20.7	20.7	21.5	32.4	48.7		
255	B	125.0	124.0	101.0	93.1	80.5	74.1	68.0	61.7	53.1	46.8	126.0	124.0	103.0	94.2	81.7	73.8	68.9	62.5	53.7	48.7	32.4	48.0		
260	-	15.5	16.3	16.8	17.8	17.8	19.1	19.0	19.8	19.9	20.6	15.3	15.6	16.1	17.2	17.3	17.9	18.5	19.3	19.4	20.2	32.4	48.0		
265	B	123.0	123.0	99.9	92.0	79.3	73.2	66.9	60.9	52.3	46.0	123.0	122.0	102.0	93.1	80.6	72.9	67.9	61.7	53.0	48.0	32.4	48.0		
270	B	14.3	15.1	15.6	16.6	16.7	17.9	17.8	18.6	18.6	19.4	14.2	14.4	14.9	16.0	16.1	16.7	17.3	18.1	18.2	18.9	32.4	48.0		
275	B	122.0	122.0	98.8	90.9	78.2	72.4	65.9	60.0	51.5	45.3	120.0	119.0	100.0	92.0	79.5	72.1	67.0	60.9	52.3	47.2	32.4	47.2		
280	-	13.2	14.0	14.5	15.5	15.6	16.7	16.7	17.4	17.5	18.3	13.0	13.3	13.8	14.9	15.0	15.5	16.2	17.0	17.0	17.8	32.4	47.2		
285	B	119.0	119.0	97.8	90.0	77.1	71.5	65.0	59.3	50.8	44.7	117.0	117.0	99.2	91.0	78.4	71.3	66.0	60.2	51.5	46.5	32.4	46.5		
290	-	12.1	12.9	13.4	14.4	14.5	15.6	15.6	16.3	16.4	17.1	11.9	12.2	12.7	13.8	13.9	14.4	15.1	15.8	15.9	16.7	32.4	46.5		
295	B	116.0	117.0	96.8	89.1	76.0	70.6	64.2	58.6	50.1	44.0	114.0	114.0	98.1	90.2	77.2	70.5	65.1	59.4	50.8	45.8	32.4	45.8		
300	-	11.1	11.9	12.4	13.3	13.5	14.6	14.6	15.2	15.3	16.1	10.7	11.0	11.7	12.7	12.8	13.4	14.0	14.8	14.8	15.6	32.4	45.6		
305	B	112.0	113.0	95.7	88.3	75.1	69.8	63.2	57.9	49.4	43.3	111.0	111.0	96.9	89.4	76.2	69.7	64.2	58.7	50.1	45.1	32.4	45.1		
310	-	10.0	10.8	11.4	12.3	12.4	13.5	13.6	14.2	14.3	15.1	9.5	9.8	10.6	11.7	11.8	12.3	13.0	13.7	13.8	14.6	32.4	44.5		
315	B	109.0	110.0	94.7	87.4	74.2	69.1	62.3	57.2	48.7	42.7	108.0	108.0	95.8	88.6	75.3	68.9	63.3	57.9	49.4	44.5	32.4	44.5		
320	-	8.8	9.6	10.5	11.4	11.5	12.5	12.6	13.2	13.3	14.1	8.3	8.6	9.4	10.6	10.8	11.4	12.0	12.7	12.8	13.6	32.4	44.5		
325	B	106.0	107.0	93.7	86.6	73.4	68.4	61.5	56.5	48.0	42.1	105.0	105.0	94.8	87.7	74.4	68.0	62.4	57.2	48.8	43.8	32.4	43.8		
330	-	7.7	8.5	9.4	10.4	10.5	11.6	11.7	12.3	12.4	13.1	7.1	7.4	8.3	9.5	9.8	10.4	11.1	11.7	11.8	12.7	32.4	43.2		
335	B	103.0	103.0	92.7	85.9	72.5	67.7	60.7	55.8	47.4	41.5	102.0	103.0	93.8	86.9	73.6	67.4	61.6	56.5	48.1	43.2	32.4	43.2		
340	-	6.7	7.4	8.3	9.4	9.7	10.7	10.8	11.4	11.5	12.2	6.0	6.3	8.3	8.7	9.3	10.2	10.8	10.9	11.8	32.4	42.6			
345	B	100.0	101.0	91.7	85.2	71.7	67.0	60.0	55.2	46.7	40.9	99.7	100.0	92.9	86.2	72.7	66.8	60.9	55.8	47.5	42.6	32.4	42.6		
350	-	5.6	6.4	7.3	8.3	8.8	9.8	9.9	10.5	10.6	11.3					7.2	7.6	8.2	9.2	9.9	9.9	10.8	32.4		
355	B	97.4	97.8	90.7	84.5	70.9	66.3	59.2	54.6	46.1	40.3	97.1	97.3	92.1	85.5	71.9	66.2	60.1	55.2	46.8	42.0	32.4	42.0		
360	-	6.2	7.2	7.8	8.8	9.1	9.7	9.7	10.5						6.1	6.5	7.2	8.1	8.9	8.9	9.9	32.4	41.4		
365	B	94.7	95.1	89.7	83.8	70.2	65.7	58.5	54.0	45.6	39.7	94.4	94.7	91.2	84.7	71.1	65.6	59.4	54.6	46.2	41.4	32.4	41.4		
370	-	6.2	6.7	7.8	8.2	8.8	8.9	9.6							6.1	7.1	7.9	7.9	7.9	7.9	9.0	32.4	40.9		
375	B	92.1	92.4	88.9	83.2	69.5	65.1	57.8	53.4	45.0	39.1	91.8	92.1	90.2	84.1	70.3	65.0	58.6	54.1	45.7	40.9	32.4	40.9		
380	-	5.7	6.8	7.3	7.3	7.9	7.9	8.7							6.1	6.8	6.9	8.0	8.0	8.0	9.0	32.4	40.3		
385	B	88.1	82.7	68.8	64.6	57.1	52.9	44.5	38.6	38.6	38.6	89.2	89.5	88.8	83.4	69.6	64.4	57.9	53.5	45.2	40.3	32.4	40.3		
390	-	5.8						7.0	7.8			87.0	87.1	82.8	68.9	63.8	57.2	53.0	44.6	39.8	7.1	32.4	40.3		
395	B	87.2	82.2	68.1	64.0	56.4	52.3	44.0	38.1			87.0	87.1	82.8	68.9	63.8	57.2	53.0	44.6	39.8	7.1	32.4	40.3		
400	-	85.9	81.6	67.3	63.4	55.8	51.8	43.5	37.6			85.3	82.3	68.1	63.3	56.6	52.5	44.1	39.2		6.1	32.4	40.3		
405	B	84.2	80.0	66.6	63.0	55.2	51.3	43.0	37.1			83.6	81.7	67.5	62.7	55.9	52.0	43.6	38.7			32.4	40.3		
410	-	66.0	62.6	54.6	50.8	42.5	36.6					80.9	80.3	66.9	62.3	55.3	51.5	43.2	38.2				32.4	40.3	
		65.4	62.1	54.0	50.3	42.1	36.1					78.2	66.3	61.9	54.7	51.0	42.6	37.7					32.4	40.3	
		65.0	61.7	53.4	49.9	41.7	35.7								65.8	61.4	54.1	50.6	42.2	37.3				32.4	40.3
		61.3	52.9	49.5	41.3	35.2									65.3	61.0	53.6	50.1	41.8	36.8				32.4	40.3
		52.4	49.2	40.9	34.9										64.8	60.6	53.1	49.7	41.4	36.4				32.4	40.3
		51.9	48.8	40.5	34.5											52.6	49.3	40.9	36.0					32.4	40.3
		51.4	48.4	40.1	34.1											52.2	48.9	40.5	35.6					32.4	40.3
		51.0														51.7	48.6	40.2	35.2					32.4	40.3
																	48.2	39.8	34.8					32.4	40.3
																		39.5	34.5					32.4	40.3
																		38.7	34.1					32.4	40.3
																		38.4	32.4					32.4	40.3
																		32.1						32.4	40.3
																		31.8						32.4	40.3
																		31.5						32.4	40.3

				286,600 lb – 374,800 lb		529,100 lb – 617,300 lb
				330,700 lb – 463,000 lb		
			B	66,100 lb – 264,600 lb		

ft	SL4 354												SL4 364														
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138				
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°			
-	182.0												177.0														
55	-	182.0											177.0														
	B	182.0											177.0														
60	-	182.0	179.0										177.0	174.0													
	B	182.0	179.0										177.0	174.0													
65	-	182.0	179.0	152.0									177.0	174.0													
	B	182.0	179.0	152.0									177.0	174.0													
70	-	174.0	175.0	152.0	140.0	129.0							172.0	172.0	148.0	136.0	126.0										
	B	182.0	178.0	152.0	140.0	129.0							172.0	172.0	148.0	136.0	126.0										
75	-	161.0	163.0	152.0	139.0	129.0	116.0	110.0					160.0	162.0	148.0	136.0	126.0	114.0	108.0								
	B	182.0	177.0	152.0	139.0	129.0	116.0	110.0					177.0	172.0	148.0	136.0	126.0	114.0	108.0								
80	-	149.0	151.0	149.0	139.0	130.0	116.0	110.0	102.0				149.0	151.0	147.0	136.0	126.0	113.0	108.0	99.2							
	B	182.0	176.0	152.0	139.0	130.0	116.0	110.0	102.0				177.0	171.0	147.0	136.0	126.0	113.0	108.0	99.2							
85	-	139.0	141.0	140.0	138.0	129.0	115.0	110.0	101.0	88.5	75.7	75.7	138.0	140.0	140.0	135.0	126.0	113.0	107.0	98.6	86.8	74.4					
	B	181.0	175.0	151.0	138.0	129.0	115.0	110.0	101.0	88.5	75.7	75.7	176.0	170.0	147.0	135.0	126.0	113.0	107.0	98.6	86.8	74.4					
90	-	129.0	131.0	131.0	133.0	127.0	114.0	109.0	100.0	87.9	75.0	75.0	129.0	130.0	131.0	132.0	125.0	112.0	107.0	97.9	86.2	73.8					
	B	181.0	174.0	150.0	137.0	128.0	114.0	109.0	100.0	87.9	75.0	75.0	175.0	169.0	146.0	134.0	125.0	112.0	107.0	97.9	86.2	73.8					
95	-	121.0	122.0	122.0	124.0	122.0	113.0	108.0	99.3	87.4	74.4	74.4	120.0	122.0	122.0	124.0	121.0	111.0	106.0	97.2	85.7	73.2					
	B	180.0	172.0	148.0	136.0	127.0	113.0	108.0	99.3	87.4	74.4	74.4	174.0	168.0	144.0	133.0	124.0	111.0	106.0	97.2	85.7	73.2					
100	-	113.0	114.0	114.0	117.0	114.0	112.0	108.0	98.3	86.8	73.7	73.7	112.0	114.0	114.0	116.0	114.0	110.0	105.0	96.4	85.1	72.6					
	B	179.0	171.0	147.0	135.0	125.0	112.0	108.0	98.3	86.8	73.7	73.7	173.0	166.0	143.0	132.0	123.0	110.0	105.0	96.4	85.1	72.6					
105	-	105.0	107.0	107.0	109.0	107.0	110.0	105.0	97.3	86.2	72.9	72.9	105.0	106.0	107.0	109.0	107.0	108.0	103.0	95.5	84.5	71.9					
	B	178.0	170.0	146.0	134.0	124.0	111.0	107.0	97.3	86.2	72.9	72.9	172.0	165.0	142.0	131.0	121.0	109.0	104.0	95.5	84.5	71.9					
110	-	98.8	100.0	101.0	103.0	101.0	104.0	100.0	96.0	85.6	72.1	72.1	98.3	99.7	100.0	102.0	100.0	104.0	99.0	94.6	83.9	71.2					
	B	177.0	169.0	144.0	133.0	123.0	110.0	106.0	96.0	85.6	72.1	72.1	171.0	164.0	140.0	130.0	120.0	108.0	104.0	94.6	83.9	71.2					
115	-	92.8	94.0	94.6	96.5	94.5	97.9	94.6	94.2	84.3	71.3	71.3	170.0	163.0	139.0	129.0	119.0	107.0	103.0	93.5	83.1	70.5					
	B	175.0	167.0	143.0	132.0	122.0	109.0	105.0	94.3	84.3	71.3	71.3	170.0	163.0	139.0	129.0	119.0	107.0	103.0	93.5	83.1	70.5					
120	-	87.1	88.3	89.0	90.7	88.9	92.0	88.9	91.5	82.7	70.4	70.4	86.4	87.8	88.6	90.3	88.4	91.8	88.5	90.6	82.0	69.7					
	B	173.0	165.0	141.0	131.0	121.0	108.0	104.0	92.9	82.7	70.4	70.4	168.0	161.0	138.0	128.0	117.0	106.0	102.0	92.4	82.0	69.7					
125	-	81.8	83.1	83.8	85.4	83.7	86.7	83.8	86.2	81.0	69.5	69.5	81.2	82.4	83.3	85.0	83.0	86.3	83.8	85.8	80.7	68.9					
	B	172.0	164.0	140.0	130.0	119.0	109.0	107.0	93.0	82.7	71.2	71.2	167.0	160.0	137.0	128.0	116.0	105.0	101.0	91.3	80.7	68.9					
130	-	76.9	78.1	78.9	80.5	78.7	81.6	78.9	81.3	79.0	68.7	68.7	76.3	77.4	78.3	80.0	78.1	81.2	78.4	80.8	78.0	68.1					
	B	170.0	163.0	139.0	128.0	118.0	105.0	102.0	90.2	79.8	68.7	68.7	166.0	159.0	135.0	127.0	115.0	104.0	101.0	90.1	79.6	68.1					
135	-	72.4	73.4	74.3	75.8	74.0	76.8	74.4	76.6	75.2	67.8	67.8	164.0	158.0	134.0	126.0	114.0	103.0	100.0	88.6	78.3	67.3					
	B	167.0	161.0	137.0	127.0	116.0	104.0	101.0	88.6	78.3	67.8	67.8	164.0	158.0	134.0	126.0	114.0	103.0	100.0	88.6	78.3	67.3					
140	-	68.1	69.1	69.9	71.3	69.8	72.5	70.2	72.3	71.0	66.8	66.8	67.3	68.5	69.3	70.8	69.1	72.1	69.7	71.9	70.5	66.3					
	B	164.0	159.0	136.0	126.0	115.0	102.0	99.4	87.0	76.9	66.8	66.8	162.0	156.0	133.0	125.0	113.0	102.0	98.9	87.1	76.9	66.4	66.4				
145	-	64.0	65.1	65.9	67.2	65.7	68.4	66.3	68.3	67.1	65.6	65.6	63.3	64.3	65.2	66.6	65.1	67.9	65.7	67.8	66.6	65.1					
	B	161.0	157.0	134.0	124.0	113.0	100.0	97.6	85.0	75.5	57.6	56.6	58.0	52.4	53.3	54.4	55.6	54.3	57.0	55.2	57.1	56.1	56.0				
150	-	60.1	61.1	62.0	63.3	61.9	64.5	62.5	64.5	63.4	64.6	64.6	59.5	60.5	61.4	62.7	61.2	64.1	62.0	64.1	62.9	62.3					
	B	158.0	154.0	132.0	122.0	111.0	100.0	98.9	84.0	74.2	64.9	64.9	157.0	152.0	129.0	123.0	111.0	99.3	95.9	84.3	74.2	64.6					
155	-	56.4	57.4	58.4	59.6	58.4	60.9	59.1	61.0	59.9	61.3	61.3	55.9	56.8	57.8	59.0	57.7	60.5	58.5	60.5	59.4	59.3					
	B	156.0	152.0	129.0	120.0	109.0	97.4	94.0	82.7	72.8	63.9	63.9	154.0	149.0	128.0	121.0	109.0	97.8	94.2	83.0	73.0	63.7					
160	-	52.7	53.6	54.8	56.0	55.1	57.5	55.8	56.6	55.6	58.0	58.0	52.4	53.3	54.4	55.6	54.3	57.0	55.2	57.1	56.1	56.0					
	B	153.0	149.																								

		177–433 ft	98 ft	39–138 ft	88,200 lb	286,600 lb – 374,800 lb			529,100 lb – 617,300 lb				
		SL4	D	F			B		330,700 lb – 463,000 lb				
SL4 354													
		F 39	F 59	F 79	F 98	F 118	F 138	F 39	F 59	F 79	F 98	F 118	F 138
		10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°
245	B	15.4	15.7	16.9	17.4	17.4	18.7	18.6	19.4	19.5	21.0	14.7	15.1
		114.0	112.0	96.8	92.1	81.3	75.1	69.0	62.4	53.7	48.9	115.0	113.0
250	B	14.2	14.5	15.6	16.1	16.1	17.5	18.2	18.2	19.8	13.5	13.9	15.1
		113.0	111.0	95.0	91.1	80.1	74.2	68.0	61.6	52.9	48.1	114.0	112.0
255	B	13.0	13.4	14.5	14.9	15.0	16.2	16.2	16.9	17.0	18.6	12.3	12.7
		112.0	110.0	93.8	90.0	79.1	73.3	67.0	60.8	52.2	47.3	112.0	111.0
260	B	12.0	12.3	13.3	13.8	13.9	15.1	15.0	15.8	15.9	17.4	11.1	11.5
		111.0	109.0	92.7	88.9	78.1	72.5	66.1	60.0	51.5	46.6	110.0	109.0
265	B	10.9	11.2	12.3	12.7	12.8	14.0	14.0	14.7	14.7	16.3	9.8	10.2
		110.0	108.0	91.7	87.7	77.2	71.8	65.2	59.3	50.7	45.9	109.0	108.0
270	B	9.8	10.1	11.3	11.7	11.7	12.9	12.9	13.6	13.7	15.2	8.5	8.9
		108.0	107.0	90.9	85.9	76.2	71.0	64.3	58.6	50.1	45.2	107.0	106.0
275	B	8.6	9.0	10.2	10.6	10.7	11.9	11.9	12.6	12.7	14.2	7.3	7.6
		106.0	105.0	90.0	85.2	75.2	70.2	63.4	58.0	49.4	44.5	105.0	104.0
280	B	9.1	9.6	9.6	10.9	10.9	10.9	11.6	11.7	13.2	6.1	6.4	
		104.0	103.0	89.1	84.5	74.4	69.3	62.6	57.3	48.7	43.9	102.0	102.0
285	B	8.0	8.5	8.4	9.9	9.9	9.9	10.6	10.6	12.3			
		101.0	101.0	88.1	83.8	73.6	68.7	61.7	56.7	48.1	43.2	99.9	100.0
290	B	6.9	7.4					8.8	8.9	9.6	9.6	11.3	
		98.4	98.6	87.5	83.1	72.8	68.1	60.9	56.0	47.6	42.6	97.5	97.8
295	B	6.3						7.8	7.9	8.6	8.6	10.3	
		95.8	96.2	87.0	82.8	72.0	67.4	60.2	55.4	47.0	42.1	95.0	95.4
300	B							6.8		7.6	7.6	9.4	
		93.3	93.8	86.5	82.4	71.1	66.8	59.4	54.8	46.4	41.5	92.6	93.0
305	B							5.7		6.6	6.6	8.4	
		90.9	91.4	86.0	82.1	69.9	66.1	58.8	54.2	45.8	40.9	90.2	90.6
310	B											86.8	84.5
		88.5	89.0	85.4	81.8	69.3	65.6	58.1	53.7	45.3	40.4	87.8	88.3
315	B											86.0	84.1
		85.9	86.5	84.6	81.3	68.7	65.0	57.4	53.2	44.8	39.8	85.4	86.0
320	B											85.0	83.7
		83.0	83.6	83.1	80.0	68.1	64.5	56.8	52.6	44.3	39.3	83.1	83.6
325	B											83.9	83.1
		81.7	78.5	67.6	64.0	56.1	52.1	43.8	38.9	30.5	28.1	81.5	81.7
330	B											81.7	80.7
		80.2	76.9	67.1	63.5	55.5	51.6	43.3	38.4	37.6		68.7	64.6
335	B											76.0	76.3
		78.2	75.4	66.6	63.0	54.9	51.2	42.8	37.9			67.5	63.7
340	B											76.0	76.3
		75.9	73.6	66.0	62.5	54.4	50.7	42.3	37.5			66.9	63.2
345	B											73.2	73.6
		65.5	62.1	53.8	50.3	41.9	37.0					71.0	71.3
350	B											66.3	62.7
		65.0	61.7	53.3	49.9	41.5	36.6					69.2	62.3
355	B											65.2	61.8
		64.3	61.3	52.8	49.5	41.1	36.2					55.0	50.0
360	B											64.4	61.3
		60.9	52.4	49.1	40.7	35.8						53.1	49.6
365	B											63.4	60.9
		51.9	48.8	40.3	35.4							52.7	49.2
370	B											52.2	48.9
		51.5	48.5	40.0	35.0							48.5	40.5
375	B											51.8	48.5
		51.0	48.2	39.6	34.6							40.1	35.1
380	B											51.3	48.2
		50.6										39.4	34.7
385	B											47.9	
												39.1	34.0
390	B											38.8	
												33.7	
395	B											38.5	
												33.4	
400	B											38.1	
												33.1	
405	B											37.7	
												32.8	
410	B											32.5	
												32.2	
420	B											32.0	
425	B												



		SL4 374												SL4 384														
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118		F 138				
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°			
60	-	178.0	158.0											173.0														
65	B	178.0	158.0	149.0										173.0	168.0	145.0												
70	B	178.0	158.0	149.0	149.0	136.0	126.0							166.0	166.0	145.0	133.0	123.0										
75	B	154.0	155.0	149.0	149.0	136.0	126.0			109.0				153.0	156.0	145.0	133.0	123.0			106.0							
80	B	143.0	146.0	144.0	144.0	136.0	127.0	113.0	108.0					142.0	144.0	143.0	132.0	123.0	111.0	106.0								
85	-	132.0	135.0	134.0	135.0	126.0	112.0	108.0	98.6	79.7	74.8	132.0	134.0	134.0	132.0	123.0	110.0	105.0	96.6	85.4	73.5							
90	B	177.0	158.0	147.0	135.0	126.0	112.0	108.0	98.6	79.7	74.8	171.0	166.0	143.0	132.0	123.0	110.0	105.0	96.6	85.4	73.5							
95	-	123.0	126.0	125.0	128.0	124.0	112.0	107.0	97.9	79.7	74.2	123.0	125.0	125.0	122.0	122.0	109.0	105.0	95.8	84.9	73.0							
100	B	176.0	158.0	146.0	144.0	134.0	125.0	112.0	107.0	97.9	79.7	170.0	164.0	142.0	131.0	122.0	109.0	105.0	95.8	84.9	73.0							
105	B	115.0	118.0	117.0	119.0	116.0	111.0	107.0	97.2	79.7	73.5	114.0	116.0	116.0	119.0	116.0	109.0	104.0	95.0	84.3	72.3							
110	B	175.0	158.0	145.0	133.0	124.0	111.0	107.0	97.2	79.7	73.5	169.0	163.0	141.0	130.0	121.0	109.0	104.0	95.0	84.3	72.3							
115	B	107.0	110.0	109.0	111.0	109.0	110.0	106.0	96.4	79.7	72.9	106.0	108.0	109.0	111.0	109.0	108.0	104.0	94.3	83.8	71.8							
120	B	174.0	158.0	144.0	143.0	133.0	123.0	110.0	106.0	96.4	79.7	168.0	162.0	140.0	130.0	120.0	108.0	104.0	94.3	83.8	71.8							
125	B	99.9	102.0	102.0	104.0	102.0	106.0	102.0	95.5	79.7	72.2	99.3	101.0	102.0	104.0	101.0	105.0	102.0	93.5	83.3	71.1							
130	B	173.0	158.0	142.0	132.0	122.0	109.0	105.0	105.0	97.7	79.7	167.0	161.0	139.0	129.0	119.0	107.0	103.0	93.5	83.3	71.1							
135	B	93.4	96.0	95.5	97.6	95.4	99.2	95.5	94.7	79.7	71.5	92.7	94.3	95.1	97.1	95.1	98.8	95.0	92.6	82.7	70.5							
140	B	172.0	158.0	141.0	131.0	121.0	108.0	104.0	94.7	79.7	71.5	166.0	160.0	137.0	128.0	118.0	106.0	102.0	92.7	82.7	70.5							
145	B	87.3	89.9	89.6	91.4	89.5	93.0	89.4	92.1	79.7	70.7	86.7	88.1	89.1	91.1	89.0	92.7	89.1	90.7	82.2	69.9							
150	B	171.0	158.0	139.0	130.0	119.0	108.0	104.0	93.5	79.7	70.7	165.0	159.0	136.0	127.0	117.0	106.0	101.0	91.9	82.2	69.9							
155	B	81.8	84.2	84.0	85.9	83.9	87.3	84.1	86.7	79.5	70.0	81.1	82.5	83.4	85.4	83.2	86.8	83.6	86.2	80.8	69.2							
160	B	169.0	158.0	138.0	129.0	118.0	107.0	103.0	92.5	79.7	70.0	164.0	158.0	135.0	126.0	115.0	105.0	101.0	91.2	81.1	69.2							
165	B	76.6	78.9	78.8	80.6	78.6	81.8	78.9	81.5	79.2	69.2	75.8	77.2	78.3	80.1	78.1	81.4	78.4	81.1	78.0	68.4							
170	B	167.0	158.0	137.0	128.0	117.0	106.0	102.0	91.5	79.7	69.2	162.0	156.0	134.0	126.0	114.0	104.0	99.8	90.5	80.1	68.4							
175	B	71.7	74.1	74.0	75.6	73.8	76.9	74.1	76.6	73.6	68.4	71.0	72.3	73.4	75.1	73.2	76.5	73.7	76.3	74.7	67.7							
180	B	166.0	158.0	136.0	127.0	116.0	105.0	101.0	90.4	79.7	68.4	161.0	155.0	133.0	125.0	113.0	103.0	99.1	89.7	79.2	67.7							
185	B	67.2	69.5	69.4	71.0	69.3	72.3	69.8	72.2	71.8	67.6	66.5	67.6	68.7	70.4	68.6	71.8	69.2	71.7	70.3	66.8							
190	B	164.0	158.0	134.0	126.0	114.0	104.0	100.0	89.0	79.7	67.6	160.0	155.0	131.0	124.0	112.0	103.0	98.3	88.7	78.3	66.9							
195	B	63.0	65.2	65.0	66.6	65.0	67.9	65.6	67.9	67.8	61.1	62.1	63.4	64.5	66.0	64.4	67.5	65.1	67.4	66.2	65.7							
200	B	162.0	157.0	133.0	125.0	113.0	103.0	99.4	87.6	78.6	66.7	158.0	154.0	130.0	123.0	111.0	102.0	97.6	87.4	77.2	66.1							
205	B	59.0	61.2	61.1	62.5	61.1	63.9	61.7	63.9	63.6	58.2	59.3	60.4	61.9	63.6	60.4	63.5	61.2	63.5	62.2	62.0							
210	B	159.0	155.0	132.0	124.0	112.0	101.0	98.2	86.2	77.5	65.8	156.0	152.0	130.0	122.0	110.0	107.0	96.7	85.7	76.1	66.6							
215	B	48.5	50.4	50.4	51.7	50.6	53.2	51.5	53.4	53.6	53.9	47.5	48.6	49.7	51.1	49.8	52.7	50.8	52.9	51.9	52.0							
220	B	152.0	149.0	127.0	120.0	108.0	96.9	96.9	88.4	78.2	70.2	60.7	144.0	140.0	120.0	115.0	102.0	92.9	88.9	78.6	68.8	60.5						
225	B	36.4	38.0	38.6	39.8	39.2	41.5	40.2	41.9	42.4	42.8	35.8	36.6	38.1	39.2	38.4	40.9	39.5	41.3	40.6	41.0							
230	B	143.0	140.0	120.0	113.0	101.0	91.0	86.8	77.0	69.0	59.8	141.0	138.0	119.0	113.0	101.0	91.5	87.3	77.4	67.7	59.7							
235	B	33.6	35.2	35.9	36.9	36.6	38.9	37.8	39.4	39.9	40.4	33.1	33.9	35.4	36.5	35.9	38.4	37.1	38.8	38.2	38.5							
240	B	140.0	138.0	119.0	112.0	99.6	87.4	79.8	74.1	66.5	58.8	138.0	136.0	117.0	112.0	99.6	90.1	85.7	76.1	66.6	59.0							
245	B	31.1	32.6	33.4	34.4	34.1	36.4	35.5	37.1	37.6	38.1	30.5	31.2	32.9	33.8	33.5	35.9	34.8	36.4	35.8	36.3							
250	B	28.7	30.2	30.8	31.9	31.7	33.8	32.3	34.8	35.3	35.9	28.1	28.8	30.5	31.5	31.1	33.5	32.6	34.1	33.6	34.1							
255	B	135.0	133.0	116.0	109.0	96.4	87.1	82.3	73.4	65.6	57.4	135.0	132.0	115.0	109.0	96.7	87.7	82.9	73.8	64.4	57.4							
260	B	26.4	27.8	28.6	29.4	29.4	31.4	30.9	32.5	33.2	33.8	25.7	26.5	28.0	29.1	28.9	31.1	30.4	31.9	31.5	32.0							
265	B	134.0	131.0	115.0	108.0	94.9	85.9	80.9	72.3	64.4	56.6	134.0	130.0	114.0	108.0	95.3	86.5	81.6	72.7	63.3	56.6							
270	B	24.3	25.7	26.4	27.3	27.2	29.3	28.7	30.2	31.1	31.8	23.7	24.3	25.9	26.8	26.7	28.9	28.2	29.8	29.4	30.0							
275	B	22.2	23.6	24.3	25.2	25.1	27.1	26.7																				



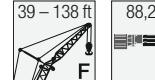
A ft		SL4 374										SL4 384										
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
255	B	8.9	10.3	10.9	11.6	11.5	13.3	13.1	14.1	15.0	15.8	10.5	10.4	12.3	12.1	13.3	13.2	14.1	10.4	12.3	12.1	13.3
		115.0	114.0	98.0	94.2	81.4	75.0	69.0	62.5	54.9	48.5	112.0	112.0	98.4	95.0	82.5	76.1	69.9	63.1	54.0	48.9	
260	B	7.6	8.9	9.5	10.2	10.1	12.0	11.8	12.8	13.7	14.6	9.0	10.9	10.7	12.0	11.9	12.8	11.3	12.0	11.9	12.8	
		112.0	113.0	96.9	93.3	80.4	74.1	68.0	61.7	54.2	47.8	110.0	110.0	97.6	94.2	81.3	74.9	69.0	62.4	53.4	48.3	
265	B	6.3	7.6	8.2	8.9	10.7	10.5	11.5	12.5	13.3	14.6	7.6	9.6	9.3	10.6	10.5	11.5	7.6	9.6	9.3	10.6	
		110.0	110.0	95.9	92.3	79.5	73.3	67.1	61.0	53.5	47.2	108.0	108.0	96.7	93.3	80.3	74.1	68.0	61.7	52.8	47.6	
270	B	6.4	7.0	7.6	8.2	9.3	10.3	11.4	12.1	12.8	13.5	8.3	9.1	9.2	10.2	8.3	8.1	9.2	9.1	8.3	9.2	
		107.0	107.0	95.0	91.2	78.6	72.5	66.1	60.3	52.8	46.5	105.0	106.0	95.8	92.5	79.4	73.2	66.9	60.9	52.1	46.9	
275	B	6.3	7.0	7.6	8.2	9.1	10.2	11.0	11.8	12.5	13.3	6.8	7.9	7.9	8.8	6.8	7.9	7.9	8.8	6.8	7.9	
		104.0	105.0	94.2	90.3	77.6	71.8	65.2	59.5	52.1	45.9	103.0	103.0	94.9	91.5	78.5	72.5	66.0	60.2	51.4	46.3	
280	B	102.0	102.0	93.5	89.6	76.7	71.0	64.4	58.8	51.5	45.2	100.0	101.0	94.0	90.5	77.6	71.8	65.2	59.5	50.7	45.7	
		99.1	99.6	92.9	88.8	75.8	70.2	63.6	58.2	50.8	44.6	97.7	98.0	92.8	89.8	76.7	71.0	64.4	58.8	50.1	45.1	
290	B	96.5	97.2	92.2	88.1	74.8	69.4	62.8	57.5	50.2	44.0	95.2	95.5	91.7	89.1	75.7	70.2	63.6	58.2	49.5	44.5	
		94.0	94.7	91.4	87.4	74.0	68.7	61.9	56.8	49.6	43.4	92.7	93.0	90.6	88.5	74.9	69.5	62.8	57.5	48.8	43.9	
300	B	91.5	92.4	90.1	86.6	73.2	68.1	61.1	56.2	49.0	42.8	90.1	90.5	89.4	87.7	74.1	68.8	62.0	56.8	48.3	43.3	
		88.9	89.9	88.7	85.6	72.4	67.6	60.4	55.5	48.4	42.2	87.6	88.0	87.7	87.0	73.3	68.3	61.2	56.1	47.7	42.7	
310	B	86.3	87.4	87.0	84.6	71.6	67.0	59.7	54.8	47.8	41.7	85.0	85.5	85.6	85.2	72.6	67.7	60.6	55.5	47.1	42.2	
		83.4	84.6	85.1	83.5	70.9	66.4	59.0	54.3	47.2	41.1	82.5	83.0	83.3	83.3	71.8	67.1	59.9	54.9	46.6	41.7	
315	B	80.4	81.5	83.2	82.4	70.2	65.9	58.4	53.8	46.6	40.6	80.0	80.5	80.6	81.1	71.0	66.5	59.2	54.4	46.0	41.2	
		77.4	78.5	81.2	81.1	69.6	65.4	57.7	53.3	46.1	40.0	77.4	77.9	78.0	78.7	70.3	66.0	58.6	53.9	45.4	40.7	
330	B	74.5	75.4	78.9	79.7	68.9	64.9	57.1	52.8	45.6	39.5	74.8	75.3	75.5	76.3	69.6	65.5	57.9	53.4	44.9	40.1	
		72.3	73.0	76.2	77.1	68.3	64.4	56.5	52.3	45.1	39.1	72.3	72.7	72.9	74.0	69.0	65.0	57.3	52.9	44.4	39.6	
340	B	73.6	74.4	67.7	63.9	56.0	51.8	44.6	38.6	30.0	20.3	71.2	71.9	68.4	64.6	56.7	52.4	44.0	39.2	34.0		
		71.0	71.7	67.0	63.4	55.4	51.4	44.1	38.1	30.0	20.3	69.4	70.0	67.7	64.1	56.1	51.9	43.5	38.7			
350	B	68.6	69.1	66.1	62.9	54.8	50.9	43.7	37.7	30.0	20.3	67.7	68.2	67.0	63.5	55.5	51.5	43.1	38.3	34.0		
		66.6	67.0	65.3	62.5	54.3	50.5	43.2	37.3	30.0	20.3	65.9	66.3	65.8	63.0	55.0	51.1	42.6	37.9			
360	B	64.5	62.1	53.7	50.0	42.8	36.8	30.0	20.3	20.0	10.3	64.2	64.5	64.4	62.3	54.4	50.7	42.2	37.4	34.0		
		63.5	61.6	53.3	49.6	42.4	36.4	30.0	20.3	20.0	10.3	62.7	63.0	61.5	53.8	50.3	41.8	36.9				
370	B	62.2	60.9	52.8	49.3	42.0	36.0	30.0	20.3	20.0	10.3	61.6	60.8	53.4	49.8	41.4	36.5	34.0				
		59.9	52.4	49.0	41.6	35.6	30.0	20.3	20.0	10.3	60.1	60.1	52.9	49.5	41.1	36.1	34.0					
380	B	51.9	48.7	41.3	35.3	30.0	20.3	20.0	10.3	10.0	10.0	58.6	58.8	52.5	49.2	40.7	35.7	34.0				
		51.5	48.3	40.9	34.9	30.0	20.3	20.0	10.3	10.0	10.0	52.0	48.9	40.4	35.4	34.0						
390	B	51.1	48.0	40.6	34.5	30.0	20.3	20.0	10.3	10.0	10.0	51.6	48.6	40.1	35.0	34.0						
		40.3	34.2	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	51.1	48.3	39.7	34.7	34.0						
395	B	40.0	33.9	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	47.9	39.4	34.3	34.0							
		39.6	33.6	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	39.1	34.0	34.0								
410	B	33.3	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	10.0	38.8	33.7	33.7								
		33.0	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	10.0	38.5	33.4	33.4								
415	B	32.7	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	10.0	33.1	30.0	30.0								
		32.3	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	10.0	32.8	30.0	30.0								
420	B	32.1	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	10.0	32.5	30.0	30.0								
		31.3	30.0	20.3	20.0	10.3	10.0	10.0	10.0	10.0	10.0	30.5	30.0	30.0								

	177–433 ft		98 ft		39 – 138 ft		88,200 lb		286,600 lb – 374,800 lb		529,100 lb – 617,300 lb	
											330,700 lb – 463,000 lb	
											66,100 lb – 264,600 lb	

ft	B	SL4 394										SL4 404											
		F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98			
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
60	-	162.0										157.0											
65	B	162.0	157.0	136.0								157.0	152.0										
70	B	162.0	157.0	136.0								157.0	152.0										
75	B	149.0	152.0	136.0	125.0	116.0		101.0				148.0	149.0	132.0	123.0	113.0		98.2					
80	B	161.0	156.0	136.0	126.0	116.0		101.0				156.0	151.0	132.0	123.0	113.0		98.2					
85	B	138.0	141.0	135.0	125.0	116.0	106.0	100.0				137.0	141.0	131.0	122.0	113.0	103.0	97.9					
90	B	161.0	155.0	136.0	125.0	116.0	105.0	100.0	92.2			156.0	150.0	131.0	122.0	113.0	102.0	97.5		90.0			
95	B	128.0	131.0	130.0	125.0	116.0	105.0	100.0	92.2			127.0	131.0	128.0	122.0	113.0	102.0	97.5		90.0			
100	B	158.0	153.0	134.0	124.0	115.0	104.0	99.5	91.6	79.7	70.0	118.0	122.0	121.0	120.0	112.0	102.0	97.0	89.4	79.1			
105	B	111.0	113.0	113.0	115.0	113.0	104.0	99.0	90.9	79.7	69.5	110.0	113.0	112.0	115.0	111.0	101.0	96.5	88.8	78.7			
110	B	157.0	152.0	132.0	123.0	114.0	104.0	99.0	90.9	79.7	69.5	152.0	147.0	128.0	120.0	111.0	101.0	96.5	88.8	78.7			
115	B	103.0	106.0	105.0	108.0	106.0	103.0	98.4	90.2	79.7	69.0	102.0	106.0	105.0	107.0	105.0	101.0	95.9	88.2	78.2			
120	B	156.0	151.0	131.0	122.0	113.0	103.0	98.4	90.2	79.7	69.0	151.0	146.0	127.0	119.0	110.0	101.0	95.9	88.2	78.2			
125	B	108.0	109.0	109.0	109.0	109.0	109.0	106.0	97.6	97.6	89.5	79.4	150.0	145.0	126.0	119.0	109.0	100.0	94.8	87.6	77.7		
130	B	155.0	150.0	130.0	122.0	112.0	102.0	97.6	97.6	89.5	88.5	150.0	145.0	126.0	119.0	109.0	100.0	95.2	87.6	77.7			
135	B	89.7	92.3	92.0	94.0	92.5	95.1	91.1	88.7	79.0	67.9	89.1	91.9	91.3	93.6	92.0	94.7	90.7	87.1	77.2			
140	B	153.0	149.0	129.0	121.0	111.0	101.0	96.8	88.7	79.0	67.9	148.0	144.0	125.0	118.0	108.0	99.1	94.6	87.1	77.2			
145	B	83.8	86.4	85.8	87.9	86.4	89.0	85.5	87.2	78.5	67.4	83.0	85.9	85.3	87.3	86.0	88.5	85.0	86.3	76.8			
150	B	152.0	148.0	127.0	120.0	110.0	100.0	96.2	87.8	78.5	67.4	147.0	143.0	124.0	117.0	107.0	98.3	94.0	86.3	76.8			
155	B	78.2	80.9	80.3	82.1	81.0	83.2	80.0	82.9	77.6	66.8	77.6	80.3	79.7	81.6	80.5	82.9	79.5	82.4	76.2			
160	B	150.0	147.0	126.0	119.0	109.0	99.6	95.6	86.8	77.9	66.8	146.0	142.0	123.0	117.0	106.0	97.5	93.4	85.5	76.3			
165	B	73.2	75.6	75.1	76.9	75.9	78.2	75.1	77.8	75.3	66.2	72.5	75.0	74.4	76.4	75.3	77.7	74.6	77.4	74.3			
170	B	148.0	146.0	125.0	118.0	108.0	98.9	94.8	86.2	77.3	66.2	145.0	141.0	122.0	116.0	105.0	96.8	92.7	84.8	75.6			
175	B	68.4	70.8	70.2	72.0	71.1	73.3	70.5	73.1	72.4	65.6	67.6	70.2	69.7	71.4	70.6	72.8	69.9	72.6	71.5			
180	B	147.0	144.0	124.0	118.0	107.0	98.3	94.1	85.6	76.8	65.6	143.0	139.0	121.0	115.0	104.0	96.3	92.0	84.1	75.2			
185	B	63.9	66.2	65.8	67.4	66.8	68.8	66.1	68.6	68.4	64.7	63.2	65.5	65.1	66.8	66.2	68.3	65.7	68.2	68.1			
190	B	145.0	143.0	123.0	117.0	106.0	97.6	93.3	94.9	74.4	64.9	142.0	138.0	120.0	114.0	103.0	95.8	91.1	83.4	74.7			
195	B	59.8	61.9	61.6	63.2	62.6	64.6	62.2	64.5	64.3	63.4	58.9	61.2	60.9	62.6	62.0	64.1	61.6	64.0	64.0			
200	B	144.0	141.0	122.0	116.0	105.0	97.0	92.6	84.2	75.7	64.2	140.0	137.0	119.0	113.0	103.0	95.3	90.5	82.6	74.2			
205	B	55.8	57.9	57.6	59.2	58.7	60.6	58.3	60.6	60.6	60.7	54.9	57.2	57.0	58.5	58.2	60.1	57.8	60.1	60.2			
210	B	142.0	139.0	121.0	115.0	104.0	96.2	91.9	83.6	75.0	63.6	139.0	136.0	119.0	112.0	101.0	94.8	89.9	82.1	73.8			
215	B	52.1	54.2	54.0	55.4	55.1	56.9	54.8	57.0	57.1	57.2	51.3	53.4	53.3	54.8	54.5	56.4	54.2	56.5	56.6			
220	B	140.0	137.0	120.0	114.0	103.0	95.3	90.8	81.3	73.1	61.6	137.0	135.0	118.0	111.0	101.0	94.1	89.1	81.6	73.3			
225	B	34.0	35.7	36.1	37.1	37.3	38.7	37.3	39.1	39.6	40.0	33.1	35.1	35.2	36.3	36.6	38.1	36.6	38.5	39.0			
230	B	135.0	131.0	115.0	110.0	106.0	95.4	90.2	85.0	77.2	69.0	58.7	126.0	124.0	109.0	108.0	94.5	89.4	83.5	77.5	68.9		
235	B	31.5	33.1	33.6	34.6	34.8	36.2	34.9	36.6	37.1	37.6	30.6	32.5	32.8	33.9	34.1	35.6	34.2	36.0	36.6			
240	B	126.0	123.0	109.0	105.0	94.0	88.9	83.9	76.1	68.0	58.0	124.0	122.0	107.0	103.0	100.0	89.4	85.3	79.3	72.9	65.2		
245	B	28.9	30.6	31.1	32.2	32.6	33.8	32.6	34.3	34.8	35.3	28.2	30.1	30.4	31.5	31.8	33.2	31.9	33.7	34.3			
250	B	124.0	121.0	107.0	104.0	92.8	87.7	82.7	74.9	67.0	55.1	123.0	120.0	106.0	102.0	91.8	87.3	81.3	75.2	67.2			
255	B	26.6	28.1	28.8	29.8	30.4	31.6	30.5	32.1	32.7	33.1	25.8	27.6	28.1	29.2	29.7	30.9	29.7	31.4	32.1			
260	B	18.8	20.0	20.7	21.5	21.9	23.2	22.8	24.0	24.9	25.5	17.9	19.4	20.0	20.8	21.7	22.9	22.0	23.5	24.3			
265	B	122.1	23.6	24.3	25.3	26.1	27.1	26.5	28.0	28.6	29.1	21.7	23.3	23.7	24.8	25.4	26.7	25.8	27.3	28.0			
270	B	118.0	117.0	103.0	100.0	89.6	84.2	79.2	71.6	63.8	55.1	117.0	115.0	101.0	99.1	88.3	84.4	78.3	71.9	64.1			
275	B	20.4	21.7	22.5	23.2	24.0	25.2	24.6	26.0	26.7	27.3	19.7	21.3	21.7	22.7	23.6	24.7	23.8	25.4	26.0			
280	B	117.0	115.0	101.0	98.6	88.6	83.3	78.0	70.6	62.8	54.4	116.0	114.0	99.7	98.1	87.4	83.5	77.3	70.9	63.1			
285	B	18.8	20.0	20.7	21.5	21.9	23.2	22.8	24.0	24.9	25.5	17.9	19.4	20.0	20.8	21.7	22.9	22.0	23.5	24.3			
290	B	115.0	113.0	99.4	97.1	87.6	82.5	77.0	69.5	61.9	53.7	115.0	112.0	98.6	96.6	86.5	82.5	76.4	70.0	62.1			
295	B	17.1	18.4	18.9	19.7	20.4	21.3	21.1	22.3	23.1	23.8	16.0	17.7	18.3	19.1	19.9	21.1	20.3	21.6	22.5			
300	B	114.0																					

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	SL4 394										SL4 404											
	F 39		F 59		F 79		F 98		F 118		F 138		F 39		F 59		F 79		F 98		F 118	
ft	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°
260	-	B	103.0	101.0	88.1	85.5	77.5	74.2	68.5	62.1	54.6	48.0	102.0	101.0	88.0	86.1	77.9	74.6	69.2	62.8	55.2	10.6
265	-	B	102.0	100.0	87.3	84.6	76.5	72.8	67.6	61.4	53.9	47.4	101.0	100.0	86.8	85.1	76.8	73.9	68.1	62.0	54.5	9.2
270	-	B	100.0	99.2	86.5	83.8	75.5	71.2	66.5	60.7	53.2	46.8	99.8	99.2	85.6	84.1	75.6	73.0	67.3	61.3	53.8	7.9
275	-	B	98.4	97.8	85.6	83.0	74.5	70.4	65.7	59.9	52.5	46.1	98.3	98.1	84.8	83.1	74.6	72.0	66.4	60.6	53.2	
280	-	B	96.6	96.2	84.6	82.1	73.4	69.7	64.8	59.2	51.9	45.5	96.2	96.3	84.0	82.2	73.9	71.0	65.7	59.9	52.5	
285	-	B	94.8	94.6	83.5	81.2	72.5	69.0	64.1	58.4	51.2	44.9	94.0	94.2	83.2	81.5	73.2	69.9	64.9	59.0	51.9	
290	-	B	92.9	93.0	82.0	79.9	71.8	68.3	63.3	57.8	50.6	44.2	91.9	92.1	82.4	80.7	72.6	69.2	64.1	58.4	51.2	
295	-	B	90.8	91.3	81.4	79.3	71.0	67.6	62.6	57.2	50.0	43.6	89.7	89.9	81.4	79.9	71.9	68.6	63.4	57.8	50.7	
300	-	B	88.3	88.9	80.8	78.9	70.3	66.9	61.8	56.6	49.4	43.1	87.4	87.8	80.3	79.2	71.2	68.0	62.6	57.2	50.1	
305	-	B	85.8	86.5	80.1	78.4	69.6	65.7	61.1	56.0	48.8	42.5	84.9	85.4	79.3	78.5	70.4	67.4	61.9	56.6	49.4	
310	-	B	83.0	83.7	79.3	77.9	69.0	64.9	60.4	55.5	48.3	42.0	82.4	82.9	78.3	77.7	69.1	66.7	61.2	56.1	48.9	
315	-	B	80.3	80.9	78.0	77.0	68.3	64.5	59.4	54.9	47.8	41.5	79.8	80.4	77.3	77.0	68.5	65.9	60.4	55.5	48.4	
320	-	B	77.7	78.3	76.8	75.9	67.6	64.0	58.8	54.4	47.2	41.0	77.2	77.8	75.8	75.9	68.0	65.3	59.7	54.9	47.8	
325	-	B	75.1	75.6	75.2	74.7	66.8	63.5	58.2	53.9	46.7	40.5	74.7	75.3	74.3	74.6	67.5	65.0	59.1	54.3	47.3	
330	-	B	73.2	73.5	73.6	73.3	66.3	62.8	57.7	53.3	46.1	40.0	72.3	72.9	72.7	73.2	67.0	64.6	58.5	53.8	46.8	
335	-	B	71.2	71.6	72.0	71.9	65.9	62.4	57.1	52.9	45.6	39.5	70.2	70.7	71.0	71.5	66.3	64.3	57.9	53.3	46.1	
340	-	B	69.3	69.7	70.3	70.4	65.5	62.2	56.5	52.4	45.1	39.0	68.4	68.8	69.3	69.8	65.5	63.8	57.4	52.9	45.6	
345	-	B	67.4	67.7	68.6	68.9	65.1	61.9	56.0	51.9	44.7	38.6	66.6	67.0	67.6	68.1	64.7	63.3	56.7	52.4	45.2	
350	-	B	65.6	65.9	66.9	67.2	64.6	61.7	55.5	51.5	44.2	38.1	64.7	65.1	65.8	66.4	63.9	62.8	56.2	51.9	44.8	
355	-	B	64.0	65.1	65.5	64.2	61.4	55.0	51.0	43.8	37.7	62.9	63.3	64.2	64.7	63.1	62.3	55.6	51.5	44.4		
360	-	B	63.4	63.9	63.4	61.1	54.5	50.6	43.4	37.3	61.2	61.5	62.5	63.1	62.2	61.8	55.1	51.0	44.0			
365	-	B	61.7	62.3	62.0	60.4	54.0	50.2	43.0	36.9			60.9	61.4	61.3	61.2	54.6	50.7	43.5			
370	-	B	60.0	60.7	60.5	59.5	53.6	49.8	42.6	36.5			59.2	59.8	59.9	60.3	54.1	50.3	43.2			
375	-	B			59.1	58.5	53.1	49.4	42.2	36.1			57.6	58.2	58.4	58.8	53.6	49.9	42.8			
380	-	B			57.7	57.6	52.7	49.1	41.9	35.7			56.6	56.9	57.3	53.1	49.6	42.4				
385	-	B			56.3	56.5	52.2	48.8	41.5	35.4						55.4	55.9	52.6	49.2	42.0		
390	-	B				55.2	51.8	48.5	41.2	35.0						54.0	54.4	52.0	48.9	41.7		
395	-	B					51.4	48.1	40.9	34.7						52.5	53.0	51.4	48.6	41.3		
400	-	B					50.7	47.8	40.6	34.4								50.9	48.3	40.9		
405	-	B					49.9	47.5	40.2	34.0								50.1	48.0	40.6		
410	-	B							39.9	33.7								49.1	47.5	40.3		
415	-	B							39.6	33.4									46.9	40.1		
420	-	B							39.4	33.1										39.8		
425	-	B							39.1	32.8										39.5		
430	-	B								32.6										39.2		
435	-	B								32.3												
440	-	B								32.1												
445	-	B								31.8												
450	-	B								31.5												

 177–433 ft	 98 ft	 39 – 138 ft	 88,200 lb	286,600 lb – 374,800 lb	 529,100 lb – 617,300 lb	
					 330,700 lb – 463,000 lb	
					 66,100 lb – 264,600 lb	

 ft	SL4 413								SL4 423								SL4 433			
	F 39		F 59		F 79		F 98		F 39		F 59		F 79		F 39		F 59		F 39	
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°
60	-	146.0							142.0										131.0	127.0
	B	146.0							142.0										131.0	127.0
65	-	146.0	141.0						141.0	137.0									130.0	126.0
	B	146.0	141.0						141.0	137.0									130.0	126.0
70	-	145.0	141.0	123.0					140.0	136.0	119.0								130.0	126.0
	B	145.0	141.0	123.0					140.0	136.0	119.0								129.0	126.0
75	-	142.0	139.0	123.0	115.0	106.0			138.0	136.0	119.0	113.0	103.0					128.0	126.0	111.0
	B	145.0	140.0	123.0	115.0	106.0			140.0	136.0	119.0	113.0	103.0					129.0	126.0	111.0
80	-	134.0	134.0	122.0	115.0	105.0	97.5	92.4	132.0	132.0	118.0	112.0	102.0	95.0	124.0	123.0	110.0	105.0		
	B	143.0	139.0	122.0	115.0	105.0	97.5	92.4	139.0	135.0	118.0	112.0	102.0	95.0	128.0	125.0	110.0	105.0		
85	-	124.0	126.0	119.0	114.0	105.0	96.8	92.0	85.4	124.0	126.0	116.0	111.0	102.0	94.5	118.0	119.0	109.0	104.0	
	B	142.0	139.0	121.0	114.0	105.0	96.8	92.0	85.4	138.0	134.0	117.0	111.0	102.0	94.5	127.0	124.0	109.0	104.0	
90	-	115.0	117.0	115.0	113.0	104.0	96.1	91.7	84.8	115.0	117.0	113.0	110.0	101.0	93.9	111.0	112.0	107.0	103.0	
	B	141.0	137.0	120.0	114.0	104.0	96.1	91.7	84.8	137.0	133.0	116.0	110.0	101.0	93.9	126.0	123.0	109.0	103.0	
95	-	107.0	109.0	108.0	111.0	103.0	95.4	91.1	84.1	106.0	109.0	107.0	108.0	99.9	93.4	103.0	105.0	103.0	102.0	
	B	140.0	136.0	119.0	113.0	103.0	95.4	91.1	84.1	135.0	132.0	115.0	109.0	100.0	93.4	125.0	122.0	108.0	102.0	
100	-	99.6	101.0	101.0	104.0	99.8	95.0	90.4	83.5	99.2	101.0	99.8	103.0	98.1	92.7	95.2	97.0	96.8	98.5	
	B	139.0	135.0	118.0	112.0	103.0	95.0	90.4	83.5	134.0	131.0	114.0	109.0	99.4	92.7	124.0	121.0	107.0	102.0	
105	-	92.8	94.4	93.5	96.9	93.9	93.7	89.6	82.8	92.2	93.9	92.7	96.4	93.4	92.0	88.3	90.1	90.0	92.4	
	B	137.0	133.0	117.0	111.0	102.0	94.4	89.6	82.8	133.0	130.0	114.0	108.0	98.7	92.0	122.0	120.0	106.0	101.0	
110	-	86.3	88.0	87.0	90.3	87.5	90.2	86.5	82.3	85.7	87.4	86.4	89.8	87.1	89.8	82.1	83.6	83.9	86.0	
	B	136.0	132.0	116.0	110.0	101.0	93.8	89.0	82.3	131.0	128.0	113.0	107.0	97.9	91.4	121.0	119.0	105.0	100.0	
115	-	80.5	82.0	81.2	84.2	81.9	84.3	80.8	81.2	79.8	81.2	80.5	83.8	81.4	83.9	76.2	77.8	78.0	80.2	
	B	135.0	130.0	116.0	110.0	99.7	93.4	88.3	81.7	130.0	127.0	112.0	106.0	97.1	91.0	120.0	117.0	104.0	99.5	
120	-	75.0	76.4	75.7	78.8	76.5	79.0	75.6	78.2	74.1	75.7	75.0	78.3	75.9	78.5	70.9	72.4	72.8	74.7	
	B	133.0	130.0	115.0	109.0	98.9	92.9	87.8	81.2	129.0	126.0	111.0	106.0	96.3	90.5	118.0	116.0	103.0	99.2	
125	-	69.8	71.2	70.7	73.6	71.5	73.8	70.8	73.6	69.1	70.5	70.0	73.0	71.0	73.3	65.9	67.3	67.9	69.8	
	B	132.0	129.0	114.0	108.0	98.0	92.4	87.1	80.7	128.0	125.0	110.0	105.0	95.4	90.0	117.0	115.0	102.0	98.4	
130	-	65.1	66.4	66.0	68.8	66.9	69.1	66.2	68.8	64.4	65.7	65.2	68.3	66.3	68.7	61.2	62.7	63.3	65.1	
	B	130.0	128.0	113.0	107.0	97.2	91.7	86.3	80.2	127.0	123.0	109.0	104.0	94.7	89.4	116.0	114.0	101.0	97.6	
135	-	60.7	61.9	61.5	64.4	62.5	64.7	62.1	64.6	59.9	61.2	60.8	63.8	62.0	64.2	57.0	58.3	59.0	60.7	
	B	128.0	126.0	112.0	107.0	96.4	90.9	85.7	79.7	125.0	122.0	109.0	104.0	94.0	88.8	115.0	113.0	100.0	96.8	
140	-	56.5	57.8	57.5	60.1	58.6	60.5	58.0	60.5	55.8	57.0	56.7	59.6	58.0	60.1	53.0	54.2	55.0	56.7	
	B	127.0	125.0	110.0	106.0	95.7	90.1	85.1	79.1	124.0	120.0	108.0	104.0	93.4	88.1	114.0	111.0	99.6	96.0	
145	-	52.7	53.8	53.6	56.3	54.8	56.8	54.4	56.8	51.9	53.1	52.8	55.7	54.1	56.2	49.2	50.4	51.3	52.9	
	B	126.0	124.0	109.0	105.0	95.0	89.7	84.4	78.4	122.0	119.0	106.0	103.0	93.1	87.4	113.0	110.0	98.6	95.2	
150	-	49.0	50.1	50.0	52.6	51.2	53.1	50.9	53.2	48.2	49.4	49.3	51.9	50.6	52.5	45.7	46.8	47.8	49.3	
	B	125.0	122.0	108.0	104.0	94.1	89.1	83.7	77.7	121.0	118.0	105.0	102.0	92.2	86.8	112.0	109.0	97.6	94.3	
155	-	45.6	46.7	46.6	49.1	47.9	49.7	47.7	49.8	44.8	45.9	45.8	48.5	47.2	49.1	42.3	43.4	44.4	45.9	
	B	123.0	120.0	107.0	103.0	93.3	88.2	82.7	77.2	119.0	117.0	104.0	101.0	91.4	86.2	110.0	108.0	96.6	93.3	
160	-	42.4	43.4	43.4	45.9	44.7	46.5	44.6	46.7	41.6	42.7	42.6	45.3	44.1	45.8	39.2	40.2	41.3	42.7	
	B	121.0	119.0	105.0	102.0	92.6	87.4	81.8	76.7	117.0	115.0	103.0	99.9	85.4	109.0	107.0	95.5	92.5		
165	-	39.4	40.4	40.4	42.8	41.7	43.4	41.6	43.7	38.6	39.6	39.6	42.2	41.1	42.8	36.3	37.2	38.3	39.8	
	B	120.0	117.0	104.0	101.0	91.8	86.7	81.3	76.2	116.0	114.0	102.0	98.9	89.7	84.8	107.0	106.0	94.3	91.5	
170	-	36.5	37.5	37.6	39.9	38.9	40.6	38.9	40.9	35.7	36.7	36.7	39.3	38.2	39.9	33.4	34.4	35.6	36.9	
	B	118.0	115.0	102.0	99.4	90.7	86.3	80.8	75.7	115.0	113.0	100.0	97.6	88.9	84.4	106.0	104.0	93.1	90.5	
175	-	34.0	34.8	34.9	37.2	36.2	37.8	36.3	38.2	33.0	33.9	34.1	36.5	35.6	37.2	30.8	31.7	32.9	34.2	
	B	116.0	113.0	101.0	98.1	89.3	85.6	80.2	75.2	114.0	112.0	98.9	96.3	87.7	84.1	105.0	103.0	91.8	89.4	
180	-	31.4	32.3	32.3	34.6	33.7	35.2	33.8	35.7	30.5	31.4	31.5	33.9	33.0	34.6	28.4	29.2	30.4	31.7	
	B	114.0	112.0	99.0	96.8	88.1	84.6	79.1	74.7	112.0	110.0	97.5	95.2	86.5	83.2	104.0	102.0	90.6	88.3	
185	-	28.9	29.8	30.0	32.1	31.3	32.8	31.5	33.2	28.1	29.0	29.0	31.4	30.6	32.1	26.0	26.9	28.1	29.2	
	B	113.0	110.0	97.5	95.4	86.8	83.5	78.1	73.9	111.0	109.0									

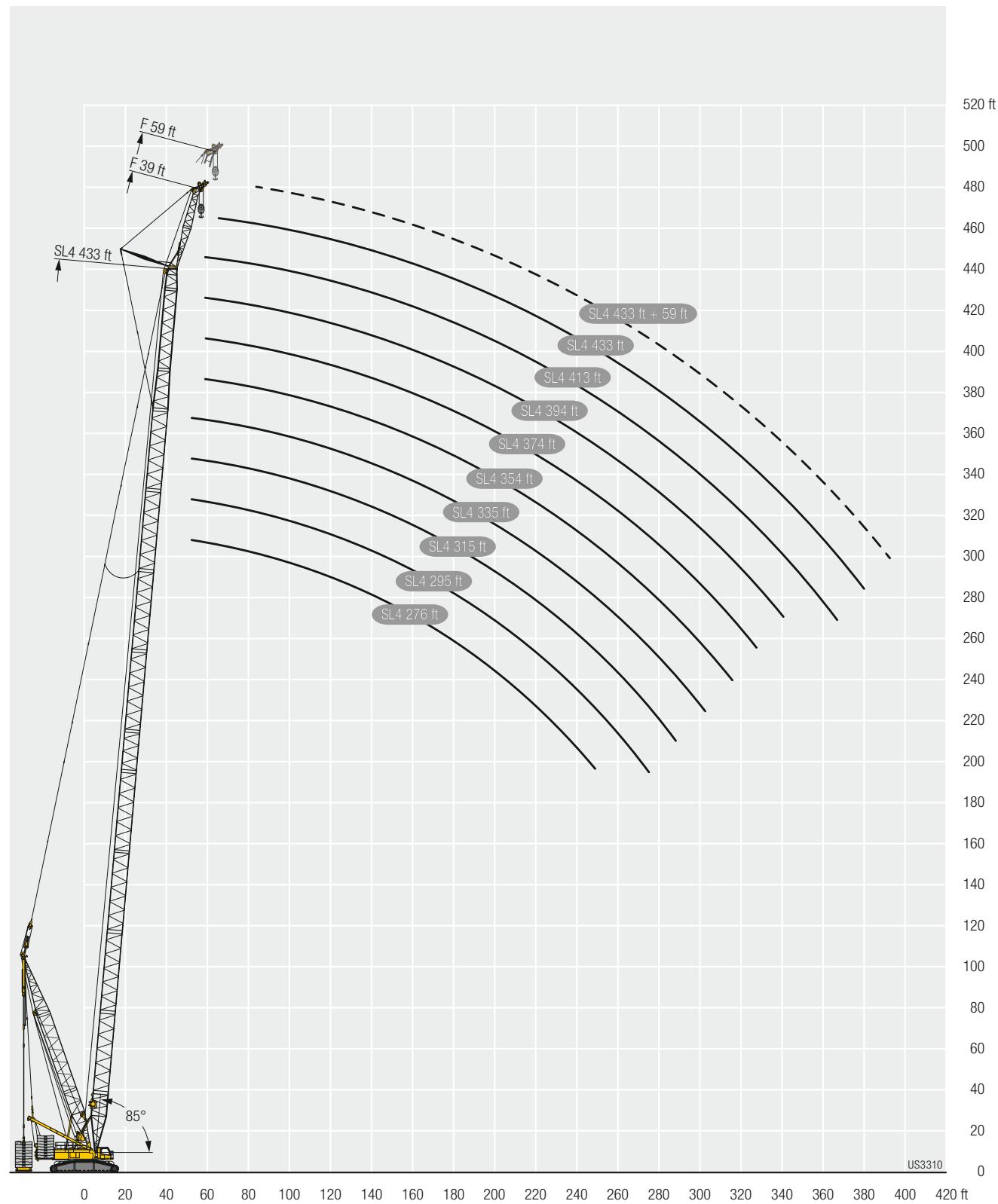
 177–433 ft	 98 ft	 39 – 138 ft	 88,200 lb	286,600 lb – 374,800 lb	 B	529,100 lb – 617,300 lb
						330,700 lb – 463,000 lb 66,100 lb – 264,600 lb

 ft	SL4 413								SL4 423								SL4 433				
	F 39		F 59		F 79		F 98		F 39		F 59		F 79		F 39		F 59		F 39		
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
245	-	B	92.4	91.2	81.4	80.7	73.5	71.5	66.0	63.9	92.9	91.3	81.4	80.0	73.2	70.8	86.1	85.3	75.9	75.0	
250	-	B	91.1	89.9	80.3	79.1	72.6	70.7	65.2	63.2	91.4	90.2	80.5	79.1	72.4	70.0	85.1	83.8	75.1	74.1	
255	-	B	89.8	88.7	79.2	78.2	71.5	69.9	64.4	62.5	89.8	88.7	79.6	78.2	71.7	69.5	84.0	82.8	74.3	73.0	
260	-	B	88.5	87.5	77.8	77.1	70.0	69.0	63.6	61.7	88.2	87.2	78.7	77.4	70.3	69.0	82.8	81.7	73.4	71.9	
265	-	B	87.2	86.4	76.4	75.9	68.5	67.9	62.8	61.0	87.2	85.9	77.1	76.4	68.7	67.8	81.6	80.6	72.5	71.2	
270	-	B	86.0	85.3	75.2	74.6	67.7	66.7	62.0	60.2	86.3	85.1	75.6	74.9	67.9	66.3	80.4	79.5	71.3	70.3	
275	-	B	85.0	84.0	74.4	73.3	66.9	65.4	61.3	59.5	85.4	84.3	74.7	73.7	67.0	65.6	79.4	78.4	70.0	69.2	
280	-	B	84.0	82.8	73.6	72.5	66.1	64.5	60.4	58.8	84.4	83.4	74.0	72.9	66.0	64.8	78.6	77.5	69.3	68.0	
285	-	B	83.3	82.0	72.8	71.8	65.4	63.8	59.3	58.0	83.4	82.4	73.3	72.3	65.0	63.9	77.7	76.7	68.7	67.3	
290	-	B	82.6	81.2	72.0	71.1	64.6	63.1	58.1	57.0	82.0	81.4	72.5	71.6	63.9	63.0	76.8	75.8	68.0	66.7	
295	-	B	81.8	80.4	71.1	70.3	63.9	62.5	57.0	56.0	80.5	80.0	71.7	70.9	63.3	62.1	75.8	74.9	67.3	66.1	
300	-	B	81.1	79.6	70.0	69.5	63.2	61.8	56.4	54.9	79.0	78.6	70.9	70.2	62.7	61.3	74.7	74.0	66.6	65.5	
305	-	B	80.3	78.8	68.9	68.5	62.5	61.2	55.8	54.0	77.6	77.3	69.4	69.4	62.1	60.8	73.7	73.1	65.8	64.7	
310	-	B	78.7	77.6	68.4	67.6	61.8	60.6	55.2	53.5	76.1	76.0	68.9	68.1	61.4	60.2	72.6	72.1	64.8	64.0	
315	-	B	77.0	76.1	67.8	67.1	60.3	59.8	54.6	53.0	74.5	74.6	68.3	67.5	60.8	59.7	71.5	71.2	63.8	63.0	
320	-	B	75.1	74.5	67.3	66.6	59.6	58.5	54.0	52.5	72.8	73.0	67.8	67.0	60.0	59.1	70.2	70.2	63.3	62.3	
325	-	B	73.0	72.7	66.6	66.1	59.0	57.9	53.1	52.0	71.2	71.3	67.2	66.5	59.3	58.4	68.8	68.9	62.8	61.8	
330	-	B	71.0	70.9	65.8	65.4	58.5	57.4	52.1	51.3	69.4	69.6	66.5	66.0	58.5	57.7	67.3	67.5	62.3	61.4	
335	-	B	69.0	69.1	65.1	64.7	58.0	56.9	51.6	50.4	67.7	67.9	65.5	65.1	58.1	57.1	65.8	66.0	61.7	60.9	
340	-	B	67.0	67.3	64.4	64.1	57.2	56.4	51.1	49.9	66.0	66.1	64.4	64.2	57.6	56.5	64.2	64.5	60.8	60.2	
345	-	B	65.3	65.6	63.8	63.6	56.5	55.6	50.7	49.5	64.2	64.4	63.3	63.2	57.1	56.1	62.6	62.9	60.0	59.4	
350	-	B	63.5	63.9	63.1	63.0	56.1	55.1	50.2	49.1	62.5	62.8	62.1	62.1	56.6	55.7	61.1	61.4	59.1	58.6	
355	-	B	61.8	62.2	62.3	62.3	55.7	54.8	49.6	48.7	60.8	61.2	60.9	60.9	56.1	55.3	59.5	59.8	58.2	57.8	
360	-	B	60.1	60.5	61.0	61.4	55.3	54.5	49.1	48.2	59.1	59.5	59.7	59.8	55.7	54.9	58.0	58.3	57.3	57.0	
365	-	B	58.4	58.9	59.5	59.9	54.9	54.1	48.5	47.8	57.4	57.9	58.4	58.6	55.4	54.6	56.4	56.7	56.3	56.1	
370	-	B	57.2	58.0	58.3	54.6	53.8	48.2	47.4	55.7	56.3	57.0	57.2	54.9	54.3	54.9	55.2	55.3	55.2		
375	-	B	56.5	56.8	54.0	53.4	47.9	46.9	54.1	54.7	55.5	55.7	54.5	53.9	53.4	53.7	53.9	54.1			
380	-	B	55.0	55.3	53.2	52.8	47.6	46.7			54.0	54.2	54.0	53.5	51.9	52.2	52.5	52.8			
385	-	B	53.5	53.8	52.4	52.1	47.3	46.4			52.6	52.7	52.7	52.8		50.6	51.1	51.5			
390	-	B					51.6	51.4	47.0	46.2			51.1	51.2	51.4	51.6		49.7	50.1		
395	-	B					50.8	50.8	46.7	46.0			49.6	49.7	50.2	50.4		48.4	48.8		
400	-	B					49.7	49.9	46.4	45.8					48.9	49.2		47.1	47.4		
405	-	B						48.8	46.2	45.6					47.6	47.9					
410	-	B							46.0	45.4					46.2	46.6					
415	-	B							45.4	45.2						45.3					
420	-	B							44.8	44.5											

Lifting heights

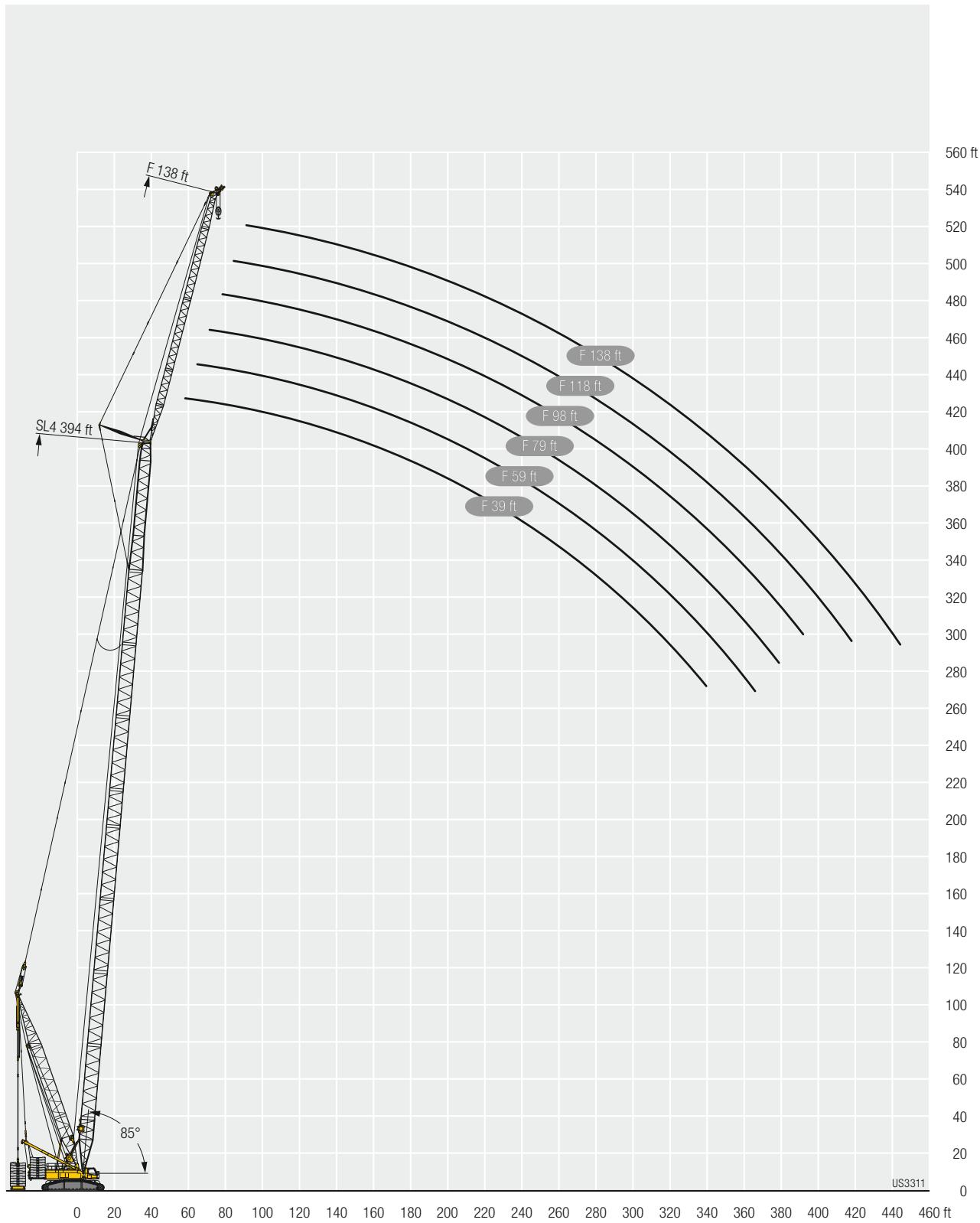
Hauteurs de levage

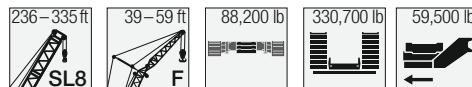
SL4DFB



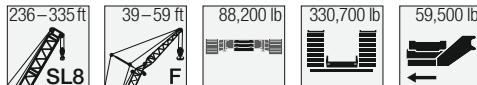
Lifting heights Hauteurs de levage

SL4DFB





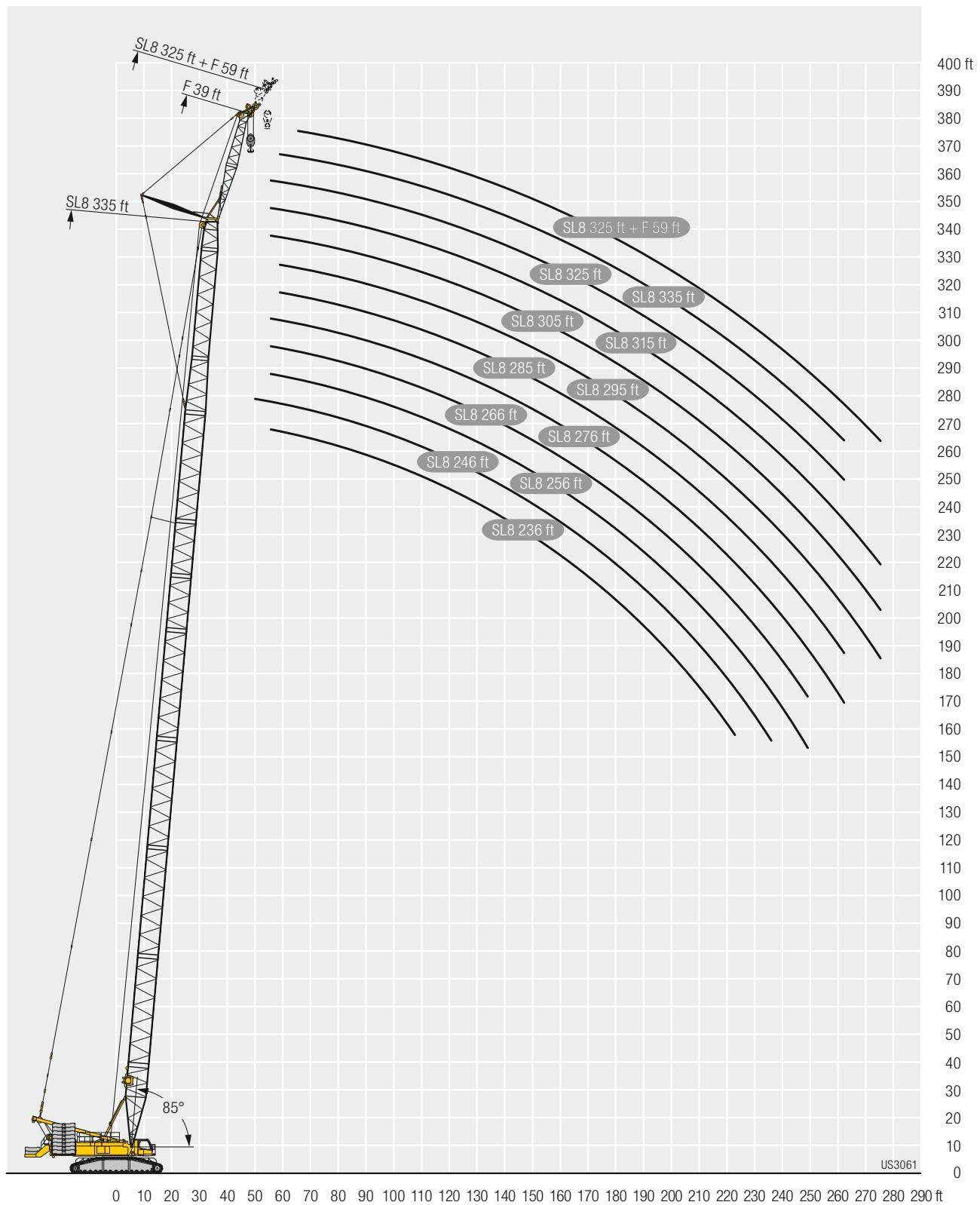
A ft	SL8 236				SL8 246				SL8 256				SL8 266				SL8 276				
	F 39		F 59		F 39		F 59		F 39		F 59		F 39		F 59		F 39		F 59		
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
55	253.0				248.0	242.0			244.0				239.0								
60	231.0	233.0			226.0	229.0	206.0		223.0	225.0			219.0	221.0			215.0	217.0			
65	211.0	214.0	198.0		207.0	210.0	199.0	167.0	204.0	206.0	198.0		200.0	203.0	198.0		197.0	199.0	195.0		
70	195.0	197.0	190.0	162.0	191.0	193.0	190.0	162.0	188.0	190.0	188.0	162.0	184.0	187.0	185.0	163.0	181.0	183.0	182.0	162.0	
75	180.0	182.0	179.0	157.0	176.0	178.0	177.0	157.0	174.0	176.0	174.0	158.0	170.0	172.0	171.0	158.0	168.0	169.0	168.0	158.0	
80	167.0	169.0	167.0	152.0	164.0	165.0	164.0	153.0	161.0	163.0	162.0	154.0	158.0	160.0	159.0	154.0	155.0	157.0	156.0	154.0	
85	155.0	157.0	156.0	148.0	152.0	154.0	153.0	149.0	150.0	151.0	150.0	150.0	147.0	149.0	148.0	148.0	144.0	146.0	145.0	147.0	
90	145.0	146.0	146.0	144.0	142.0	144.0	143.0	144.0	140.0	141.0	141.0	143.0	137.0	138.0	138.0	141.0	134.0	136.0	135.0	138.0	
95	136.0	137.0	136.0	138.0	133.0	134.0	134.0	136.0	131.0	132.0	132.0	134.0	128.0	129.0	129.0	132.0	126.0	127.0	127.0	129.0	
100	127.0	128.0	128.0	130.0	124.0	126.0	125.0	128.0	122.0	124.0	123.0	126.0	120.0	121.0	121.0	123.0	117.0	119.0	119.0	121.0	
105	118.0	119.0	120.0	122.0	116.0	118.0	118.0	120.0	115.0	116.0	116.0	118.0	112.0	113.0	113.0	116.0	110.0	111.0	111.0	114.0	
110	110.0	111.0	112.0	114.0	109.0	110.0	111.0	113.0	107.0	108.0	109.0	111.0	105.0	106.0	106.0	109.0	103.0	104.0	105.0	107.0	
115	103.0	104.0	105.0	107.0	101.0	102.0	103.0	105.0	100.0	101.0	102.0	104.0	98.4	99.5	100.0	103.0	96.8	98.0	98.3	101.0	
120	96.4	97.3	98.3	100.0	94.8	95.7	96.6	98.5	93.8	94.5	95.6	97.6	91.8	92.8	94.0	96.0	90.5	91.6	92.5	94.7	
125	90.4	91.2	92.3	93.8	88.7	89.4	90.5	92.4	87.5	88.6	89.5	91.4	86.0	86.9	87.9	89.8	84.6	85.5	86.7	88.7	
130	84.8	85.4	86.5	88.4	83.0	84.0	85.1	86.7	82.1	82.8	84.1	85.7	80.2	81.3	82.4	84.2	79.2	80.1	81.1	83.1	
135	79.6	80.4	81.5	83.0	78.0	78.6	79.8	81.6	76.9	77.8	79.0	80.7	75.3	76.1	77.4	79.0	74.0	74.8	76.0	77.8	
140	75.0	75.6	76.6	78.3	73.2	74.0	75.2	76.7	72.3	73.0	74.1	75.8	70.5	71.4	72.6	74.4	69.4	70.2	71.4	73.1	
145	70.5	71.2	72.4	73.7	68.9	69.5	70.7	72.3	67.8	68.6	69.8	71.4	66.3	67.0	68.2	69.8	64.9	65.7	66.9	68.8	
150	66.5	67.1	68.2	69.7	64.8	65.5	66.7	68.1	63.9	64.5	65.7	67.2	62.1	62.9	64.1	65.8	61.0	61.7	63.0	64.5	
155	62.8	63.2	64.4	65.8	61.1	61.7	62.8	64.3	60.1	60.7	61.9	63.4	58.4	59.1	60.3	61.8	57.2	57.8	59.1	60.8	
160	59.2	59.8	60.9	62.2	57.5	58.0	59.3	60.7	56.6	57.2	58.3	59.8	54.9	55.5	56.8	58.3	53.7	54.4	55.6	57.1	
165	56.0	56.4	57.5	58.9	54.2	54.8	56.0	57.3	53.3	53.8	55.0	56.5	51.6	52.2	53.5	54.9	50.4	51.0	52.2	53.8	
170	52.9	53.3	54.5	55.6	51.2	51.7	52.9	54.2	50.2	50.8	51.9	53.3	48.6	49.1	50.3	51.8	47.4	48.0	49.2	50.6	
175	50.0	50.5	51.5	52.7	48.3	48.8	50.0	51.2	47.4	47.8	49.0	50.3	45.7	46.2	47.4	48.8	44.5	45.0	46.2	47.7	
180	47.3	47.7	48.8	49.9	45.6	46.1	47.2	48.4	44.6	45.1	46.3	47.5	43.0	43.5	44.7	46.0	41.8	42.4	43.6	44.9	
185	44.7	45.1	46.2	47.3	43.1	43.5	44.6	45.8	42.1	42.6	43.7	44.9	40.4	40.9	42.1	43.4	39.3	39.7	40.9	42.3	
190	42.3	42.7	43.8	44.9	40.6	41.1	42.2	43.3	39.7	40.1	41.3	42.4	38.1	38.5	39.7	40.9	36.8	37.4	38.5	39.8	
195	40.1	40.4	41.5	42.5	38.4	38.8	39.9	41.0	37.5	37.9	38.9	40.1	35.8	36.2	37.4	38.5	34.6	35.1	36.2	37.5	
200	37.9	38.2	39.3	40.3	36.3	36.6	37.7	38.7	35.3	35.7	36.8	37.9	33.6	34.1	35.2	36.4	32.4	32.9	34.1	35.3	
205	35.9	36.2	37.3	38.2	34.2	34.6	35.6	36.7	33.3	33.6	34.7	35.8	31.6	32.0	33.2	34.3	30.5	30.9	32.0	33.2	
210	34.0	34.3	35.3	36.2	32.3	32.6	33.7	34.7	31.4	31.7	32.8	33.8	29.7	30.1	31.2	32.3	28.5	28.9	30.1	31.2	
215	32.2	32.4	33.4	34.3	30.5	30.8	31.8	32.8	29.6	29.9	30.9	31.9	27.9	28.2	29.3	30.4	26.7	27.1	28.2	29.3	
220	30.5	30.7	31.7	32.5	28.8	29.0	30.1	31.0	27.8	28.1	29.1	30.1	26.2	26.4	27.6	28.6	25.0	25.3	26.5	27.5	
225	28.8	29.0	30.0	30.8	27.1	27.4	28.4	29.2	26.2	26.5	27.5	28.4	24.5	24.8	25.9	26.9	23.3	23.7	24.8	25.8	
230	27.3	27.5	28.4	29.2	25.6	25.8	26.8	27.6	24.6	24.9	25.9	26.8	23.0	23.3	24.3	25.2	21.9	22.2	23.2	24.2	
235	25.8	26.0	26.9	27.6	24.1	24.3	25.3	26.1	23.2	23.4	24.4	25.2	21.6	21.8	22.8	23.7	20.6	20.8	21.7	22.6	
240			25.4	26.1	22.7	22.9	23.8	24.6	21.8	22.0	22.9	23.7	20.4	20.6	21.5	22.3	19.4	19.6	20.5	21.3	
245			24.1	24.7			22.5	23.2	20.7	20.8	21.7	22.3	19.2	19.4	20.3	21.0	18.3	18.5	19.3	20.1	
250			22.8	23.4			21.3	21.9	19.6	19.7	20.5	21.2	18.1	18.3	19.1	19.9	17.2	17.4	18.2	19.0	
255				22.1			20.2	20.8			19.5	20.1	17.0	17.2	18.1	18.8	16.1	16.3	17.1	17.9	
260							19.2	19.7			18.4	19.0			16.1	17.1	17.7	14.9	15.1	16.1	16.8
265											17.5	18.0			16.1	16.7	13.7	13.9		15.1	15.8
270												17.1			15.0	15.6			14.0	14.7	
275															13.9	14.6			12.9	13.6	
280																			11.8	12.5	
285																			10.8	11.4	



A ft	SL8 285				SL8 295				SL8 305				SL8 315				SL8 325				SL8 335		
	F 39		F 59		F 39		F 59		F 39		F 59		F 39		F 59		F 39		F 59		F 39		
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
55		228.0							211.0				203.0										
60	211.0	213.0	194.0		208.0	207.0	186.0		202.0	202.0			195.0	193.0			189.0	188.0					180.0
65	193.0	195.0	189.0	166.0	191.0	193.0	182.0	162.0	187.0	189.0	177.0		184.0	184.0	168.0		179.0	179.0	163.0				174.0
70	178.0	180.0	178.0	162.0	176.0	178.0	176.0	159.0	172.0	175.0	171.0	155.0	170.0	172.0	165.0	149.0	167.0	169.0	159.0	146.0		163.0	
75	164.0	166.0	165.0	158.0	162.0	164.0	163.0	155.0	159.0	161.0	160.0	152.0	157.0	159.0	157.0	147.0	154.0	157.0	153.0	144.0		152.0	
80	152.0	154.0	153.0	154.0	150.0	152.0	151.0	151.0	147.0	149.0	148.0	147.0	145.0	147.0	146.0	142.0	142.0	145.0	143.0	140.0		141.0	
85	141.0	143.0	142.0	145.0	140.0	141.0	141.0	143.0	137.0	138.0	138.0	140.0	135.0	137.0	136.0	138.0	132.0	135.0	133.0	134.0		131.0	
90	132.0	133.0	133.0	136.0	130.0	132.0	131.0	133.0	127.0	129.0	129.0	131.0	126.0	127.0	127.0	130.0	123.0	125.0	124.0	128.0		121.0	
95	123.0	124.0	124.0	127.0	121.0	123.0	123.0	125.0	119.0	120.0	120.0	122.0	117.0	119.0	119.0	122.0	114.0	117.0	116.0	119.0		113.0	
100	115.0	116.0	116.0	119.0	113.0	115.0	115.0	117.0	111.0	112.0	112.0	114.0	109.0	111.0	111.0	114.0	107.0	107.0	108.0	111.0		105.0	
105	107.0	109.0	109.0	111.0	106.0	107.0	108.0	109.0	103.0	105.0	105.0	107.0	102.0	104.0	104.0	107.0	99.6	102.0	101.0	104.0		98.5	
110	101.0	102.0	102.0	105.0	99.4	101.0	101.0	103.0	96.8	98.2	98.6	100.0	95.7	97.0	97.4	100.0	93.1	95.5	95.0	97.9		92.1	
115	94.4	95.6	95.9	98.4	93.3	94.5	94.9	96.6	90.8	92.1	92.5	94.3	89.6	90.9	91.4	94.0	87.2	89.5	89.1	91.9		86.2	
120	88.6	89.7	90.3	92.6	87.6	88.8	89.3	90.9	85.2	86.3	87.0	88.6	84.1	85.3	85.9	88.5	81.7	83.9	83.5	86.3		80.7	
125	82.8	83.8	84.9	87.1	82.2	83.2	84.0	85.6	80.0	81.1	81.8	83.3	78.9	80.1	80.7	83.3	76.6	78.7	78.5	81.1		75.6	
130	77.5	78.2	79.5	81.5	76.6	77.7	79.0	80.4	74.9	76.0	77.0	78.5	74.1	75.1	75.9	78.4	71.9	73.9	73.8	76.3		71.0	
135	72.3	73.3	74.4	76.3	71.8	72.7	73.9	75.2	70.0	70.9	72.3	73.6	69.3	70.2	71.5	73.7	67.4	69.2	69.4	71.8		66.6	
140	67.6	68.3	69.7	71.5	67.0	68.0	69.2	70.3	65.5	66.4	67.6	68.9	64.8	65.5	66.9	68.9	62.9	64.7	65.2	67.4		62.3	
145	63.3	64.1	65.4	67.2	62.8	63.5	64.9	65.9	61.0	62.0	63.2	64.4	60.5	61.4	62.6	64.5	58.8	60.4	60.9	63.0		58.2	
150	59.3	59.9	61.2	63.1	58.7	59.5	60.8	62.0	57.1	57.9	59.3	60.3	56.4	57.2	58.6	60.5	54.7	56.4	56.9	58.9		54.3	
155	55.5	56.3	57.6	59.2	55.0	55.6	57.0	58.1	53.2	54.1	55.4	56.6	52.7	53.5	54.9	56.7	51.1	52.5	53.3	55.1		50.4	
160	52.0	52.6	53.9	55.7	51.5	52.2	53.6	54.5	49.8	50.5	52.0	52.9	49.2	50.0	51.2	53.2	47.6	49.1	49.8	51.7		47.1	
165	48.8	49.4	50.7	52.2	48.2	48.8	50.2	51.2	46.5	47.3	48.7	49.7	46.0	46.7	48.1	49.7	44.3	45.8	46.4	48.3		43.8	
170	45.7	46.2	47.5	49.2	45.1	45.8	47.2	48.0	43.5	44.1	45.5	46.5	42.9	43.6	44.9	46.7	41.3	42.8	43.4	45.1		40.7	
175	42.8	43.4	44.7	46.1	42.3	42.8	44.1	45.1	40.6	41.3	42.7	43.6	40.1	40.7	42.1	43.7	38.4	39.8	40.4	42.3		37.9	
180	40.1	40.6	41.9	43.4	39.6	40.2	41.5	42.3	37.9	38.5	39.9	40.8	37.4	38.0	39.4	41.0	35.8	37.1	37.8	39.4		35.2	
185	37.6	38.1	39.4	40.7	37.0	37.5	38.9	39.7	35.4	36.0	37.4	38.1	34.9	35.4	36.7	38.4	33.2	34.6	35.2	36.9		32.7	
190	35.2	35.7	36.9	38.3	34.6	35.2	36.5	37.2	33.0	33.5	34.8	35.7	32.5	33.1	34.4	35.9	30.8	32.1	32.8	34.4		30.2	
195	32.9	33.4	34.7	35.9	32.4	32.8	34.1	34.9	30.7	31.3	32.6	33.3	30.2	30.7	32.0	33.6	28.6	29.9	30.5	32.1		28.6	
200	30.8	31.2	32.5	33.8	30.2	30.7	32.0	32.6	28.6	29.0	30.4	31.2	28.1	28.6	29.9	31.3	26.4	27.6	28.3	29.9		25.9	
205	28.7	29.2	30.4	31.6	28.2	28.6	29.9	30.6	26.5	27.0	28.4	29.0	26.1	26.5	27.8	29.3	24.4	25.6	26.3	27.7		23.9	
210	26.9	27.3	28.4	29.7	26.3	26.7	28.0	28.6	24.6	25.0	26.4	27.1	24.1	24.6	25.9	27.2	22.6	23.6	24.3	25.8		22.1	
215	25.0	25.4	26.6	27.8	24.5	24.8	26.1	26.7	22.8	23.3	24.6	25.1	22.4	22.7	24.0	25.4	21.0	22.0	22.6	23.9		20.4	
220	23.3	23.7	24.8	26.0	22.7	23.1	24.4	24.9	21.2	21.6	22.8	23.4	20.9	21.2	22.4	23.6	19.4	20.4	21.0	22.3		19.0	
225	21.8	22.0	23.2	24.3	21.3	21.6	22.7	23.3	19.8	20.2	21.3	21.8	19.4	19.7	20.9	22.0	18.1	19.0	19.5	20.6		17.9	
230	20.4	20.7	21.7	22.7	19.9	20.2	21.2	21.7	18.5	18.8	19.9	20.4	18.1	18.4	19.5	20.5	16.7	17.6	18.2	19.3		16.6	
235	19.2	19.4	20.4	21.3	18.6	18.9	19.9	20.4	17.2	17.5	18.6	19.0	16.8	17.1	18.2	19.2	15.5	16.3	16.9	17.9		15.0	
240	17.9	18.2	19.1	20.0	17.4	17.7	18.7	19.1	16.0	16.2	17.4	17.8	15.6	15.9	17.0	17.9	14.2	15.1	15.6	16.7		13.8	
245	16.7	17.0	18.0	18.8	16.3	16.5	17.5	17.9	14.7	14.9	16.2	16.6	14.4	14.7	15.8	16.7	12.9	13.8	14.4	15.5		12.5	
250	15.5	15.8	16.9	17.6	15.0	15.3	16.4	16.7	13.4	13.6	15.0	15.4	13.2	13.4	14.6	15.6	11.5	12.6	13.3	14.3		11.2	
255	14.3	14.6	15.8	16.5	13.7	14.0	15.3	15.6	12.1	12.4	13.8	14.3	12.0	12.2	13.6	14.5	10.2	11.2	12.2	13.2		9.8	
260	13.1	13.4	14.7	15.5	12.4	12.8	14.1	14.5	10.7	11.1	12.6	13.0	10.7	10.9	12.4	13.4	9.0	9.9	10.9	12.1		8.8	
265	12.0	12.2	13.5	14.3	11.3	11.6	13.0	13.4	9.6	9.9	11.4	11.8	9.5	9.7	11.2	12.3	7.8	8.7	9.6	10.9		7.6	
270	10.8	11.1	12.4	13.2	10.1	10.4	11.7	12.2	8.4	8.7	10.2	10.7	8.3	8.5	10.0	11.1	6.6	7.6	8.4	9.7		6.4	
275	10.0	11.3	12.1	9.0	9.3	10.6	11.0	7.4	7.6	9.1	9.5	7.2	7.4	8.9	10.0	6.4	7.2	8.4					
280	10.2	11.0	8.0	8.2	9.6	9.9	6.3	6.5	7.9	8.4	6.2	6.4	7.9	8.8	6.8	7.7	6.2	7.3					
285		9.1	10.0			8.6	8.9			6.9	7.4					6.8	7.7						
290		8.2	8.9			7.6	7.8			5.9	6.3					5.8	6.6						
295					7.9				6.6	6.8						5.7							
300					5.7																		

Lifting heights Hauteurs de levage

SL8 236 - 276

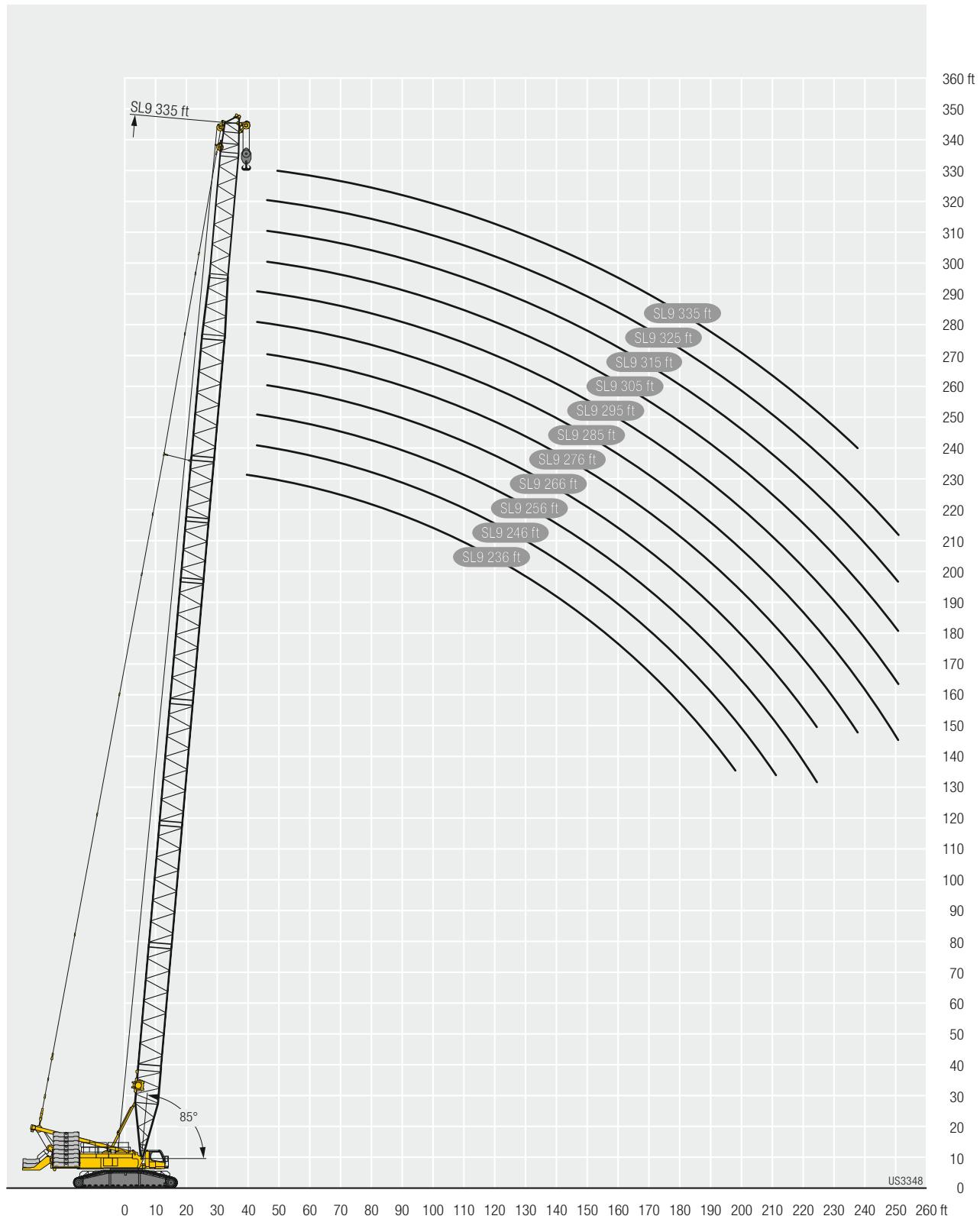




ft	SL9 236	SL9 246	SL9 256	SL9 266	SL9 276	SL9 285	SL9 295	SL9 305	SL9 315	SL9 325	SL9 335	ft
40	360											40
45	318	312	305	298	288	282	271	261	265			45
50	283	278	273	267	259	252	243	235	239	233	225	50
55	255	251	246	239	233	228	221	213	216	210	203	55
60	231	227	223	219	213	207	201	194	197	192	186	60
65	211	207	203	199	194	190	185	178	180	175	170	65
70	193	189	186	182	177	173	169	164	166	161	156	70
75	177	173	170	168	163	159	155	151	152	149	145	75
80	164	161	158	154	150	147	144	139	140	137	133	80
85	152	149	146	144	140	136	133	129	130	126	122	85
90	141	138	136	133	130	127	123	119	120	117	114	90
95	131	128	126	124	121	119	116	111	111	108	106	95
100	121	119	118	115	113	111	108	104	104	101	98.3	100
105	112	110	109	107	105	103	101	97.5	97.6	95.1	92	105
110	104	102	101	99.8	98.2	96.3	94.7	91.5	90.9	89	86.2	110
115	96.4	95.1	93.9	92.7	91.3	89.8	88.6	85.9	84.8	83	80.6	115
120	89.7	88.4	87.4	86	84.7	83.5	82.6	80.3	79.2	77.3	75.4	120
125	83.8	82.3	81.4	80	78.8	77.4	76.8	74.7	74	72.3	70.2	125
130	78.3	76.9	75.8	74.6	73.1	72	71.2	69.5	68.9	67.4	65.6	130
135	73.2	71.8	70.8	69.4	68.2	66.8	66.3	64.4	63.9	62.7	60.9	135
140	68.6	67.1	66.2	64.8	63.5	62.3	61.6	59.9	59.3	58.1	56.7	140
145	64.3	62.8	61.8	60.5	59.3	57.9	57.3	55.5	55.1	53.9	52.5	145
150	60.3	58.9	57.9	56.5	55.3	54	53.3	51.6	51.1	49.9	48.7	150
155	56.6	55.1	54.2	52.8	51.5	50.3	49.6	47.9	47.4	46.3	44.9	155
160	53.1	51.7	50.7	49.4	48.1	46.8	46.2	44.4	43.9	42.8	41.6	160
165	49.9	48.5	47.5	46.1	44.9	43.6	42.9	41.2	40.7	39.6	38.3	165
170	47	45.5	44.5	43.1	41.9	40.6	40	38.1	37.7	36.6	35.3	170
175	44.2	42.7	41.7	40.3	39.1	37.8	37.1	35.4	34.9	33.8	32.5	175
180	41.5	40	39	37.6	36.4	35.1	34.5	32.6	32.3	31.1	29.9	180
185	39.1	37.6	36.6	35.2	33.9	32.6	32	30.2	29.7	28.6	27.4	185
190	36.8	35.2	34.3	32.9	31.6	30.3	29.6	27.8	27.5	26.2	25.1	190
195	34.6	33.1	32.1	30.6	29.4	28.1	27.4	25.6	25.2	24.1	22.8	195
200	32.6	31	30	28.5	27.3	26	25.3	23.6	23.2	22	21	200
205	30.7	29.1	28.1	26.6	25.4	24	23.3	21.6	21.3	20.3	19.2	205
210		27.3	26.3	24.8	23.5	22.3	21.6	20	19.7	18.7	17.6	210
215		25.6	24.5	23	21.9	20.6	20	18.3	18.2	16.9	15.9	215
220			22.9	21.5	20.4	19	18.3	16.6	16.5	15.2	14.1	220
225				19.9	18.8	17.3	16.7	14.9	14.9	13.6	12.4	225
230				18.4	17.3	15.8	15.2	13.4	13.3	12.1	10.9	230
235					15.9	14.4	13.6	11.9	11.8	10.5	9.5	235
240					14.6	13	12.3	10.4	10.4	9.1	8	240
245						11.7	10.9	9.1	9.1	7.8	6.6	245
250							9.6	7.8	7.7	6.5		250
255							8.4	6.6	6.6			255

Lifting heights Hauteurs de levage

SL9



Description of symbols

Explication des symboles

General symbols/Symboles généraux

	Max. capacity Capacité max.		Rope length Longueur du câble
	Max. boom length Longueur maxi. de la fleche principale		Slewing speeds Vitesses d'orientation
	Max. boom system length Longueur maxi. du systeme de fleche		Driving speed Vitesse de translation
	Counterweight Contrepoids		Load Forces de levage
	Central ballast Contrepoids central		Hookblock / Capacity Moufle à crochet / Capacité de charge
	Width crawler chassis Largeur du train de chenilles		No. of sheaves Poulies
	Hoist gear Treuil de levage		No. of lines Brins
	Working speeds Vitesses		Weight Poids
	Max. single line pull Effort au brin maxi.		Radius Portée
	Rope diameter Diamètre		Page Page

Crane specific symbols/Symboles spécifiques à la grue

	Main boom S Flèche principale S		Lattice type luffing fly jib W Fléchette treillis à volée variable W
	Main boom SL/SL2/SL3/SL4/SL8 Flèche principale SL/SL2/SL3/SL4/SL8		Counterweight frame B Palette de lest B
	Derrick system D Système derrick D		Extension of slewing platform ballast Extension de lest de partie tournante
	Fixed lattice jib F Fléchette à treillis fixe F		

Remarks referring to load charts

1. The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.
2. For the calculation of the load charts at least a wind speed of 29 ft/s (9 m/s, 20.1 miles/hour) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced.
3. The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
4. Lifting capacities are given in kips.
5. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
6. The working radii are measured from the slewing centreline.
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 please take from the operation manual and the load chart book.

Remarques relatives aux tableaux des charges

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

Proposition 65



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

Subject to modification / Sous réserve de modifications

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Printed in Germany (1) lwe-td-252-02-us12-2019