

Crawler Crane / Grue sur chenilles

LR 1500

LR 1500

smart
crane
LIEBHERR

**strong
compact**



550 USt



433 ft



**276 ft +
276 ft**



374,800 lb



88,200 lb



**617,300 lb
x 52.5 ft**



25 ft

LIEBHERR

LIEBHERR

Table of content

Tables des matières

Technical Data/Caractéristiques technique	
Equipment/Équipement	3 – 4
Dimensions/Encombrement	5 – 9
Crane data/Dates de la grue	10
Transportation plan/Plan de transport	11 – 12
Boom/jib combinations/Configurations de flèche	13 – 15
SL	16 – 17
SL2DB	18 – 20
S	21 – 22
SDB	23 – 25
SW	26 – 40
SDWB	41 – 59
Example/Exemple W_{max}	60
SLF	61 – 69
SL3F	70 – 83
SL4DFB	84 – 111
SL8F	112 – 114
SL9	115 – 116
Description of symbols/Explication des symboles	117
Remarks/Remarques	118

Equipment

Équipement

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

Équipement

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

Train de chenilles

Mécanisme de translation	Le train de chenilles Liebherr est composé d'une partie centrale et de deux longerons avec patins de chenilles 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 grue sont commandés par deux manipulateurs à 4 voies et deux pédale/levier à 2 voies. Tous les mouvements de travail peuvent être commandés indépendamment.
Dispositifs de sécurité	Interrupteur de fin de course. Clapets de sécurité contre les ruptures de tuyaux et de flexibles. Coupure de fin de course du tambour avec 3 enroulements de sécurité. Anémomètre de sécurité. Inclinomètre électronique. Balise aérienne.
Contrôle vidéo	2 écrans couleur, 3 caméras pour la zone de treuils et la partie arrière.
Contrepoids	2 consoles de 11,025 lb chacune. Contrepoids total 374,800 lb. 16 plaques de lest à 22,050 lb (option).

Système de flèche

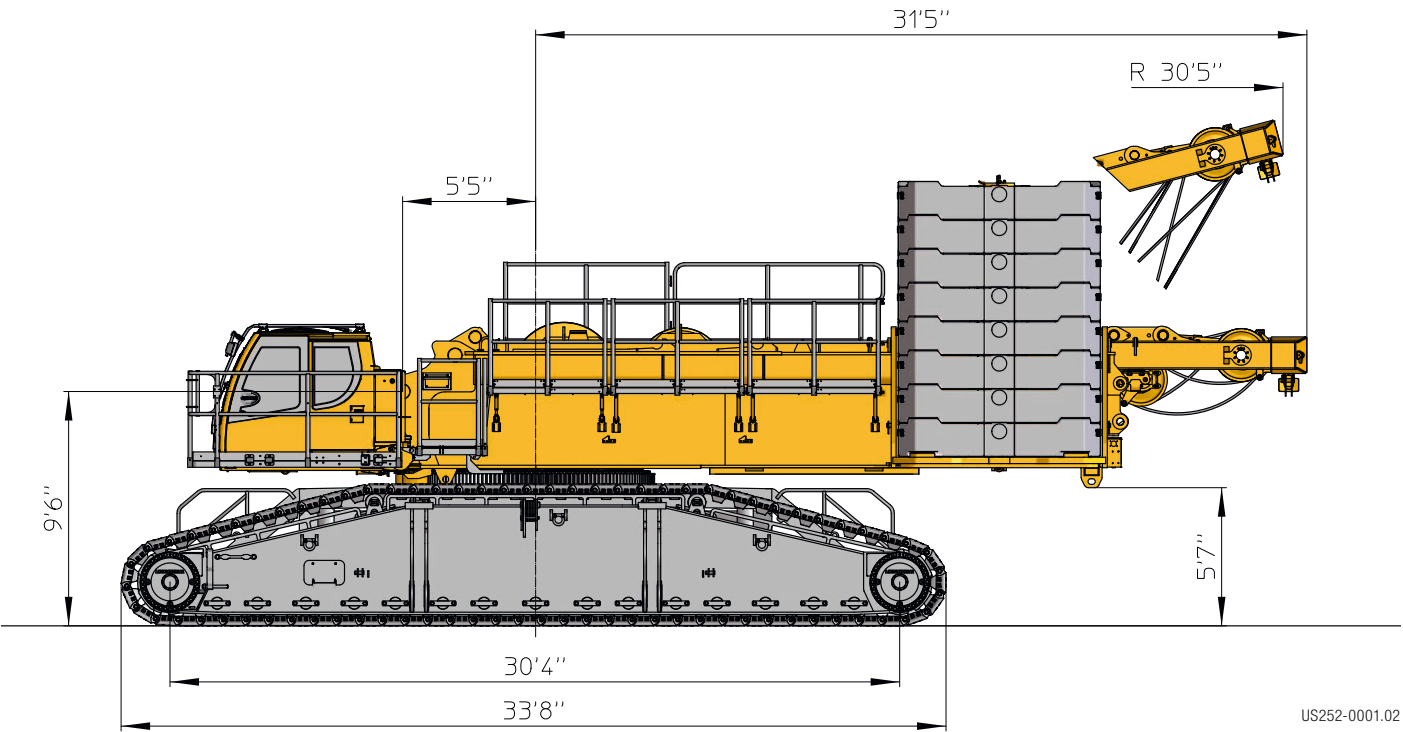
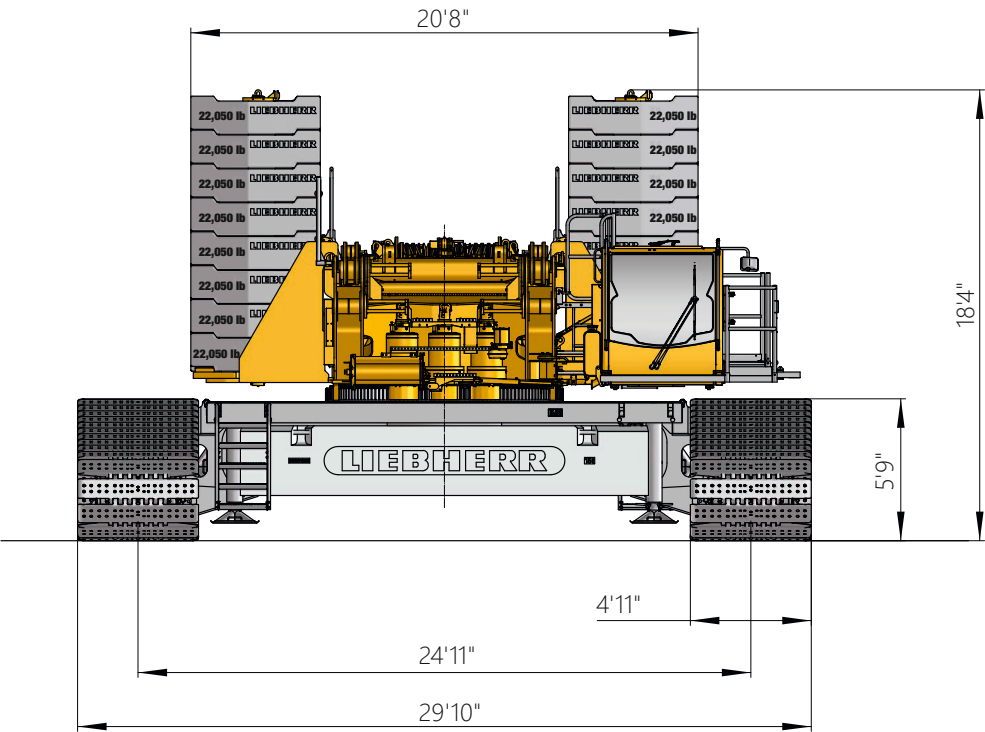
Flèche principale S	Système 2822 avec élément de tête pour une capacité de charge max. de 882,000 lb. Longueur de flèche S 79 ft – S 315 ft. Longueur de flèche SDB 118 ft – SDB 374 ft avec système derrick.
Fléchette treillis à volée variable W	Système 2418 avec élément de tête pour une capacité max.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

Équipement additionnel

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

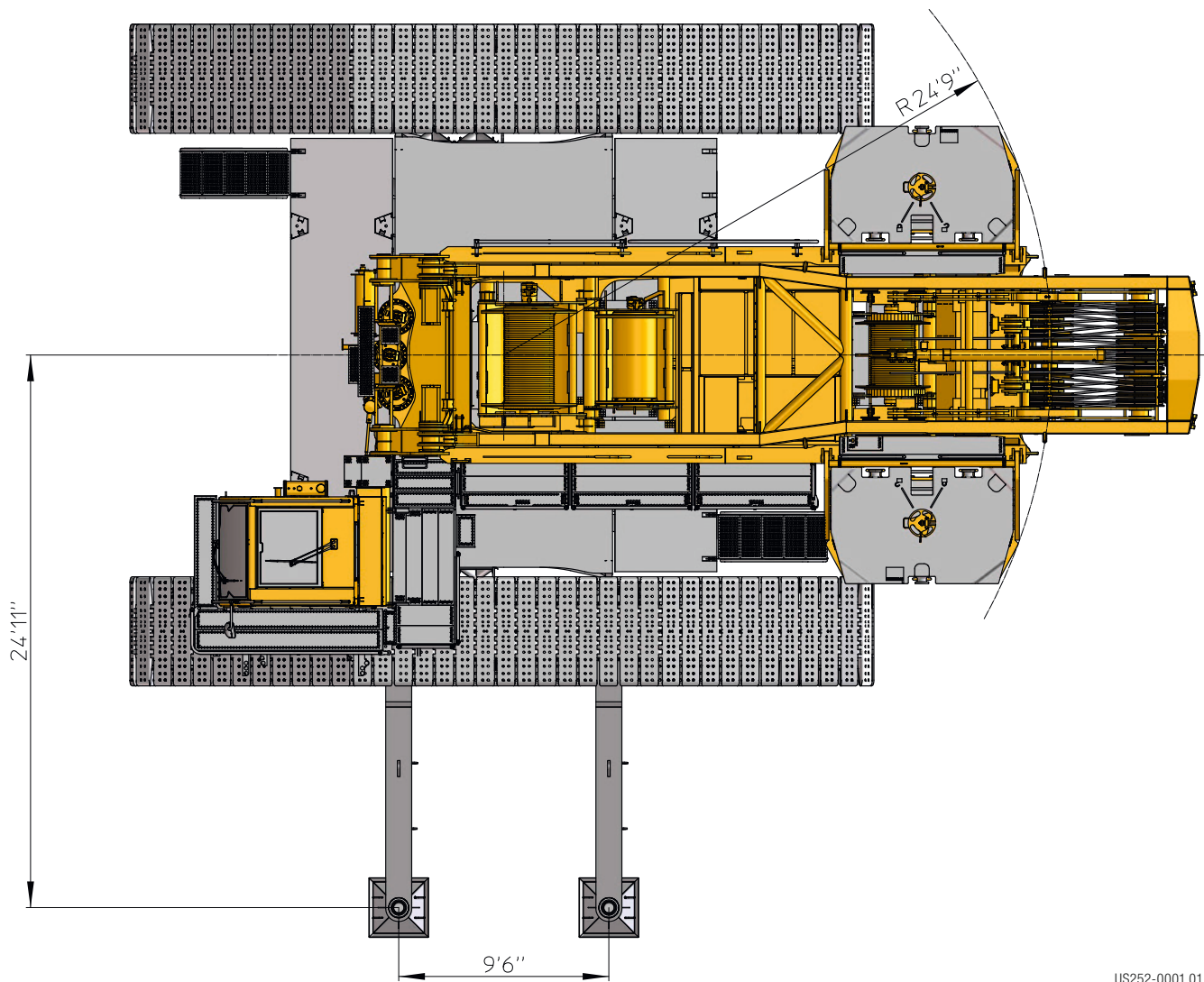
D'autres équipements additionnels sont disponibles sur demande.
Les équipements de série et les options correspondent à la liste de prix actuelle.

Dimensions Encombrement



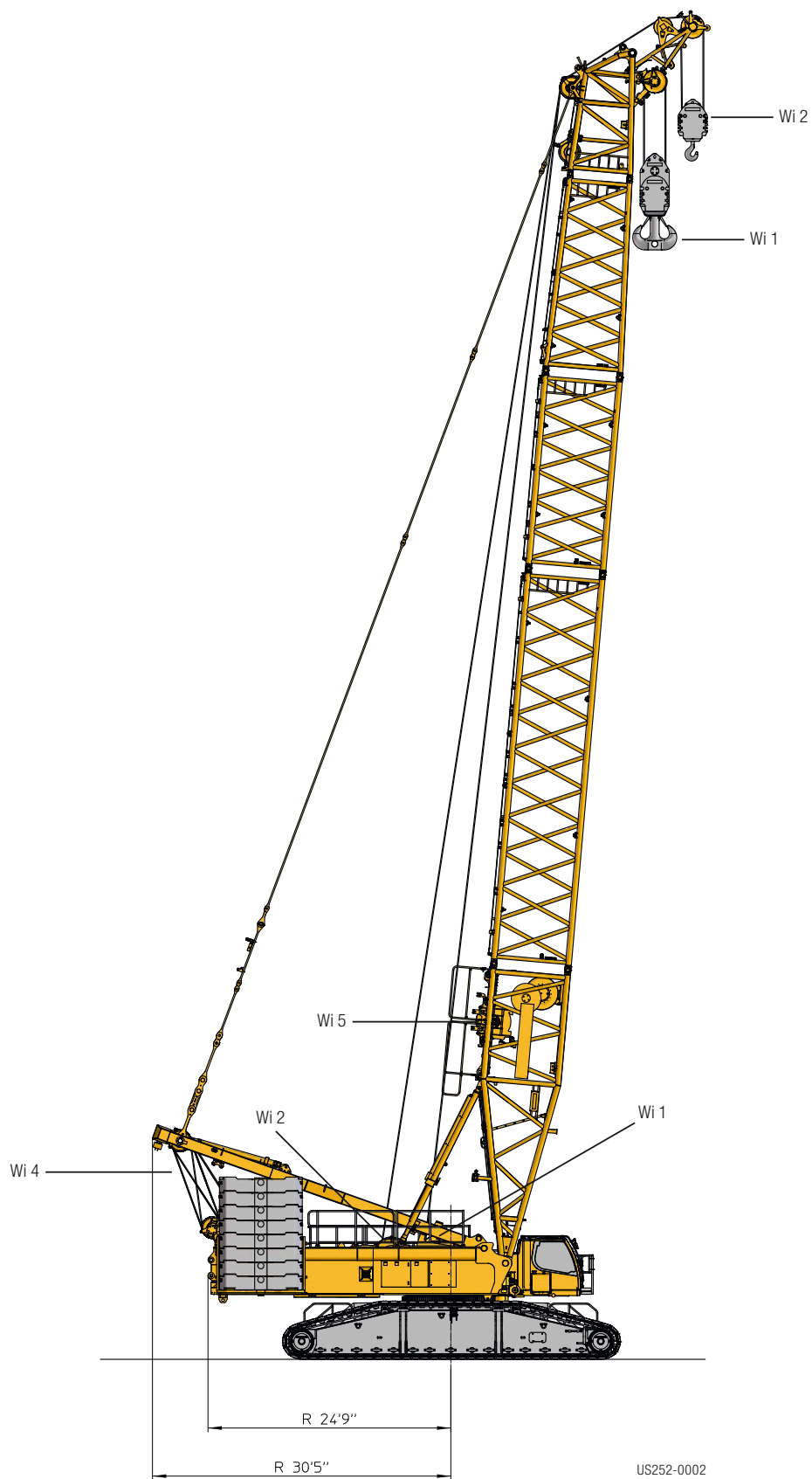
US252-0001.02

Dimensions Encombrement



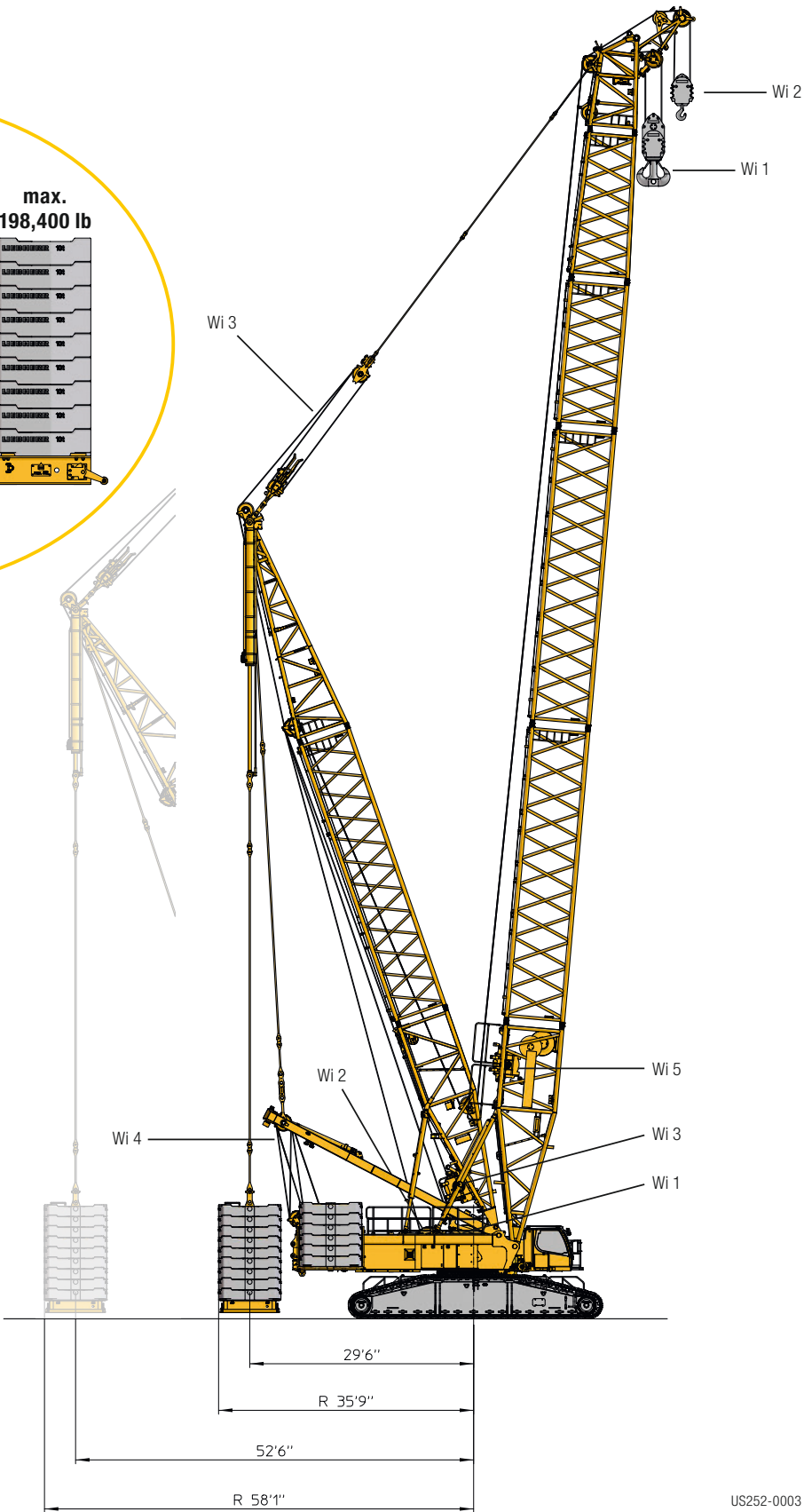
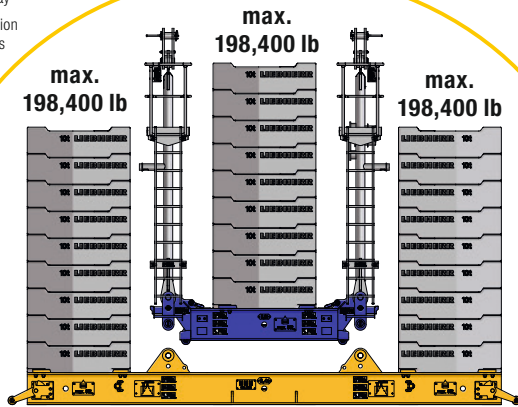
US252-0001.01

Dimensions Encombrement



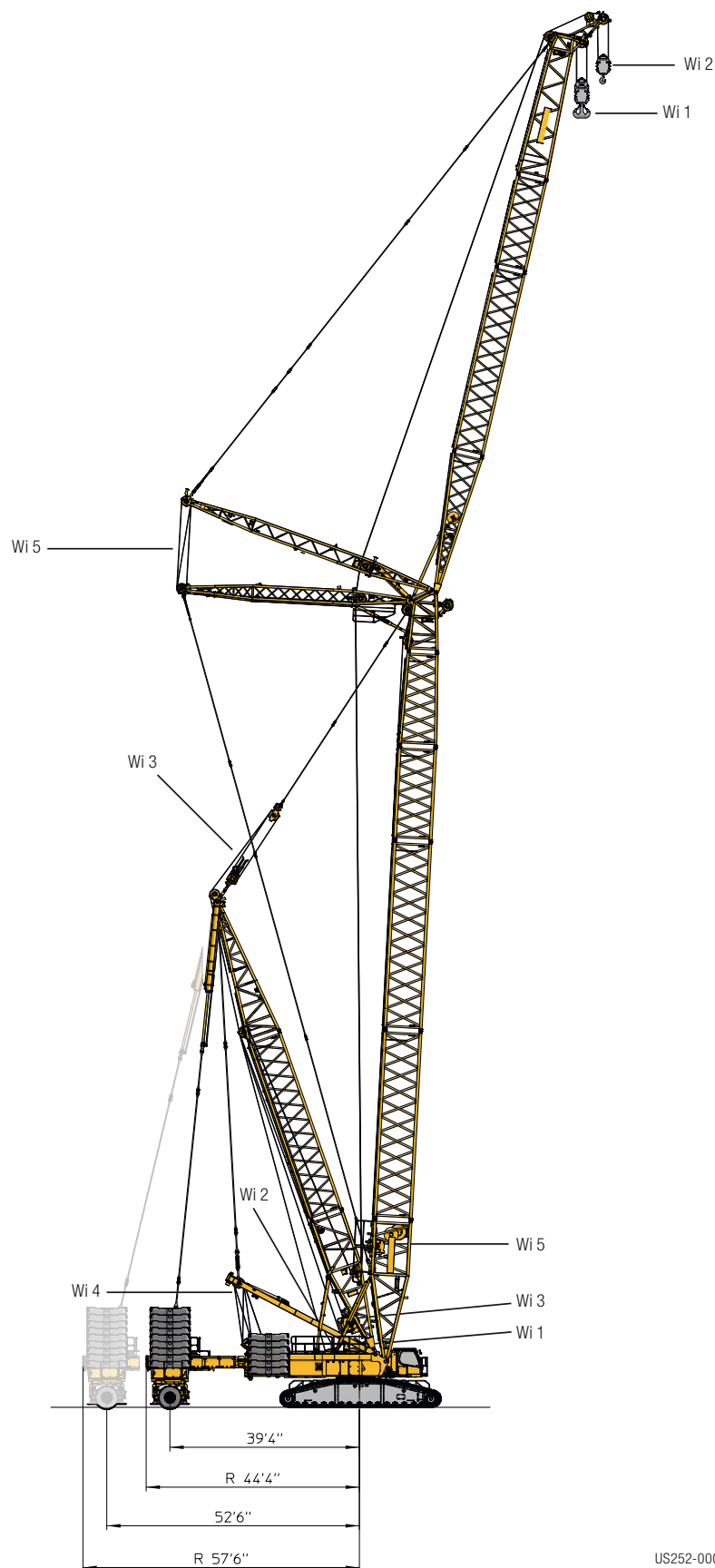
Dimensions Encombrement

595,250 lb derrick counterweight
optional VarioTray
VarioTray en option
pour contrepoids
derrick de
595,250 lb



US252-0003

Dimensions Encombrement



US252-0004

Crane data

Dates de la grue

Winches/Treuil

	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

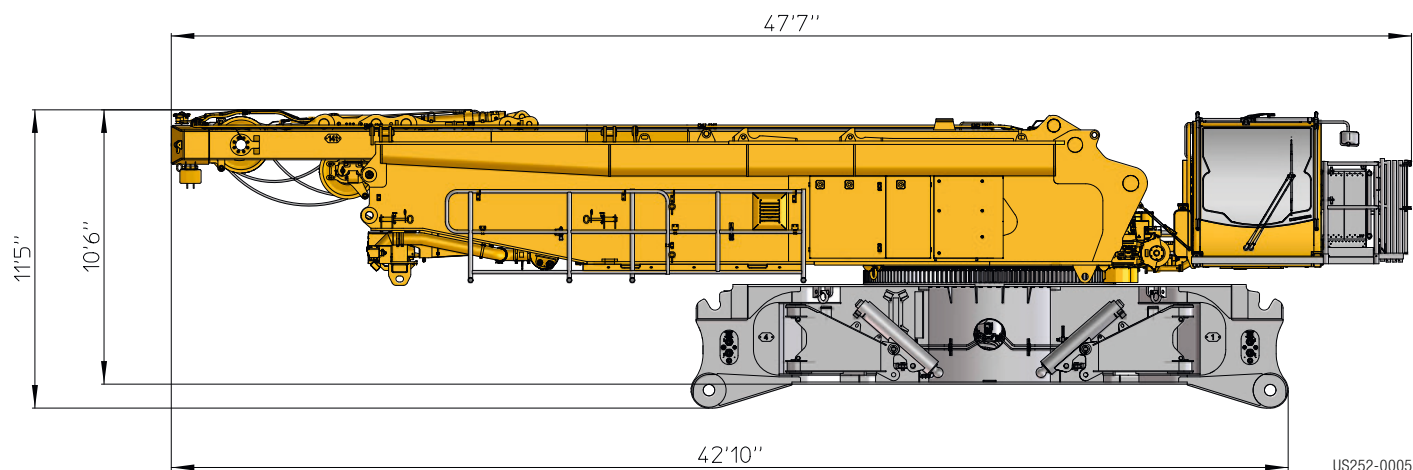
Hook blocks/Moufles à crochet

					
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

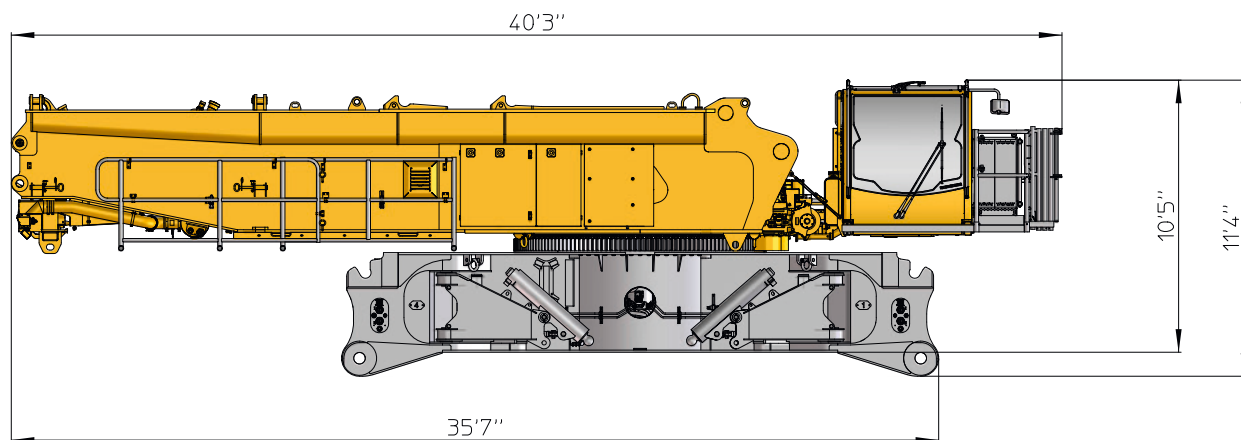
Superstructure and crawler center section with SA-frame, winch 4, with assembly jacks
Partie tournante et partie centrale du porteur avec chevalet SA, treuil 4, avec vérins de montage

129,650 lb



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

103,000 lb *



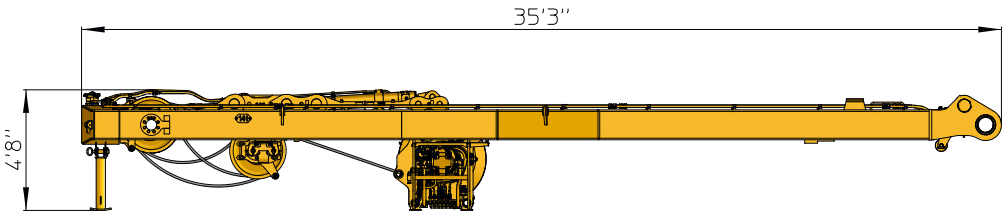
* Option Quick Connection 44,100 lb + 71,650 lb

Transportation plan

Plan de transport

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

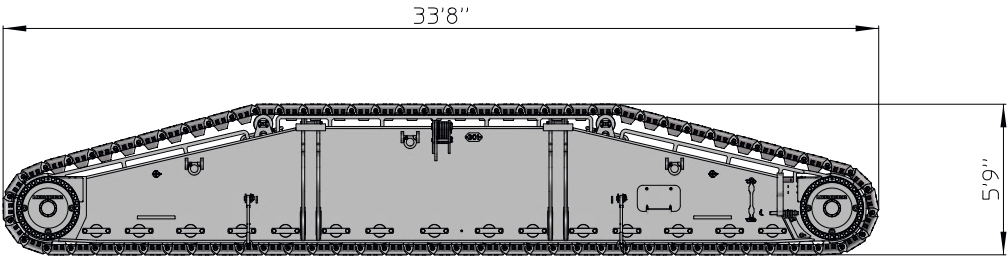
26,675 lb



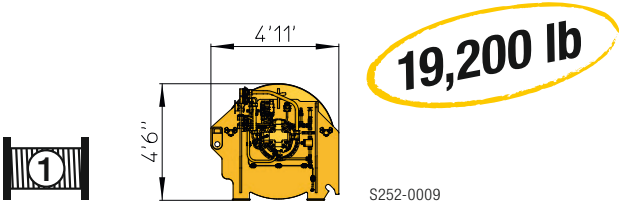
US252-0007

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

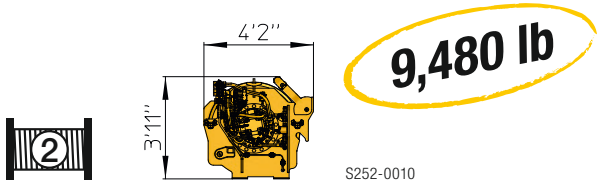
2 x 66,150 lb



US252-0008



S252-0009



S252-0010

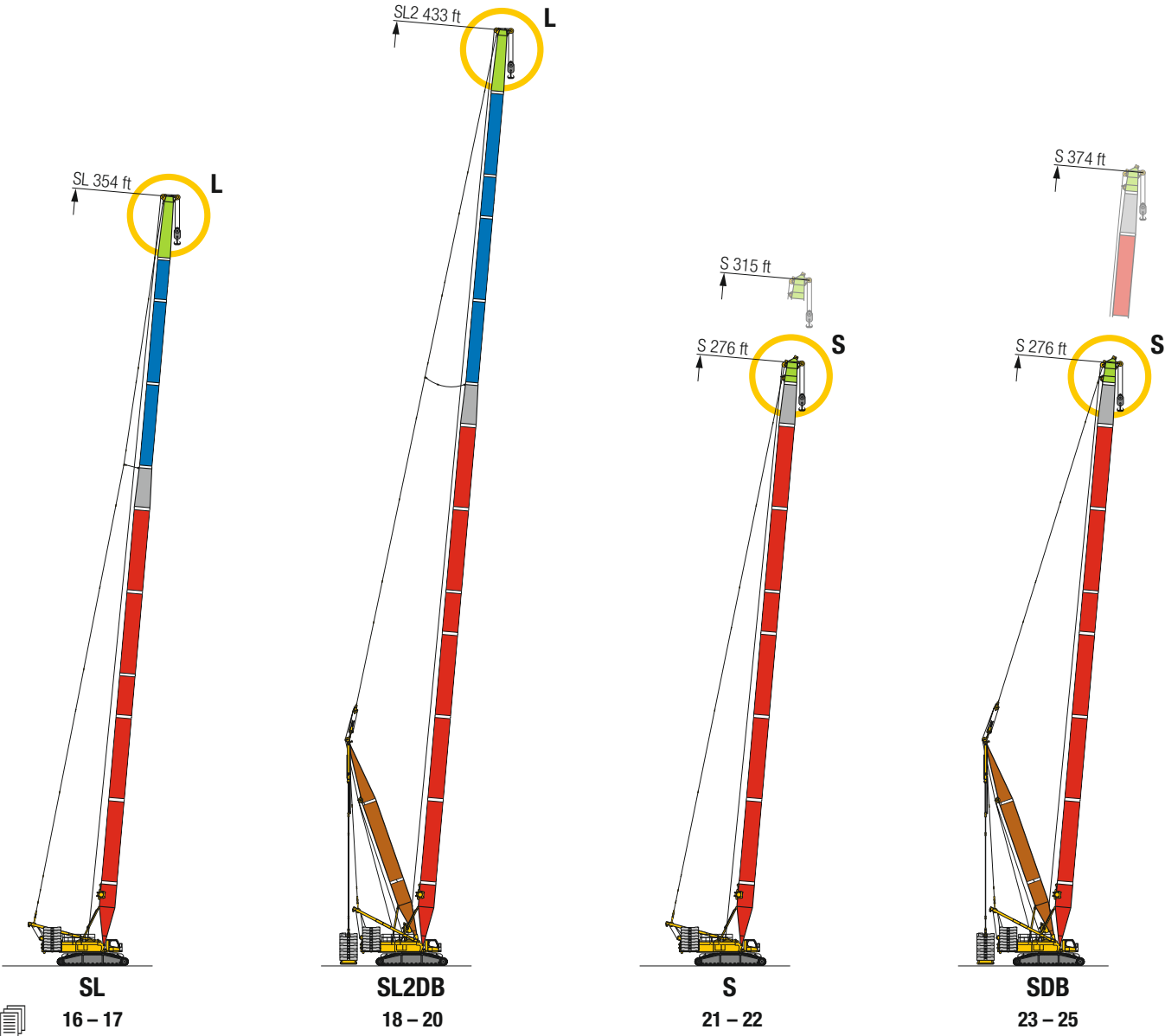
Boom/jib combinations

Configurations de flèche

- S

Main boom, heavy · Flèche principale, lourde
- SL

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



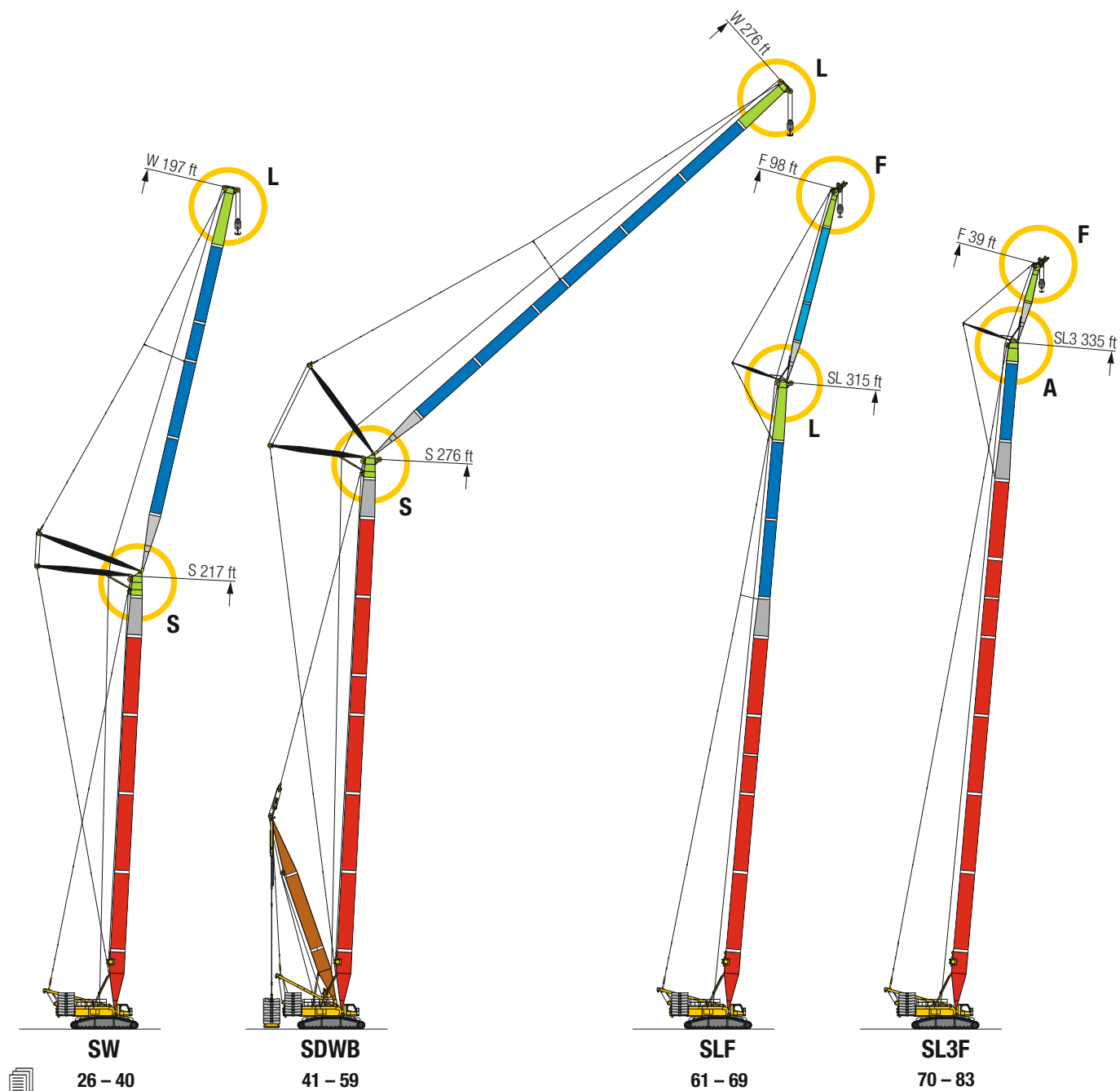
Boom/jib combinations Configurations de flèche

W Luffing jib, heavy · Fléchette, lourde

D Derrick · Flèche derrick

B Suspended ballast · Lest suspendu

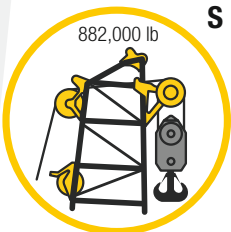
F Lattice fly jib · Fléchette treillis fixe



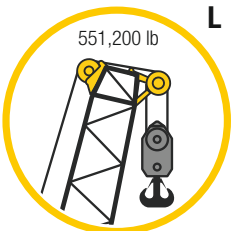
Boom/jib combinations Configurations de flèche



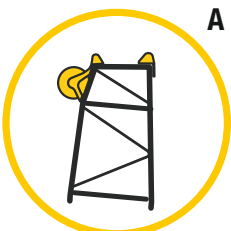
F-Head section
F-Tête de flèche



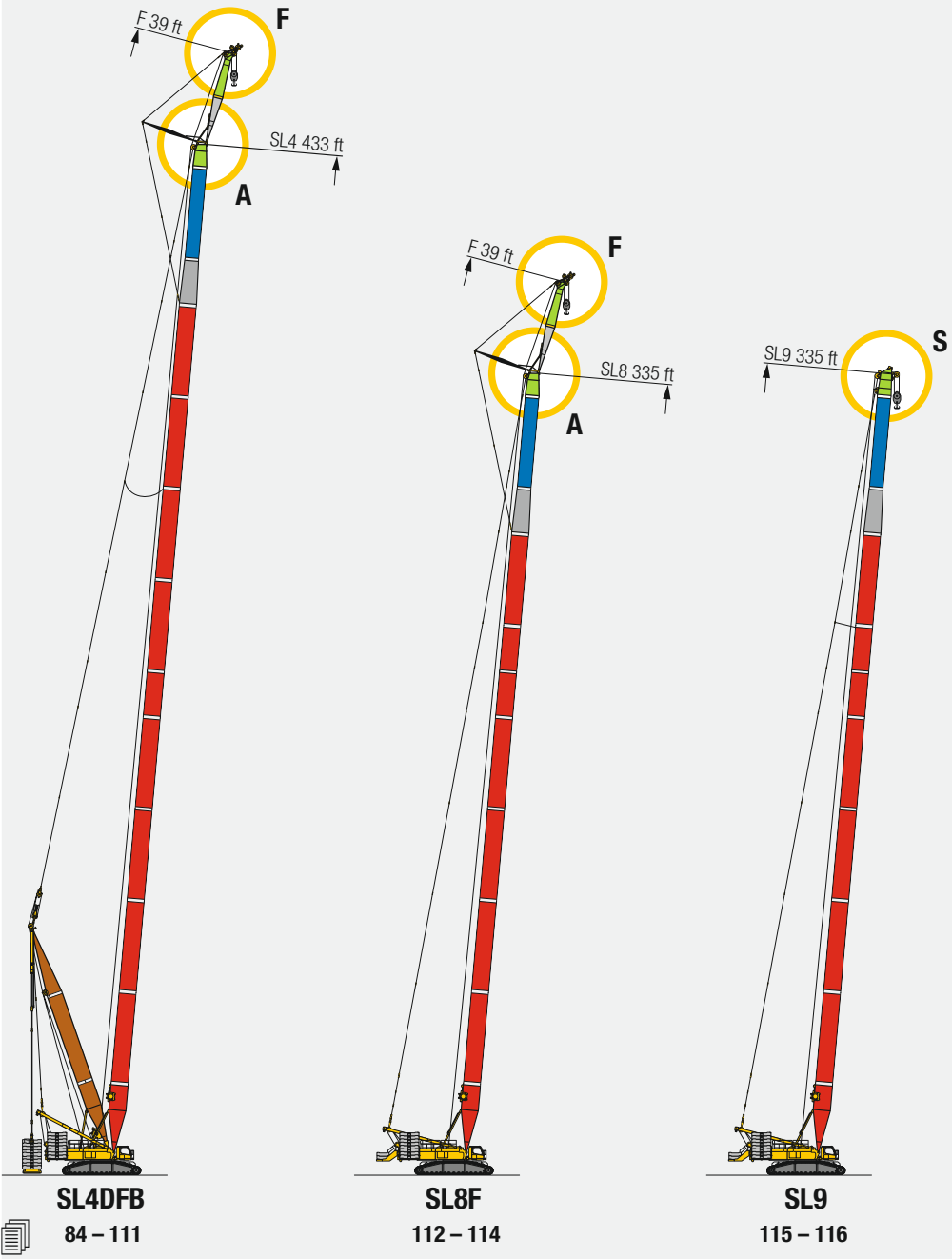
S-Head section
S-Tête de flèche



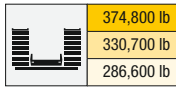
L-Head section
L-Tête de flèche



F-adapter head
F-Tête de flèche



US2988.04

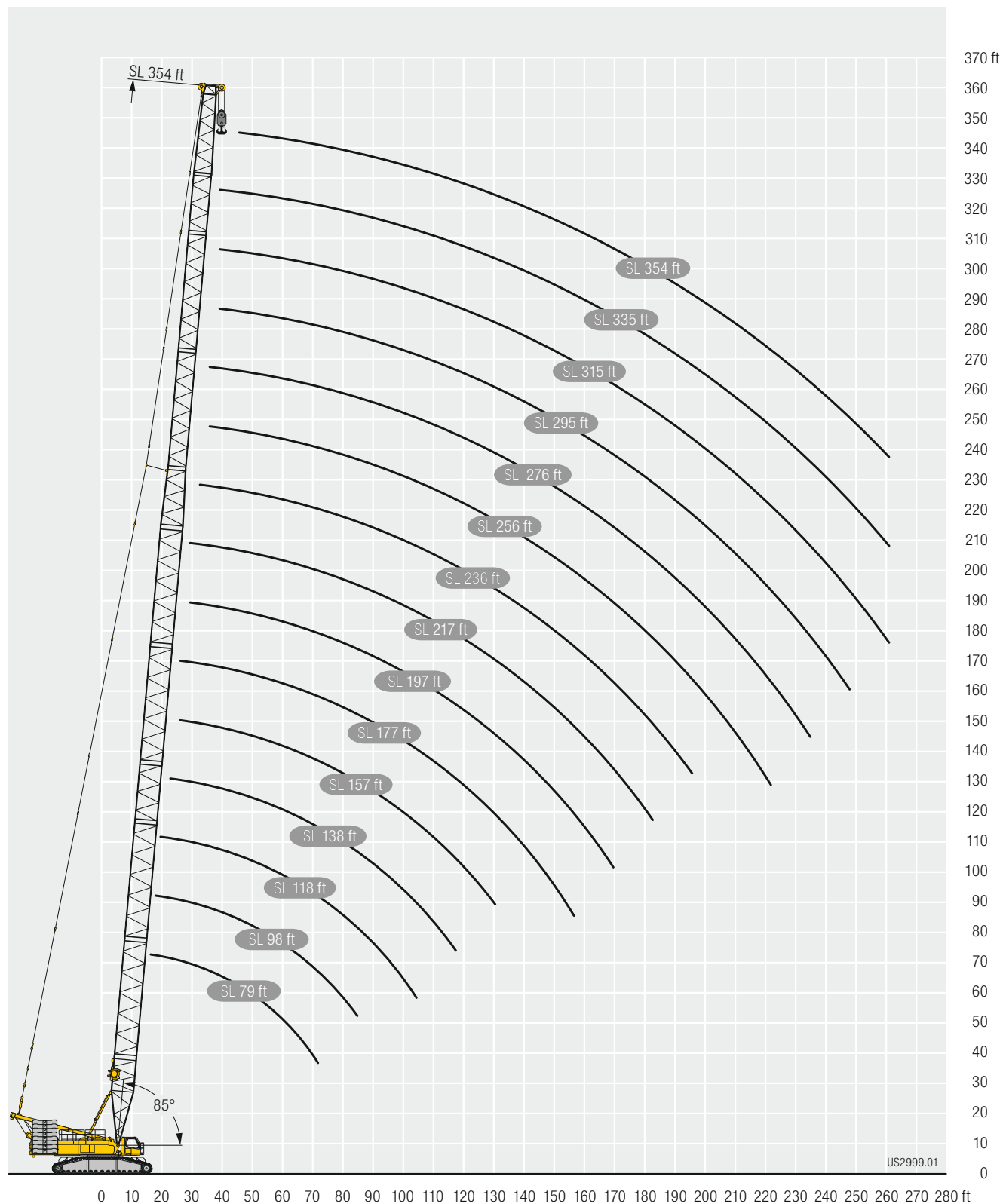


 ft	SL 79 – 354															 ft
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	
16	551															16
17	551															17
18	551	551														18
19	551	551														19
20	551	551	551													20
22	551	551	551	551.0												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	245
250												15.1	13.2	11.5	10.4	250
255												14.0	12.2	10.5	9.4	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

t_252_004_00101_01_000 - 00115_01_000 / 02101_01_000 - 02112_01_000 / 04101_01_000 - 04112_01_000

Lifting heights Hauteurs de levage

SL





286,600 lb -
374,800 lb



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

		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	143.0
	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	143.0
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	142.0
	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	142.0
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	141.0
	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	141.0
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	140.0
	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	140.0
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	139.0
	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	139.0
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	133.0
	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	137.0
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	127.0
	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	135.0
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	119.0
	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	133.0
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	111.0
	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	131.0
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	103.0
	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	129.0
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	96.4
	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	127.0
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	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	57.3	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	52.6	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	50.0	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	46.1	61.4	61.1	59.1	58.8							



286,600 lb -
374,800 lb

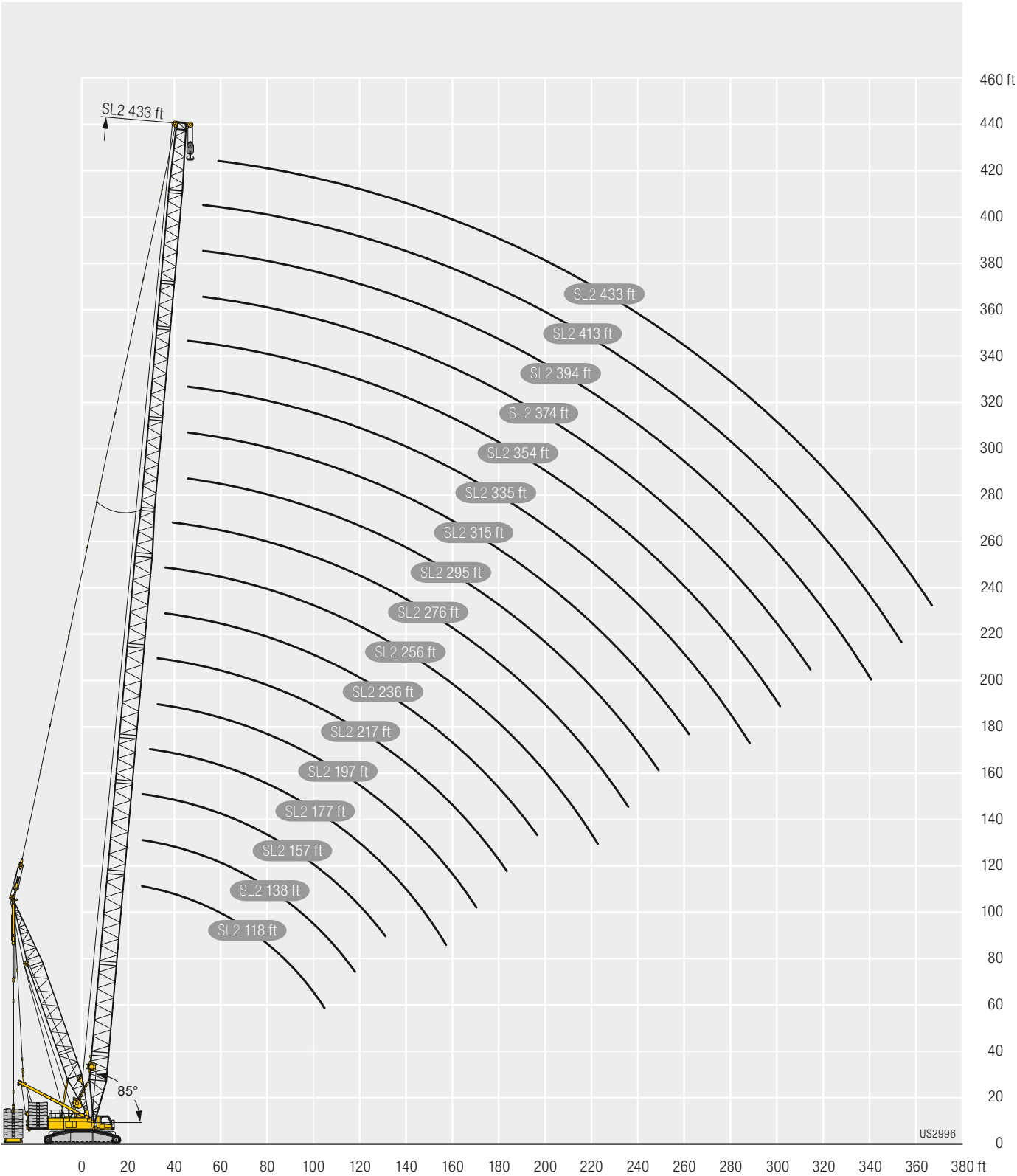


529,100 lb - 617,300 lb
330,700 lb - 463,000 lb
66,100 lb - 264,600 lb

		SL2 118 - 433													
ft		118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	335 ft	354 ft	374 ft
185	- B						36.5	46.6	46.1	44.0	43.7	41.4	39.8	37.5	35.9
	-						190.0	195.0	196.0	194.0	194.0	193.0	190.0	174.0	158.0
190	- B						34.5	44.2	43.7	41.5	41.2	39.0	37.3	35.1	33.5
	-						182.0	188.0	189.0	188.0	188.0	186.0	184.0	172.0	155.0
195	- B						41.9	41.4	39.2	38.9	36.6	34.9	32.7	31.0	30.0
	-						181.0	183.0	181.0	182.0	180.0	178.0	169.0	152.0	126.0
200	- B						39.8	39.2	37.0	36.7	34.4	32.7	30.5	28.9	27.8
	-						174.0	177.0	175.0	176.0	174.0	173.0	166.0	150.0	125.0
205	- B						37.9	37.2	34.9	34.6	32.3	30.6	28.3	26.8	25.6
	-						166.0	172.0	170.0	171.0	169.0	168.0	163.0	148.0	123.0
210	- B						35.3	33.0	32.6	30.2	28.6	26.4	24.8	23.8	22.1
	-						166.0	164.0	165.0	163.0	162.0	159.0	146.0	120.0	111.0
215	- B						33.5	31.1	30.7	28.4	26.7	24.4	22.9	21.9	20.3
	-						161.0	159.0	160.0	158.0	157.0	155.0	143.0	117.0	109.0
220	- B						31.8	29.3	28.9	26.6	24.9	22.7	21.2	20.3	18.8
	-						155.0	153.0	155.0	154.0	152.0	150.0	141.0	115.0	107.0
225	- B						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	- B						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	- B						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	- B						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	- B						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	- B						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	- B						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	- B						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	- B						15.0	13.4	11.2	9.8	8.8				
	-						113.0	113.0	114.0	111.0	102.0	93.4	77.4		
270	- B						13.9	12.3	10.0	8.5	7.6				
	-						109.0	110.0	110.0	108.0	101.0	91.4	76.4		
275	- B						11.2	8.9	7.4						
	-						107.0	107.0	105.0	100.0	89.9	75.5			
280	- B						10.1	7.7							
	-						104.0	103.0	102.0	99.0	89.6	74.1			
285	- B						9.0	6.7							
	-						101.0	100.0	99.4	97.1	89.4	72.9			
290	- B						8.1	5.8							
	-						97.8	97.5	96.7	94.9	88.6	72.2			
295	- B														
	-														
300	- B														
	-														
305	- B														
	-														
310	- B														
	-														
315	- B														
	-														
320	- B														
	-														
325	- B														
	-														
330	- B														
	-														
335	- B														
	-														
340	- B														
	-														
345	- B														
	-														
350	- B														
	-														
355	- B														
	-														
360	- B														
	-														
365	- B														
	-														
370	- B														
	-														

Lifting heights Hauteurs de levage

SL2DB



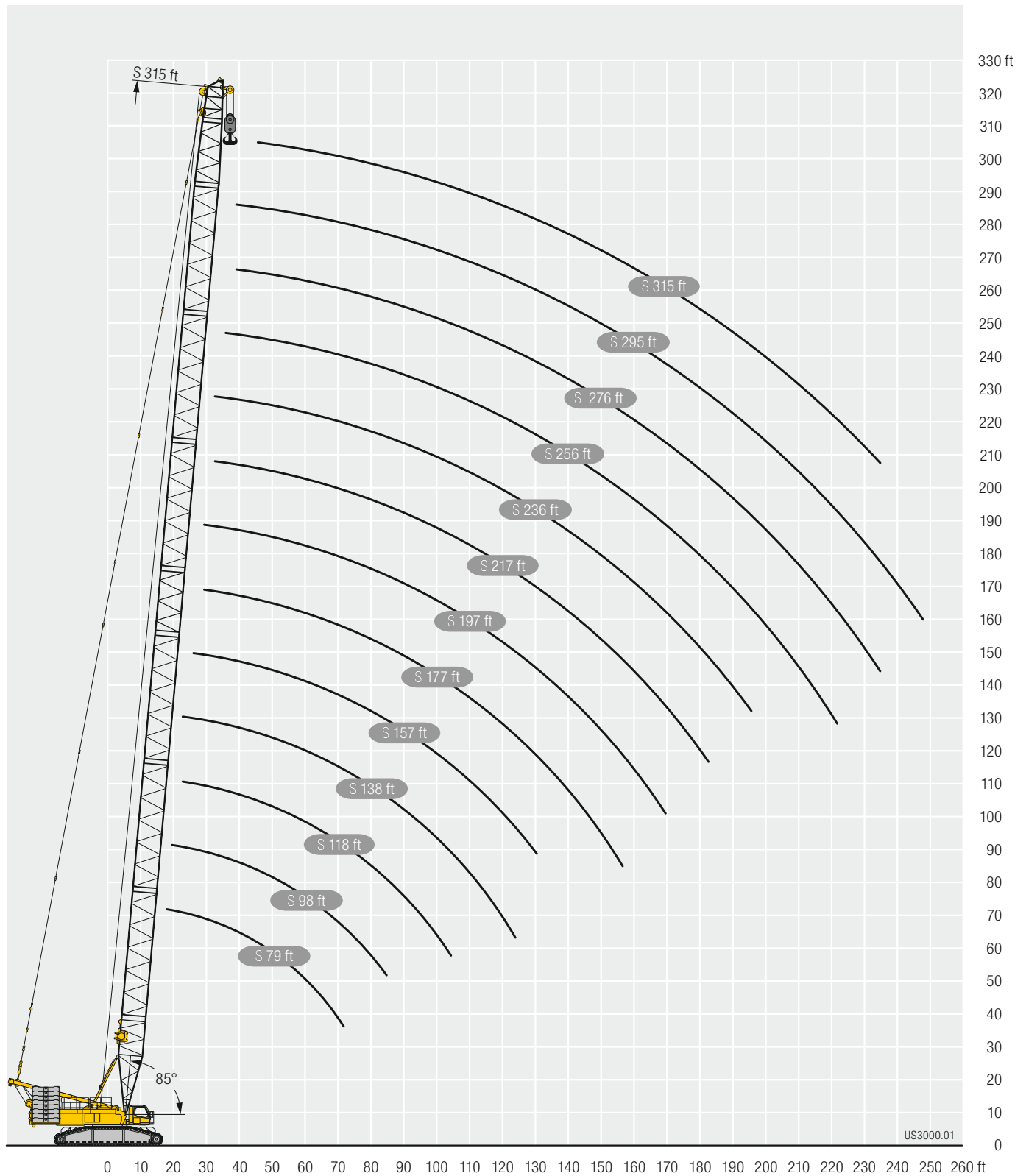


	S 79 – 315													
	79 ft	98 ft	118 ft	138 ft	157 ft	177 ft	197 ft	217 ft	236 ft	256 ft	276 ft	295 ft	315 ft	
17	882													17
18	882													18
19	882	875												19
20	871	858												20
22	822	816	811											22
24	763	753	767	750.0										24
26	705	720	713	683.0	641.0									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	45
50	338	335	329	315.0	303.0	291.0	281.0	271.0	261.0	251.0	244.0	235.0	197.0	50
55	295	291	290	281.0	271.0	261.0	251.0	243.0	235.0	226.0	219.0	211.0	182.0	55
60	260	257	255	252.0	244.0	235.0	227.0	220.0	212.0	204.0	199.0	191.0	170.0	60
65	232	230	227	224.0	221.0	214.0	206.0	200.0	193.0	186.0	181.0	174.0	158.0	65
70	210	206	204	202.0	200.0	195.0	188.0	183.0	176.0	170.0	165.0	159.0	147.0	70
75		188	185	183.0	180.0	178.0	173.0	168.0	162.0	156.0	152.0	146.0	137.0	75
80		171	169	166.0	164.0	162.0	159.0	155.0	149.0	143.0	140.0	134.0	127.0	80
85		157	155	153.0	150.0	148.0	146.0	143.0	138.0	132.0	129.0	124.0	118.0	85
90		145	142	141.0	138.0	136.0	133.0	132.0	128.0	123.0	119.0	114.0	110.0	90
95			132	129.0	128.0	125.0	123.0	121.0	118.0	114.0	111.0	106.0	103.0	95
100			123	120.0	118.0	116.0	114.0	112.0	110.0	106.0	103.0	98.3	95.8	100
105			114	111.0	109.0	107.0	105.0	103.0	101.0	98.0	95.6	91.3	89.0	105
110				104.0	102.0	99.8	97.5	95.9	93.6	90.8	89.1	84.9	82.7	110
115				97.4	95.2	93.0	90.6	89.1	86.7	83.9	82.7	79.3	76.9	115
120				91.2	89.0	86.8	84.4	82.9	80.5	77.8	76.5	73.6	71.7	120
125					83.5	81.2	78.7	77.2	74.9	72.2	71.0	68.4	66.8	125
130					78.3	75.9	73.6	72.1	69.8	66.9	65.7	63.1	62.0	130
135					73.7	71.3	68.9	67.4	65.0	62.3	61.1	58.6	57.4	135
140					69.5	66.9	64.6	63.1	60.7	58.0	56.7	54.1	53.1	140
145						62.9	60.6	59.1	56.7	53.9	52.7	50.2	49.1	145
150						59.3	56.9	55.3	52.9	50.2	49.0	46.4	45.4	150
155						55.9	53.5	51.9	49.5	46.8	45.5	43.0	41.9	155
160							50.3	48.7	46.2	43.5	42.3	39.8	38.7	160
165							47.4	45.7	43.3	40.5	39.3	36.7	35.7	165
170							44.6	43.0	40.5	37.8	36.5	34.0	32.9	170
175								40.4	37.9	35.1	33.9	31.3	30.2	175
180								38.0	35.4	32.6	31.4	28.8	27.8	180
185								35.8	33.1	30.4	29.0	26.5	25.4	185
190								33.7	31.0	28.2	26.9	24.3	23.3	190
195									29.0	26.2	24.8	22.4	21.3	195
200									27.1	24.3	22.8	20.6	19.6	200
205									25.4	22.5	21.2	19.0	18.0	205
210										21.0	19.7	17.5	16.5	210
215										19.5	18.3	16.1	15.1	215
220										18.0	17.0	14.8	13.8	220
225											15.8	13.4	12.4	225
230											14.4	12.0	11.0	230
235											13.0	10.5	9.5	235
240											11.7	9.2	8.1	240
245												7.9	6.8	245
250												6.7	5.5	250
255												5.5		255

t_252_037_00101_01_000 - 00113_01_000 / 02101_01_000 - 02110_01_000 / 04101_01_000 - 04110_01_000

Lifting heights Hauteurs de levage

S





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

t_252_002_0001_00_000 – 00014_00_000



286,600 lb -
374,800 lb



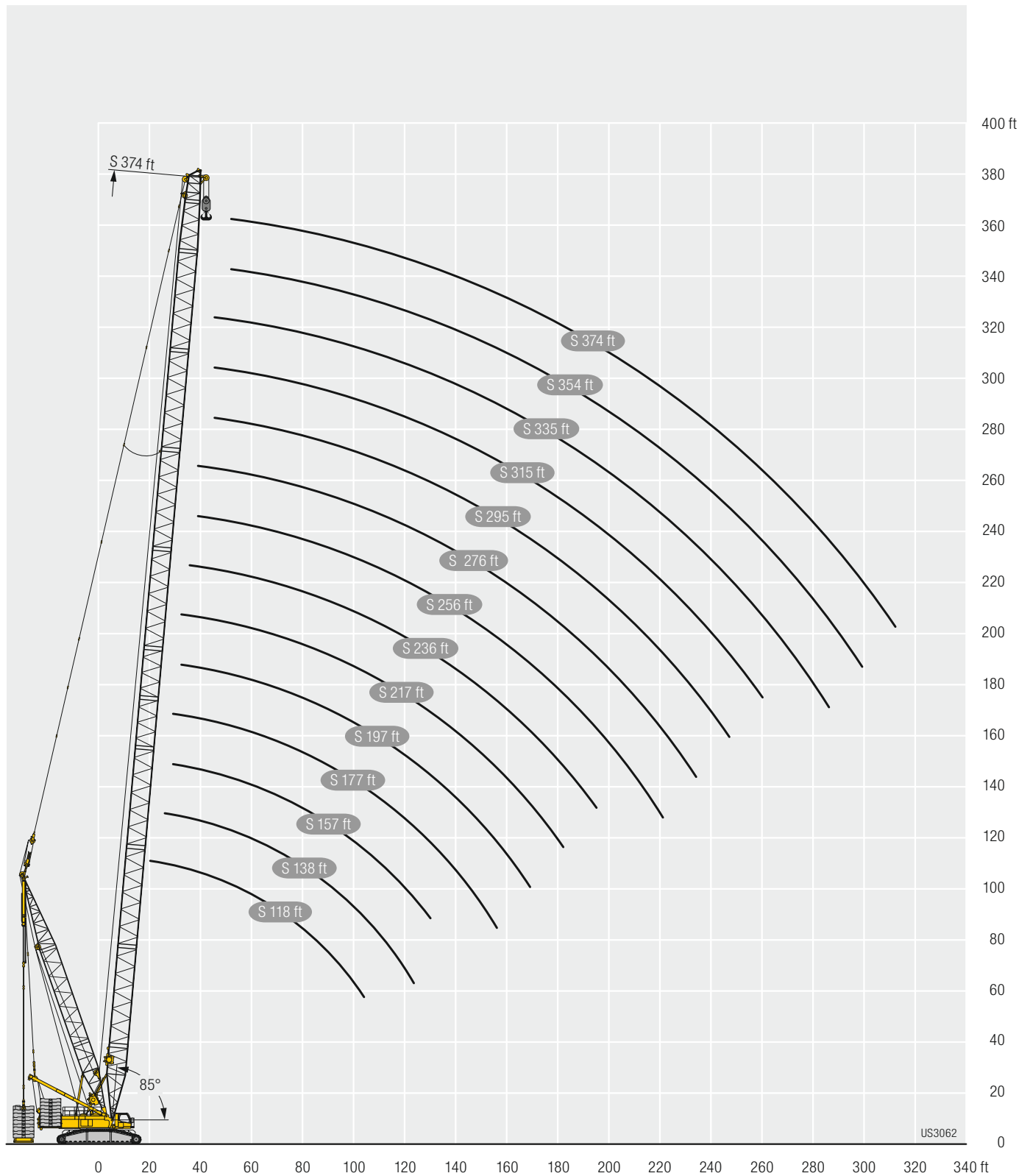
529,100 lb - 617,300 lb
330,700 lb - 463,000 lb
66,100 lb - 264,600 lb

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

t_252_002_0001_00_000 - 00014_00_000

Lifting heights Hauteurs de levage

SDB



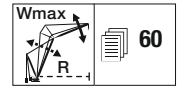


 ft	S 98												 ft
	W 59		W 79		W 98		W 118		W 138		W 157		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
32	537.0	537.0 ⁽¹⁾											32
34	503.0	504.0 ⁽¹⁾											34
36	474.0	474.0	452.0										36
38	448.0	448.0	427.0	428.0 ⁽¹⁾									38
40	424.0	424.0	405.0	405.0 ⁽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

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



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



 ft	S 98												 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	
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°



 ft	S 118												 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	
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 ⁽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 ⁽⁹⁾		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°



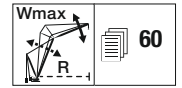
 ft	S 118												 ft
	W 177		W 197		W 217		W 236		W 256		W 276		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
65	201.0	201.0 ⁽¹⁾											65
70	186.0	186.0	181.0	181.0 ⁽¹⁾	142.0								70
75	173.0	173.0	169.0	169.0	164.0	164.0 ⁽¹⁾	159.0						75
80	162.0	162.0	158.0	158.0	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 ⁽³⁾	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	101.0 ⁽⁹⁾	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				12.0 ⁽⁹⁾		14.9 ⁽¹¹⁾		16.9 ⁽¹¹⁾	20.4*	20.4	20.0	20.0	270
275				9.4 ⁽⁷⁾		12.2 ⁽⁹⁾		15.4 ⁽¹¹⁾		16.8 ⁽¹¹⁾	19.2	19.2	275
280				7.7 ⁽⁷⁾		10.6 ⁽⁹⁾		13.9 ⁽¹¹⁾		15.3 ⁽¹¹⁾	18.4	18.4	280
285						8.9 ⁽⁹⁾		12.3 ⁽¹¹⁾		13.9 ⁽¹¹⁾	17.8	17.8	285
290						7.3 ⁽⁹⁾		10.8 ⁽¹¹⁾		12.5 ⁽¹¹⁾	16.1*	16.1	290
295										11.0 ⁽¹¹⁾		12.5 ⁽¹¹⁾	295
300										9.4 ⁽¹¹⁾		11.2 ⁽¹¹⁾	300
305										7.9 ⁽¹¹⁾		10.0 ⁽¹¹⁾	305
310										6.4 ⁽¹¹⁾		5.4 ⁽⁸⁾	310

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



 ft	S 138												 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	
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 ⁽⁶⁾	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 ⁽⁶⁾		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°



 ft	S 138												 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	
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 ⁽⁹⁾	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°



 ft	S 157												 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	
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°



 ft	S 157												 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	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°



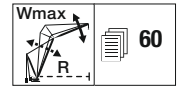
374,800 lb
330,700 lb
286,600 lb



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	
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 ⁽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 ⁽⁹⁾	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 ⁽⁹⁾		38.0 ⁽¹¹⁾		41.2 ⁽¹¹⁾		45.4 ⁽¹¹⁾	185
190		21.1 ⁽⁶⁾		24.6 ⁽⁷⁾		29.1 ⁽⁹⁾		34.5 ⁽¹¹⁾		37.6 ⁽¹¹⁾		41.6 ⁽¹¹⁾	190
195				22.2 ⁽⁷⁾		26.3 ⁽⁹⁾		31.0 ⁽¹¹⁾		34.7 ⁽¹¹⁾		38.4 ⁽¹¹⁾	195
200				19.8 ⁽⁷⁾		23.4 ⁽⁹⁾		27.5 ⁽¹¹⁾		31.8 ⁽¹¹⁾		35.3 ⁽¹¹⁾	200
205				17.4 ⁽⁷⁾		20.6 ⁽⁹⁾		24.5 ⁽⁹⁾		28.9 ⁽¹¹⁾		32.1 ⁽¹¹⁾	205
210				14.9 ⁽⁷⁾		17.6 ⁽⁷⁾		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°



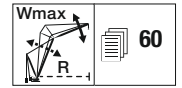
 ft	S 177												 ft
	W 177		W 197		W 217		W 236		W 256		W 276		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
70	170.0	170.0											70
75	158.0	158.0	153.0	153.0									75
80	148.0	148.0	144.0	144.0	138.0	138.0							80
85	139.0	139.0	135.0	135.0	130.0	130.0	122.0	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	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 ⁽²⁾	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°



 ft	S 197												 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	
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 ⁽⁹⁾	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 ⁽⁹⁾		30.0 ⁽¹¹⁾		33.3 ⁽¹¹⁾		37.0 ⁽¹¹⁾	195
200		14.0 ⁽⁷⁾		18.2 ⁽⁹⁾		22.1 ⁽⁹⁾		26.8 ⁽¹¹⁾		30.6 ⁽¹¹⁾		33.9 ⁽¹¹⁾	200
205		11.5 ⁽⁶⁾		15.7 ⁽⁷⁾		19.7 ⁽⁹⁾		23.5 ⁽¹¹⁾		28.0 ⁽¹¹⁾		30.8 ⁽¹¹⁾	205
210				13.4 ⁽⁷⁾		17.2 ⁽⁹⁾		19.9 ⁽⁹⁾		25.4 ⁽¹¹⁾		27.8 ⁽¹¹⁾	210
215				11.2 ⁽⁷⁾		14.8 ⁽⁹⁾		17.8 ⁽⁹⁾		22.7 ⁽¹¹⁾		25.0 ⁽¹¹⁾	215
220				8.9 ⁽⁷⁾		12.4 ⁽⁹⁾		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*	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 ⁽¹¹⁾	40.2	40.2	37.9	37.9	36.1	36.1	34.5	34.5	32.7	32.7	205
210		31.5 ⁽¹¹⁾	38.6	38.6	36.2	36.2	34.5	34.5	32.8	32.8	31.1	31.1	210
215		28.8 ⁽¹¹⁾	34.3*	34.3	34.6	34.6	32.9	32.9	31.3	31.3	29.5	29.5	215
220		26.2 ⁽¹¹⁾	32.9*	32.9	33.1	33.1	31.3	31.3	29.7	29.7	28.0	28.0	220
225		23.6 ⁽¹¹⁾		26.9 ⁽¹¹⁾	31.7	31.7	29.9	29.9	28.3	28.3	26.5	26.5	225
230		21.1 ⁽¹¹⁾		24.1 ⁽¹¹⁾	30.4	30.4	28.6	28.6	26.9	26.9 ⁽⁹⁾	25.2	25.2	230
235		18.8 ⁽¹¹⁾		22.0 ⁽¹¹⁾	26.5*	26.5	27.3	27.3	25.6	25.6	23.9	23.9	235
240		16.7 ⁽¹¹⁾		20.0 ⁽¹¹⁾	25.4*	25.4	26.1	26.1	24.4	24.4	22.6	22.6	240
245		14.6 ⁽¹¹⁾		17.9 ⁽¹¹⁾		20.1 ⁽¹¹⁾	24.9	24.9	23.2	23.2	21.6	21.6	245
250		12.6 ⁽¹¹⁾		15.9 ⁽¹¹⁾		17.9 ⁽¹¹⁾	23.9	23.9	22.1	22.1	20.6	20.6	250
255		10.5 ⁽¹¹⁾		10.3 ⁽⁸⁾		16.0 ⁽¹¹⁾	20.7*	20.7	21.2	21.2	19.7	19.7	255
260		8.4 ⁽¹¹⁾				14.2 ⁽¹¹⁾	20.0*	20.0	20.3	20.3	18.8	18.8	260
265						12.4 ⁽¹¹⁾		14.9 ⁽¹¹⁾	19.5	19.5	18.0	18.0	265
270						10.6 ⁽¹¹⁾		13.1 ⁽¹¹⁾	18.8	18.8	17.2	17.2	270
275								11.3 ⁽¹¹⁾	16.1*	16.1	16.4	16.4	275
280								9.4 ⁽¹¹⁾	15.5*	15.5	15.7	15.7	280
285								7.6 ⁽¹¹⁾		10.1 ⁽¹¹⁾	15.1	15.1	285
290								5.7 ⁽¹¹⁾		8.3 ⁽¹¹⁾	14.5	14.5	290
295										6.5 ⁽¹¹⁾	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°

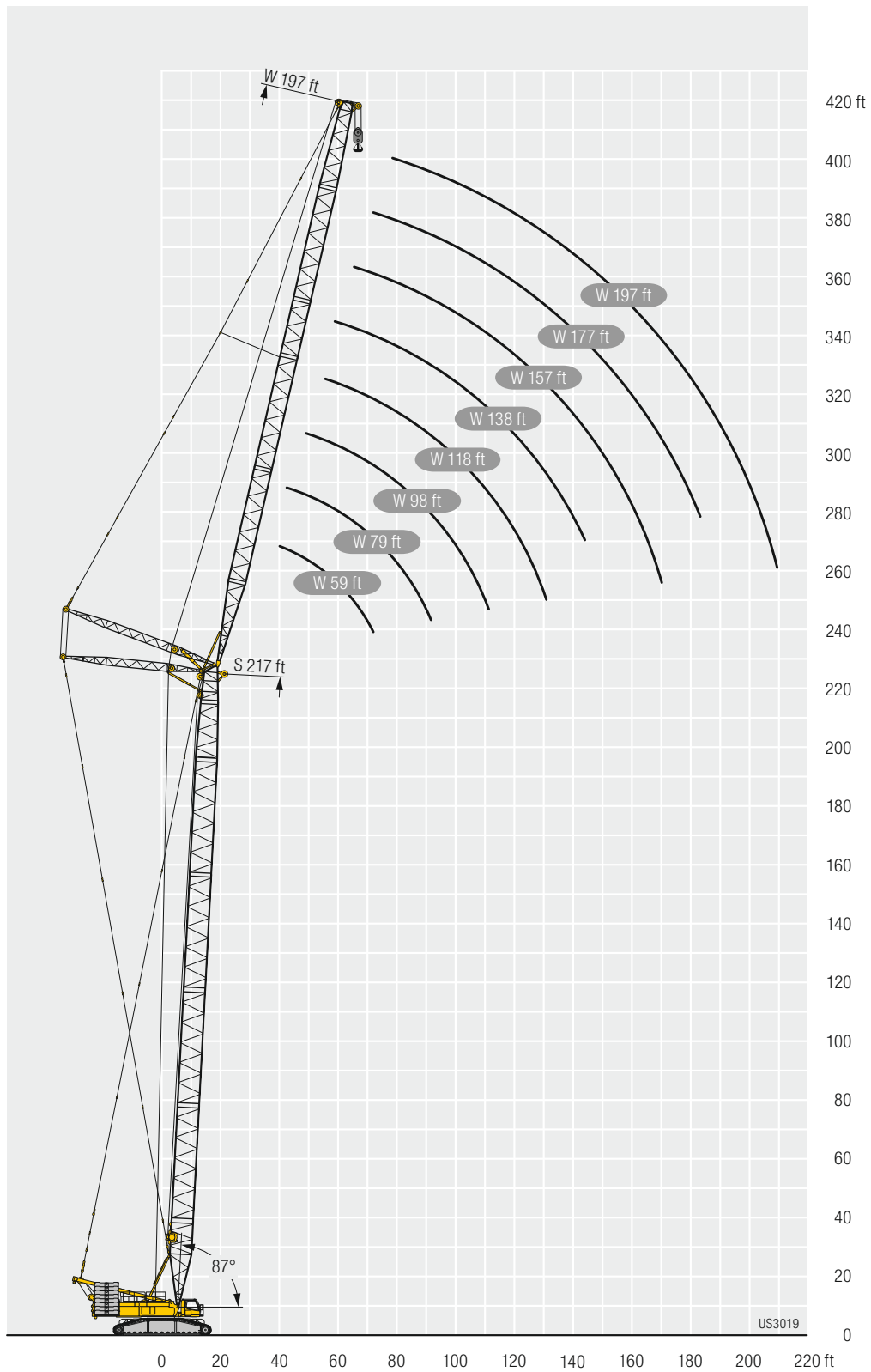


 ft	S 217																 ft
	W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		
	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	87/85*	Wmax	
38	331.0	331.0 ⁽¹⁾															38
40	324.0	324.0															40
45	293.0	293.0	279.0	279.0													45
50	266.0	266.0	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 ⁽⁶⁾	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	75
80	162.0*	165.0 ⁽¹¹⁾	164.0	164.0	158.0	158.0 ⁽⁶⁾	154.0	154.0	148.0	148.0	142.0	142.0	138.0	138.0	127.0	127.0	80
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	85
90		140.0 ⁽¹¹⁾	146.0	146.0 ⁽¹⁰⁾	141.0	141.0	136.0	136.0 ⁽⁶⁾	131.0	131.0	126.0	126.0 ⁽⁶⁾	122.0	122.0	118.0	118.0 ⁽²⁾	90
95		129.0 ⁽¹¹⁾	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	95
100		117.0 ⁽¹¹⁾	125.0*	126.0 ⁽¹¹⁾	126.0	126.0	122.0	122.0	117.0	117.0	113.0	113.0	109.0	109.0	106.0	106.0	100
105		107.0 ⁽¹¹⁾	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	105
110		98.6 ⁽¹¹⁾		108.0 ⁽¹¹⁾	115.0	115.0	110.0	110.0	106.0	106.0	101.0	101.0	98.1	98.1	94.8	94.8	110
115		90.3 ⁽¹¹⁾		98.9 ⁽¹¹⁾	109.0	109.0	105.0	105.0	101.0	101.0	96.3	96.3	93.3	93.3	90.1	90.1	115
120		82.0 ⁽¹¹⁾		90.2 ⁽¹¹⁾	98.1*	98.1	101.0	101.0	96.0	96.0	91.8	91.8	88.8	88.8	85.7	85.7	120
125		75.1 ⁽¹¹⁾		82.9 ⁽¹¹⁾	92.6*	92.6	95.8	95.8	91.7	91.7	87.6	87.6	84.6	84.6	81.6	81.6	125
130		69.6 ⁽¹¹⁾		76.5 ⁽¹¹⁾		83.7 ⁽¹¹⁾	90.7	90.7	87.7	87.7	83.6	83.6	80.7	80.7	77.8	77.8	130
135		64.2 ⁽¹¹⁾		70.0 ⁽¹¹⁾		76.7 ⁽¹¹⁾	86.1	86.1	83.6	83.6	79.9	79.9	77.1	77.1	74.3	74.3	135
140		58.8 ⁽¹⁰⁾		63.5 ⁽¹¹⁾		69.7 ⁽¹¹⁾	77.7*	77.7	79.4	79.4	76.6	76.6	73.7	73.7	71.0	71.0	140
145		53.4 ⁽¹⁰⁾		58.4 ⁽¹¹⁾		64.4 ⁽¹¹⁾		71.3 ⁽¹¹⁾	75.5	75.5	73.0	73.0	70.6	70.6	67.8	67.8	145
150		48.0 ⁽¹⁰⁾		54.0 ⁽¹¹⁾		59.3 ⁽¹¹⁾		65.8 ⁽¹¹⁾	71.9	71.9	69.4	69.4	67.6	67.6	64.9	64.9	150
155		42.6 ⁽¹⁰⁾		49.7 ⁽¹¹⁾		54.2 ⁽¹¹⁾		60.3 ⁽¹¹⁾	68.5	68.5	66.1	66.1	64.4	64.4	62.2	62.2	155
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	160
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	165
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	170
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	175
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	180
185		21.7 ⁽⁸⁾		25.7 ⁽⁹⁾		30.9 ⁽¹¹⁾		35.4 ⁽¹¹⁾		39.2 ⁽¹¹⁾		43.3 ⁽¹¹⁾	48.5	48.5	46.8	46.8	185
190		18.5 ⁽⁸⁾		23.1 ⁽⁹⁾		27.3 ⁽¹¹⁾		32.4 ⁽¹¹⁾		35.7 ⁽¹¹⁾		39.6 ⁽¹¹⁾	46.4	46.4	44.7	44.7	190
195				20.5 ⁽⁹⁾		23.8 ⁽¹¹⁾		29.5 ⁽¹¹⁾		32.2 ⁽¹¹⁾		35.9 ⁽¹¹⁾	44.5	44.5	42.8	42.8	195
200				17.8 ⁽⁹⁾		20.2 ⁽⁹⁾		26.6 ⁽¹¹⁾		28.8 ⁽¹¹⁾		32.7 ⁽¹¹⁾	39.4*	39.4	40.9	40.9	200
205				15.2 ⁽⁹⁾		17.9 ⁽⁹⁾		23.7 ⁽¹¹⁾		26.3 ⁽¹¹⁾		29.7 ⁽¹¹⁾		33.9 ⁽¹¹⁾	39.1	39.1	205
210				12.6 ⁽⁹⁾		15.6 ⁽⁹⁾		20.8 ⁽¹¹⁾		23.8 ⁽¹¹⁾		26.8 ⁽¹¹⁾		30.7 ⁽¹¹⁾	37.5	37.5	210
215						13.3 ⁽⁹⁾		17.8 ⁽¹¹⁾		21.3 ⁽¹¹⁾		23.8 ⁽¹¹⁾		27.5 ⁽¹¹⁾	36.0	36.0	215
220						11.0 ⁽⁹⁾				18.8 ⁽¹¹⁾		21.1 ⁽¹¹⁾		25.1 ⁽¹¹⁾	31.5*	31.5	220
225						8.7 ⁽⁹⁾				16.4 ⁽¹¹⁾		18.8 ⁽¹¹⁾		22.7 ⁽¹¹⁾		26.1 ⁽¹¹⁾	225
230						6.4 ⁽⁹⁾				13.9 ⁽¹¹⁾		16.6 ⁽¹¹⁾		20.3 ⁽¹¹⁾		23.4 ⁽¹¹⁾	230
235										11.4 ⁽¹¹⁾		14.4 ⁽¹¹⁾		17.9 ⁽¹¹⁾		20.8 ⁽¹¹⁾	235
240												12.1 ⁽¹¹⁾		8.9 ⁽⁹⁾		18.8 ⁽¹¹⁾	240
245												9.9 ⁽¹¹⁾				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°

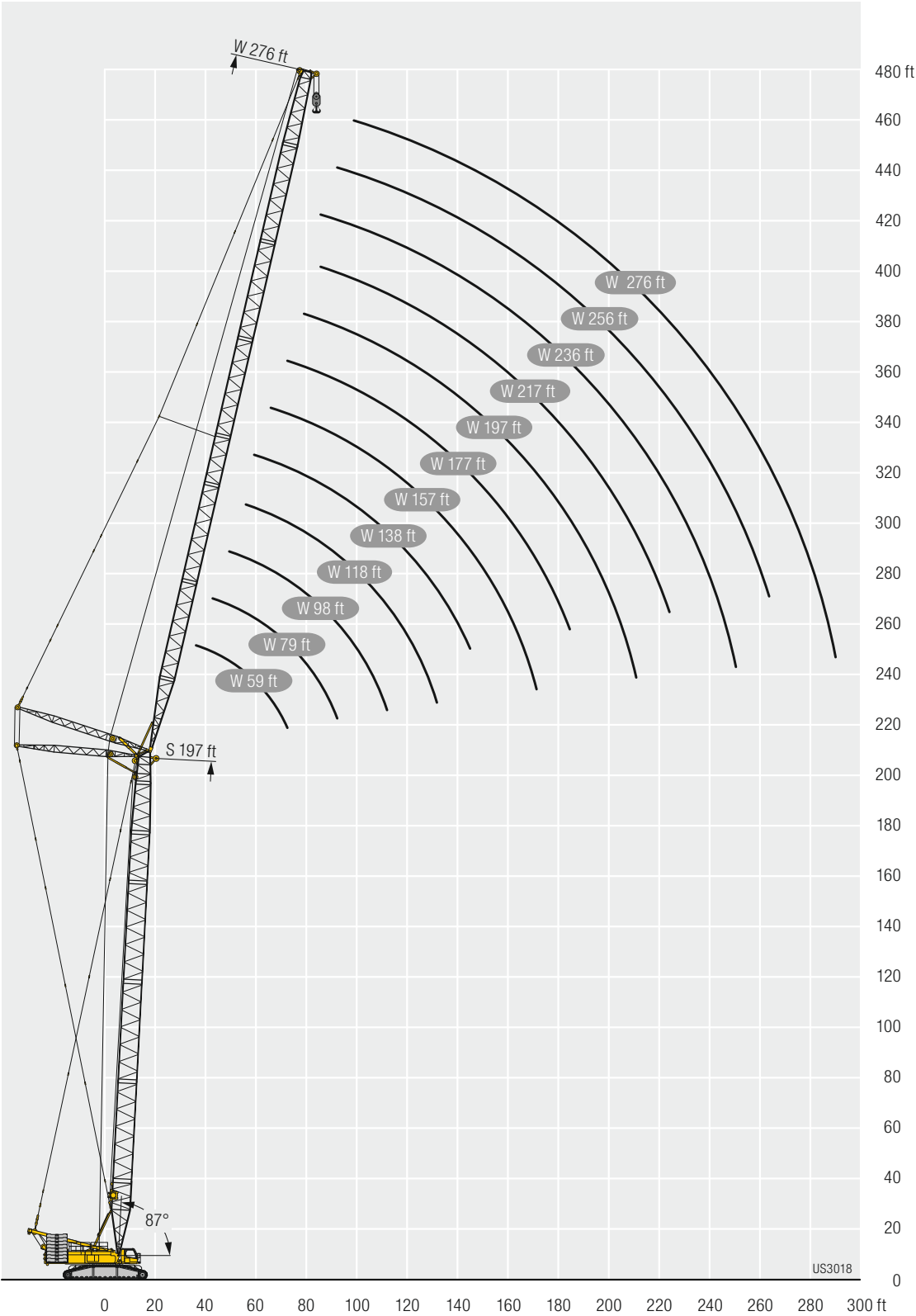
Lifting heights Hauteurs de levage

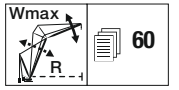
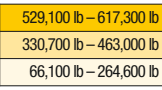
SW



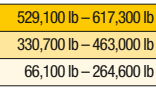
Lifting heights Hauteurs de levage

SW





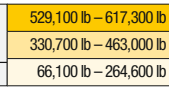
 ft		S 118																							
		W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276	
		85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax	87°/85	Wmax
38	-	399.0	399.0	382.0*	382.0 ⁽¹⁾																				
	B	551.0	551.0	488.0*	488.0 ⁽¹⁾																				
40	-	379.0	380.0 ⁽¹⁾	370.0*	370.0 ⁽¹⁾																				
	B	551.0	551.0	487.0*	489.0 ⁽¹⁾																				
45	-	336.0	341.0 ^(a)	329.0*	329.0 ^(a)	315.0*	315.0 ⁽¹⁾																		
	B	551.0	551.0	490.0	490.0 ⁽¹⁾	490.0*	490.0 ⁽¹⁾																		
50	-	301.0	305.0 ^(a)	296.0*	296.0*	284.0*	284.0*	274.0*	274.0 ⁽¹⁾																
	B	533.0	551.0 ⁽¹⁾	489.0	490.0 ⁽¹⁾	490.0	490.0 ⁽¹⁾	396.0*	398.0 ⁽¹⁾																
55	-	272.0	278.0 ^(a)	268.0*	268.0*	257.0*	257.0*	249.0*	249.0*	240.0*	240.0 ⁽¹⁾														
	B	505.0	547.0 ⁽¹⁾	488.0	490.0 ⁽¹⁾	485.0	490.0 ⁽¹⁾	401.0	401.0 ⁽¹⁾	369.0*	372.0 ⁽¹⁾														
60	-	249.0	253.0 ^(a)	245.0*	245.0*	235.0*	235.0 ^(a)	228.0*	228.0*	220.0*	220.0*	214.0*	214.0*												
	B	481.0	539.0 ^(a)	485.0	490.0 ⁽¹⁾	466.0	490.0 ⁽¹⁾	401.0	402.0 ⁽¹⁾	375.0	375.0	309.0*	309.0 ⁽¹⁾												
65	-	229.0	234.0 ^(a)	226.0*	226.0*	217.0*	217.0*	210.0*	210.0*	203.0*	203.0 ^(a)	197.0*	197.0*	191.0*	191.0 ⁽¹⁾										
	B	443.0	518.0 ^(a)	470.0	490.0 ^(a)	444.0	490.0 ⁽¹⁾	399.0	404.0 ⁽¹⁾	370.0	372.0 ⁽¹⁾	309.0*	309.0 ⁽¹⁾	271.0*	272.0 ⁽¹⁾										
70	-	212.0	215.0 ⁽¹⁾	209.0*	209.0*	201.0*	201.0*	194.0*	194.0 ^(a)	188.0*	188.0*	182.0*	182.0*	177.0*	177.0*	172.0*	172.0 ⁽¹⁾	167.0*	167.0*						
	B	405.0	496.0 ^(a)	437.0	490.0 ^(a)	421.0	488.0 ⁽¹⁾	393.0	405.0 ⁽¹⁾	363.0	370.0 ⁽¹⁾	309.0	309.0 ⁽¹⁾	270.0*	272.0 ⁽¹⁾	228.0*	229.0 ⁽¹⁾	192.0*	192.0*						
75	-	194.0	194.0	195.0*	195.0*	186.0*	186.0 ^(a)	181.0*	181.0*	175.0*	175.0*	170.0*	170.0*	165.0*	165.0*	160.0*	160.0*	156.0*	156.0 ⁽¹⁾	151.0*	151.0*				
	B	337.0	481.0 ^(a)	396.0	486.0 ^(a)	392.0	479.0 ⁽¹⁾	379.0	406.0 ⁽¹⁾	353.0	369.0 ⁽¹⁾	309.0	309.0 ⁽¹⁾	272.0	272.0	227.0*	229.0 ⁽¹⁾	191.0*	191.0 ⁽¹⁾	168.0*	168.0*				
80	-		176.0 ⁽¹⁾	180.0*	180.0*	174.0*	174.0*	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 ⁽¹⁾	137.0*	137.0*		
	B		464.0 ^(a)	362.0	470.0 ^(a)	359.0	469.0 ⁽¹⁾	358.0	403.0 ⁽¹⁾	339.0	367.0 ⁽¹⁾	307.0	309.0 ⁽¹⁾	270.0	270.0	229.0	229.0 ⁽¹⁾	189.0*	191.0 ⁽¹⁾	166.0*	166.0 ⁽¹⁾	140.0*	140.0*		
85	-		158.0 ⁽¹⁾	166.0*	166.0 ⁽¹⁾	163.0*	163.0*	158.0*	158.0 ^(a)	153.0*	153.0*	149.0*	149.0*	144.0*	144.0*	140.0*	140.0 ^(a)	136.0*	136.0*	132.0*	132.0*	128.0*	128.0 ⁽¹⁾	117.0*	117.0*
	B		447.0 ^(a)	339.0	456.0 ^(a)	330.0	460.0 ⁽¹⁾	330.0	398.0 ⁽¹⁾	322.0	364.0 ⁽¹⁾	301.0	309.0 ⁽¹⁾	265.0	267.0 ⁽¹⁾	228.0	228.0 ⁽¹⁾	190.0	190.0 ⁽¹⁾	164.0*	165.0 ⁽¹⁾	139.0*	139.0 ⁽¹⁾	117.0*	117.0*
90	-		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*
	B		430.0 ^(a)	311.0	439.0 ^(a)	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⁾	115.0*	116.0 ⁽¹⁾
95	-		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 ^(a)	124.0*	124.0*	121.0*	121.0*	117.0*	117.0*	113.0*	113.0*	110.0*	110.0*
	B		412.0 ⁽¹⁾	274.0	420.0 ^(a)	289.0	423.0 ⁽¹⁾	284.0	388.0 ⁽¹⁾	282.0	347.0 ⁽¹⁾	277.0	305.0 ⁽¹⁾	250.0	262.0 ⁽¹⁾	225.0	225.0 ⁽¹⁾	187.0	187.0 ⁽¹⁾	161.0	161.0 ⁽¹⁾	137.0	137.0 ⁽¹⁾	114.0*	115.0 ⁽¹⁾
100	-		120.0 ⁽¹⁾		128.0 ⁽¹⁾	132.0*	132.0*	130.0*	130.0*	127.0*	127.0*	124.0*	124.0*	120.0*	120.0*	117.0*	117.0*	114.0*	114.0*	110.0*	110.0 ^(a)	107.0*	107.0*	103.0*	103.0*
	B		395.0 ^(a)		401.0 ^(a)	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⁾	114.0	114.0 ⁽¹⁾
105	-		110.0 ⁽¹⁾		117.0 ⁽¹⁾	123.0*	123.0 ⁽¹⁾	122.0*	122.0*	119.0*	119.0*	117.0*	117.0*	114.0*	114.0*	111.0*	111.0*	107.0*	107.0*	104.0*	104.0*	101.0*	101.0 ^(a)	97.7*	97.7*
	B		377.0 ^(a)		382.0 ^(a)	251.0	383.0 ⁽¹⁾	248.0	362.0 ⁽¹⁾	246.0	329.0 ⁽¹⁾	246.0	295.0 ⁽¹⁾	233.0	254.0 ⁽¹⁾	221.0	223.0 ⁽¹⁾	183.0	185.0 ⁽¹⁾	156.0	157.0 ⁽¹⁾	135.0	135.0 ⁽¹⁾	113.0	113.0 ⁽¹⁾
110	-		101.0 ⁽¹⁾		108.0 ⁽¹⁾	116.0*	116.0*	114.0*	114.0*	112.0*	112.0*	110.0*	110.0 ^(a)	108.0*	108.0*	105.0*	105.0*	102.0*	102.0 ^(a)	98.6*	98.6*	96.6*	96.6*	92.3*	92.3*
	B		360.0 ^(a)		363.0 ^(a)	235.0	363.0 ⁽¹⁾	233.0	349.0 ⁽¹⁾	231.0	319.0 ⁽¹⁾	231.0	290.0 ⁽¹⁾	224.0	249.0 ⁽¹⁾	217.0	221.0 ⁽¹⁾	182.0	183.0 ⁽¹⁾	153.0	155.0 ⁽¹⁾	134.0	134.0 ⁽¹⁾	111.0	112.0 ⁽¹⁾
115	-		91.5 ⁽¹⁾		98.9 ⁽¹⁾	107.0	107.0	108.0*	108.0*	105.0*	105.0 ^(a)	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*
	B		344.0 ^(a)		344.0 ^(a)	199.0	343.0 ⁽¹⁾	223.0	335.0 ⁽¹⁾	218.0	309.0 ⁽¹⁾	218.0	284.0 ⁽¹⁾	214.0	244.0 ⁽¹⁾	211.0	219.0 ⁽¹⁾	181.0	183.0 ⁽¹⁾	151.0	153.0 ⁽¹⁾	133.0	133.0 ⁽¹⁾	111.0	111.0 ⁽¹⁾
120	-		83.6 ^a		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*
	B		327.0 ^(a)		327.0 ^(a)		325.0 ^(a)	211.0	322.0 ⁽¹⁾	206.0	298.0 ⁽¹⁾	206.0	276.0 ⁽¹⁾	204.0	239.0 ⁽¹⁾	203.0	218.0 ^(a)	180.0	182.0 ⁽¹⁾	148.0	151.0 ⁽¹⁾	132.0	132.0 ^(a)	110.0	110.0 ⁽¹⁾
125	-		77.1 ^a		84.8 ⁽¹⁾		89.4 ⁽¹⁾	96.1*	96.1*	93.8*	93.8*	92.2*	92.2*	90.2*	90.2*	89.0*	89.0*	87.0*	87.0*	84.2*	84.2*	81.5*	81.5*	78.6*	78.6*
	B		309.0 ^(a)		313.0 ^(a)		310.0 ^(a)	199.0	309.0 ⁽¹⁾	195.0	288.0 ⁽¹⁾	195.0	267.0 ⁽¹⁾	193.0	234.0 ⁽¹⁾	193.0	215.0 ⁽¹⁾	178.0	181.0 ^(a)	146.0	149.0 ⁽¹⁾	131.0	132.0 ^(a)	109.0	109.0 ⁽¹⁾
130	-		70.7 ^a		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 ^(a)	82.2*	82.2*	80.0*	80.0*	77.4*	77.4*	74.6*	74.6*
	B		292.0 ^(a)		301.0 ^(a)		296.0 ^(a)	186.0	295.0 ⁽¹⁾	188.0	277.0 ⁽¹⁾	185.0	259.0 ⁽¹⁾	183.0	229.0 ⁽¹⁾	183.0	213.0 ⁽¹⁾	175.0	181.0 ⁽¹⁾	143.0	147.0 ⁽¹⁾	130.0	131.0 ^(a)	108.0	108.0 ^(a)
135	-		64.3 ^a		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*
	B		274.0 ^(a)		289.0 ^(a)		285.0 ^(a)	160.0	282.0 ⁽¹⁾	180.0	267.0 ⁽¹⁾	176.0	250.0 ⁽¹⁾	174.0	223.0 ⁽¹⁾	174.0	209.0 ⁽¹⁾	169.0	179.0 ⁽¹⁾	141.0	146.0 ⁽¹⁾	130.0	130.0 ⁽¹⁾	107.0	108.0 ^(a)
140	-		59.2 ^a		65.2 ^a		70.9 ⁽¹⁾		76.2 ⁽¹⁾	80.1*	80.1*	78.3*	78.3*												



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	87°/85	Wmax
205	- B							24.4 ⁽⁷⁾		27.7 ⁽⁸⁾		32.3 ⁽¹¹⁾		35.2 ⁽¹¹⁾	40.8*	40.8*	38.9*	38.9*	37.3*	37.3*	35.6*	35.6*	33.9*	33.9*	
	- B							156.0 ⁽⁷⁾		158.0 ⁽⁴⁾		157.0 ⁽⁸⁾		153.0 ⁽¹¹⁾	95.6	145.0 ⁽¹⁾	96.7	137.0 ⁽¹⁾	94.2	119.0 ⁽²⁾	92.4	112.0 ⁽²⁾	90.9	98.8 ⁽³⁾	
210	- B							21.8 ⁽⁷⁾		25.0 ⁽⁸⁾		29.3 ⁽¹¹⁾		32.3 ⁽¹¹⁾	39.3*	39.3*	37.2*	37.2*	35.6*	35.6*	33.9*	33.9*	32.2*	32.2*	
	- B							147.0 ⁽⁷⁾		151.0 ⁽⁴⁾		151.0 ⁽⁸⁾		148.0 ⁽¹¹⁾	89.7	141.0 ⁽¹⁾	92.9	134.0 ⁽¹⁾	92.0	117.0 ⁽²⁾	89.0	110.0 ⁽²⁾	87.6	97.7 ⁽³⁾	
215	- B									21.8 ⁽⁷⁾		26.4 ⁽¹¹⁾		29.8 ⁽¹¹⁾		32.9 ⁽¹¹⁾	35.7*	35.7*	34.0*	34.0*	32.3*	32.3*	30.6*	30.6*	
	- B									145.0 ⁽³⁾		146.0 ⁽²⁾		143.0 ⁽¹¹⁾		137.0 ⁽¹⁾	89.3	130.0 ⁽¹⁾	89.1	114.0 ⁽²⁾	85.7	108.0 ⁽²⁾	84.3	95.9 ⁽³⁾	
220	- B									19.9 ⁽⁷⁾		23.4 ⁽⁸⁾		27.3 ⁽¹¹⁾		30.4 ⁽¹¹⁾	34.2*	34.2*	32.5*	32.5*	30.8*	30.8*	29.1*	29.1*	
	- B									140.0 ⁽³⁾		140.0 ⁽²⁾		138.0 ⁽¹¹⁾		133.0 ⁽¹⁾	85.9	127.0 ⁽¹⁾	85.8	112.0 ⁽²⁾	83.3	106.0 ⁽²⁾	81.2	94.2 ⁽³⁾	
225	- B									18.0 ⁽⁷⁾		21.3 ⁽⁸⁾		24.9 ⁽¹¹⁾		27.9 ⁽¹¹⁾	32.8*	32.8*	31.0*	31.0*	29.3*	29.3*	27.7*	27.7*	
	- B									135.0 ⁽¹⁾		135.0 ⁽⁸⁾		133.0 ⁽¹¹⁾		129.0 ⁽¹⁾	81.8	124.0 ⁽¹⁾	82.6	110.0 ⁽²⁾	81.5	105.0 ⁽²⁾	78.3	92.5 ⁽³⁾	
230	- B									16.1 ⁽⁷⁾		19.1 ⁽⁸⁾		22.5 ⁽¹¹⁾		25.5 ⁽¹¹⁾	31.6*	31.6*	29.7*	29.7*	28.0*	28.0*	26.3*	26.3*	
	- B									130.0 ⁽¹⁾		130.0 ⁽⁴⁾		128.0 ⁽²⁾		126.0 ⁽¹⁾	76.8	120.0 ⁽¹⁾	79.4	108.0 ⁽²⁾	79.2	103.0 ⁽²⁾	75.5	91.2 ⁽²⁾	
235	- B									16.4 ⁽⁷⁾		20.1 ⁽¹¹⁾		23.4 ⁽¹¹⁾		25.4 ⁽¹¹⁾		25.4 ⁽¹¹⁾	28.4*	28.4*	26.7*	26.7*	25.0*	25.0*	
	- B											125.0 ⁽⁴⁾		124.0 ⁽²⁾		122.0 ⁽¹⁾		117.0 ⁽¹⁾	76.5	105.0 ⁽²⁾	76.3	101.0 ⁽²⁾	73.4	90.2 ⁽²⁾	
240	- B									14.7 ⁽⁷⁾		17.5 ⁽⁸⁾		21.5 ⁽¹¹⁾		23.4 ⁽¹¹⁾		23.4 ⁽¹¹⁾	27.2*	27.2*	25.4*	25.4*	23.7*	23.7*	
	- B									121.0 ⁽⁴⁾		121.0 ⁽²⁾		120.0 ⁽²⁾		118.0 ⁽¹⁾		114.0 ⁽¹⁾	73.5	104.0 ⁽¹⁾	73.5	98.4 ⁽¹⁾	71.7	89.2 ⁽²⁾	
245	- B									13.1 ⁽⁷⁾		15.8 ⁽⁸⁾		19.6 ⁽¹¹⁾		21.5 ⁽¹¹⁾		21.5 ⁽¹¹⁾	26.1*	26.1*	24.2*	24.2*	22.5*	22.5*	
	- B									117.0 ⁽²⁾		117.0 ⁽²⁾		116.0 ⁽³⁾		114.0 ⁽¹⁾		111.0 ⁽¹⁾	70.3	102.0 ⁽¹⁾	70.7	96.2 ⁽²⁾	70.0	88.2 ⁽²⁾	
250	- B													14.0 ⁽⁸⁾		17.6 ⁽¹¹⁾		19.5 ⁽¹¹⁾	25.2*	25.2*	23.1*	23.1*	21.5*	21.5*	
	- B													113.0 ⁽⁴⁾		111.0 ⁽¹⁾		109.0 ⁽¹⁾	65.2	100.0 ⁽¹⁾	68.1	94.3 ⁽¹⁾	67.6	86.6 ⁽²⁾	
255	- B									11.4 ⁽⁷⁾		15.7 ⁽¹¹⁾		17.9 ⁽¹¹⁾		19.7 ⁽¹¹⁾		19.7 ⁽¹¹⁾		19.7 ⁽¹¹⁾	22.1*	22.1*	20.6*	20.6*	
	- B									110.0 ⁽⁴⁾		108.0 ⁽²⁾		106.0 ⁽¹⁾		103.0 ⁽¹⁾		100.0 ⁽¹⁾		98.2 ⁽¹⁾	65.6	92.7 ⁽¹⁾	65.1	84.9 ⁽²⁾	
260	- B									9.8 ⁽⁷⁾		13.3 ⁽¹¹⁾		16.2 ⁽¹¹⁾		18.1 ⁽¹¹⁾		18.1 ⁽¹¹⁾		18.1 ⁽¹¹⁾	21.2*	21.2*	19.7*	19.7*	
	- B											103.0 ⁽¹⁾		96.3 ⁽¹⁾		93.0 ⁽¹⁾		90.1 ⁽¹⁾		87.0 ⁽¹⁾	63.0	91.1 ⁽¹⁾	62.7	83.2 ⁽²⁾	
265	- B													8.1 ⁽⁷⁾		11.7 ⁽⁸⁾		14.6 ⁽¹¹⁾		16.5 ⁽¹¹⁾	20.4*	20.4*	18.9*	18.9*	
	- B													105.0 ⁽³⁾		102.0 ⁽²⁾		101.0 ⁽¹⁾		94.4 ⁽¹⁾	60.2	89.5 ⁽¹⁾	60.5	81.5 ⁽²⁾	
270	- B													10.2 ⁽⁸⁾		12.9 ⁽¹¹⁾		15.0 ⁽¹¹⁾		18.6	18.6	18.1*	18.1*		
	- B															99.1 ⁽³⁾		98.2 ⁽¹⁾		92.5 ⁽¹⁾	55.0	87.7 ⁽¹⁾	58.3	79.8 ⁽²⁾	
275	- B															10.3 ⁽¹¹⁾		13.5 ⁽¹¹⁾		14.9 ⁽¹¹⁾		14.9 ⁽¹¹⁾	17.4*	17.4*	
	- B															96.4 ⁽⁴⁾		95.5 ⁽¹⁾		90.6 ⁽¹⁾		85.9 ⁽¹⁾	56.1	78.2 ⁽²⁾	
280	- B																	8.7 ⁽⁹⁾		12.1 ⁽¹¹⁾		13.5 ⁽¹¹⁾	16.7*	16.7*	
	- B															94.7 ⁽⁴⁾		92.3 ⁽²⁾		88.7 ⁽¹⁾		84.1 ⁽¹⁾	53.8	76.5 ⁽²⁾	
285	- B																			10.6 ⁽¹¹⁾		12.1 ⁽¹¹⁾	16.0*	16.0*	
	- B															90.6 ⁽³⁾		90.3 ⁽²⁾		86.8 ⁽¹⁾		82.3 ⁽¹⁾	51.3	74.8 ⁽¹⁾	
290	- B																			9.1 ⁽¹¹⁾		10.6 ⁽¹¹⁾	14.4	14.4	
	- B																	86.3 ⁽³⁾		84.9 ⁽¹⁾		80.5 ⁽¹⁾	46.4	73.5 ⁽¹⁾	
295	- B																							10.7 ⁽¹¹⁾	
	- B																	83.1 ⁽⁴⁾		81.3 ⁽²⁾		78.7 ⁽¹⁾		72.2 ⁽¹⁾	
300	- B																							9.5 ⁽¹¹⁾	
	- B																	80.0 ⁽²⁾		79.6 ⁽²⁾		76.9 ⁽¹⁾		70.9 ⁽¹⁾	
305	- B																							8.3 ⁽¹¹⁾	
	- B																	77.9 ⁽⁹⁾		75.9 ⁽³⁾		75.2 ⁽¹⁾		69.6 ⁽¹⁾	
310	- B																								
	- B																			74.4 ⁽³⁾		71.6 ⁽²⁾		68.2 ⁽¹⁾	
315	- B																								
	- B																			71.7 ⁽⁴⁾		70.0 ⁽²⁾		66.9 ⁽¹⁾	
320	- B																								
	- B																			69.1 ⁽⁵⁾		68.5 ⁽²⁾		65.6 ⁽¹⁾	
325	- B																								
	- B																			67.3 ⁽⁵⁾		65.6 ⁽³⁾		64.3 ⁽¹⁾	
330	- B																								
	- B																							62.8 ⁽⁴⁾	
335	- B																								
	- B																							61.7 ⁽⁴⁾	
340	- B																								
	- B																							59.6 ⁽³⁾	
345	- B																								
	- B																							58.0 ⁽³⁾	
350	- B																								
	- B																							54.0 ⁽⁴⁾	
355	- B																								
	- B																							53.0 ⁽⁴⁾	
360	- B																								
	- B																							51.3 ⁽³⁾	
365	- B																								
	- B																							49.9 ⁽³⁾	

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

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



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	87°/85	Wmax
38	-			372.0°	372.0°																				
	B			455.0°	455.0°																				
40	-	359.0	368.0 ²	354.0°	354.0 ¹																				
	B	551.0	551.0	455.0°	455.0 ¹																				
45	-	319.0	327.0 ³	315.0°	315.0°	302.0°	302.0 ¹																		
	B	551.0	551.0	455.0	455.0 ¹	450.0°	452.0 ¹																		
50	-	287.0	293.0 ⁴	284.0°	284.0°	273.0°	273.0°	264.0°	264.0 ¹																
	B	542.0	551.0 ¹	455.0	455.0 ¹	433.0°	453.0 ¹	369.0°	370.0 ¹																
55	-	260.0	265.0 ⁵	258.0°	258.0°	248.0°	248.0°	240.0°	240.0°	232.0°	232.0 ¹														
	B	511.0	551.0 ¹	455.0	455.0 ¹	449.0	453.0 ¹	367.0°	372.0 ¹	337.0°	338.0 ¹														
60	-	238.0	244.0 ⁶	237.0°	237.0°	227.0°	227.0°	220.0°	220.0 ²	213.0°	213.0°	206.0°	206.0 ¹												
	B	488.0	543.0 ²	455.0	455.0 ¹	431.0	452.0 ¹	373.0	373.0 ¹	331.0°	339.0 ¹	290.0°	290.0 ¹												
65	-	219.0	224.0 ⁸	218.0°	218.0°	209.0°	209.0°	203.0°	203.0°	196.0°	196.0°	190.0°	190.0°	184.0°	184.0 ¹										
	B	461.0	530.0 ²	442.0	455.0 ²	414.0	452.0 ¹	371.0	374.0 ¹	338.0	339.0 ¹	287.0°	291.0 ¹	249.0°	250.0 ¹										
70	-	203.0	208.0 ⁹	202.0°	202.0°	194.0°	194.0°	188.0°	188.0 ³	182.0°	182.0°	176.0°	176.0°	171.0°	171.0°	166.0°	166.0 ¹								
	B	420.0	510.0 ²	423.0	455.0 ²	396.0	451.0 ¹	364.0	375.0 ¹	334.0	338.0 ¹	291.0	291.0 ¹	248.0°	250.0 ¹	212.0°	213.0 ¹								
75	-	190.0	191.0 ¹⁰	188.0°	188.0°	181.0°	181.0°	175.0°	175.0°	169.0°	169.0°	164.0°	164.0°	159.0°	159.0°	155.0°	155.0°	150.0°	150.0 ¹						
	B	368.0	493.0 ²	403.0	455.0 ²	379.0	447.0 ¹	353.0	376.0 ¹	289.0	290.0 ¹	250.0	250.0 ¹	211.0°	213.0 ¹	179.0°	179.0 ¹								
80	-	173.0 ¹¹	176.0°	176.0°	169.0°	169.0°	164.0°	164.0°	158.0°	158.0°	153.0°	153.0°	148.0°	148.0 ¹	145.0°	145.0°	140.0°	140.0°	136.0°	136.0 ¹					
	B	481.0 ²	378.0	455.0 ¹	362.0	441.0 ¹	339.0	377.0 ¹	315.0	336.0 ¹	285.0	288.0 ¹	249.0	249.0	213.0	213.0 ¹	178.0°	179.0 ¹	155.0°	155.0 ¹					
85	-	157.0 ¹²	164.0°	164.0 ¹⁰	158.0°	158.0°	154.0°	154.0°	148.0°	148.0°	144.0°	144.0°	139.0°	139.0°	136.0°	136.0°	132.0°	132.0°	128.0°	128.0°	124.0°	124.0 ¹	111.0°	111.0°	
	B	464.0 ²	352.0	449.0 ²	342.0	435.0 ¹	324.0	376.0 ¹	304.0	335.0 ¹	279.0	287.0 ¹	247.0	247.0	212.0	212.0 ¹	179.0	179.0 ¹	153.0°	154.0 ¹	131.0°	131.0 ¹	111.0°	111.0°	
90	-	141.0 ¹³	152.0°	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°	124.0°	124.0°	120.0°	120.0°	116.0°	116.0°	109.0°	109.0 ¹	
	B	443.0°	325.0	442.0 ²	318.0	428.0 ¹	310.0	374.0 ¹	292.0	333.0 ¹	271.0	286.0 ¹	243.0	245.0 ¹	211.0	211.0 ¹	177.0	178.0 ¹	153.0	153.0 ¹	129.0°	130.0 ¹	109.0°	109.0 ¹	
95	-	129.0 ¹⁴	138.0	138.0 ¹¹	139.0°	139.0°	136.0°	136.0 ⁸	131.0°	131.0°	127.0°	127.0°	123.0°	123.0 ⁹	120.0°	120.0°	117.0°	117.0°	113.0°	113.0°	109.0°	109.0°	106.0°	106.0°	
	B	422.0 ²	296.0	422.0 ²	298.0	415.0 ¹	295.0	372.0 ¹	281.0	330.0 ¹	262.0	285.0 ¹	236.0	243.0 ¹	209.0	210.0 ¹	176.0	176.0 ¹	151.0	151.0 ¹	129.0	129.0 ¹	108.0°	108.0 ¹	
100	-	117.0 ¹⁵	127.0 ¹¹	130.0*	130.0°	128.0°	128.0°	124.0°	124.0°	120.0°	120.0°	116.0°	116.0°	113.0°	113.0°	110.0°	110.0°	106.0°	106.0 ¹	103.0°	103.0°	99.8°	99.8°		
	B	401.0 ²	403.0 ²	280.0	397.0 ¹	275.0	371.0 ¹	268.0	326.0 ¹	253.0	282.0 ¹	230.0	241.0 ¹	208.0	208.0 ¹	174.0	175.0 ¹	149.0	150.0 ¹	128.0	128.0 ¹	108.0	108.0 ¹		
105	-	107.0 ¹⁶	116.0 ¹²	122.0°	122.0°	120.0°	120.0°	118.0°	118.0°	114.0°	114.0°	110.0°	110.0°	107.0°	107.0°	104.0°	104.0°	101.0°	101.0°	97.4°	97.4°	94.2°	94.2°		
	B	380.0*	383.0 ²	261.0	379.0 ¹	257.0	359.0 ¹	255.0	323.0 ¹	245.0	280.0 ¹	223.0	239.0 ¹	206.0	208.0 ¹	173.0	174.0 ¹	147.0	148.0 ¹	127.0	127.0 ¹	107.0	107.0 ¹		
110	-	99.0 ¹⁷	106.0 ¹³	114.0*	114.0°	113.0°	113.0°	111.0°	111.0°	108.0°	108.0°	104.0°	104.0°	101.0°	101.0°	98.4°	98.4°	95.2°	95.2°	92.3°	92.3°	89.0°	89.0°		
	B	360.0 ²	364.0 ²	244.0	361.0 ¹	241.0	346.0 ¹	240.0	320.0 ¹	236.0	277.0 ¹	216.0	235.0 ¹	203.0	207.0 ²	171.0	173.0 ¹	145.0	147.0 ¹	126.0	127.0 ¹	106.0	106.0 ¹		
115	-	90.8 ¹⁸	97.9 ¹⁴	105.0	105.0	106.0°	106.0 ⁹	104.0°	104.0 ⁶	102.0°	102.0°	98.8°	98.8°	96.3°	96.3°	93.3°	93.3°	90.1°	90.1°	87.3°	87.3°	84.3°	84.3°		
	B	341.0 ²	347.0 ²	223.0	345.0 ²	230.0	333.0 ¹	226.0	310.0 ¹	224.0	275.0 ¹	209.0	232.0 ¹	199.0	207.0 ¹	170.0	172.0 ¹	143.0	145.0 ¹	126.0	126.0 ¹	105.0	105.0 ¹		
120	-	82.6 ¹⁹	89.6 ¹⁵	96.1 ¹⁰	100.0*	100.0 ⁷	98.1*	98.1*	96.0°	96.0°	93.8°	93.8°	91.5°	91.5°	88.5°	88.5°	85.6°	85.6°	82.8°	82.8°	79.9°	79.9°			
	B	324.0*	330.0 ²	219.0	320.0 ¹	214.0	301.0 ¹	212.0	271.0 ¹	203.0	228.0 ¹	195.0	206.0 ¹	169.0	171.0 ¹	141.0	144.0 ¹	125.0	125.0 ¹	104.0	104.0 ¹				
125	-	74.4 ²⁰	82.8 ¹⁶	88.2 ¹¹	95.0°	95.0°	92.7°	92.7°	90.6°	90.6°	88.7°	88.7°	87.0°	87.0°	84.2°	84.2°	81.3°	81.3°	78.6°	78.6°	75.8°	75.8°			
	B	310.0 ²	314.0 ²	206.0	307.0 ¹	202.0	292.0 ¹	201.0	265.0 ¹	195.0	225.0 ¹	191.0	206.0 ¹	168.0	171.0 ¹	139.0	142.0 ¹	124.0	125.0 ¹	103.0	103.0 ¹				
130	-	68.5 ²¹	76.7 ¹⁷	81.4 ¹²	90.0°	90.0°	87.8°	87.8°	85.7°	85.7°	83.8°	83.8°	82.5°	82.5°	80.1°	80.1°	77.3°	77.3°	74.7°	74.7°	71.9°	71.9°			
	B	297.0 ²	299.0 ²	194.0	294.0 ¹	193.0	282.0 ¹	190.0	259.0 ¹	188.0	221.0 ¹	185.0	203.0 ¹	167.0	171.0 ¹	136.0	140.0 ¹	123.0	124.0 ¹	103.0	103.0 ¹				
135	-	63.0 ²²	70.6 ¹⁸	75.2 ¹³	82.9	82.9	83.2°	83.2°	81.2°	81.2°	79.3°	79.3°	78.0°	78.0°	76.1°	76.1°	73.6°	73.6°	71.1°	71.1°	68.4°	68.4°			
	B	284.0*	285.0 ²	182.0	282.0 ¹	186.0	273.0 ¹	181.0	253.0 ¹	180.0	218.0 ¹	179.0	201.0 ¹	165.0	170.0 ¹	134.0	139.0 ¹	123.0	124.0 ¹	102.0	102.0 ¹				
140	-	57.5 ²³	64.5 ¹⁹	69.0 ¹⁴	75.4 ¹⁴	75.4 ¹⁴	79.1°	79.1°	77.0°	77.0°	75.1°	75.1°	73.9°	73.9°	72.1°										



286,600 lb –
374,800 lb

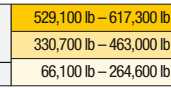


529,100 lb – 617,300 lb
330,700 lb – 463,000 lb
66,100 lb – 264,600 lb



60

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	87°/85	Wmax
210	-							20.4 ¹⁾		23.9 ²⁾		28.2 ¹⁾		31.1 ¹¹⁾	38.3*	38.3*	36.3*	36.3*	34.6*	34.6*	33.0*	33.0*	31.2*	31.2*	
	B							160.0 ³⁾		162.0 ⁴⁾		158.0 ¹⁾		156.0 ¹⁾	93.9	151.0 ¹⁾	95.6	140.0 ¹⁾	94.2	115.0 ³⁾	91.8	110.0 ³⁾	90.3	95.1 ¹⁴⁾	
215	-							18.4 ¹⁾		21.6 ³⁾		25.5 ¹⁾		28.4 ¹¹⁾	34.9	34.9	34.7*	34.7*	33.0*	33.0*	31.4*	31.4*	29.7*	29.7*	
	B							152.0 ²⁾		156.0 ⁴⁾		153.0 ³⁾		151.0 ¹⁾	84.4	147.0 ¹⁾	91.9	137.0 ¹⁾	91.6	113.0 ²⁾	88.3	108.0 ³⁾	87.0	94.4 ⁴⁾	
220	-							16.4 ¹⁾		19.3 ³⁾		22.8 ¹⁾		25.9 ¹¹⁾		29.2 ¹⁾	33.2*	33.2*	31.5*	31.5*	29.9*	29.9*	28.2*	28.2*	
	B							145.0 ²⁾		151.0 ³⁾		149.0 ³⁾		147.0 ¹⁾	88.4	144.0 ¹⁾	88.4	134.0 ¹⁾	88.3	112.0 ²⁾	85.4	106.0 ³⁾	83.7	93.8 ⁴⁾	
225	-							17.0 ²⁾		19.5 ³⁾		23.7 ¹⁾		26.8 ¹¹⁾		31.9*	31.9*	30.1*	30.1*	28.4*	28.4*	26.7*	26.7*		
	B							148.0 ³⁾		144.0 ³⁾		143.0 ²⁾		140.0 ¹⁾	84.7	131.0 ¹⁾	85.0	110.0 ²⁾	83.4	104.0 ²⁾	80.8	93.1 ⁴⁾			
230	-							14.5 ¹⁾		17.7 ³⁾		21.6 ¹⁾		24.5 ¹¹⁾		30.6*	30.6*	28.8*	28.8*	27.1*	27.1*	25.4*	25.4*		
	B							140.0 ²⁾		140.0 ²⁾		139.0 ²⁾		136.0 ¹⁾	80.6	128.0 ¹⁾	81.7	108.0 ¹⁾	81.3	103.0 ²⁾	77.9	92.4 ⁴⁾			
235	-							12.7 ¹⁾		15.8 ³⁾		19.4 ¹⁾		22.1 ¹⁾	27.7	27.7	27.5*	27.5*	25.8*	25.8*	24.1*	24.1*			
	B							134.0 ¹⁾		135.0 ⁴⁾		134.0 ²⁾		133.0 ¹⁾	72.2	125.0 ¹⁾	78.7	107.0 ²⁾	78.5	102.0 ²⁾	75.3	90.8 ⁴⁾			
240	-							10.9 ²⁾		14.0 ³⁾		17.2 ¹⁾		20.1 ¹⁾		22.2 ¹⁾	26.3*	26.3*	24.5*	24.5*	22.8*	22.8*			
	B							127.0 ¹⁾		130.0 ⁴⁾		129.0 ³⁾		128.0 ¹⁾		122.0 ¹⁾	75.7	105.0 ²⁾	75.7	101.0 ²⁾	73.7	89.1 ⁴⁾			
245	-							12.1 ¹⁾		14.3 ³⁾		18.4 ¹⁾		20.4 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							126.0 ³⁾		124.0 ³⁾		124.0 ¹⁾		119.0 ¹⁾	72.5	104.0 ²⁾	73.0	98.9 ³⁾	72.1	87.3 ⁴⁾					
250	-							9.5 ¹⁾		12.6 ³⁾		16.6 ¹⁾		18.6 ¹⁾		24.3*	24.3*	22.2*	22.2*	20.8*	20.8*				
	B							120.0 ³⁾		120.0 ⁴⁾		120.0 ¹⁾		116.0 ¹⁾		116.0 ¹⁾	69.1	102.0 ²⁾	70.3	97.1 ⁴⁾	69.6	86.0 ³⁾			
255	-							7.7 ¹⁾		11.0 ³⁾		14.8 ¹⁾		16.8 ¹⁾		21.7	21.7	21.3*	21.3*	19.9*	19.9*				
	B							116.0 ³⁾		116.0 ³⁾		116.0 ¹⁾		113.0 ¹⁾	61.7	100.0 ¹⁾	67.8	95.4 ²⁾	67.2	84.9 ³⁾					
260	-							9.3 ¹⁾		13.0 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							111.0 ³⁾		112.0 ³⁾		112.0 ²⁾		110.0 ¹⁾		98.8 ²⁾	65.2	93.6 ²⁾	64.7	83.7 ³⁾					
265	-							10.7 ¹⁾		13.9 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							107.0 ³⁾		107.0 ³⁾		107.0 ²⁾		107.0 ¹⁾		107.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
270	-							11.9 ¹⁾		14.0 ²⁾		19.0 ¹⁾		21.3*		26.3*	26.3*	24.5*	24.5*	22.8*	22.8*				
	B							105.0 ⁴⁾		105.0 ²⁾		104.0 ¹⁾		103.0 ¹⁾		102.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
275	-							10.3 ¹⁾		12.5 ²⁾		16.6 ¹⁾		18.6 ¹⁾		24.3*	24.3*	22.2*	22.2*	20.8*	20.8*				
	B							102.0 ³⁾		102.0 ³⁾		101.0 ¹⁾		101.0 ¹⁾		99.2 ³⁾		98.8 ³⁾		98.0 ¹⁾		96.1 ³⁾			
280	-							10.3 ¹⁾		12.5 ²⁾		16.6 ¹⁾		18.6 ¹⁾		24.3*	24.3*	22.2*	22.2*	20.8*	20.8*				
	B							102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾			
285	-							11.2 ¹⁾		15.4*		19.0*		21.3*		26.3*	26.3*	24.5*	24.5*	22.8*	22.8*				
	B							116.0 ³⁾		116.0 ³⁾		116.0 ¹⁾		113.0 ¹⁾	61.7	100.0 ¹⁾	67.8	95.4 ²⁾	67.2	84.9 ³⁾					
290	-							9.3 ¹⁾		13.0 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							111.0 ³⁾		112.0 ³⁾		112.0 ²⁾		110.0 ¹⁾		98.8 ²⁾	65.2	93.6 ²⁾	64.7	83.7 ³⁾					
295	-							10.7 ¹⁾		13.9 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							107.0 ³⁾		107.0 ³⁾		107.0 ²⁾		107.0 ¹⁾		107.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
300	-							11.9 ¹⁾		14.0 ²⁾		19.0 ¹⁾		21.3*		26.3*	26.3*	24.5*	24.5*	22.8*	22.8*				
	B							105.0 ⁴⁾		105.0 ²⁾		104.0 ¹⁾		103.0 ¹⁾		102.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
305	-							10.3 ¹⁾		12.5 ²⁾		16.6 ¹⁾		18.6 ¹⁾		24.3*	24.3*	22.2*	22.2*	20.8*	20.8*				
	B							102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾			
310	-							11.2 ¹⁾		15.4*		19.0*		21.3*		26.3*	26.3*	24.5*	24.5*	22.8*	22.8*				
	B							116.0 ³⁾		116.0 ³⁾		116.0 ¹⁾		113.0 ¹⁾	61.7	100.0 ¹⁾	67.8	95.4 ²⁾	67.2	84.9 ³⁾					
315	-							9.3 ¹⁾		13.0 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							111.0 ³⁾		112.0 ³⁾		112.0 ²⁾		110.0 ¹⁾		98.8 ²⁾	65.2	93.6 ²⁾	64.7	83.7 ³⁾					
320	-							10.7 ¹⁾		13.9 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							107.0 ³⁾		107.0 ³⁾		107.0 ²⁾		107.0 ¹⁾		107.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
325	-							11.9 ¹⁾		14.0 ²⁾		19.0 ¹⁾		21.3*		26.3*	26.3*	24.5*	24.5*	22.8*	22.8*				
	B							105.0 ⁴⁾		105.0 ²⁾		104.0 ¹⁾		103.0 ¹⁾		102.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
330	-							10.3 ¹⁾		12.5 ²⁾		16.6 ¹⁾		18.6 ¹⁾		24.3*	24.3*	22.2*	22.2*	20.8*	20.8*				
	B							102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾		102.0 ³⁾			
335	-							11.2 ¹⁾		15.4*		19.0*		21.3*		26.3*	26.3*	24.5*	24.5*	22.8*	22.8*				
	B							116.0 ³⁾		116.0 ³⁾		116.0 ¹⁾		113.0 ¹⁾	61.7	100.0 ¹⁾	67.8	95.4 ²⁾	67.2	84.9 ³⁾					
340	-							9.3 ¹⁾		13.0 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							111.0 ³⁾		112.0 ³⁾		112.0 ²⁾		110.0 ¹⁾		98.8 ²⁾	65.2	93.6 ²⁾	64.7	83.7 ³⁾					
345	-							10.7 ¹⁾		13.9 ²⁾		17.2 ¹⁾		20.5 ¹⁾		25.2*	25.2*	23.4*	23.4*	21.8*	21.8*				
	B							107.0 ³⁾		107.0 ³⁾		107.0 ²⁾		107.0 ¹⁾		107.0 ¹⁾		97.2 ²⁾	62.2	91.9 ³⁾	62.4	82.6 ³⁾			
350	-							11.9 ¹⁾		14.0 ²⁾		19.0 ¹⁾		21.3*											



ft		S 157																								
		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	
40	-			339.0*	339.0 ¹⁾																					
45	-	305.0	314.0*	303.0*	303.0*	291.0*	291.0*																			
50	-	551.0	551.0	437.0*	445.0 ¹⁾	419.0*	419.0*																			
55	-	250.0	256.0 ¹⁾	249.0*	249.0*	240.0*	240.0*	232.0*	232.0*	224.0*	224.0*															
60	-	509.0	551.0 ¹⁾	442.0	449.0 ¹⁾	419.0	419.0 ¹⁾	346.0*	346.0 ¹⁾	309.0*	309.0*															
65	-	229.0	234.0*	228.0*	228.0 ¹⁾	220.0*	220.0*	213.0*	213.0*	206.0*	206.0*	199.0*	199.0*													
70	-	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⁾	272.0*	272.0*													
75	-	211.0	217.0*	211.0*	211.0*	203.0*	203.0*	197.0*	197.0*	190.0*	190.0*	184.0*	184.0*	179.0*	179.0*											
80	-	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⁾	270.0*	272.0 ¹⁾	234.0*	234.0*											
85	-	196.0	202.0 ¹⁾	196.0*	196.0*	188.0*	188.0 ¹⁾	183.0*	183.0 ¹⁾	177.0*	177.0*	171.0*	171.0*	166.0*	166.0*	162.0*	162.0*									
90	-	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⁾	272.0	272.0 ¹⁾	234.0*	234.0 ¹⁾	196.0*	196.0*	145.0*	145.0*							
95	-	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*							
100	-	381.0	502.0 ¹⁾	395.0	453.0 ¹⁾	368.0	419.0 ¹⁾	339.0	346.0 ¹⁾	308.0	309.0 ¹⁾	272.0	272.0	234.0	234.0 ¹⁾	196.0*	196.0 ¹⁾	171.0*	171.0*							
105	-	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*					
110	-	295.0	483.0 ¹⁾	378.0	454.0 ¹⁾	354.0	414.0 ¹⁾	329.0	346.0 ¹⁾	302.0	309.0 ¹⁾	270.0	271.0 ¹⁾	234.0	234.0 ¹⁾	196.0	196.0 ¹⁾	170.0*	171.0 ¹⁾	149.0*	149.0*					
115	-		155.0 ¹⁾	161.0*	161.0*	154.0*	154.0*	149.0*	149.0*	144.0*	144.0*	140.0*	140.0*	136.0*	136.0*	132.0*	132.0*	128.0*	128.0*	124.0*	124.0*	120.0*	120.0*			
120	-		463.0*	361.0	445.0*	340.0	411.0 ¹⁾	316.0	346.0 ¹⁾	294.0	309.0 ¹⁾	266.0	270.0 ¹⁾	233.0	233.0 ¹⁾	196.0	196.0 ¹⁾	171.0	171.0 ¹⁾	146.0*	147.0 ¹⁾	126.0*	126.0*			
125	-		140.0 ¹⁾	151.0*	151.0*	145.0*	145.0*	141.0*	141.0*	136.0*	136.0*	132.0*	132.0*	128.0*	128.0*	125.0*	125.0*	120.0*	120.0*	116.0*	116.0*	113.0*	113.0*	105.0*	105.0*	
130	-		441.0*	337.0	436.0 ¹⁾	326.0	404.0 ¹⁾	304.0	346.0 ¹⁾	284.0	309.0 ¹⁾	261.0	269.0 ¹⁾	230.0	231.0 ¹⁾	196.0	196.0 ¹⁾	170.0	170.0 ¹⁾	144.0*	146.0 ¹⁾	124.0*	125.0 ¹⁾	105.0*	105.0*	
135	-		127.0 ¹⁾	136.0	137.0 ¹⁾	137.0*	137.0*	133.0*	133.0 ¹⁾	128.0*	128.0*	124.0*	124.0*	120.0*	120.0 ¹⁾	117.0*	117.0*	113.0*	113.0 ¹⁾	109.0*	109.0 ¹⁾	106.0*	106.0 ¹⁾	102.0*	102.0 ¹⁾	
140	-		420.0*	305.0	417.0 ¹⁾	312.0	398.0 ¹⁾	293.0	346.0 ¹⁾	274.0	308.0 ¹⁾	254.0	268.0 ¹⁾	226.0	230.0 ¹⁾	196.0	196.0 ¹⁾	168.0	169.0 ¹⁾	145.0*	145.0*	123.0*	124.0 ¹⁾	104.0*	104.0 ¹⁾	
145	-		116.0 ¹⁾	127.0	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*	
150	-		400.0*	238.0	398.0 ¹⁾	296.0	386.0 ¹⁾	283.0	346.0 ¹⁾	264.0	307.0 ¹⁾	246.0	267.0 ¹⁾	221.0	229.0 ¹⁾	196.0	196.0 ¹⁾	167.0	168.0 ¹⁾	143.0	144.0 ¹⁾	123.0	123.0 ¹⁾	103.0*	104.0 ¹⁾	
155	-		105.0 ¹⁾	115.0 ¹⁾	121.0*	121.0*	119.0*	119.0*	115.0*	115.0*	111.0*	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*		
160	-		380.0*	379.0 ¹⁾	282.0	371.0*	273.0	346.0 ¹⁾	256.0	306.0 ¹⁾	239.0	265.0 ¹⁾	216.0	228.0 ¹⁾	195.0	196.0 ¹⁾	166.0	167.0 ¹⁾	141.0	142.0 ¹⁾	123.0	123.0 ¹⁾	103.0	103.0 ¹⁾		
165	-		96.3 ¹⁾	105.0 ¹⁾	113.0*	113.0*	112.0*	112.0 ¹⁾	109.0*	109.0*	105.0*	105.0 ¹⁾	102.0*	102.0*	99.4*	99.4*	95.4*	95.4*	92.2*	92.2*	89.4*	89.4*	86.1*	86.1*		
170	-		361.0*	361.0*	262.0	355.0 ¹⁾	262.0	337.0 ¹⁾	249.0	304.0 ¹⁾	233.0	265.0 ¹⁾	210.0*	226.0 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⁾		
175	-		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*		
180	-		343.0*	344.0*	232.0	340.0*	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⁾		
185	-		81.8 ¹⁾	88.7 ¹⁾	95.5 ¹⁾	99.5*	97.4*	97.4*	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*	73.3*	73.3*		
190	-		326.0*	328.0*	326.0*	237.0	321.0*	230.0	299.0*	220.0	262.0 ¹⁾	197.0	220.0*	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⁾			
195	-		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*			
200	-		310.0*	314.0*	312.0*	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⁾			
205	-		67.3 ¹⁾	74.8 ¹⁾	80.3 ¹⁾	89.2*	89.2*	87.0*	87.0*	85.0*	85.0 ¹⁾	83.2*	83.2*	81.3*	81.3*	77.7*	77.7*	74.8*	74.8*	72.3*	72.3*	69.5*	69.5*			
210	-		295.0*	300.0*	299.0*	207.0	297.0 ¹⁾	208.0	288.0 ¹⁾	206.0	258.0 ¹⁾	186.0	215.0 ¹⁾	182.0	195.0 ¹⁾	160.0	164.0 ¹⁾	132.0	136.0 ¹⁾	119.0	119.0 ¹⁾	99.4	99.4 ¹⁾			
215	-		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*	77.5*	77.5*	74.0*	74.0*	71.3*	71.3*	68.8*	68.8*	66.1*	66.1*			
220	-		281.0*	288.0*	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⁾			
225	-		55.7 ¹⁾	63.7 ¹⁾	68.5 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾	74.9 ¹⁾			
230	-		269.0*	275.0*	275.0*	273.0*	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	98.0 ¹⁾				
235	-		51.0*	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*				
240	-		258.0*	263.0*	264.0*	263.0*	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⁾				
245	-		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*				



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	B	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
40	B			325.0*	325.0*																				
45	B			291.0*	291.0*	280.0*	280.0*																		
50	B			264.0*	264.0*	254.0*	254.0*	246.0*	246.0*																
55	B			240.0*	240.0*	232.0*	232.0*	225.0*	225.0*	217.0*	217.0*														
60	B			220.0*	220.0*	213.0*	213.0*	207.0*	207.0*	193.0*	193.0*														
65	B			203.0*	203.0*	197.0*	197.0*	191.0*	191.0*	185.0*	185.0*	179.0*	179.0*	173.0*	173.0*										
70	B			189.0*	189.0*	183.0*	183.0*	178.0*	178.0*	172.0*	172.0*	166.0*	166.0*	160.0*	160.0*	156.0*	156.0*								
75	B			176.0*	176.0*	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*						
80	B			165.0*	165.0*	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*				
85	B			152.0*	152.0*	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*				
90	B			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*	98.1*	98.1*
95	B			126.0*	126.0*	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*
100	B			115.0*	115.0*	110.0*	110.0*	106.0*	106.0*	103.0*	103.0*	99.8*	99.8*	96.2*	96.2*	92.2*	92.2*	89.1*	89.1*	86.3*	86.3*	83.1*	83.1*	79.6*	79.6*
105	B			105.0*	105.0*	100.0*	100.0*	96.0*	96.0*	92.0*	92.0*	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*
110	B			95.0*	95.0*	90.0*	90.0*	86.0*	86.0*	82.0*	82.0*	78.6*	78.6*	75.1*	75.1*	72.3*	72.3*	69.8*	69.8*	67.1*	67.1*	64.3*	64.3*	61.4*	61.4*
115	B			86.9*	86.9*	81.9*	81.9*	77.9*	77.9*	73.9*	73.9*	70.5*	70.5*	67.0*	67.0*	64.2*	64.2*	61.5*	61.5*	58.8*	58.8*	56.1*	56.1*	53.4*	53.4*
120	B			80.4*	80.4*	75.4*	75.4*	71.4*	71.4*	67.4*	67.4*	63.9*	63.9*	60.4*	60.4*	57.6*	57.6*	54.9*	54.9*	52.2*	52.2*	49.5*	49.5*	46.8*	46.8*
125	B			73.9*	73.9*	68.9*	68.9*	64.9*	64.9*	60.9*	60.9*	57.4*	57.4*	53.9*	53.9*	51.1*	51.1*	48.4*	48.4*	45.7*	45.7*	43.0*	43.0*	40.3*	40.3*
130	B			67.4*	67.4*	62.4*	62.4*	58.4*	58.4*	54.4*	54.4*	50.9*	50.9*	47.4*	47.4*	44.6*	44.6*	41.9*	41.9*	39.2*	39.2*	36.5*	36.5*	33.8*	33.8*
135	B			60.9*	60.9*	55.9*	55.9*	51.9*	51.9*	47.9*	47.9*	44.4*	44.4*	40.9*	40.9*	38.1*	38.1*	35.4*	35.4*	32.7*	32.7*	30.0*	30.0*	27.3*	27.3*
140	B			54.4*	54.4*	49.4*	49.4*	45.4*	45.4*	41.4*	41.4*	37.9*	37.9*	34.4*	34.4*	31.6*	31.6*	28.9*	28.9*	26.2*	26.2*	23.5*	23.5*	20.8*	20.8*
145	B			49.1*	49.1*	44.1*	44.1*	40.1*	40.1*	36.1*	36.1*	32.6*	32.6*	29.1*	29.1*	26.3*	26.3*	23.6*	23.6*	20.9*	20.9*	18.2*	18.2*	15.5*	15.5*
150	B			44.9*	44.9*	39.9*	39.9*	35.9*	35.9*	31.9*	31.9*	28.4*	28.4*	24.9*	24.9*	22.1*	22.1*	19.4*	19.4*	16.7*	16.7*	14.0*	14.0*	11.3*	11.3*
155	B			40.8*	40.8*	35.8*	35.8*	31.8*	31.8*	27.8*	27.8*	24.3*	24.3*	20.8*	20.8*	18.0*	18.0*	15.3*	15.3*	12.6*	12.6*	9.9*	9.9*	7.2*	7.2*
160	B			36.6*	36.6*	31.6*	31.6*	27.6*	27.6*	23.6*	23.6*	20.1*	20.1*	16.6*	16.6*	13.8*	13.8*	11.1*	11.1*	8.4*	8.4*	5.7*	5.7*	3.0*	3.0*
165	B			32.5*	32.5*	27.5*	27.5*	23.5*	23.5*	19.5*	19.5*	16.0*	16.0*	12.5*	12.5*	9.7*	9.7*	7.0*	7.0*	4.3*	4.3*	1.6*	1.6*	-1.1*	-1.1*
170	B			28.5*	28.5*	23.5*	23.5*	19.5*	19.5*	15.5*	15.5*	12.0*	12.0*	8.5*	8.5*	5.7*	5.7*	3.0*	3.0*	0.3*	0.3*	-2.4*	-2.4*	-5.1*	-5.1*
175	B			25.8*	25.8*	20.8*	20.8*	16.8*	16.8*	12.8*	12.8*	9.3*	9.3*	6.8*	6.8*	4.0*	4.0*	1.3*	1.3*	-1.4*	-1.4*	-4.1*	-4.1*	-6.8*	-6.8*
180	B			23.1*	23.1*	18.1*	18.1*	14.1*	14.1*	10.1*	10.1*	6.6*	6.6*	4.1*	4.1*	2.3*	2.3*	0.6*	0.6*	-2.1*	-2.1*	-4.8*	-4.8*	-7.5*	-7.5*
185	B			20.4*	20.4*	15.4*	15.4*	11.4*	11.4*	7.4*	7.4*	3.9*	3.9*	1.4*	1.4*	-1.1*	-1.1*	-3.8*	-3.8*	-6.5*	-6.5*	-9.2*	-9.2*	-11.9*	-11.9*
190	B			18.3*	18.3*	13.3*	13.3*	9.3*	9.3*	5.3*	5.3*	1.8*	1.8*	-0.7*	-0.7*	-3.2*	-3.2*	-5.9*	-5.9*	-8.6*	-8.6*	-11.3*	-11.3*	-14.0*	-14.0*
195	B			17.8*	17.8*	12.8*	12.8*	8.8*	8.8*	4.8*	4.8*	1.3*	1.3*	-1.2*	-1.2*	-3.7*	-3.7*	-6.4*	-6.4*	-9.1*	-9.1*	-11.8*	-11.8*	-14.5*	-14.5*
200	B			16.6*	16.6*	11.6*	11.6*	7.6*	7.6*	3.6*	3.6*	0.1*	0.1*	-2.4*	-2.4*	-5.1*	-5.1*	-7.8*	-7.8*	-10.5*	-10.5*	-13.2*	-13.2*	-15.9*	-15.9*
205	B			14.4*	14.4*	9.4*	9.4*	5.4*	5.4*	1.4*	1.4*	-1.4*	-1.4*	-4.1*	-4.1*	-6.8*	-6.8*	-9.5*	-9.5*	-12.2*	-12.2*	-14.9*	-14.9*	-17.6*	-17.6*
210	B			12.2*	12.2*	7.2*	7.2*	3.2*	3.2*	-0.8*	-0.8*	-3.5*	-3.5*	-6.2*	-6.2*	-8.9*	-8.9*	-11.6*	-11.6*	-14.3*	-14.3*	-17.0*	-17.0*	-19.7*	-19.7*
215	B			10.5*	10.5*	5.5*	5.5*	1.5*	1.5*	-1.8*	-1.8*	-4.5*	-4.5*	-7.2*	-7.2*	-9.9*	-9.9*	-12.6*	-12.6*	-15.3*	-15.3*	-18.0*	-18.0*	-20.7*	-20.7*
220	B			14.7*	14.7*	9.7*	9.7*	5.7*	5.7*	1.7*	1.7*	-1.3*	-1.3*	-4.0*	-4.0*	-6.7*	-6.7*	-9.4*	-9.4*	-12.1*	-12.1*	-14.8*	-14.8*	-17.5*	-17.5*

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



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



		S 197																								
		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	B	280.0	289.0 ⁸	280.0*	280.0*																					
	B	419.0	419.0	375.0*	379.0 ¹¹																					
50	B	253.0	261.0 ⁸	254.0*	254.0*	245.0*	245.0*	237.0*	237.0*																	
	B	419.0	419.0	366.0*	382.0 ¹¹	309.0*	309.0 ¹¹	272.0*	272.0*																	
55	B	231.0	241.0 ⁸	232.0*	232.0 ⁹	224.0*	224.0*	217.0*	217.0*	210.0*	210.0*															
	B	418.0	419.0 ⁸	379.0	382.0 ¹¹	309.0*	309.0 ¹¹	272.0*	272.0 ¹¹	234.0*	234.0*															
60	B	212.0	221.0 ⁸	213.0*	213.0*	207.0*	207.0*	200.0*	200.0*	193.0*	193.0*	186.0*	186.0*													
	B	405.0	419.0 ⁸	369.0	382.0 ¹¹	309.0	309.0 ¹¹	272.0*	272.0 ¹¹	234.0*	234.0 ¹¹	228.0*	228.0*													
65	B	196.0	203.0 ⁸	197.0*	197.0*	191.0*	191.0*	185.0*	185.0*	179.0*	179.0*	172.0*	172.0 ¹¹	167.0*	167.0*											
	B	389.0	419.0 ⁸	357.0	382.0 ¹¹	309.0	309.0 ¹¹	272.0	272.0 ¹¹	234.0*	234.0 ¹¹	224.0*	227.0 ¹¹	196.0*	196.0*											
70	B	182.0	189.0 ⁸	184.0*	184.0*	178.0*	178.0*	172.0*	172.0*	166.0*	166.0 ⁹	160.0*	160.0*	156.0*	156.0*	151.0*	151.0*									
	B	375.0	419.0 ⁸	344.0	382.0 ¹¹	309.0	309.0 ¹¹	272.0	272.0 ¹¹	234.0	234.0 ¹¹	220.0*	228.0 ¹¹	196.0*	196.0 ¹¹	174.0*	174.0*									
75	B	170.0	177.0 ⁸	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 ⁸	333.0	383.0 ¹¹	306.0	309.0 ¹¹	272.0	272.0 ¹¹	234.0	234.0 ¹¹	228.0	228.0 ¹¹	193.0*	196.0 ¹¹	172.0*	173.0 ¹¹	150.0*	150.0*							
80	B	160.0	161.0 ¹¹	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 ⁸	321.0	380.0 ¹¹	298.0	309.0 ¹¹	271.0	272.0 ¹¹	234.0	234.0 ¹¹	224.0	227.0 ¹¹	196.0	196.0 ¹¹	170.0*	173.0 ¹¹	148.0*	149.0 ¹¹	130.0*	130.0*					
85	B		148.0 ¹¹	151.0*	151.0 ⁹	146.0*	146.0 ⁹	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 ⁸	311.0	377.0 ¹¹	289.0	309.0 ¹¹	266.0	272.0 ¹¹	234.0	234.0 ¹¹	220.0	226.0 ¹¹	196.0	196.0 ¹¹	173.0	173.0 ¹¹	147.0*	149.0 ¹¹	128.0*	129.0 ¹¹	111.0*	111.0*			
90	B		136.0 ¹¹	143.0*	143.0*	138.0*	138.0*	133.0*	133.0 ¹¹	129.0*	129.0*	124.0*	124.0*	120.0*	120.0*	116.0*	116.0 ¹¹	112.0*	112.0*	108.0*	108.0*	105.0*	105.0*	93.4*	93.4*	
	B		416.0 ⁸	299.0	374.0 ¹¹	280.0	309.0 ¹¹	258.0	272.0 ¹¹	233.0	234.0 ¹¹	215.0	225.0 ¹¹	193.0	196.0 ¹¹	172.0	173.0 ¹¹	149.0	149.0	126.0*	128.0 ¹¹	110.0*	110.0 ¹¹	93.7*	93.7*	
95	B		124.0 ¹¹	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*	92.2*	92.2*	
	B		402.0 ⁸	284.0	371.0 ¹¹	270.0	309.0 ¹¹	250.0	272.0 ¹¹	229.0	234.0 ¹¹	210.0	224.0 ¹¹	190.0	195.0 ¹¹	170.0	172.0 ¹¹	147.0	148.0 ¹¹	128.0	128.0	109.0*	110.0 ¹¹	92.6*	92.8 ¹¹	
100	B		112.0 ¹¹	122.0	122.0 ¹¹	123.0*	123.0*	119.0*	119.0*	115.0*	115.0*	110.0*	110.0 ¹¹	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 ⁸	272.0	364.0 ¹¹	259.0	309.0 ¹¹	242.0	272.0 ¹¹	224.0	234.0 ¹¹	205.0	223.0 ¹¹	186.0	195.0 ¹¹	167.0	171.0 ¹¹	146.0	147.0 ¹¹	126.0	126.0 ¹¹	109.0	109.0 ¹¹	91.6*	92.4 ¹¹	
105	B		103.0 ¹¹	113.0 ¹¹	117.0*	117.0*	113.0*	113.0 ¹¹	109.0*	109.0*	105.0*	105.0*	101.0*	101.0*	98.1*	98.1*	94.0*	94.0*	90.8*	90.8*	87.8*	87.8*	84.6*	84.6*		
	B		369.0 ⁸	257.0 ¹¹	249.0	309.0 ¹¹	235.0	234.0 ¹¹	218.0	234.0 ¹¹	200.0	222.0 ¹¹	182.0	194.0 ¹¹	164.0	170.0 ¹¹	145.0	146.0 ¹¹	124.0	125.0 ¹¹	109.0	109.0 ¹¹	92.0	92.0 ¹¹		
110	B		94.5 ¹¹	103.0 ¹¹	112.0*	112.0*	108.0*	108.0*	104.0*	104.0*	99.3*	99.3*	96.1*	96.1 ⁸	92.9*	92.9*	88.9*	88.9*	85.8*	85.8*	83.1*	83.1*	80.0*	80.0*		
	B		353.0 ⁸	245.0 ¹¹	239.0	309.0 ¹¹	228.0	272.0 ¹¹	212.0	234.0 ¹¹	195.0	221.0 ¹¹	179.0	194.0 ¹¹	162.0	169.0 ¹¹	144.0	146.0 ¹¹	123.0	125.0 ¹¹	108.0	108.0 ¹¹	91.5	91.5 ¹¹		
115	B		85.0 ¹¹	94.3 ¹¹	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 ⁸	232.0 ¹¹	231.0	308.0 ¹¹	220.0	272.0 ¹¹	207.0	234.0 ¹¹	191.0	219.0 ¹¹	175.0	193.0 ¹¹	159.0	168.0 ¹¹	142.0	145.0 ¹¹	122.0	124.0 ¹¹	108.0	108.0 ¹¹	91.0	91.0 ¹¹		
120	B		78.2 ¹¹	86.0 ¹¹	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 ⁸	219.0 ¹¹	220.0	306.0 ¹¹	212.0	272.0 ¹¹	202.0	234.0 ¹¹	186.0	218.0 ¹¹	172.0	192.0 ¹¹	157.0	168.0 ¹¹	140.0	145.0 ¹¹	120.0	123.0 ¹¹	107.0	107.0 ¹¹	90.5	90.5 ¹¹		
125	B		72.3 ¹¹	79.2 ¹¹	87.1 ¹¹	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 ⁸	206.0 ¹¹	205.0	306.0 ¹¹	205.0	272.0 ¹¹	196.0	234.0 ¹¹	182.0	216.0 ¹¹	168.0	191.0 ¹¹	154.0	166.0 ¹¹	139.0	144.0 ¹¹	119.0	122.0 ¹¹	106.0	107.0 ¹¹	89.9	90.0 ¹¹		
130	B		66.5 ¹¹	72.5 ¹¹	79.9 ¹¹	87.4*	87.4*	85.5*	85.5*	81.8*	81.8*	78.9*	78.9*	76.0*	76.0*	72.4*	72.4*	69.6*	69.6*	67.2*	67.2*	64.4*	64.4*			
	B		295.0 ⁸	293.0 ¹¹	289.0 ¹¹	198.0	269.0 ¹¹	190.0	234.0 ¹¹	178.0	215.0 ¹¹	165.0	190.0 ¹¹	151.0	167.0 ¹¹	137.0	144.0 ¹¹	117.0	121.0 ¹¹	105.0	106.0 ¹¹	89.3	89.3 ¹¹			
135	B		60.6 ¹¹	65.7 ¹¹	72.8 ¹¹	82.9*	81.0*	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 ⁸	282.0 ¹¹	279.0 ¹¹	192.0	266.0 ¹¹	183.0	234.0 ¹¹	174.0	214.0 ¹¹	162.0	188.0 ¹¹	149.0	167.0 ¹¹	135.0	144.0 ¹¹	116.0	120.0 ¹¹	104.0	106.0 ¹¹	88.7	88.7 ¹¹			
140	B		54.8 ¹¹	60.4 ¹¹	66.8 ¹¹	75.1	75.1	76.9*	76.9*	74.4*	74.4*	72.0*	72.0*	69.2*	69.2*	65.7*	65.7*	63.0*	63.0*	60.7*	60.7*	58.1*	58.1*			
	B		269.0 ⁸	271.0 ¹¹	269.0 ¹¹	180.0	260.0 ¹¹	177.0	234.0 ¹¹	169.0	213.0 ¹¹	159.0	187.0 ¹¹	146.0	166.0 ¹¹	133.0	144.0 ¹¹	114.0	119.0 ¹¹	103.0	105.0 ¹¹	88.1	88.7 ¹¹			
145	B		48.9 ¹¹	55.7 ¹¹	61.6 ¹¹	68.1 ¹¹	73.1*	73.1*	70.7*	70.7*	68.8*	68.8*	66.2*	66.2*	62.7*	62.7*	60.1*	60.1*	57.8*	57.8*	55.2*	55.2*				
	B		256.0 ⁸	260.0 ¹¹	259.0 ¹¹	172.0	253.0 ¹¹	172.0	234.0 ¹¹	163.0	212.0 ¹¹	155.0	186.0 ¹¹	144.0	165.0 ¹¹	131.0</										



286,600 lb –
374,800 lb



529,100 lb – 617,300 lb

330,700 lb – 463,000 lb

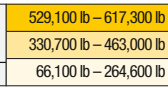
66,100 lb – 264,600 lb



60

ft		S 197																							
		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
235	- B																								
240	- B																								
245	- 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	- B																								
350	- B																								
355	- B																								
360	- B																								
365	- B																								
370	- B																								
375	- B																								
380	- B																								
385	- B																								
390	- B																								
395	- B																								
400	- B																								
405	- B																								
410	- B																								
415	- B																								
420	- B																								

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



60

ft		S 217																							
		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	-			270.0°	270.0°																				
50	-	243.0	252.0 ¹⁾	246.0°	246.0°	237.0°	237.0°																		
55	-	383.0	383.0	309.0°	309.0°	272.0°	272.0°																		
60	-	222.0	230.0 ¹⁾	225.0°	225.0°	217.0°	217.0°	210.0°	210.0°																
65	-	374.0	382.0 ¹⁾	309.0	309.0 ¹⁾	272.0°	272.0°	234.0°	234.0°																
70	-	204.0	214.0 ¹⁾	207.0°	207.0°	200.0°	200.0°	194.0°	194.0°	186.0°	186.0 ¹⁾														
75	-	361.0	382.0 ¹⁾	309.0	309.0 ¹⁾	272.0	272.0 ¹⁾	234.0°	234.0°	224.0°	225.0 ¹⁾														
80	-	189.0	197.0 ¹⁾	192.0°	192.0°	185.0°	185.0°	179.0°	179.0°	173.0°	173.0°	166.0°	166.0 ¹⁾												
85	-	348.0	382.0 ¹⁾	309.0	309.0 ¹⁾	272.0	272.0 ¹⁾	234.0	234.0 ¹⁾	219.0°	225.0 ¹⁾	197.0°	198.0 ¹⁾												
90	-	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 ¹⁾	145.0°	145.0°								
95	-	334.0	382.0 ¹⁾	305.0	309.0 ¹⁾	272.0	272.0 ¹⁾	234.0	234.0 ¹⁾	225.0	225.0	193.0°	197.0 ¹⁾	173.0°	173.0 ¹⁾	154.0°	154.0°								
100	-	164.0	172.0 ¹⁾	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°	130.0°	130.0°						
105	-	323.0	377.0 ¹⁾	295.0	309.0 ¹⁾	269.0	272.0 ¹⁾	234.0	234.0 ¹⁾	221.0	223.0 ¹⁾	198.0	198.0	170.0°	173.0 ¹⁾	152.0°	152.0 ¹⁾	134.0°	134.0°						
110	-	154.0	157.0 ¹⁾	157.0°	157.0°	151.0°	151.0°	146.0°	146.0°	141.0°	141.0°	135.0°	135.0°	131.0°	131.0°	127.0°	127.0°	122.0°	122.0 ¹⁾	117.0°	117.0°				
115	-	314.0	372.0 ¹⁾	284.0	309.0 ¹⁾	262.0	272.0 ¹⁾	234.0	234.0 ¹⁾	217.0	221.0 ¹⁾	195.0	196.0 ¹⁾	174.0	174.0	150.0°	152.0°	132.0°	133.0 ¹⁾	117.0°	117.0°				
120	-	145.0	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°	101.0°		
125	-	298.0	366.0 ¹⁾	274.0	309.0 ¹⁾	254.0	272.0 ¹⁾	232.0	234.0 ¹⁾	212.0	220.0 ¹⁾	192.0	194.0 ¹⁾	171.0	172.0 ¹⁾	152.0	152.0	130.0°	132.0 ¹⁾	115.0°	115.0 ¹⁾	101.0°	101.0°		
130	-		133.0 ¹⁾	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°	99.6°	86.4°	86.4°
135	-		360.0 ¹⁾	266.0	308.0 ¹⁾	245.0	272.0 ¹⁾	226.0	234.0 ¹⁾	207.0	218.0 ¹⁾	188.0	193.0 ¹⁾	168.0	171.0 ¹⁾	150.0	150.0 ¹⁾	128.0°	131.0 ¹⁾	113.0°	115.0 ¹⁾	100.0°	100.0 ¹⁾	86.4°	86.4°
140	-		121.0 ¹⁾	132.0°	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°	85.2°
145	-		354.0 ¹⁾	260.0	306.0 ¹⁾	236.0	271.0 ¹⁾	219.0	234.0 ¹⁾	201.0	216.0 ¹⁾	183.0	191.0 ¹⁾	165.0	169.0 ¹⁾	148.0	149.0 ¹⁾	130.0	131.0 ¹⁾	112.0°	114.0 ¹⁾	98.9°	98.9°	85.4°	85.4°
150	-		110.0 ¹⁾	119.0	119.0 ¹⁾	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°	83.9°
155	-		345.0 ¹⁾	250.0	305.0 ¹⁾	228.0	269.0 ¹⁾	212.0	234.0 ¹⁾	195.0	214.0 ¹⁾	179.0	190.0 ¹⁾	162.0	168.0 ¹⁾	146.0	149.0 ¹⁾	129.0	130.0 ¹⁾	114.0	114.0 ¹⁾	97.8°	97.8°	84.5°	84.5°
160	-		100.0 ¹⁾	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°	81.4°
165	-		336.0 ¹⁾	240.0	302.0 ¹⁾	225.0	267.0 ¹⁾	206.0	234.0 ¹⁾	190.0	212.0 ¹⁾	175.0	188.0 ¹⁾	159.0	167.0 ¹⁾	144.0	148.0 ¹⁾	127.0	129.0 ¹⁾	112.0	113.0 ¹⁾	99.2°	99.2°	83.7°	83.7°
170	-		92.5 ¹⁾	102.0 ¹⁾	109.0°	109.0 ¹⁾	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°	76.9°	
175	-		328.0 ¹⁾	297.0 ¹⁾	218.0	266.0 ¹⁾	199.0	233.0 ¹⁾	185.0	210.0 ¹⁾	170.0	187.0 ¹⁾	156.0	166.0 ¹⁾	142.0	147.0 ¹⁾	126.0	129.0 ¹⁾	111.0	113.0 ¹⁾	98.4	98.6 ¹⁾	84.7	84.7	
180	-		84.6 ¹⁾	93.9 ¹⁾	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°	72.7°	
185	-		317.0 ¹⁾	291.0 ¹⁾	211.0	262.0 ¹⁾	194.0	232.0 ¹⁾	181.0	209.0 ¹⁾	167.0	185.0 ¹⁾	153.0	165.0 ¹⁾	139.0	146.0 ¹⁾	125.0	128.0 ¹⁾	110.0	112.0 ¹⁾	97.6	98.1 ¹⁾	84.2	84.3 ¹⁾	
190	-		76.7 ¹⁾	85.5 ¹⁾	93.6	93.6	95.6°	95.6°	91.0°	91.0°	86.9°	86.9°	84.0°	84.0°	80.9°	80.9°	77.2°	77.2°	74.3°	74.3°	71.8°	71.8°	68.9°	68.9°	
195	-		315.0 ¹⁾	285.0 ¹⁾	205.0	259.0 ¹⁾	189.0	232.0 ¹⁾	176.0	207.0 ¹⁾	163.0	184.0 ¹⁾	150.0	163.0 ¹⁾	137.0	145.0 ¹⁾	123.0	127.0 ¹⁾	109.0	111.0 ¹⁾	96.7	97.6 ¹⁾	83.7	83.8 ¹⁾	
200	-		70.1 ¹⁾	78.5 ¹⁾	88.2	88.2	91.4°	91.4°	86.9°	86.9°	82.8°	82.8°	80.0°	80.0°	77.0°	77.0°	73.3°	73.3°	70.5°	70.5°	68.1°	68.1°	65.2°	65.2°	
205	-		303.0 ¹⁾	278.0 ¹⁾	195.0	254.0 ¹⁾	188.0	229.0 ¹⁾	171.0	205.0 ¹⁾	147.0	162.0 ¹⁾	135.0	144.0 ¹⁾	122.0	126.0 ¹⁾	108.0	111.0 ¹⁾	95.9	97.1 ¹⁾	83.1	83.1 ¹⁾	81.3°	81.3°	
210	-		64.8 ¹⁾	72.2 ¹⁾	79.4 ¹⁾	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°	61.9°		
215	-		291.0 ¹⁾	270.0 ¹⁾	249.0 ¹⁾	186.0	227.0 ¹⁾	167.0	203.0 ¹⁾	155.0	180.0 ¹⁾	144.0	161.0 ¹⁾	132.0	143.0 ¹⁾	120.0	126.0 ¹⁾	107.0	110.0 ¹⁾	96.1	96.6 ¹⁾	82.6	83.0 ¹⁾		
220	-		59.5 ¹⁾	65.9 ¹⁾	72.6 ¹⁾	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°	58.6°		
225	-		279.0 ¹⁾	265.0 ¹⁾	244.0 ¹⁾	177.0	223.0 ¹⁾	163.0	200.0 ¹⁾	151.0	179.0 ¹⁾	141.0	160.0 ¹⁾	130.0	142.0 ¹⁾	118.0	125.0 ¹⁾	106.0	110.0 ¹⁾	94.3	96.1 ¹⁾	82.0	82.6 ¹⁾		
230	-		54.2 ¹⁾	59.5 ¹⁾	65.8 ¹⁾	73.9	73.9	75.5°	75.5°	72.3°	72.3°	69.5°	69.5°	66.8°	66.8°	63.3°	63.3°	60.6°	60.6°	58.4°	58.4°	55.7°	55.7°		
235	-		268.0 ¹⁾	262.0 ¹⁾	238.0 ¹⁾	173.0	220.0*	162.0	199.0 ¹⁾	148.0	178.0 ¹⁾	138.0	159.0 ¹⁾	128.0	141.0 ¹⁾	116.0	124.0 ¹⁾	105.0	109.0 ¹⁾	93.5	95.6 ¹⁾	81.4	82.2 ¹⁾		
240	-		49.0 ¹⁾	54.6 ¹⁾	60.7 ¹⁾	67.0 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°	52.9°			
245	-		291.0 ¹⁾	270.0 ¹⁾	249.0 ¹⁾	183.0	227.0*	167.0	203.0 ¹⁾	155.0	180.0 ¹⁾	144.0	161.0 ¹⁾	132.0	143.0 ¹⁾	120.0	126.0 ¹⁾	107.0	110.0 ¹⁾	96.1	96.6 ¹⁾	82.6	83.0 ¹⁾		
250	-		59.5 ¹⁾	65.9 ¹⁾	72.6 ¹⁾	<																			



286,600 lb –
374,800 lb



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



60

		S 217																									
		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		
245	-					122.0 ²⁾		126.0 ³⁾		128.0 ⁴⁾		127.0 ⁵⁾		125.0 ⁶⁾		122.0 ⁷⁾		110.0 ⁸⁾		17.4 ⁽¹¹⁾	21.9*	21.9*	20.4*	20.4*	18.9*	18.9*	
250	-					118.0 ²⁾		121.0 ³⁾		124.0 ⁴⁾		124.0 ⁵⁾		122.0 ⁶⁾		120.0 ⁷⁾		110.0 ⁸⁾		15.4 ⁽¹¹⁾	21.0*	21.0*	19.5*	19.5*	18.0*	18.0*	
255	-					113.0 ²⁾		116.0 ³⁾		120.0 ⁴⁾		121.0 ⁵⁾		119.0 ⁶⁾		116.0 ⁷⁾		109.0 ⁸⁾		13.3 ⁽¹¹⁾	20.3*	20.3*	18.7*	18.7*	17.2*	17.2*	
260	-					109.0 ²⁾		113.0 ³⁾		115.0 ⁴⁾		118.0 ⁵⁾		116.0 ⁶⁾		114.0 ⁷⁾		108.0 ⁸⁾		11.1 ⁽¹¹⁾	17.2	17.2	17.8*	17.8*	16.3*	16.3*	
265	-							109.0 ²⁾		111.0 ³⁾		114.0 ⁴⁾		114.0 ⁵⁾		111.0 ⁶⁾		106.0 ⁷⁾		11.8 ⁽¹¹⁾	17.1*	17.1*	15.5*	15.5*	15.5*	15.5*	
270	-							105.0 ²⁾		107.0 ³⁾		110.0 ⁴⁾		111.0 ⁵⁾		109.0 ⁶⁾		105.0 ⁷⁾		9.8 ⁽¹¹⁾	16.4*	16.4*	14.8*	14.8*	14.8*	14.8*	
275	-							101.0 ²⁾		103.0 ³⁾		106.0 ⁴⁾		109.0 ⁵⁾		106.0 ⁶⁾		103.0 ⁷⁾		6.2 ⁽¹⁰⁾	13.5	13.5	14.1*	14.1*	14.1*	14.1*	
280	-							97.4 ²⁾		99.5 ³⁾		103.0 ⁴⁾		105.0 ⁵⁾		104.0 ⁶⁾		101.0 ⁷⁾		4.3 ⁽¹⁰⁾	12.9	12.9	13.4*	13.4*	13.4*	13.4*	
285	-									96.2 ²⁾		98.8 ³⁾		102.0 ⁴⁾		101.0 ⁵⁾		99.0 ⁶⁾		89.0 ⁹⁾	51.4	83.4 ⁸⁾	48.5	72.2 ⁸⁾	48.5	72.2 ⁸⁾	
290	-									92.9 ²⁾		95.0 ³⁾		98.4 ⁴⁾		99.5 ⁵⁾		96.3 ⁶⁾		87.1 ⁸⁾		82.7 ⁹⁾	45.7	71.5 ⁸⁾	45.7	71.5 ⁸⁾	
295	-									89.6 ²⁾		91.2 ³⁾		95.1 ⁴⁾		97.5 ⁵⁾		94.7 ⁶⁾		86.2 ⁸⁾		82.3 ⁹⁾	44.6	71.2 ⁸⁾	44.6	71.2 ⁸⁾	
300	-											88.3 ²⁾		91.8 ³⁾		94.4 ⁴⁾		92.8 ⁵⁾		85.6 ⁷⁾		82.1 ⁸⁾	43.1	70.9 ⁸⁾	43.1	70.9 ⁸⁾	
305	-											85.3 ²⁾		88.5 ³⁾		91.4 ⁴⁾		90.6 ⁵⁾		83.6 ⁷⁾		81.8 ⁸⁾		70.6 ⁸⁾		70.6 ⁸⁾	
310	-											82.4 ²⁾		84.3 ³⁾		88.4 ⁴⁾		88.9 ⁵⁾		82.9 ⁶⁾		81.6 ⁸⁾		70.3 ⁸⁾		70.3 ⁸⁾	
315	-											79.5 ²⁾		81.6 ³⁾		85.5 ⁴⁾		86.8 ⁵⁾		81.0 ⁶⁾		81.3 ⁸⁾		70.0 ⁸⁾		70.0 ⁸⁾	
320	-													78.9 ²⁾		82.5 ³⁾		84.2 ⁴⁾		80.1 ⁶⁾		79.8 ⁷⁾		69.7 ⁸⁾		69.7 ⁸⁾	
325	-													76.2 ²⁾		79.5 ³⁾		81.5 ⁴⁾		78.0 ⁶⁾		77.7 ⁷⁾		69.4 ⁸⁾		69.4 ⁸⁾	
330	-													73.5 ²⁾		75.4 ³⁾		78.8 ⁴⁾		76.1 ⁶⁾		75.6 ⁷⁾		69.2 ⁸⁾		69.2 ⁸⁾	
335	-													70.8 ²⁾		73.0 ³⁾		76.1 ⁴⁾		74.1 ⁶⁾		73.5 ⁷⁾		68.4 ⁸⁾		68.4 ⁸⁾	
340	-															70.6 ²⁾		73.4 ³⁾		72.2 ⁵⁾		71.6 ⁶⁾		67.3 ⁸⁾		67.3 ⁸⁾	
345	-															68.2 ²⁾		70.7 ³⁾		70.3 ⁵⁾		69.6 ⁶⁾		67.0 ⁸⁾		67.0 ⁸⁾	
350	-															65.8 ²⁾		67.0 ³⁾		68.4 ⁵⁾		67.8 ⁶⁾		65.4 ⁸⁾		65.4 ⁸⁾	
355	-															63.4 ²⁾		64.8 ³⁾		66.5 ⁵⁾		66.1 ⁶⁾		63.9 ⁸⁾		63.9 ⁸⁾	
360	-																	62.6 ²⁾		64.7 ⁴⁾		64.5 ⁵⁾		62.3 ⁸⁾		62.3 ⁸⁾	
365	-																	60.4 ²⁾		62.8 ⁴⁾		62.8 ⁵⁾		60.7 ⁸⁾		60.7 ⁸⁾	
370	-																	58.2 ²⁾		59.8 ³⁾		61.1 ⁶⁾		59.2 ⁸⁾		59.2 ⁸⁾	
375	-																	56.0 ²⁾		57.8 ³⁾		59.5 ⁵⁾		57.6 ⁸⁾		57.6 ⁸⁾	
380	-																			55.8 ²⁾		57.8 ³⁾		56.3 ⁸⁾		56.3 ⁸⁾	
385	-																			53.8 ²⁾		56.1 ³⁾		55.0 ⁸⁾		55.0 ⁸⁾	
390	-																			51.8 ²⁾		53.3 ³⁾		53.7 ⁸⁾		53.7 ⁸⁾	
395	-																			49.7 ²⁾		51.4 ³⁾		52.4 ⁸⁾		52.4 ⁸⁾	
400	-																					49.5 ²⁾		51.1 ⁸⁾		51.1 ⁸⁾	
405	-																						47.6 ²⁾		49.8 ⁸⁾		49.8 ⁸⁾
410	-																						45.8 ²⁾		47.1 ⁸⁾		47.1 ⁸⁾
415	-																						43.9 ²⁾		45.3 ⁸⁾		45.3 ⁸⁾
420	-																								43.5 ²⁾		43.5 ²⁾
425	-																								41.7 ²⁾		41.7 ²⁾
430	-																								39.9 ²⁾		39.9 ²⁾
435	-																								38.1 ²⁾		38.1 ²⁾

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



		S 236																							
		W 59		W 79		W 98		W 118		W 138		W 157		W 177		W 197		W 217		W 236		W 256		W 276	
ft	B	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	B			259.0*	259.0 ⁽¹⁾																				
50	B	233.0	244.0 ⁽²⁾	236.0*	236.0*	228.0*	228.0 ⁽¹⁾																		
55	B	213.0	223.0 ⁽⁴⁾	217.0*	217.0*	209.0*	209.0*	202.0*	202.0*																
60	B	196.0	205.0 ⁽²⁾	200.0*	200.0*	193.0*	193.0*	186.0*	186.0*	179.0*	179.0 ⁽¹⁾														
65	B	182.0	192.0 ⁽²⁾	186.0*	186.0*	179.0*	179.0*	173.0*	173.0*	166.0*	166.0*	160.0*	160.0 ⁽¹⁾												
70	B	169.0	177.0 ⁽²⁾	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⁾										
75	B	158.0	166.0 ⁽²⁾	162.0*	162.0*	156.0*	156.0*	150.0*	150.0*	145.0*	145.0*	139.0*	139.0*	135.0*	135.0*	130.0*	130.0 ⁽¹⁾								
80	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*	126.0*	126.0*	122.0*	122.0*	117.0*	117.0 ⁽¹⁾						
85	B	140.0	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*	110.0*	110.0*	103.0*	103.0 ⁽¹⁾				
90	B	129.0 ⁽¹⁾	135.0*	135.0*	135.0*	130.0*	130.0*	125.0*	125.0*	120.0*	120.0*	115.0*	115.0*	112.0*	112.0*	108.0*	108.0*	103.0*	103.0*	99.9*	99.9*	89.8*	89.8*	78.6*	78.6*
95	B	119.0 ⁽¹⁾	128.0*	128.0*	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*	94.1*	94.1*	88.5*	88.5*	77.6*	77.6*
100	B	108.0 ⁽¹⁾	115.0	117.0 ⁽¹⁾	117.0*	112.0*	112.0*	107.0*	107.0*	103.0*	103.0*	99.7*	99.7*	96.3*	96.3*	92.1*	92.1*	88.7*	88.7*	85.9*	85.9*	81.1*	81.1*	75.7*	75.7*
105	B	97.8 ⁽¹⁾	109.0	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*	83.8*	83.8*	81.1*	81.1*	75.7*	75.7*
110	B	89.8 ⁽¹⁾	99.9*	99.9*	99.9*	106.0*	106.0*	101.0*	101.0*	96.8*	96.8*	92.5*	92.5*	89.5*	89.5*	86.3*	86.3*	82.4*	82.4*	79.3*	79.3*	76.7*	76.7*	73.6*	73.6*
115	B	82.7 ⁽¹⁾	92.0 ⁽¹⁾	92.0*	92.0*	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*	72.6*	72.6*	69.6*	69.6*
120	B	75.5 ⁽¹⁾	84.1 ⁽¹⁾	84.1*	84.1*	90.5*	90.5*	87.8*	87.8*	83.7*	83.7*	80.9*	80.9*	77.8*	77.8*	74.1*	74.1*	71.1*	71.1*	68.7*	68.7*	65.9*	65.9*	62.4*	62.4*
125	B	68.4 ⁽¹⁾	76.3 ⁽¹⁾	76.3*	76.3*	86.7*	86.7*	83.3*	83.3*	79.8*	79.8*	77.0*	77.0*	74.1*	74.1*	71.1*	71.1*	67.6*	67.6*	65.2*	65.2*	62.4*	62.4*	59.1*	59.1*
130	B	62.3 ⁽¹⁾	70.4 ⁽¹⁾	70.4*	70.4*	81.0*	81.0*	77.6*	77.6*	74.1*	74.1*	71.1*	71.1*	68.0*	68.0*	64.8*	64.8*	61.8*	61.8*	59.1*	59.1*	56.0*	56.0*	53.2*	53.2*
135	B	57.5 ⁽¹⁾	64.6 ⁽¹⁾	64.6*	64.6*	71.6 ⁽¹⁾	71.6*	68.6*	68.6*	65.7*	65.7*	62.7*	62.7*	60.0*	60.0*	57.2*	57.2*	54.4*	54.4*	51.8*	51.8*	49.2*	49.2*	46.6*	46.6*
140	B	52.8 ⁽¹⁾	58.8 ⁽¹⁾	58.8*	58.8*	65.3 ⁽¹⁾	65.3*	62.3*	62.3*	59.3*	59.3*	56.3*	56.3*	53.3*	53.3*	50.3*	50.3*	47.3*	47.3*	44.3*	44.3*	41.3*	41.3*	38.3*	38.3*
145	B	48.0 ⁽¹⁾	52.9 ⁽¹⁾	52.9*	52.9*	59.3 ⁽¹⁾	59.3*	56.3*	56.3*	53.3*	53.3*	50.3*	50.3*	47.3*	47.3*	44.3*	44.3*	41.3*	41.3*	38.3*	38.3*	35.3*	35.3*	32.3*	32.3*
150	B	43.2 ⁽¹⁾	48.3 ⁽¹⁾	48.3*	48.3*	54.6 ⁽¹⁾	54.6*	51.6*	51.6*	48.6*	48.6*	45.6*	45.6*	42.6*	42.6*	39.6*	39.6*	36.6*	36.6*	33.6*	33.6*	30.6*	30.6*	27.6*	27.6*
155	B	38.4 ⁽¹⁾	44.5 ⁽¹⁾	44.5*	44.5*	49.8 ⁽¹⁾	49.8*	46.8*	46.8*	43.8*	43.8*	40.8*	40.8*	37.8*	37.8*	34.8*	34.8*	31.8*	31.8*	28.8*	28.8*	25.8*	25.8*	22.8*	22.8*
160	B	33.7 ⁽¹⁾	40.6 ⁽¹⁾	40.6*	40.6*	45.1 ⁽¹⁾	45.1*	42.1*	42.1*	39.1*	39.1*	36.1*	36.1*	33.1*	33.1*	30.1*	30.1*	27.1*	27.1*	24.1*	24.1*	21.1*	21.1*	18.1*	18.1*
165	B	28.9 ⁽¹⁾	36.7 ⁽¹⁾	36.7*	36.7*	40.3 ⁽¹⁾	40.3*	37.3*	37.3*	34.3*	34.3*	31.3*	31.3*	28.3*	28.3*	25.3*	25.3*	22.3*	22.3*	19.3*	19.3*	16.3*	16.3*	13.3*	13.3*
170	B	25.1 ⁽¹⁾	32.8 ⁽¹⁾	32.8*	32.8*	36.8 ⁽¹⁾	36.8*	33.8*	33.8*	30.8*	30.8*	27.8*	27.8*	24.8*	24.8*	21.8*	21.8*	18.8*	18.8*	15.8*	15.8*	12.8*	12.8*	9.8*	9.8*
175	B	22.2 ⁽¹⁾	29.0 ⁽¹⁾	29.0*	29.0*	33.6 ⁽¹⁾	33.6*	30.6*	30.6*	27.6*	27.6*	24.6*	24.6*	21.6*	21.6*	18.6*	18.6*	15.6*	15.6*	12.6*	12.6*	9.6*	9.6*	6.6*	6.6*
180	B	19.3 ⁽¹⁾	25.1 ⁽¹⁾	25.1*	25.1*	30.3 ⁽¹⁾	30.3*	27.3*	27.3*	24.3*	24.3*	21.3*	21.3*	18.3*	18.3*	15.3*	15.3*	12.3*	12.3*	9.3*	9.3*	6.3*	6.3*	3.3*	3.3*
185	B	16.4 ⁽¹⁾	21.2 ⁽¹⁾	21.2*	21.2*	27.1 ⁽¹⁾	27.1*	24.1*	24.1*	21.1*	21.1*	18.1*	18.1*	15.1*	15.1*	12.1*	12.1*	9.1*	9.1*	6.1*	6.1*	3.1*	3.1*	0.1*	0.1*
190	B	13.4 ⁽¹⁾	17.4 ⁽¹⁾	17.4*	17.4*	23.9 ⁽¹⁾	23.9*	20.9*	20.9*	17.9*	17.9*	14.9*	14.9*	11.9*	11.9*	8.9*	8.9*	5.9*	5.9*	2.9*	2.9*	0.9*	0.9*	-0.1*	-0.1*
195	B	10.6 ⁽¹⁾	14.0 ⁽¹⁾	14.0*	14.0*	20.6 ⁽¹⁾	20.6*	17.6*	17.6*	14.6*	14.6*	11.6*	11.6*	8.6*	8.6*	5.6*	5.6*	2.6*	2.6*	0.6*	0.6*	-0.4*	-0.4*	-1.4*	-1.4*
200	B	7.7 ⁽¹⁾	11.0 ⁽¹⁾	11.0*	11.0*	17.4 ⁽¹⁾	17.4*	14.4*	14.4*	11.4*	11.4*	8.4*	8.4*	5.4*	5.4*	2.4*	2.4*	0.4*	0.4*	-0.6*	-0.6*	-1.6*	-1.6*	-2.6*	-2.6*
205	B	154.0 ⁽¹⁾	159.0 ⁽¹⁾	159.0*	159.0*	161.0 ⁽¹⁾	161.0*	158.0 ⁽¹⁾	158.0*	154.0 ⁽¹⁾	154.0*	150.0 ⁽¹⁾	150.0*	146.0 ⁽¹⁾	146.0*	142.0 ⁽¹⁾	142.0*	138.0 ⁽¹⁾	138.0*	134.0 ⁽¹⁾	134.0*	130.0 ⁽¹⁾	130.0*	126.0 ⁽¹⁾	126.0*
210	B	149.0 ⁽¹⁾	153.0 ⁽¹⁾	153.0*	153.0*	156.0 ⁽¹⁾	156.0*	152.0 ⁽¹⁾	152.0*	148.0 ⁽¹⁾	148.0*	144.0 ⁽¹⁾	144.0*	140.0 ⁽¹⁾	140.0*	136.0 ⁽¹⁾	136.0*	132.0 ⁽¹⁾	132.0*	128.0 ⁽¹⁾	128.0*	124.0 ⁽¹⁾	124.0*	120.0 ⁽¹⁾	120.0*
215	B	143.0 ⁽¹⁾	147.0 ⁽¹⁾	147.0*	147.0*	151.0 ⁽¹⁾	151.0*	147.0 ⁽¹⁾	147.0*	143.0 ⁽¹⁾	143.0*	139.0 ⁽¹⁾	139.0*	135.0 ⁽¹⁾	135.0*	131.0 ⁽¹⁾	131.0*	127.0 ⁽¹⁾	127.0*	123.0 ⁽¹⁾	123.0*	119.0 ⁽¹⁾	119.0*	115.0 ⁽¹⁾	115.0*
220	B	138.0 ⁽¹⁾	141.0 ⁽¹⁾	141.0*	141.0*	146.0 ⁽¹⁾	146.0*	142.0 ⁽¹⁾	142.0*	138.0 ⁽¹⁾	138.0*	134.0 ⁽¹⁾	134.0*	130.0 ⁽¹⁾	130.0*	126.0 ⁽¹⁾	126.0*	122.0 ⁽¹⁾	122.0*	118.0 ⁽¹⁾	118.0*	114.0 ⁽¹⁾	114.0*	110.0 ⁽¹⁾	110.0*
225	B	133.0 ⁽¹⁾	136.0 ⁽¹⁾	136.0*	136.0*	141.0 ⁽¹⁾	141.0*	137.0 ⁽¹⁾	137.0*	133.0 ⁽¹⁾	133.0*	129.0 ⁽¹⁾	129.0*	125.0 ⁽¹⁾	125.0*	121.0 ⁽¹⁾	121.0*	117.0 ⁽¹⁾	117.0*	113.0 ⁽¹⁾	113.0*	109.0 ⁽¹⁾	109.0*	105.0 ⁽¹⁾	105.0*
230	B	128.0 ⁽¹⁾	131.0 ⁽¹⁾	131.0*	131.0*	136.0 ⁽¹⁾	136.0*	132.0 ⁽¹⁾	132.0*	128.0 ⁽¹⁾	128.0*	124.0 ⁽¹⁾	124.0*	120.0 ⁽¹⁾	120.0*	116.0 ⁽¹⁾	116.0*	112.0 ⁽¹⁾	112.0*	108.0 ⁽¹⁾	108.0*	104.0 ⁽¹⁾	104.0*	100.0 ⁽¹⁾	100.0*
235	B		127.0 ⁽¹⁾	127.0*	127.0*	130.0 ⁽¹⁾	130.0*	126.0 ⁽¹⁾	126.0*	122.0 ⁽¹⁾	122.0*	118.0 ⁽¹⁾	118.0*	114.0 ⁽¹⁾	114.0*	110.0 ⁽¹⁾	110.0*	106.0 ⁽¹⁾	106.0*	102.0 ⁽¹⁾	102.0*	98.0 ⁽¹⁾	98.0*	94.0 ⁽¹⁾	94.0*
240	B		122.0 ⁽¹⁾	122.0*	122.0*	125.0 ⁽¹⁾	125.0*	121.0 ⁽¹⁾	121.0*	117.0 ⁽¹⁾	117.0*	113.0 ⁽¹⁾	113.0*	109.0 ⁽¹⁾	109.0*	105.0 ⁽¹⁾	105.0*	101.0 ⁽¹⁾	101.0*	97.0 ⁽¹⁾	97.0*	93.0 ⁽¹⁾	93.0*	89.0 ⁽¹⁾	89.0*
245	B		118.0 ⁽¹⁾	118.0*	118.0*	120.0 ⁽¹⁾	120.0*	116.0 ⁽¹⁾	116.0*	112.0 ⁽¹⁾	112.0*	108.0 ⁽¹⁾	108.0*	104.0 ⁽¹⁾	104.0*	100.0 ⁽¹⁾	100.0*	96.0 ⁽¹⁾	96.0*	92.0 ⁽¹⁾	92.0*	88.0 ⁽¹⁾	88.0*	84.0 ⁽¹⁾	84.0*

1) 12°; 2) 17°; 3) 22°; 4) 27°; 5) 32°; 6) 37°; 7) 42



286,600 lb –
374,800 lb



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



60

		S 236																																			
		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												
250	- B				113.0 ¹⁾		116.0 ²⁾		120.0 ³⁾		122.0 ⁴⁾		120.0 ⁵⁾		118.0 ⁶⁾		106.0 ⁷⁾		11.1 ¹⁾	13.7 ¹⁾	20.2*	20.2*	18.7*	18.7*	17.1*	17.1*											
255	- B						112.0 ²⁾		116.0 ³⁾		118.0 ⁴⁾		117.0 ⁵⁾		115.0 ⁶⁾		105.0 ⁷⁾		8.9 ¹⁾	11.5 ¹⁾	19.4*	19.4*	17.9*	17.9*	16.2*	16.2*											
260	- B						108.0 ²⁾		111.0 ³⁾		114.0 ⁴⁾		115.0 ⁵⁾		112.0 ⁶⁾		104.0 ⁷⁾		6.6 ¹⁾	9.4 ¹⁾	16.1	16.1	17.0*	17.0*	15.3*	15.3*											
265	- B						104.0 ²⁾		107.0 ³⁾		110.0 ⁴⁾		112.0 ⁵⁾		109.0 ⁶⁾		104.0 ⁷⁾		7.3 ¹⁾	92.9 ¹⁾	56.3	82.5 ¹⁾	51.5	73.0 ¹⁾	46.9	63.8 ¹⁾											
270	- B						101.0 ²⁾		103.0 ³⁾		106.0 ⁴⁾		108.0 ⁵⁾		107.0 ⁶⁾		102.0 ⁷⁾		91.7 ¹⁾	91.7 ¹⁾	58.7	83.6 ¹⁾	53.9	74.0 ¹⁾	48.4	64.7 ¹⁾											
275	- B								99.6 ²⁾		102.0 ³⁾		105.0 ⁴⁾		105.0 ⁵⁾		102.0 ⁶⁾		91.3 ¹⁾	91.3 ¹⁾	57.5	83.0 ¹⁾	52.7	73.5 ¹⁾	47.9	64.2 ¹⁾											
280	- B								96.2 ²⁾		98.2 ³⁾		101.0 ⁴⁾		102.0 ⁵⁾		99.1 ⁶⁾		90.8 ¹⁾	90.8 ¹⁾	56.3	82.5 ¹⁾	51.5	73.0 ¹⁾	46.9	63.8 ¹⁾											
285	- B								92.8 ²⁾		94.1 ³⁾		97.7 ⁴⁾		101.0 ⁵⁾		98.2 ⁶⁾		89.6 ¹⁾	89.6 ¹⁾	55.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
290	- B								89.3 ²⁾		91.0 ³⁾		94.3 ⁴⁾		96.8 ⁵⁾		95.7 ⁶⁾		89.3 ¹⁾	89.3 ¹⁾	54.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
295	- B										88.0 ²⁾		90.8 ³⁾		93.6 ⁴⁾		93.5 ⁵⁾		87.8 ¹⁾	87.8 ¹⁾	53.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
300	- B										84.9 ²⁾		87.3 ³⁾		90.5 ⁴⁾		91.9 ⁵⁾		87.3 ¹⁾	87.3 ¹⁾	52.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
305	- B										81.9 ²⁾		83.4 ³⁾		87.4 ⁴⁾		90.5 ⁵⁾		85.5 ¹⁾	85.5 ¹⁾	51.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
310	- B								78.8 ²⁾		80.6 ³⁾		84.2 ⁴⁾		86.8 ⁵⁾		85.1 ⁶⁾		85.1 ¹⁾	85.1 ¹⁾	50.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
315	- B										77.9 ²⁾		81.1 ³⁾		84.0 ⁴⁾		83.8 ⁵⁾		83.8 ¹⁾	83.8 ¹⁾	49.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
320	- B										75.2 ²⁾		78.0 ³⁾		81.2 ⁴⁾		82.4 ⁵⁾		82.4 ¹⁾	82.4 ¹⁾	48.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
325	- B										72.4 ²⁾		74.5 ³⁾		78.4 ⁴⁾		79.9 ⁵⁾		79.9 ¹⁾	79.9 ¹⁾	47.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
330	- B										69.7 ²⁾		72.0 ³⁾		75.6 ⁴⁾		77.3 ⁵⁾		77.3 ¹⁾	77.3 ¹⁾	46.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
335	- B												69.6 ²⁾		72.8 ³⁾		74.7 ⁴⁾		74.7 ¹⁾	74.7 ¹⁾	45.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
340	- B												67.1 ²⁾		69.9 ³⁾		72.1 ⁴⁾		72.1 ¹⁾	72.1 ¹⁾	44.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
345	- B												64.6 ²⁾		66.6 ³⁾		69.6 ⁴⁾		69.6 ¹⁾	69.6 ¹⁾	43.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
350	- B												62.1 ²⁾		64.3 ³⁾		67.0 ⁴⁾		67.0 ¹⁾	67.0 ¹⁾	42.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
355	- B													62.1 ²⁾		64.4 ³⁾		64.4 ⁴⁾		64.4 ¹⁾	64.4 ¹⁾	41.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾										
360	- B														59.8 ²⁾		61.8 ³⁾		61.8 ⁴⁾	61.8 ¹⁾	40.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
365	- B														57.5 ²⁾		58.7 ³⁾		58.7 ⁴⁾	58.7 ¹⁾	39.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
370	- B														55.2 ²⁾		56.6 ³⁾		56.6 ⁴⁾	56.6 ¹⁾	38.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
375	- B															54.5 ²⁾		54.5 ³⁾	54.5 ⁴⁾	37.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾												
380	- B																52.4 ²⁾		52.4 ³⁾	52.4 ⁴⁾	36.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
385	- B																50.3 ²⁾		50.3 ³⁾	50.3 ⁴⁾	35.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
390	- B																48.3 ²⁾		48.3 ³⁾	48.3 ⁴⁾	34.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
395	- B																				33.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾											
400	- B																					32.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾										
405	- B																						31.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾									
410	- B																							30.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾								
415	- B																								29.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾							
420	- B																									28.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾						
425	- B																										27.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾					
430	- B																											26.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾				
435	- B																												25.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾			
440	- B																													24.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾		
445	- B																														23.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾	
450	- B																															22.3	81.9 ¹⁾	50.3	72.6 ¹⁾	45.8	63.4 ¹⁾

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 - 463,300 lb
66,100 lb - 264,600 lb



60

ft		S 256																								
		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	B																									
50	B	222.0	235.0 ³⁾	234.0*	234.0*	228.0*	228.0*	218.0*	218.0*																	
55	B	272.0	272.0	234.0*	234.0 ¹⁾	221.0*	221.0*																			
60	B	204.0	216.0 ¹⁾	209.0*	209.0*	201.0*	201.0*	193.0*	193.0*																	
65	B	272.0	272.0	234.0*	234.0 ¹⁾	216.0*	220.0 ¹⁾	193.0*	193.0*																	
70	B	188.0	199.0 ¹⁾	193.0*	193.0*	186.0*	186.0*	179.0*	179.0*	170.0*	170.0*															
75	B	271.0	271.0	234.0	234.0 ¹⁾	210.0*	218.0 ¹⁾	189.0*	192.0 ¹⁾	170.0*	170.0*															
80	B	175.0	183.0 ¹⁾	180.0*	180.0*	172.0*	172.0*	166.0*	166.0*	159.0*	159.0*	150.0*	150.0*													
85	B	264.0	269.0 ¹⁾	234.0	234.0 ¹⁾	215.0	216.0 ¹⁾	185.0*	191.0 ¹⁾	166.0*	169.0 ¹⁾	150.0*	150.0*													
90	B	163.0	172.0 ¹⁾	167.0*	167.0 ¹⁾	161.0*	161.0*	155.0*	155.0*	149.0*	149.0*	143.0*	143.0*	133.0*	133.0*											
95	B	255.0	268.0 ¹⁾	230.0	233.0 ¹⁾	210.0	214.0 ¹⁾	189.0	189.0 ¹⁾	163.0*	168.0 ¹⁾	147.0*	149.0 ¹⁾	133.0*	133.0*											
100	B	152.0	162.0 ¹⁾	157.0*	157.0 ¹⁾	150.0*	150.0 ¹⁾	145.0*	145.0*	139.0*	139.0*	134.0*	134.0*	129.0*	129.0*	117.0*	117.0*									
105	B	246.0	267.0 ¹⁾	224.0	232.0 ¹⁾	204.0	211.0 ¹⁾	185.0	187.0 ¹⁾	167.0*	167.0*	144.0*	148.0 ¹⁾	130.0*	131.0 ¹⁾	117.0*	117.0*									
110	B	143.0	150.0 ¹⁾	147.0*	147.0*	141.0*	141.0*	136.0*	136.0*	130.0*	130.0*	125.0*	125.0 ¹⁾	121.0*	121.0*	114.0*	114.0*	102.0*	102.0*							
115	B	242.0	264.0 ¹⁾	217.0	231.0 ¹⁾	198.0	208.0 ¹⁾	180.0	185.0 ¹⁾	163.0	165.0 ¹⁾	147.0	147.0*	127.0*	130.0 ¹⁾	114.0*	115.0 ¹⁾	99.8*	99.8*	88.6*	88.6*					
120	B	135.0	136.0 ¹⁾	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*					
125	B	233.0	259.0 ¹⁾	210.0	231.0 ¹⁾	192.0	205.0 ¹⁾	175.0	182.0 ¹⁾	158.0	163.0 ¹⁾	144.0	145.0 ¹⁾	129.0	129.0 ¹⁾	112.0*	115.0 ¹⁾	99.8*	99.8*	88.6*	88.6*					
130	B		125.0 ¹⁾	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*			
135	B		254.0 ¹⁾	202.0	227.0 ¹⁾	186.0	203.0 ¹⁾	170.0	180.0 ¹⁾	154.0	161.0*	140.0	143.0*	127.0	128.0 ¹⁾	114.0	114.0 ¹⁾	97.9*	97.9*	87.2*	87.2*	77.6*	77.6*			
140	B		115.0 ¹⁾	125.0*	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*	
145	B		248.0 ¹⁾	198.0	223.0 ¹⁾	180.0	200.0 ¹⁾	165.0	177.0 ¹⁾	150.0	159.0*	137.0	142.0*	124.0	127.0 ¹⁾	112.0	113.0 ¹⁾	99.4	99.4	85.7*	87.2 ¹⁾	76.4*	76.9*	66.2*	66.2*	
150	B		106.0 ¹⁾	110.0	114.0 ¹⁾	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*	
155	B		243.0 ¹⁾	192.0	218.0 ¹⁾	174.0	196.0 ¹⁾	160.0	175.0 ¹⁾	146.0	157.0 ¹⁾	133.0	140.0*	121.0	125.0 ¹⁾	110.0	112.0 ¹⁾	97.7	98.2 ¹⁾	86.8	86.8	75.2*	76.4*	66.2*	66.2*	
160	B		95.7 ¹⁾	105.0	107.0 ¹⁾	103.0*	103.0*	98.1*	98.1*	93.2*	93.2*	89.0*	89.0*	86.0*	86.0*	82.8*	82.8*	83.4*	83.4*	80.2*	80.2*	74.1*	74.1*	65.2*	65.2*	
165	B		238.0 ¹⁾	185.0	214.0 ¹⁾	170.0	193.0 ¹⁾	156.0	172.0 ¹⁾	143.0	154.0*	130.0	139.0 ¹⁾	119.0	124.0 ¹⁾	108.0	111.0 ¹⁾	96.2	97.4 ¹⁾	85.7	85.9 ¹⁾	76.0	76.0	65.2*	65.2*	
170	B		86.1 ¹⁾	97.1 ¹⁾	102.0*	102.0*	97.8*	97.8*	93.2*	93.2*	88.7*	88.7*	84.6*	84.6*	81.7*	81.7*	78.6*	78.6*	79.0*	79.0*	75.9*	75.9*	72.5*	72.5*	64.3*	64.3*
175	B		235.0 ¹⁾	185.0	210.0 ¹⁾	167.0	190.0 ¹⁾	152.0	170.0 ¹⁾	139.0	152.0*	128.0	137.0 ¹⁾	117.0	123.0 ¹⁾	106.0	110.0 ¹⁾	94.9	96.6 ¹⁾	84.6	85.3 ¹⁾	75.3	75.3 ¹⁾	66.0	66.0	
180	B		79.4 ¹⁾	89.6 ¹⁾	97.7*	97.7*	93.2*	93.2*	88.7*	88.7*	84.6*	84.6*	81.7*	81.7*	78.6*	78.6*	74.7*	74.7*	70.9*	70.9*	68.0*	68.0*	65.6*	65.6*	61.9*	61.9*
185	B		233.0 ¹⁾	185.0	207.0 ¹⁾	161.0	187.0 ¹⁾	147.0	167.0 ¹⁾	136.0	150.0*	125.0	135.0 ¹⁾	114.0	121.0 ¹⁾	104.0	109.0 ¹⁾	93.5	95.8 ¹⁾	83.6	84.6 ¹⁾	74.5	74.8 ¹⁾	65.4	65.4 ¹⁾	
190	B		72.8 ¹⁾	82.1 ¹⁾	86.4	88.1 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*		
195	B		231.0 ¹⁾	185.0	205.0 ¹⁾	157.0	184.0 ¹⁾	143.0	165.0 ¹⁾	133.0	148.0*	122.0	134.0 ¹⁾	112.0	120.0 ¹⁾	102.0	107.0 ¹⁾	92.0	95.1 ¹⁾	82.5	84.0 ¹⁾	73.6	74.2 ¹⁾	64.6	64.9 ¹⁾	
200	B		66.2 ¹⁾	74.6 ¹⁾	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*		
205	B		228.0 ¹⁾	185.0	203.0 ¹⁾	152.0	181.0 ¹⁾	141.0	162.0 ¹⁾	129.0	146.0*	119.0	132.0 ¹⁾	110.0	119.0 ¹⁾	100.0	106.0 ¹⁾	90.5	94.3 ¹⁾	81.4	83.3 ¹⁾	72.7	73.6 ¹⁾	63.9	64.4 ¹⁾	
210	B		59.5 ¹⁾	67.8 ¹⁾	75.4 ¹⁾	81.5*	81.5*	77.1*	77.1*	73.1*	73.1*	70.5*	70.5*	67.6*	67.6*	64.0*	64.0*	61.3*	61.3*	59.0*	59.0*	55.8*	55.8*			
215	B		226.0 ¹⁾	185.0	201.0 ¹⁾	138.0	180.0 ¹⁾	126.0	144.0 ¹⁾	117.0	130.0*	108.0	117.0 ¹⁾	98.6	105.0 ¹⁾	89.0	93.4 ¹⁾	80.3	82.7 ¹⁾	71.8	73.1 ¹⁾	63.1	63.8 ¹⁾			
220	B		54.0 ¹⁾	62.4 ¹⁾	69.5 ¹⁾	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*			
225	B		224.0 ¹⁾	185.0	199.0 ¹⁾	135.0	158.0 ¹⁾	122.0	142.0 ¹⁾	114.0	129.0 ¹⁾	105.0	116.0 ¹⁾	96.9	104.0 ¹⁾	87.5	92.7 ¹⁾	79.0	82.0 ¹⁾	70.0	72.5 ¹⁾	62.3	63.3 ¹⁾			
230	B		49.6 ¹⁾	57.1 ¹⁾	63.5 ¹⁾	69.0	69.2 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*			
235	B		221.0 ¹⁾	185.0	177.0 ¹⁾	131.0	157.0 ¹⁾	121.0	140.0 ¹⁾	111.0	127.0 ¹⁾	103.0	115.0 ¹⁾	95.0	103.0 ¹⁾	85.9	91.7 ¹⁾	77.7	81.4 ¹⁾	69.7	72.0 ¹⁾	61.5	62.8 ¹⁾			
240	B		45.3 ¹⁾	51.8 ¹⁾	57.5 ¹⁾	66.3	66.3	67.8*	67.8*	63.9*	63.9*	61.4*	61.4*	58.6*	58.6*	55.2*	55.2*	52.6*	52.6*	50.5*	50.5*	47.6*	47.6*			
245	B		219.0 ¹⁾	195.0 ¹⁾	175.0 ¹⁾	128.0	156.0 ¹⁾	120.0	139.0 ¹⁾	109.0	125.0 ¹⁾	101.0	113.0 ¹⁾	93.1	101.0 ¹⁾	84.3	90.8 ¹⁾	76.5	80.7 ¹⁾	68.6	71.4 ¹⁾	60.6	62.3 ¹⁾			
250	B		41.0 ¹⁾	46.5 ¹⁾	52.4 ¹⁾	59.2 ¹⁾	65.2*	65.2*	61.3*	61.3*	58.7*	58.7*	56.0*	56.0*	53.6*	53.6*	50.2*	50.2*	47.7*	47.7*	45.7*	45.7*	43.0*	43.0*		
255	B		217.0 ¹⁾	194.0 ¹⁾	173.0 ¹⁾	153.0 ¹⁾	114.0	137.0 ¹⁾	106.0	123.0 ¹⁾	96.1	111.0 ¹⁾	89.0	99.8 ¹⁾	80.9	89.1 ¹⁾	73.6	79.0 ¹⁾	66.5	70.2 ¹⁾	58.9	61.3 ¹⁾	55.8*	55.8*		
260	B		36.7 ¹⁾	42.2 ¹⁾	48.0 ¹⁾	54.2 ¹⁾	59.3 ¹⁾																			



286,600 lb –
374,800 lb



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



60

ft		S 256																							
		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
260	B				104.0 ¹⁾		106.0 ²⁾		108.0 ³⁾		105.0 ⁴⁾		97.1 ⁵⁾		89.9 ⁶⁾		82.2 ⁷⁾		73.1 ⁸⁾	14.7	14.7	16.1 ⁹⁾	16.1 ¹⁰⁾	13.8 ¹¹⁾	13.8 ¹²⁾
265	B				100.0 ¹⁾		103.0 ²⁾		104.0 ³⁾		102.0 ⁴⁾		96.7 ⁵⁾		88.2 ⁶⁾		81.3 ⁷⁾		72.5 ⁸⁾	14.2	14.2	15.4 ⁹⁾	15.4 ¹⁰⁾	13.0 ¹¹⁾	13.0 ¹²⁾
270	B						99.1 ¹⁾		101.0 ²⁾		99.4 ³⁾		96.5 ⁴⁾		86.9 ⁵⁾		80.0 ⁶⁾		71.9 ⁷⁾	14.6	14.6	14.7 ⁹⁾	14.7 ¹⁰⁾	12.3 ¹¹⁾	12.3 ¹²⁾
275	B						95.5 ¹⁾		97.2 ²⁾		96.8 ³⁾		94.7 ⁴⁾		85.3 ⁵⁾		79.2 ⁶⁾		71.3 ⁷⁾		64.1 ⁸⁾	14.1 ⁹⁾	14.1 ¹⁰⁾	11.5 ¹¹⁾	11.5 ¹²⁾
280	B						91.9 ¹⁾		94.0 ²⁾		94.2 ³⁾		92.4 ⁴⁾		83.7 ⁵⁾		77.8 ⁶⁾		70.4 ⁷⁾		63.1 ⁸⁾	9.7	9.7	10.9 ⁹⁾	10.9 ¹⁰⁾
285	B						88.3 ¹⁾		90.9 ²⁾		91.6 ³⁾		90.2 ⁴⁾		82.9 ⁵⁾		76.7 ⁶⁾		69.7 ⁷⁾		62.6 ⁸⁾	9.3	9.3	10.2 ⁹⁾	10.2 ¹⁰⁾
290	B								87.7 ¹⁾		89.0 ²⁾		87.9 ³⁾		82.7 ⁴⁾		75.3 ⁵⁾		69.2 ⁶⁾		62.1 ⁷⁾		55.1 ⁸⁾	9.7 ⁹⁾	9.7 ¹⁰⁾
295	B								84.6 ¹⁾		85.7 ²⁾		85.7 ³⁾		81.1 ⁴⁾		74.2 ⁵⁾		67.9 ⁶⁾		61.3 ⁷⁾		54.7 ⁸⁾	9.3 ⁹⁾	9.3 ¹⁰⁾
300	B								81.4 ¹⁾		82.8 ²⁾		83.5 ³⁾		79.4 ⁴⁾		72.8 ⁵⁾		66.9 ⁶⁾		60.7 ⁷⁾		54.3 ⁸⁾	31.9	47.4 ⁹⁾
305	B								78.3 ¹⁾		80.0 ²⁾		81.3 ³⁾		77.7 ⁴⁾		72.6 ⁵⁾		65.7 ⁶⁾		60.3 ⁷⁾		53.8 ⁸⁾	31.4	47.1 ⁹⁾
310	B										77.2 ¹⁾		79.0 ²⁾		76.1 ³⁾		72.5 ⁴⁾		64.9 ⁵⁾		59.2 ⁶⁾		53.1 ⁷⁾		46.8 ⁸⁾
315	B										74.4 ¹⁾		75.8 ²⁾		74.4 ³⁾		70.8 ⁴⁾		63.7 ⁵⁾		58.8 ⁶⁾		52.8 ⁷⁾		46.4 ⁸⁾
320	B										71.6 ¹⁾		73.3 ²⁾		72.7 ³⁾		69.3 ⁴⁾		63.0 ⁵⁾		58.0 ⁶⁾		52.5 ⁷⁾		46.1 ⁸⁾
325	B										68.7 ¹⁾		70.8 ²⁾		71.0 ³⁾		67.8 ⁴⁾		62.9 ⁵⁾		56.9 ⁶⁾		51.6 ⁷⁾		45.5 ⁸⁾
330	B											68.3 ¹⁾		69.3 ²⁾		66.4 ³⁾		62.8 ⁴⁾		56.1 ⁵⁾		51.1 ⁶⁾		45.3 ⁷⁾	
335	B											65.8 ¹⁾		65.9 ²⁾		64.9 ³⁾		61.1 ⁴⁾		55.2 ⁵⁾		50.7 ⁶⁾		45.1 ⁷⁾	
340	B											63.2 ¹⁾		63.9 ²⁾		63.4 ³⁾		59.8 ⁴⁾		55.0 ⁵⁾		49.7 ⁶⁾		44.4 ⁷⁾	
345	B											60.7 ¹⁾		61.8 ²⁾		61.9 ³⁾		58.5 ⁴⁾		54.9 ⁵⁾		49.3 ⁶⁾		44.0 ⁷⁾	
350	B												59.7 ¹⁾		60.4 ²⁾		57.2 ³⁾		54.8 ⁴⁾		50.3 ⁵⁾		45.8 ⁶⁾		43.8 ⁷⁾
355	B												57.6 ¹⁾		57.4 ²⁾		55.9 ³⁾		53.1 ⁴⁾		49.8 ⁵⁾		45.3 ⁶⁾		43.0 ⁷⁾
360	B												55.5 ¹⁾		55.7 ²⁾		54.5 ³⁾		51.9 ⁴⁾		48.9 ⁵⁾		44.7 ⁶⁾		42.5 ⁷⁾
365	B												53.4 ¹⁾		54.0 ²⁾		53.2 ³⁾		50.7 ⁴⁾		47.6 ⁵⁾		43.6 ⁶⁾		42.0 ⁷⁾
370	B														52.3 ¹⁾		51.9 ²⁾		49.5 ³⁾		46.6 ⁴⁾		43.7 ⁵⁾		41.3 ⁶⁾
375	B														50.6 ¹⁾		49.3 ²⁾		47.9 ³⁾		45.4 ⁴⁾		42.6 ⁵⁾		41.0 ⁶⁾
380	B														48.9 ¹⁾		47.9 ²⁾		46.5 ³⁾		44.0 ⁴⁾		41.6 ⁵⁾		40.5 ⁶⁾
385	B														47.2 ¹⁾		46.5 ²⁾		44.8 ³⁾		42.5 ⁴⁾		40.5 ⁵⁾		39.2 ⁶⁾
390	B															45.1 ¹⁾		44.8 ²⁾		42.5 ³⁾		40.5 ⁴⁾		39.2 ⁵⁾	
395	B															43.7 ¹⁾		43.7 ²⁾		41.3 ³⁾		39.4 ⁴⁾		37.2 ⁵⁾	
400	B															42.3 ¹⁾		42.3 ²⁾		40.0 ³⁾		38.8 ⁴⁾		36.2 ⁵⁾	
405	B															40.9 ¹⁾		40.9 ²⁾		38.8 ³⁾		36.3 ⁴⁾		34.2 ⁵⁾	
410	B																	38.8 ¹⁾		36.3 ²⁾		34.5 ³⁾		32.2 ⁴⁾	
415	B																	37.6 ¹⁾		35.1 ²⁾		33.1 ³⁾		31.8 ⁴⁾	
420	B																	36.3 ¹⁾		33.8 ²⁾		31.8 ³⁾		30.6 ⁴⁾	
425	B																	35.1 ¹⁾		32.6 ²⁾		30.6 ³⁾		29.4 ⁴⁾	
430	B																			31.8 ¹⁾		29.4 ²⁾		27.9 ³⁾	
435	B																					29.4 ¹⁾		27.9 ²⁾	
440	B																						27.9 ¹⁾		26.5 ²⁾
445	B																							26.5 ¹⁾	22.6 ²⁾
450	B																								20.6 ¹⁾
455	B																								18.6 ¹⁾
460	B																								16.7 ¹⁾
465	B																								

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



60

		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
45	B			224.0 ^a	224.0 ^a																				
50	B			218.0 ^a	218.0 ^a	196.0 ^a	196.0 ^a																		
55	B			218.0 ^a	221.0 ^a	196.0 ^a	196.0 ^a																		
60	B			234.0	234.0	209.0 ^a	201.0 ^a	201.0 ^a	191.0 ^a	191.0 ^a															
65	B			181.0	193.0 ^a	186.0 ^a	186.0 ^a	178.0 ^a	178.0 ^a	167.0 ^a	167.0 ^a	151.0 ^a	151.0 ^a												
70	B			234.0	234.0	210.0	210.0 ^a	186.0 ^a	185.0 ^a	192.0 ^a	192.0 ^a	151.0 ^a	151.0 ^a												
75	B			168.0	178.0 ^a	173.0 ^a	173.0 ^a	166.0 ^a	166.0 ^a	160.0 ^a	160.0 ^a	148.0 ^a	148.0 ^a	133.0 ^a	133.0 ^a										
80	B			232.0	233.0 ^a	210.0	213.0 ^a	190.0 ^a	190.0 ^a	163.0 ^a	168.0 ^a	148.0 ^a	149.0 ^a	133.0 ^a	133.0 ^a										
85	B			157.0	168.0 ^a	161.0 ^a	161.0 ^a	155.0 ^a	155.0 ^a	149.0 ^a	149.0 ^a	143.0 ^a	143.0 ^a	130.0 ^a	130.0 ^a	117.0 ^a	117.0 ^a								
90	B			224.0	232.0 ^a	204.0	210.0 ^a	186.0 ^a	187.0 ^a	167.0	167.0 ^a	144.0 ^a	148.0 ^a	130.0 ^a	131.0 ^a	117.0 ^a	117.0 ^a								
95	B			147.0	155.0 ^a	151.0 ^a	151.0 ^a	145.0 ^a	145.0 ^a	139.0 ^a	139.0 ^a	134.0 ^a	134.0 ^a	127.0 ^a	127.0 ^a	115.0 ^a	115.0 ^a	103.0 ^a	103.0 ^a						
100	B			216.0	231.0 ^a	198.0	207.0 ^a	180.0	185.0 ^a	163.0	165.0 ^a	147.0	147.0	130.0 ^a	130.0 ^a	115.0 ^a	115.0 ^a	103.0 ^a	103.0 ^a						
105	B			138.0	146.0 ^a	142.0 ^a	142.0 ^a	136.0 ^a	136.0 ^a	131.0 ^a	131.0 ^a	125.0 ^a	125.0 ^a	120.0 ^a	120.0 ^a	112.0 ^a	112.0 ^a	101.0 ^a	101.0 ^a	89.3 ^a	89.3 ^a				
110	B			210.0	230.0 ^a	191.0	204.0 ^a	175.0	182.0 ^a	159.0	162.0 ^a	143.0	144.0 ^a	129.0	129.0 ^a	112.0 ^a	114.0 ^a	101.0 ^a	101.0 ^a	89.3 ^a	89.3 ^a				
115	B			130.0	133.0 ^a	134.0 ^a	134.0 ^a	128.0 ^a	128.0 ^a	123.0 ^a	123.0 ^a	118.0 ^a	118.0 ^a	113.0 ^a	113.0 ^a	109.0 ^a	109.0 ^a	98.6 ^a	98.6 ^a	87.7 ^a	87.7 ^a	77.9 ^a	77.9 ^a		
120	B			205.0	226.0 ^a	184.0	201.0 ^a	161.0 ^a	169.0 ^a	179.0 ^a	179.0 ^a	140.0	142.0 ^a	126.0 ^a	127.0 ^a	114.0	114.0	98.6 ^a	98.6 ^a	87.7 ^a	87.7 ^a	77.9 ^a	77.9 ^a		
125	B			123.0	123.0 ^a	127.0 ^a	127.0 ^a	121.0 ^a	121.0 ^a	116.0 ^a	116.0 ^a	111.0 ^a	111.0 ^a	107.0 ^a	107.0 ^a	103.0 ^a	103.0 ^a	96.5 ^a	96.5 ^a	86.0 ^a	86.0 ^a	76.6 ^a	76.6 ^a	68.1 ^a	68.1 ^a
130	B			197.0	221.0 ^a	177.0	197.0 ^a	163.0	176.0 ^a	150.0	157.0 ^a	136.0	140.0 ^a	123.0	125.0 ^a	111.0	112.0 ^a	99.9	99.9	86.0 ^a	86.0 ^a	76.6 ^a	76.6 ^a	68.1 ^a	68.1 ^a
135	B				112.0 ^a	120.0 ^a	120.0 ^a	115.0 ^a	115.0 ^a	110.0 ^a	110.0 ^a	105.0 ^a	105.0 ^a	101.0 ^a	101.0 ^a	97.4 ^a	97.4 ^a	93.3 ^a	93.3 ^a	84.4 ^a	84.4 ^a	75.2 ^a	75.2 ^a	67.0 ^a	67.0 ^a
140	B				216.0 ^a	172.0	193.0 ^a	157.0	173.0 ^a	145.0	155.0 ^a	132.0	138.0 ^a	120.0	124.0 ^a	109.0	111.0 ^a	98.1	98.5 ^a	87.0	87.0	75.2 ^a	76.3 ^a	67.0 ^a	67.3 ^a
145	B				103.0 ^a	115.0 ^a	115.0 ^a	109.0 ^a	109.0 ^a	104.0 ^a	104.0 ^a	99.5 ^a	95.1 ^a	92.1 ^a	92.1 ^a	88.6 ^a	88.6 ^a	82.5 ^a	82.5 ^a	73.8 ^a	73.8 ^a	65.9 ^a	65.9 ^a	57.8 ^a	57.9 ^a
150	B				211.0 ^a	168.0	190.0 ^a	152.0	171.0 ^a	140.0	152.0 ^a	128.0	136.0 ^a	117.0	122.0 ^a	107.0	108.0 ^a	96.3	97.5 ^a	85.5	85.7 ^a	73.8 ^a	75.6 ^a	65.9 ^a	66.8 ^a
155	B				93.8 ^a	101.0	101.0 ^a	103.0 ^a	99.1 ^a	99.1 ^a	94.4 ^a	90.1 ^a	90.1 ^a	87.2 ^a	87.2 ^a	83.9 ^a	83.9 ^a	79.4 ^a	79.4 ^a	72.3 ^a	72.3 ^a	64.6 ^a	64.6 ^a	56.8 ^a	57.0 ^a
160	B				206.0 ^a	163.0	186.0 ^a	147.0	168.0 ^a	136.0	150.0 ^a	125.0	134.0 ^a	115.0	121.0 ^a	105.0	108.0 ^a	94.6	96.5 ^a	84.1	84.9 ^a	74.9	74.9 ^a	64.6 ^a	66.2 ^a
165	B				84.6 ^a	96.0	96.0	98.6 ^a	94.2 ^a	94.2 ^a	89.7 ^a	85.5 ^a	82.6 ^a	79.5 ^a	79.5 ^a	75.6 ^a	75.6 ^a	70.7 ^a	70.7 ^a	63.3 ^a	63.3 ^a	55.8 ^a	55.8 ^a	48.2 ^a	48.2 ^a
170	B				202.0 ^a	158.0	182.0 ^a	146.0	165.0 ^a	132.0	142.0 ^a	122.0	132.0 ^a	112.0	119.0 ^a	102.0	107.0 ^a	92.9	95.5 ^a	82.9	84.1 ^a	73.9	74.3 ^a	65.7	65.7 ^a
175	B				76.5 ^a		86.6 ^a	94.2 ^a	89.8 ^a	89.8 ^a	85.3 ^a	81.2 ^a	81.2 ^a	78.4 ^a	78.4 ^a	75.4 ^a	75.4 ^a	71.6 ^a	71.6 ^a	68.6 ^a	68.6 ^a	62.0 ^a	62.0 ^a	55.5	55.5
180	B				199.0 ^a		178.0 ^a	141.0	162.0 ^a	128.0	145.0 ^a	118.0	130.0 ^a	109.0	117.0 ^a	100.0	105.0 ^a	91.3	94.4 ^a	81.6	83.3 ^a	72.9	73.6 ^a	64.8	65.0 ^a
185	B				70.4 ^a		79.5 ^a	90.5 ^a	85.7 ^a	85.7 ^a	81.3 ^a	77.3 ^a	77.3 ^a	74.6 ^a	74.6 ^a	71.6 ^a	71.6 ^a	67.8 ^a	67.8 ^a	65.0 ^a	65.0 ^a	60.6 ^a	60.6 ^a	53.7 ^a	53.7 ^a
190	B				197.0 ^a		175.0 ^a	137.0	159.0 ^a	125.0	143.0 ^a	115.0	128.0 ^a	106.0	116.0 ^a	100.0	104.0 ^a	89.6	93.4 ^a	80.3	82.5 ^a	71.8	72.9 ^a	64.0	64.4 ^a
195	B				64.2 ^a		72.4 ^a	79.0	82.0 ^a	82.0 ^a	77.6 ^a	73.6 ^a	73.6 ^a	71.0 ^a	71.0 ^a	68.1 ^a	68.1 ^a	64.4 ^a	64.4 ^a	61.6 ^a	61.6 ^a	58.1 ^a	58.1 ^a	52.4 ^a	52.4 ^a
200	B				194.0 ^a		173.0 ^a	133.0	156.0 ^a	122.0	140.0 ^a	112.0	126.0 ^a	104.0	114.0 ^a	100.0	104.0 ^a	87.6	92.4 ^a	78.9	81.8 ^a	70.7	72.3 ^a	63.1	63.8 ^a
205	B				58.1 ^a		65.3 ^a	76.0	76.0	78.5 ^a	74.1 ^a	74.1 ^a	70.2 ^a	70.2 ^a	67.6 ^a	67.6 ^a	64.8 ^a	61.2 ^a	61.2 ^a	58.4 ^a	58.4 ^a	55.2 ^a	55.2 ^a	50.7 ^a	50.7 ^a
210	B				192.0 ^a		171.0 ^a	130.0	154.0 ^a	121.0	138.0 ^a	109.0	124.0 ^a	101.0	112.0 ^a	93.4	102.0 ^a	85.6	91.4 ^a	77.4	81.0 ^a	69.4	71.6 ^a	62.1	63.2 ^a
215	B				52.0 ^a		59.5 ^a		67.1 ^a	75.4 ^a	75.4 ^a	70.9 ^a	70.9 ^a	67.0 ^a	67.0 ^a	64.5 ^a	64.5 ^a	61.7 ^a	61.7 ^a	58.2 ^a	58.2 ^a	55.5 ^a	55.5 ^a	52.4 ^a	52.4 ^a
220	B				190.0 ^a		169.0 ^a		152.0 ^a	118.0	136.0 ^a	107.0	123.0 ^a	98.5	111.0 ^a	91.1	100.0 ^a	83.6	90.4 ^a	75.7	80.2 ^a	68.1	70.9 ^a	61.1	62.4 ^a
225	B				46.8 ^a		54.5 ^a		61.3 ^a	72.9 ^a	72.9 ^a	67.9 ^a	67.9 ^a	64.1 ^a	64.1 ^a	61.5 ^a	61.5 ^a	58.8 ^a	58.8 ^a	55.3 ^a	55.3 ^a	52.7 ^a	52.7 ^a	49.8 ^a	49.8 ^a
230	B				183.0 ^a		168.0 ^a		151.0 ^a	114.0	134.0 ^a	104.0	121.0 ^a	96.0	109.0 ^a	88.9	98.8 ^a	81.5	89.2 ^a	73.3	79.4 ^a	66.7	70.3 ^a	59.9	61.9 ^a
235	B				42.8 ^a		49.5 ^a		55.6 ^a	63.1	63.1	65.2 ^a	65.2 ^a	61.3 ^a	61.3 ^a	58.8 ^a	58.8 ^a	56.1 ^a	56.1 ^a	52.7 ^a	52.7 ^a	50.1 ^a	50.1 ^a	47.2 ^a	47.2 ^a
240	B				185.0 ^a		166.0 ^a		149.0 ^a	112.0	133.0	104.0	119.0 ^a	93.7	108.0 ^a	86.6	97.4 ^a	79.5	88.0 ^a	71.9	74.8 ^a	65.2	69.6 ^a	58.7	61.3 ^a
245	B				38.9 ^a		44.5 ^a		49.9 ^a	57.0 ^a	62.6 ^a	62.6 ^a	58.7 ^a	58.7 ^a	56.2 ^a	56.2 ^a	53.6 ^a	53.6 ^a	50.2 ^a	50.2 ^a	47.6 ^a	47.6 ^a	44.9 ^a	44.9 ^a	
250	B				184.0 ^a		164.0 ^a		148.0 ^a	132.0 ^a	101.0	117.0 ^a	92.3	106.0 ^a	84.4	96.1 ^a	77.6	86.8 ^a	70.3	77.3 ^a	63.6	68.8 ^a	57.5	60.7 ^a	
255	B				34.9 ^a		39.5 ^a		45.5 ^a	52.3 ^a	60.3 ^a	60.3 ^a	56.3 ^a	56.3 ^a	53.8 ^a	53.8 ^a	51.2 ^a	51.2 ^a	47.8 ^a	47.8 ^a	45.3 ^a	45.3 ^a	42.6 ^a	42.6 ^a	
260	B				181.0 ^a		162.0 ^a		146.0 ^a	130.0 ^a	98.6	116.0 ^a	91.3	105.0 ^a	82.3	94.8 ^a									

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



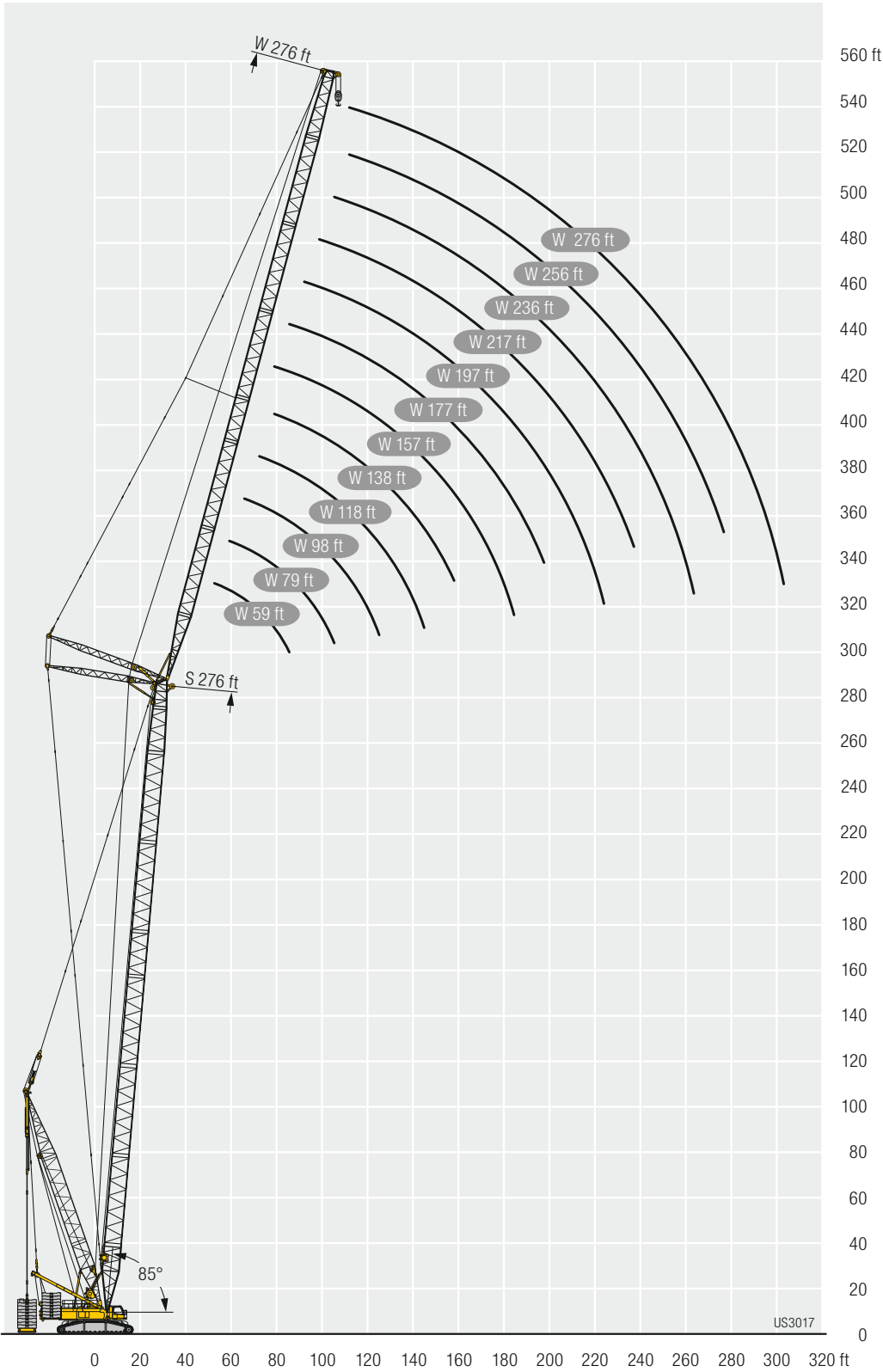
60

		S 276																							
ft	B	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 ¹⁾		96.6 ²⁾		91.6 ³⁾		86.0 ⁴⁾		78.9 ⁵⁾		72.7 ⁶⁾		66.2 ⁷⁾		59.1 ⁸⁾		12.2	12.2	13.9 ⁹⁾	13.9 ⁹⁾	11.6 ¹⁰⁾	11.6 ¹⁰⁾
270	B			95.5 ¹⁾		93.1 ²⁾		89.3 ³⁾		84.0 ⁴⁾		78.3 ⁵⁾		71.5 ⁶⁾		65.5 ⁷⁾		58.4 ⁸⁾		37.6	52.5 ⁹⁾	33.3	46.4 ¹⁰⁾	29.5	40.1 ¹¹⁾
275	B			92.0 ¹⁾		90.5 ²⁾		87.1 ³⁾		81.9 ⁴⁾		77.9 ⁵⁾		70.1 ⁶⁾		64.3 ⁷⁾		57.5 ⁸⁾		51.9 ⁹⁾	32.4	45.9 ¹⁰⁾	28.6	39.7 ¹¹⁾	10.9 ¹²⁾
280	B			88.4 ¹⁾		87.9 ²⁾		84.8 ³⁾		79.9 ⁴⁾		77.3 ⁵⁾		68.8 ⁶⁾		63.5 ⁷⁾		56.8 ⁸⁾		50.7 ⁹⁾	31.6	45.4 ¹⁰⁾	27.8	39.3 ¹¹⁾	10.2 ¹²⁾
285	B					85.3 ²⁾		81.5 ³⁾		77.8 ⁴⁾		75.3 ⁵⁾		67.5 ⁶⁾		62.5 ⁷⁾		56.2 ⁸⁾		50.2 ⁹⁾	30.9	44.9 ¹⁰⁾	27.0	38.9 ¹¹⁾	9.5 ¹²⁾
290	B					82.7 ²⁾		79.4 ³⁾		75.8 ⁴⁾		73.4 ⁵⁾		66.5 ⁶⁾		61.3 ⁷⁾		55.1 ⁸⁾		49.7 ⁹⁾	30.3	44.4 ¹⁰⁾	26.2	38.5 ¹¹⁾	8.9 ¹²⁾
295	B					80.1 ²⁾		77.3 ³⁾		73.7 ⁴⁾		71.4 ⁵⁾		66.2 ⁶⁾		60.3 ⁷⁾		54.6 ⁸⁾		49.1 ⁹⁾		44.0 ¹⁰⁾	25.4	38.1 ¹¹⁾	8.3 ¹²⁾
300	B					77.5 ²⁾		75.1 ³⁾		71.7 ⁴⁾		69.4 ⁵⁾		65.9 ⁶⁾		59.3 ⁷⁾		53.8 ⁸⁾		48.6 ⁹⁾		43.1 ¹⁰⁾	24.3	37.4 ¹¹⁾	7.9 ¹²⁾
305	B							73.0 ³⁾		69.1 ⁴⁾		67.5 ⁵⁾		63.8 ⁶⁾		58.1 ⁷⁾		52.7 ⁸⁾		47.5 ⁹⁾		42.7 ¹⁰⁾	23.9	37.0 ¹¹⁾	7.7 ¹²⁾
310	B							70.9 ³⁾		67.2 ⁴⁾		65.5 ⁵⁾		62.2 ⁶⁾		57.6 ⁷⁾		52.0 ⁸⁾		47.0 ⁹⁾		42.2 ¹⁰⁾		36.7 ¹¹⁾	7.5 ¹²⁾
315	B							68.8 ³⁾		65.3 ⁴⁾		63.5 ⁵⁾		60.7 ⁶⁾		57.3 ⁷⁾		50.8 ⁸⁾		46.3 ⁹⁾		41.8 ¹⁰⁾		36.3 ¹¹⁾	7.3 ¹²⁾
320	B							66.6 ³⁾		63.5 ⁴⁾		61.6 ⁵⁾		59.1 ⁶⁾		57.1 ⁷⁾		50.1 ⁸⁾		45.4 ⁹⁾		40.8 ¹⁰⁾		36.0 ¹¹⁾	7.1 ¹²⁾
325	B									61.6 ⁴⁾		58.7 ⁵⁾		57.6 ⁶⁾		55.1 ⁷⁾		49.4 ⁸⁾		45.0 ⁹⁾		40.4 ¹⁰⁾		35.6 ¹¹⁾	6.9 ¹²⁾
330	B									59.7 ⁴⁾		57.0 ⁵⁾		56.0 ⁶⁾		53.7 ⁷⁾		49.1 ⁸⁾		44.0 ⁹⁾		39.9 ¹⁰⁾		35.2 ¹¹⁾	6.7 ¹²⁾
335	B									57.8 ⁴⁾		55.4 ⁵⁾		54.4 ⁶⁾		52.3 ⁷⁾		48.9 ⁸⁾		43.5 ⁹⁾		39.0 ¹⁰⁾		34.6 ¹¹⁾	6.5 ¹²⁾
340	B									56.0 ⁴⁾		53.8 ⁵⁾		52.9 ⁶⁾		50.9 ⁷⁾		48.7 ⁸⁾		42.5 ⁹⁾		38.7 ¹⁰⁾		34.3 ¹¹⁾	6.3 ¹²⁾
345	B											52.2 ⁵⁾		50.2 ⁶⁾		49.5 ⁷⁾		46.7 ⁸⁾		42.2 ⁹⁾		38.0 ¹⁰⁾		33.9 ¹¹⁾	6.1 ¹²⁾
350	B											50.5 ⁵⁾		48.7 ⁶⁾		48.2 ⁷⁾		45.4 ⁸⁾		42.0 ⁹⁾		37.3 ¹⁰⁾		33.1 ¹¹⁾	5.9 ¹²⁾
355	B											48.9 ⁵⁾		47.2 ⁶⁾		46.8 ⁷⁾		44.2 ⁸⁾		41.9 ⁹⁾		36.7 ¹⁰⁾		32.8 ¹¹⁾	5.7 ¹²⁾
360	B											47.3 ⁵⁾		45.7 ⁶⁾		45.4 ⁷⁾		42.9 ⁸⁾		41.7 ⁹⁾		36.2 ¹⁰⁾		32.3 ¹¹⁾	5.5 ¹²⁾
365	B													44.2 ⁶⁾		42.9 ⁷⁾		41.7 ⁸⁾		39.7 ⁹⁾		36.0 ¹⁰⁾		31.7 ¹¹⁾	5.3 ¹²⁾
370	B													42.7 ⁶⁾		41.5 ⁷⁾		40.4 ⁸⁾		38.6 ⁹⁾		35.8 ¹⁰⁾		31.5 ¹¹⁾	5.1 ¹²⁾
375	B													41.2 ⁶⁾		40.2 ⁷⁾		39.2 ⁸⁾		37.5 ⁹⁾		35.7 ¹⁰⁾		30.6 ¹¹⁾	4.9 ¹²⁾
380	B													39.7 ⁶⁾		38.8 ⁷⁾		37.9 ⁸⁾		36.3 ⁹⁾		35.7 ¹⁰⁾		30.2 ¹¹⁾	4.7 ¹²⁾
385	B															37.4 ⁷⁾		35.6 ⁸⁾		35.2 ⁹⁾		33.6 ¹⁰⁾		30.1 ¹¹⁾	4.5 ¹²⁾
390	B															36.0 ⁷⁾		34.3 ⁸⁾		34.1 ⁹⁾		32.5 ¹⁰⁾		30.0 ¹¹⁾	4.3 ¹²⁾
395	B															34.7 ⁷⁾		33.1 ⁸⁾		33.0 ⁹⁾		31.5 ¹⁰⁾		29.9 ¹¹⁾	4.1 ¹²⁾
400	B															33.3 ⁷⁾		31.9 ⁸⁾		31.9 ⁹⁾		30.5 ¹⁰⁾		29.9 ¹¹⁾	3.9 ¹²⁾
405	B																	30.7 ⁸⁾		29.6 ⁹⁾		29.4 ¹⁰⁾		27.9 ¹¹⁾	3.7 ¹²⁾
410	B																	29.5 ⁸⁾		28.5 ⁹⁾		28.4 ¹⁰⁾		27.0 ¹¹⁾	3.5 ¹²⁾
415	B																	28.3 ⁸⁾		27.4 ⁹⁾		27.3 ¹⁰⁾		26.0 ¹¹⁾	3.3 ¹²⁾
420	B																	27.1 ⁸⁾		26.3 ⁹⁾		26.3 ¹⁰⁾		25.1 ¹¹⁾	3.1 ¹²⁾
425	B																			25.2 ⁹⁾		23.8 ¹⁰⁾		24.2 ¹¹⁾	2.9 ¹²⁾
430	B																			24.1 ⁹⁾		22.5 ¹⁰⁾		23.2 ¹¹⁾	2.7 ¹²⁾
435	B																			23.0 ⁹⁾		21.3 ¹⁰⁾		22.3 ¹¹⁾	2.5 ¹²⁾
440	B																					20.1 ¹⁰⁾		21.4 ¹¹⁾	2.3 ¹²⁾
445	B																					18.9 ¹⁰⁾		17.8 ¹¹⁾	2.1 ¹²⁾
450	B																					17.9 ¹⁰⁾		15.9 ¹¹⁾	1.9 ¹²⁾
455	B																					16.6 ¹⁰⁾		13.9 ¹¹⁾	1.7 ¹²⁾
460	B																							12.0 ¹¹⁾	1.5 ¹²⁾
465	B																							10.1 ¹¹⁾	1.3 ¹²⁾
470	B																							8.2 ¹¹⁾	1.1 ¹²⁾
475	B																							6.3 ¹¹⁾	0.9 ¹²⁾

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

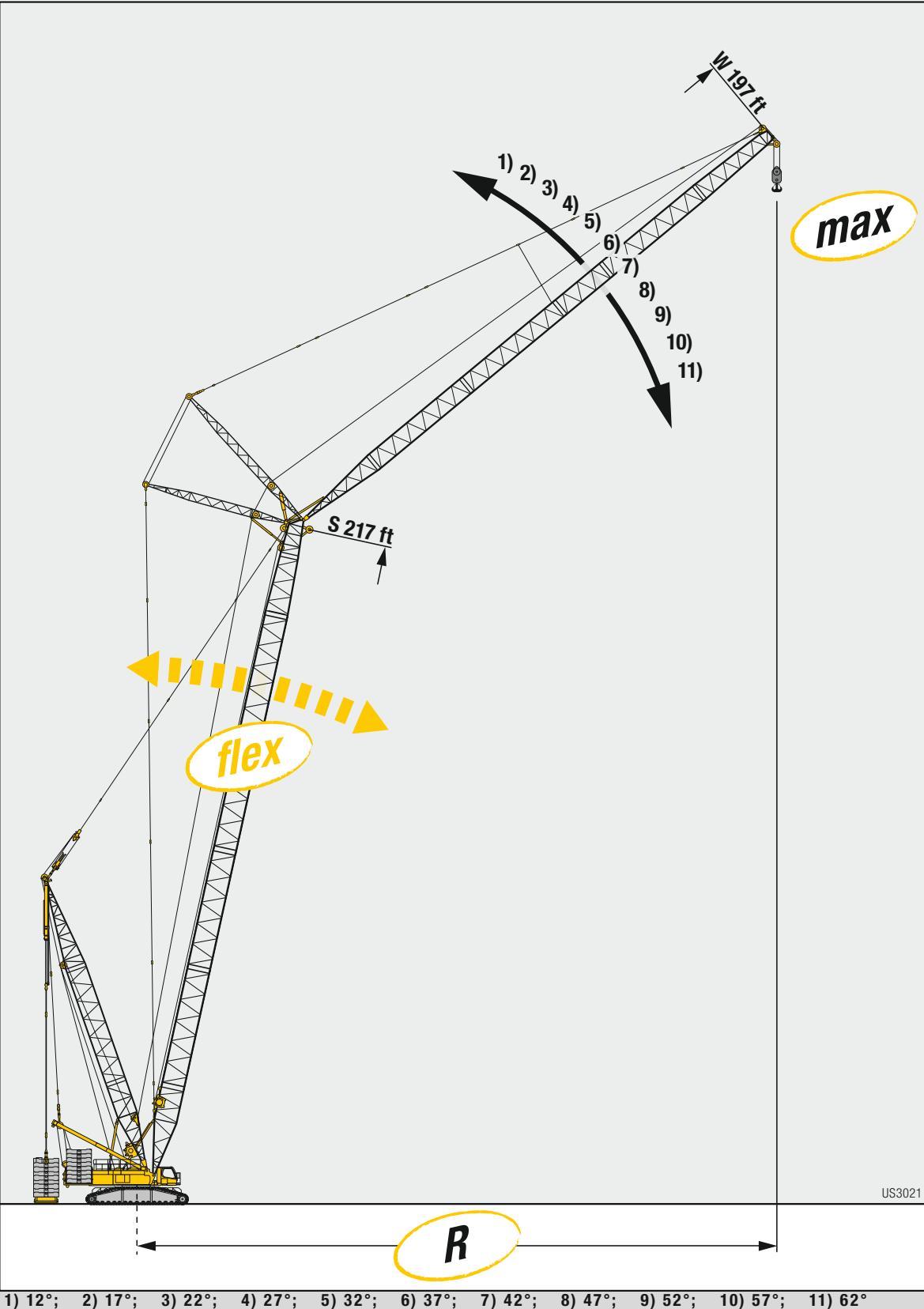
Lifting heights Hauteurs de levage

SDWB

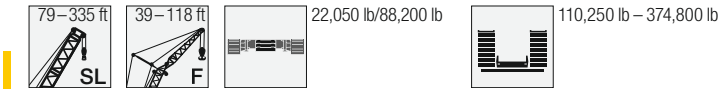


Example
Exemple

Wmax



		S 217	
		W 197	Wmax
	ft	87°/85	Wmax
70	-	145.0°	145.0°
	B	154.0°	154.0°
75	-	136.0°	136.0°
	B	152.0°	152.0°
80	-	127.0°	127.0°
	B	150.0°	152.0°
85	-	119.0°	119.0°
	B	152.0	152.0
90	-	112.0°	112.0°
	B	150.0	150.0°
95	-	106.0°	106.0°
	B	148.0	149.0°
100	-	100.0°	100.0°
	B	146.0	149.0°
105	-	94.7°	94.7°
	B	144.0	148.0°
110	-	89.7°	89.7°
	B	142.0	147.0°
115	-	85.1°	85.1°
	B	139.0	146.0°
120	-	80.9°	80.9°
	B	137.0	145.0°
125	-	77.0°	77.0°
	B	135.0	144.0°
130	-	73.4°	73.4°
	B	132.0	143.0°
135	-	70.0°	70.0°
	B	130.0	142.0°
140	-	66.8°	66.8°
	B	128.0	141.0°
145	-	63.8°	63.8°
	B	125.0	140.0°
150	-	61.0°	61.0°
	B	123.0	139.0°
155	-	58.4°	58.4°
	B	120.0	139.0°
160	-	55.9°	55.9°
	B	118.0	138.0°
165	-	53.4°	53.4°
	B	115.0	137.0°
170	-	50.8°	50.8°
	B	113.0	136.0°
175	-	48.4°	48.4°
	B	110.0	135.0°
180	-	46.1°	46.1°
	B	108.0	134.0°
185	-	44.0°	44.0°
	B	107.0	133.0°
190	-	42.0°	42.0°
	B	105.0	132.0°
195	-	40.0°	40.0°
	B	102.0	131.0°
200	-	38.3°	38.3°
	B	99.7	130.0°
205	-	36.6°	36.6°
	B	97.2	130.0°
210	-	35.0°	35.0°
	B	94.8	129.0°
215	-	33.5°	33.5°
	B	92.0	128.0°
220	-	29.1	29.1
	B	87.2	127.0°
225	-	-	24.0°
	B	-	126.0°
230	-	-	21.4°
	B	-	125.0°
235	-	-	18.9°
	B	-	124.0°
240	-	-	16.8°
	B	-	123.0°
245	-	-	14.7°
	B	-	122.0°
250	-	-	12.6°
	B	-	120.0°
255	-	-	10.5°
	B	-	116.0°
260	-	-	-
	B	-	114.0°
265	-	-	-
	B	-	111.0°
270	-	-	-
	B	-	109.0°
275	-	-	-
	B	-	106.0°
280	-	-	-
	B	-	104.0°
285	-	-	-
	B	-	101.0°
290	-	-	-
	B	-	99.5°
295	-	-	-
	B	-	97.5°
300	-	-	-
	B	-	94.4°
305	-	-	-
	B	-	91.4°
310	-	-	-
	B	-	88.4°
.	.	.	.



 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																	271												
30	271																	271												
32	271	267																271												
34	271	262		234.0														271	266											
36	271	253		229.0														271	260		233.0									
38	271	244		223.0														271	253		228.0									
40	270	236	155.0	215.0	190.0		184.0											271	246		222.0									
45	260	218	146.0	197.0	175.0		169.0			153.0								268	229	150.0	205.0	180.0		172.0						
50	239	204	139.0	182.0	163.0		155.0	140.0		142.0								256	215	143.0	190.0	169.0		160.0	142.0		144.0			
55	221	190	133.0	168.0	153.0	110.0	144.0	130.0		131.0	118.0		110.0					239	202	137.0	178.0	159.0	112.0	149.0	134.0		134.0	117.0		
60	206	179	127.0	157.0	143.0	105.0	134.0	122.0		121.0	111.0		103.0					224	191	131.0	166.0	150.0	107.0	140.0	126.0		125.0	113.0	105.0	
65	193	169	122.0	147.0	135.0	100.0	125.0	115.0	89.6	113.0	105.0		96.6					210	181	127.0	157.0	142.0	103.0	132.0	119.0	90.8	118.0	107.0	98.3	
70	182	160	117.0	138.0	128.0	96.0	117.0	108.0	85.6	106.0	98.2		90.8					199	172	122.0	148.0	135.0	99.0	124.0	113.0	87.1	111.0	101.0	92.8	
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					188	164	118.0	140.0	128.0	95.3	117.0	107.0	83.7	105.0	95.9	77.8	
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				179	157	115.0	133.0	123.0	92.1	111.0	102.0	80.5	98.9	91.2	74.9	
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				167	151	112.0	127.0	117.0	89.2	105.0	97.5	77.6	93.7	87.0	72.1	
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				155	145	109.0	121.0	113.0	86.3	100.0	93.3	75.0	88.9	82.9	69.3	
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				144	140	106.0	116.0	108.0	83.7	95.6	89.3	72.4	84.7	79.3	66.8	
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				134	134	104.0	111.0	104.0	81.5	91.4	85.7	70.0	81.0	75.9	64.5	
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				126	126	102.0	107.0	101.0	79.4	87.5	82.4	68.0	77.4	72.9	62.2	
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	74.2	70.0	60.2	
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	71.1	67.3	58.3	
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	68.3	64.9	56.6	
125					82.6	70.2	69.2	66.7	58.2	60.8	58.6	52.4	52.4	46.6							92.7	88.7	72.9	75.0	71.6	61.0	65.8	62.6	55.0	
130							66.7	64.7	56.8	58.6	56.5	51.0	50.4	45.1							89.8	86.3	71.7	72.5	69.3	59.6	63.4	60.5	53.4	
135							64.5	62.6	55.6	56.4	54.5	49.7	48.5	43.6							87.1	84.2	70.8	70.2	67.3	58.2	61.1	58.5	52.0	
140							62.5	61.0	54.6	54.4	52.7	48.2	46.8	42.3									82.4	70.0	68.0	65.4	57.0	59.0	56.7	
145									53.7	52.4	51.0	47.0	45.1	41.0											65.8	63.7	55.9	57.0	54.9	
150										50.8	49.4	45.9	43.6	39.8											64.0	62.1	55.1	55.2	53.3	
155										49.2	48.0	44.8	42.2	38.7											62.3	60.7	54.3	53.5	51.7	
160										47.8	46.6	43.9	40.8	37.7													53.5	51.9	50.3	
165												43.0	39.5	36.7														50.4	49.0	
170													38.3	35.8														48.9	47.8	
175													37.2	35.0														47.6	46.6	
180													36.2	34.3																
185																														
190																														
195																														
200																														



22,050 lb/88,200 lb



110,250 lb - 374,800 lb

 ft	SL 118															SL 138																
	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°				
32	271.0														217.0																	
34	271.0	270.0													271.0																	
36	271.0	265.0													271.0	270.0																
38	271.0	260.0		233.0											271.0	264.0																
40	271.0	253.0		227.0											271.0	258.0		229.0														
45	271.0	238.0	152.0	211.0	183.0		175.0								271.0	244.0	153.0	214.0	186.0													
50	266.0	224.0	146.0	198.0	173.0		163.0	144.0		147.0					271.0	231.0	148.0	202.0	176.0		158.0											
55	254.0	212.0	140.0	185.0	164.0	113.0	153.0	136.0		137.0					263.0	220.0	143.0	191.0	167.0		155.0	138.0		139.0								
60	239.0	201.0	135.0	174.0	155.0	109.0	145.0	129.0		128.0	114.0		106.0		250.0	209.0	138.0	181.0	159.0	110.0	149.0	131.0		131.0	115.0							
65	226.0	191.0	131.0	165.0	148.0	105.0	136.0	123.0	91.8	121.0	109.0		100.0		230.0	200.0	134.0	172.0	152.0	106.0	141.0	125.0		124.0	111.0		101.0					
70	213.0	183.0	127.0	156.0	141.0	101.0	129.0	117.0	88.4	115.0	104.0		94.5		211.0	191.0	130.0	163.0	146.0	103.0	134.0	119.0	89.3	117.0	105.0			95.7				
75	195.0	175.0	123.0	149.0	135.0	97.9	123.0	112.0	85.3	109.0	98.8	78.6	89.8		192.0	183.0	126.0	156.0	140.0	100.0	128.0	114.0	86.3	112.0	101.0			91.2				
80	179.0	167.0	119.0	141.0	129.0	94.8	117.0	107.0	82.3	103.0	94.2	76.0	85.4		176.0	175.0	123.0	149.0	134.0	97.1	122.0	110.0	83.6	106.0	96.3	76.2		87.2				
85	165.0	161.0	116.0	135.0	124.0	92.1	111.0	102.0	79.5	98.1	89.8	73.1	81.4	65.7	162.0	163.0	120.0	142.0	129.0	94.3	117.0	105.0	80.9	101.0	92.4	73.8	83.3	66.2				
90	152.0	152.0	113.0	129.0	119.0	89.5	106.0	97.7	76.9	93.4	86.0	70.6	77.8	63.3	150.0	150.0	117.0	136.0	125.0	91.8	112.0	101.0	78.5	97.0	88.5	71.4	79.8	63.9				
95	142.0	142.0	110.0	124.0	115.0	87.1	102.0	93.7	74.6	89.2	82.4	68.2	74.5	61.1	139.0	140.0	114.0	131.0	120.0	89.4	107.0	97.6	76.3	92.8	85.2	69.2	76.5	61.7				
100	132.0	132.0	108.0	119.0	111.0	84.7	97.3	90.3	72.5	85.3	79.1	66.1	71.3	58.9	129.0	130.0	112.0	126.0	116.0	87.3	103.0	94.1	74.3	88.9	81.9	67.2	73.5	59.7				
105	123.0	124.0	106.0	114.0	107.0	82.6	93.3	87.1	70.4	81.7	76.0	64.0	68.3	56.9	121.0	121.0	110.0	121.0	112.0	85.3	99.1	90.8	72.4	85.2	78.9	65.4	70.5	57.8				
110	115.0	116.0	104.0	110.0	104.0	80.6	89.8	84.0	68.4	78.4	73.2	62.0	65.5	55.0	113.0	113.0	108.0	114.0	109.0	83.5	95.5	87.8	70.5	82.0	76.1	63.6	67.8	56.0				
115	108.0	109.0	102.0	107.0	101.0	78.9	86.5	81.1	66.5	75.3	70.7	60.3	63.0	53.3	106.0	106.0	105.0	107.0	106.0	81.8	92.2	85.1	68.7	79.0	73.5	61.8	65.4	54.3				
120	102.0	103.0	100.0	103.0	97.5	77.3	83.4	78.4	64.9	72.4	68.3	58.6	60.6	51.7	99.5	100.0	102.0	101.0	102.0	80.1	89.0	82.5	67.2	76.1	71.2	60.1	63.1	52.8				
125	96.4	96.7	98.2	97.8	94.6	75.8	80.6	76.0	63.4	69.8	66.0	57.0	58.4	50.1	93.8	94.2	96.2	95.3	96.3	78.6	86.0	80.0	65.7	73.4	68.9	58.7	61.0	51.3				
130	91.0	91.4	92.8	92.4	92.3	74.3	78.0	73.7	61.9	67.4	63.8	55.5	56.4	48.5	88.5	88.8	90.7	90.0	90.9	77.1	83.3	77.6	64.2	71.0	66.7	57.2	59.0	49.8				
135	86.2	86.4	87.7	87.5	88.3	73.2	75.4	71.7	60.7	65.1	61.8	54.1	54.4	47.2	83.6	84.0	85.7	85.1	86.0	75.8	80.8	75.6	62.8	68.6	64.6	55.7	57.1	48.5				
140			83.0	83.0	83.7	72.1	73.1	69.6	59.5	63.0	59.9	52.8	52.6	45.9	79.1	79.5	81.1	80.6	81.4	74.5	78.5	73.6	61.5	66.5	62.7	54.4	55.2	47.2				
145				78.8	79.5	71.3	71.0	67.9	58.4	60.9	58.2	51.5	51.0	44.6	75.0	75.3	76.8	76.4	77.2	73.4	76.2	71.7	60.3	64.5	61.0	53.1	53.5	46.0				
150				75.0	75.5	70.6	68.9	66.1	57.3	59.0	56.5	50.4	49.5	43.5	71.2	71.4	72.8	72.5	73.3	72.3	73.5	69.8	59.4	62.6	59.4	52.0	51.8	44.9				
155					71.9	70.0	67.0	64.5	56.5	57.3	54.9	49.3	48.0	42.4			69.0	69.0	69.6	70.7	70.2	68.1	58.4	60.7	57.8	51.0	50.4	43.8				
160							65.2	63.0	55.6	55.6	53.5	48.2	46.7	41.4				65.6	66.2	67.7	66.8	66.5	57.5	58.8	56.3	50.0	49.0	42.7				
165							63.7	61.5	54.7	54.0	52.1	47.2	45.2	40.4				62.5	63.1	64.3	63.7	64.2	56.6	57.3	54.8	49.0	47.6	41.7				
170							62.2	60.2	54.0	52.5	50.8	46.4	44.0	39.4				59.5	60.1	61.3	60.7	61.2	55.7	55.9	53.5	48.1	46.3	40.8				
175									53.6	51.1	49.6	45.5	42.7	38.6						58.3	57.9	58.4	55.0	54.4	52.2	47.2	45.0	40.0				
180										49.9	48.4	44.8	41.5	37.7							55.3	55.7	54.4	53.1	51.0	46.4	43.7	39.2				
185										48.7	47.4	44.1	40.4	37.0							52.9	53.2	53.7	51.8	49.9	45.7	42.7	38.4				
190										47.6	46.4	43.5	39.4	36.3								50.9	51.9	50.5	48.8	45.0	41.7	37.6				
195											45.5	43.1	38.4	35.6										49.0	47.8	44.4	40.7	36.9				
200													37.6	34.9											46.9	46.9	43.9	39.8	36.2			
205													36.8	34.3											45.0	45.6	43.4	38.9	35.6			
210													36.0	33.8													43.7	42.9	38.0	35.0		
215														33.4															37.2	34.5		
220																													36.5	34.1		
225																													35.8	33.7		
230																														33.3		



22,050 lb/88,200 lb



110,250 lb - 374,800 lb

	SL 157															SL 177														
	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°		
34	192.0																	207.0												
36	271.0																	269.0												
38	271.0	266.0																267.0	234.0											
40	271.0	262.0																												
45	271.0	249.0		217.0														259.0	230.0	194.0										
50	271.0	236.0	149.0	205.0	178.0		158.0											249.0	224.0	150.0	188.0	169.0	157.0							
55	265.0	226.0	145.0	194.0	170.0		157.0	138.0		140.0								240.0	217.0	145.0	181.0	163.0	152.0							
60	243.0	216.0	141.0	185.0	162.0	111.0	151.0	132.0		132.0								232.0	210.0	141.0	175.0	158.0	147.0	131.0		130.0				
65	222.0	207.0	137.0	176.0	156.0	108.0	144.0	126.0		126.0	111.0		101.0		216.0	204.0	138.0	169.0	153.0	107.0	142.0	126.0				125.0	110.0			
70	204.0	199.0	133.0	169.0	150.0	104.0	138.0	121.0	89.7	120.0	107.0		96.6		199.0	198.0	134.0	163.0	149.0	105.0	137.0	121.0			119.0	106.0		95.4		
75	189.0	189.0	129.0	162.0	144.0	101.0	131.0	116.0	87.1	114.0	102.0		92.4		184.0	186.0	131.0	158.0	145.0	102.0	132.0	117.0	86.8	114.0	102.0		91.5			
80	173.0	174.0	126.0	155.0	139.0	98.8	126.0	112.0	84.6	109.0	98.1	76.9	88.4		170.0	172.0	128.0	153.0	140.0	99.8	127.0	113.0	84.4	109.0	98.2		87.9			
85	159.0	160.0	123.0	149.0	134.0	96.3	121.0	108.0	82.1	104.0	94.1	74.5	84.9		157.0	159.0	125.0	149.0	136.0	97.5	122.0	109.0	82.1	105.0	94.7	74.2	84.7			
90	147.0	148.0	120.0	143.0	129.0	93.9	116.0	104.0	79.8	99.8	90.6	72.3	81.4	64.3	145.0	147.0	123.0	144.0	132.0	95.2	118.0	105.0	80.1	101.0	91.3	72.2	81.6	63.7		
95	136.0	137.0	118.0	136.0	125.0	91.7	111.0	101.0	77.7	95.9	87.2	70.2	78.3	62.2	135.0	136.0	120.0	137.0	128.0	93.0	113.0	102.0	78.2	97.2	88.2	70.3	78.6	61.9		
100	126.0	127.0	115.0	128.0	121.0	89.6	107.0	97.2	75.8	92.2	84.2	68.2	75.2	60.2	125.0	126.0	118.0	127.0	124.0	90.9	110.0	98.9	76.5	93.7	85.2	68.5	75.9	60.2		
105	118.0	118.0	113.0	120.0	117.0	87.5	103.0	94.2	73.9	88.8	81.3	66.4	72.5	58.5	116.0	118.0	115.0	119.0	119.0	88.9	106.0	95.8	74.8	90.3	82.5	66.8	73.3	58.6		
110	110.0	111.0	111.0	112.0	112.0	85.6	99.6	91.2	72.1	85.4	78.6	64.6	70.0	56.8	109.0	110.0	111.0	111.0	112.0	87.1	102.0	93.0	73.1	87.2	79.9	65.2	70.8	57.0		
115	103.0	104.0	106.0	105.0	106.0	83.9	96.3	88.5	70.4	82.3	76.2	63.0	67.6	55.3	102.0	103.0	106.0	104.0	105.0	85.4	99.0	90.2	71.5	84.1	77.4	63.6	68.5	55.4		
120	96.8	97.4	100.0	98.5	99.7	82.2	93.3	85.9	68.9	79.3	73.8	61.3	65.3	53.7	95.6	96.6	99.0	97.7	98.4	83.8	95.7	87.7	70.0	81.3	75.1	62.1	66.3	54.0		
125	91.0	91.6	94.0	92.7	93.8	80.6	90.4	83.4	67.4	76.7	71.5	59.8	63.0	52.3	89.9	90.8	93.1	91.9	92.7	82.4	92.1	85.3	68.5	78.8	72.8	60.7	64.3	52.6		
130	85.7	86.3	88.6	87.4	88.5	79.3	87.5	81.1	65.9	74.2	69.4	58.4	61.0	50.9	84.5	85.6	87.7	86.5	87.4	81.0	87.6	83.2	67.1	76.4	70.8	59.3	62.3	51.4		
135	80.9	81.4	83.6	82.5	83.6	78.0	84.0	78.8	64.6	71.9	67.3	57.1	59.1	49.6	79.7	80.7	82.7	81.7	82.4	79.8	82.6	81.2	65.8	74.0	68.9	58.0	60.4	50.3		
140	76.5	76.9	78.9	78.0	79.0	76.6	79.4	76.8	63.3	69.7	65.5	55.8	57.4	48.4	75.3	76.2	78.1	77.2	77.9	78.5	78.2	79.0	64.7	71.8	67.2	56.7	58.7	49.1		
145	72.3	72.8	74.6	73.8	74.8	75.4	75.3	74.9	62.2	67.6	63.7	54.6	55.7	47.2	71.2	72.0	73.9	73.0	73.7	75.9	74.1	74.9	63.6	69.7	65.4	55.6	57.1	48.0		
150	68.5	68.9	70.7	70.0	70.9	72.9	71.4	71.9	61.1	65.7	62.1	53.5	54.1	46.1	67.4	68.1	69.9	69.2	69.8	72.1	70.1	71.0	62.5	67.9	63.8	54.5	55.5	46.8		
155	65.0	65.3	66.9	66.4	67.2	69.2	67.8	68.5	60.1	63.9	60.5	52.4	52.6	45.1	63.9	64.6	66.2	65.6	66.2	68.3	66.6	67.3	61.5	65.8	62.2	53.4	54.0	45.9		
160	61.7	62.0	63.4	63.0	63.8	65.7	64.4	65.1	59.2	62.2	59.0	51.3	51.1	44.1	60.6	61.2	62.7	62.3	62.8	64.9	63.2	63.9	60.5	63.5	60.7	52.5	52.5	44.9		
165	58.6	58.8	60.2	59.9	60.7	62.4	61.2	61.9	58.3	60.6	57.5	50.4	49.8	43.1	57.5	58.1	59.5	59.2	59.6	61.6	60.1	60.8	59.5	60.6	59.3	51.5	51.1	44.0		
170			57.2	57.0	57.7	59.3	58.3	58.8	57.3	58.5	56.2	49.5	48.5	42.2	54.6	55.2	56.5	56.2	56.7	58.6	57.1	57.8	58.6	57.6	57.8	50.7	49.8	43.1		
175				54.3	54.9	56.4	55.6	56.1	56.5	56.1	54.8	48.7	47.2	41.3	51.9	52.5	53.7	53.5	53.9	55.7	54.4	55.0	56.6	54.8	56.1	49.8	48.7	42.2		
180				51.7	52.3	53.6	53.0	53.4	55.0	53.5	53.5	48.0	46.1	40.5	49.4	49.9	51.0	50.9	51.3	53.0	51.8	52.4	54.2	52.3	53.5	49.0	47.6	41.4		
185				49.3	49.8	51.0	50.5	50.9	52.4	51.0	52.1	47.2	44.9	39.7			48.5	48.5	48.8	50.4	49.3	49.9	51.6	49.8	51.0	48.2	46.5	40.6		
190						48.6	48.2	48.6	50.0	48.8	49.7	46.4	43.8	39.0				46.2	46.5	48.0	47.0	47.5	49.1	47.5	48.6	47.5	45.4	39.9		
195							46.0	46.4	47.6	46.6	47.5	45.8	42.8	38.3					44.0	44.3	45.6	44.9	45.3	46.8	45.4	46.4	46.8	44.4	39.2	
200							43.9	44.3	45.4	44.5	45.4	45.1	41.9	37.6				42.0	42.2	43.5	42.8	43.2	44.7	43.3	44.3	46.2	43.3	38.5		
205								42.3	43.3	42.6	43.4	44.5	40.9	36.9						41.4	40.9	41.2	42.6	41.4	42.3	44.1	42.0	37.9		
210										40.7	41.5	42.9	40.0	36.3							39.0	39.4	40.6	39.5	40.4	42.1	40.4	37.4		
215										39.0	39.7	41.0	39.2	35.8							37.3	37.6	38.7	37.8	38.6	40.3	38.7	36.8		
220										37.3	38.0	39.2	38.0	35.2								35.9	36.9	36.1	37.0	38.4	37.0	36.3		
225											36.4	37.5	36.5	34.7										35.2	34.5	35.3	36.7	35.3	35.8	
230													35.0	34.2											33.0	33.8	35.0	33.8	35.1	
235													33.5	33.8											31.5	32.3	33.5	32.3	34.0	
240													32.0	33.1											30.2	30.8	31.9	30.9	32.5	
245														31.9														29.6	31.1	
250																												28.3	29.7	
255																												27.0	28.3	
260																													27.0	



22,050 lb/88,200 lb



110,250 lb – 374,800 lb

 ft	SL 197															SL 217														
	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°		
38	186.0																													
40	261.0																	234.0												
45	251.0	225.0																231.0	210.0											
50	243.0	218.0		183.0														226.0	204.0		172.0									
55	235.0	211.0	146.0	177.0	157.0		149.0											220.0	199.0	146.0	167.0	151.0		140.0						
60	226.0	206.0	142.0	171.0	155.0		143.0	129.0		127.0								214.0	194.0	142.0	162.0	146.0		136.0			118.0			
65	209.0	200.0	139.0	166.0	150.0	108.0	139.0	125.0		123.0								203.0	189.0	139.0	157.0	143.0	108.0	131.0	118.0		116.0			
70	192.0	193.0	136.0	160.0	146.0	105.0	134.0	121.0		119.0	106.0			95.3				187.0	184.0	136.0	153.0	139.0	105.0	127.0	114.0		113.0	102.0		
75	177.0	179.0	133.0	155.0	142.0	103.0	130.0	118.0	86.7	114.0	102.0			91.7				173.0	175.0	134.0	148.0	136.0	103.0	124.0	111.0		109.0	98.7		
80	164.0	166.0	130.0	151.0	139.0	101.0	126.0	114.0	84.6	110.0	98.7			88.4				161.0	162.0	131.0	144.0	132.0	101.0	120.0	108.0	83.9	106.0	96.1		
85	153.0	155.0	127.0	147.0	135.0	98.5	122.0	110.0	82.7	106.0	95.5	74.2		85.2				149.0	151.0	128.0	140.0	129.0	98.8	117.0	105.0	82.1	103.0	93.5		
90	142.0	144.0	125.0	142.0	132.0	96.3	119.0	107.0	80.8	103.0	92.4	72.3		82.4				139.0	141.0	126.0	136.0	126.0	96.7	113.0	103.0	80.4	99.6	91.1		
95	131.0	133.0	122.0	134.0	129.0	94.2	115.0	104.0	78.9	98.9	89.4	70.5	79.6	62.1				130.0	131.0	124.0	130.0	123.0	94.8	110.0	100.0	78.7	96.9	88.7		
100	122.0	123.0	120.0	124.0	125.0	92.3	112.0	101.0	77.1	95.4	86.6	68.8	76.9	60.4				121.0	122.0	122.0	123.0	120.0	93.1	107.0	97.7	77.2	94.3	86.3		
105	114.0	115.0	117.0	116.0	118.0	90.6	109.0	98.0	75.5	92.3	83.9	67.2	74.4	58.7				113.0	113.0	117.0	114.0	116.0	91.4	105.0	95.3	75.6	91.8	84.0		
110	106.0	107.0	110.0	108.0	110.0	88.9	105.0	95.2	73.9	89.3	81.5	65.6	71.9	57.2				105.0	106.0	109.0	107.0	108.0	89.8	102.0	93.2	74.2	89.3	81.7		
115	99.1	100.0	103.0	101.0	103.0	87.2	101.0	92.6	72.5	86.4	79.3	64.2	69.7	55.9				98.1	98.7	102.0	99.7	101.0	88.2	98.7	91.0	72.8	86.9	79.6		
120	92.8	94.0	96.6	95.1	96.4	85.5	96.2	90.1	71.1	83.7	77.1	62.9	67.6	54.5				91.7	92.5	95.4	93.6	95.1	86.6	94.5	88.6	71.5	84.4	77.6		
125	87.0	88.2	90.8	89.2	90.7	84.1	90.3	87.7	69.8	81.0	74.8	61.6	65.6	53.3				86.1	86.8	89.6	87.8	89.3	85.1	88.8	86.0	70.2	81.9	75.6		
130	81.9	82.9	85.4	84.0	85.4	82.8	85.1	85.3	68.4	78.7	72.6	60.3	63.7	52.1				80.9	81.4	84.1	82.5	84.0	83.3	83.7	83.3	69.0	79.3	73.6		
135	77.0	78.0	80.3	79.2	80.4	81.5	80.1	81.3	67.1	76.4	70.7	59.1	62.0	50.9				75.9	76.7	79.2	77.7	79.0	80.9	78.7	78.7	67.8	76.8	71.6		
140	72.5	73.6	75.8	74.6	75.9	78.3	75.8	76.6	65.9	74.3	68.8	57.8	60.2	49.8				71.6	72.2	74.7	73.1	74.6	77.2	74.3	74.1	66.6	74.4	69.7		
145	68.5	69.4	71.6	70.5	71.7	74.0	71.6	72.6	64.8	71.8	67.1	56.6	58.6	48.7				67.5	68.0	70.4	69.1	70.3	72.8	70.1	70.0	65.5	71.2	68.0		
150	64.7	65.6	67.6	66.7	67.8	70.0	67.7	68.6	63.7	68.1	65.4	55.5	56.9	47.7				63.7	64.3	66.5	65.2	66.5	68.9	66.3	66.1	64.4	67.3	66.1		
155	61.1	62.0	63.9	63.0	64.2	66.3	64.2	65.0	62.8	64.6	63.9	54.6	55.5	46.7				60.2	60.7	62.8	61.7	62.9	65.1	62.7	62.5	63.4	63.8	64.0		
160	57.8	58.7	60.5	59.7	60.8	62.7	60.8	61.6	61.7	61.2	62.2	53.6	54.0	45.7				56.9	57.3	59.4	58.4	59.5	61.6	59.3	59.1	62.3	60.4	61.4		
165	54.8	55.6	57.3	56.6	57.6	59.4	57.7	58.4	60.2	58.1	59.4	52.7	52.7	44.7				53.8	54.2	56.2	55.2	56.4	58.4	56.3	55.9	59.5	57.3	58.3		
170	51.9	52.6	54.3	53.7	54.7	56.4	54.7	55.4	57.8	55.1	56.6	51.8	51.5	43.9				50.9	51.3	53.2	52.3	53.4	55.3	53.3	53.0	56.6	54.3	55.3		
175	49.2	49.9	51.4	50.9	51.9	53.5	51.9	52.7	54.8	52.5	53.8	50.9	50.3	43.0				48.3	48.6	50.4	49.6	50.6	52.5	50.6	50.2	53.7	51.6	52.5		
180	46.7	47.3	48.8	48.4	49.3	50.8	49.4	50.0	52.1	49.8	51.2	50.2	49.2	42.2				45.7	46.0	47.7	47.0	48.0	49.8	48.0	47.7	51.0	49.0	49.9		
185	44.3	44.9	46.3	46.0	46.8	48.2	46.9	47.5	49.6	47.4	48.7	49.5	48.0	41.5				43.3	43.6	45.2	44.6	45.6	47.2	45.6	45.2	48.4	46.6	47.4		
190	42.1	42.6	43.9	43.7	44.5	45.8	44.6	45.2	47.1	45.2	46.4	48.5	46.3	40.8				41.1	41.4	42.9	42.3	43.2	44.8	43.3	42.9	46.0	44.3	45.1		
195	39.9	40.5	41.7	41.5	42.3	43.6	42.5	43.0	44.8	42.9	44.2	46.4	44.1	40.1				39.0	39.2	40.7	40.2	41.1	42.6	41.1	40.7	43.7	42.1	42.8		
200		38.4	39.5	39.5	40.2	41.4	40.4	40.9	42.6	40.9	42.1	44.3	42.1	39.5				36.9	37.2	38.6	38.1	39.0	40.4	39.1	38.6	41.5	40.1	40.8		
205				37.5	38.2	39.3	38.4	38.9	40.5	39.0	40.1	42.2	40.1	38.8				35.1	35.2	36.6	36.2	37.0	38.3	37.1	36.7	39.5	38.1	38.8		
210				35.7	36.3	37.4	36.6	37.0	38.5	37.1	38.2	40.2	38.2	38.2				33.3	33.4	34.7	34.4	35.1	36.4	35.2	34.8	37.5	36.3	36.9		
215				34.0	34.5	35.5	34.8	35.2	36.6	35.4	36.4	38.3	36.4	37.6					31.7	32.9		32.6	33.4	34.5	33.5	33.0	35.6	34.5	35.1	
220						33.7	33.2	33.5	34.9	33.7	34.7	36.5	34.7	36.8							31.0	31.7	32.8	31.8	31.4	33.8	32.8	33.4		
225							31.6	31.9	33.1	32.1	33.1	34.8	33.1	35.2							29.4	30.1	31.1	30.2	29.8	32.1	31.2	31.8		
230							30.0	30.4	31.5	30.6	31.5	33.1	31.5	33.6							27.9	28.5	29.5	28.7	28.3	30.5	29.7	30.3		
235								28.9	29.9	29.1	30.0	31.5	30.1	32.0									27.9	27.3	26.8	28.9	28.3	28.8		
240									28.4	27.8	28.6	30.0	28.7	30.5										25.9	25.4	27.5	26.9	27.4		
245										26.4	27.2	28.6	27.3	29.1										24.6	24.1	26.0	25.5	26.0		
250										25.2	25.9	27.2	26.0	27.7											22.9	24.7	24.3	24.7		
255										24.0	24.7	25.8	24.8	26.4													23.1	23.4		
260													23.6	25.1													21.9	22.3		
265													22.5	23.9													21.0	21.3		
270													21.5	22.7													20.1	20.3		
275													20.6	21.6														19.4		
280														20.7															18.6	
285																													17.8	
290																													17.0	
295																													17.3	



22,050 lb/88,200 lb



110,250 lb - 374,800 lb

 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°	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	28.9	31.4	29.6	31.9	
225	25.8	26.4	27.3	27.0	27.7	29.0	27.9	28.9	30.6	29.0	29.6	31.8	29.6	32.3		23.1	23.8	24.9	24.9	25.3	26.8	25.4	26.5	28.5	26.5	27.3	29.7	27.9	30.2	
230		24.9	25.7	25.5	26.2	27.4	26.4	27.3	29.0	27.4	28.1	30.2	28.0	30.6		21.8	22.4	23.3	23.4	23.7	25.2	23.9	24.9	26.8	25.0	25.7	28.1	26.4	28.6	
235			24.2	24.0	24.8	25.8	24.9	25.8	27.4	26.0	26.6	28.6	26.5	29.0		20.6	21.1	21.9	22.0	22.4	23.6	22.4	23.5	25.3	23.6	24.2	26.5	24.9	27.0	
240				22.7	23.4	24.4	23.5	24.4	25.9	24.6	25.1	27.1	25.2	27.5		19.4	19.9	20.7	20.8	21.1	22.2	21.2	22.1	23.8	22.2	22.9	25.0	23.5	25.5	
245				21.5	22.1	23.0	22.2	23.1	24.5	23.2	23.8	25.6	23.8	26.1		18.3	18.8	19.5	19.7	20.0	21.0	20.1								



22,050 lb/88,200 lb



110,250 lb - 374,800 lb

 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°	15°	30°		
50	189.0	173.0																174.0												
55	185.0	169.0																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			96.5			
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			94.0			
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		91.7			
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	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	18.9	19.8	19.0	19.5	21.4	19.5	20.2	22.7	
240	17.4	17.6	18.5	18.6	18.9	20.2	19.5	20.0	21.7	20.0	20.7	22.9	21.3	23.4				15.6	16.3	16.9	16.8	17.7	18.6	17.8	18.3	20.2	18.3	19.0	21.2	
245	16.3	16.5	17.4	17.5	17.8	19.0	18.4	18.9	20.4	18.9	19.5	21.6	20.1	22.0				14.5	15.2	15.7	15.7	16.6	17.4	16.7	17.2	18.9	17.2	17.8	20.0	
250	15.3	15.5	16.3	16.4	16.7	17.8	17.3	17.7	19.3	17.8	18.4	20.3	19.0	20.8				13.5	14.1	14.6	14.6	15.5	16.3	15.6	16.1	17.8	16.1	16.7	18.8	
255	14.3	14.5	15.2	15.4	15.7	16.7	16.3	16.7	18.2	16.8	17.4	19.2	18.0	19.7				12.5	13.1	13.6	13.6	14.4	15							



22,050 lb/88,200 lb

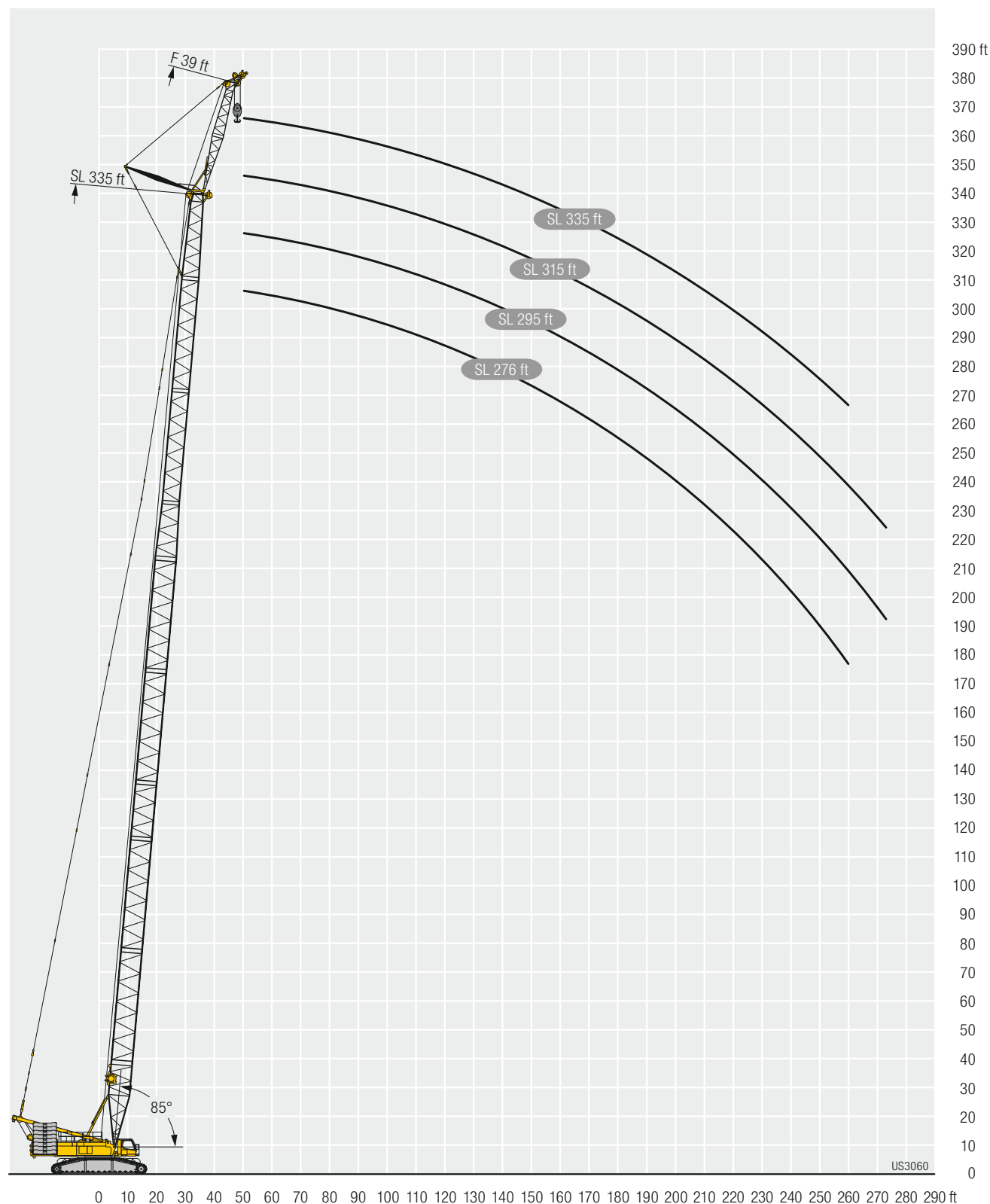


110,250 lb - 374,800 lb

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°
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	8,1	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			

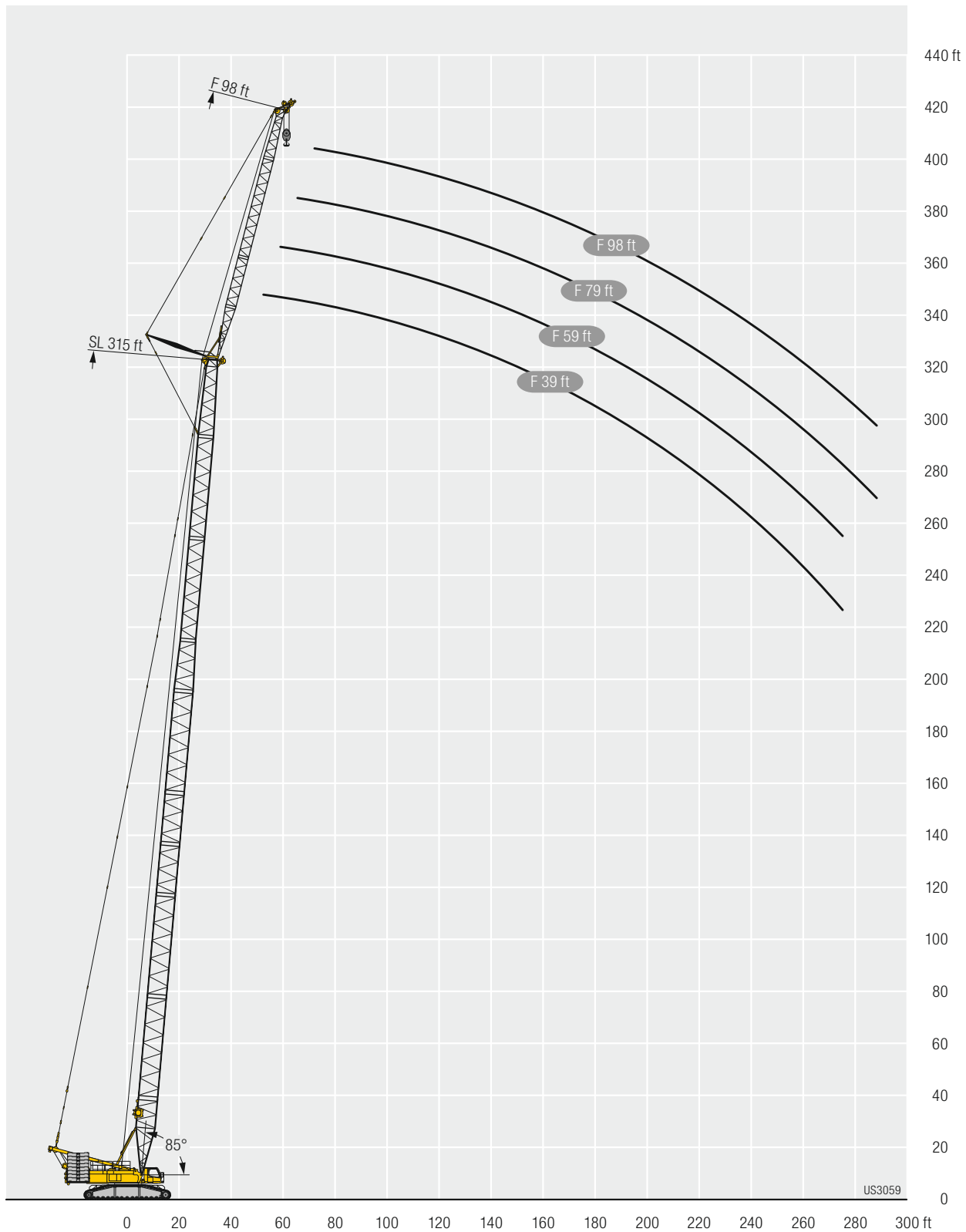
Lifting heights Hauteurs de levage

SLF



Lifting heights Hauteurs de levage

SLF





22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 ft	SL3 177																 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		85
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	95
100	126	127	119	128	128	92	121	107	77.8	107	95.2	70	86.7	64.1	80.3	60.1	100
105	118	118	116	119	121	90	117	104	75.8	103	92.2	68.2	83.7	62.3	77.2	58.4	105
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	110
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	115
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	120
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	125
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	130
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	135
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	140
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	145
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	150
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	155
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	160
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	165
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	170
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	175
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	180
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	185
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	190
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	195
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	200
205						42.4	41.5	42.2	43.5	42.3	43.2	45	43.2	40.3	43.4	36.1	205
210							39.6	40.3	41.5	40.4	41.3	43	41.3	39.7	41.6	35.4	210
215							37.9	38.5	39.6	38.7	39.6	41.1	39.5	39	39.9	34.8	215
220								36.8	37.8	37	37.9	39.3	37.8	38.5	38.2	34.2	220
225									36.1	35.4	36.2	37.6	36.2	37.6	36.6	33.6	225
230										33.9	34.6	35.9	34.6	36.3	35	33	230
235										32.5	33.2	34.3	33.2	34.8	33.5	32.5	235
240										31.1	31.7	32.8	31.8	33.3	32.2	31.9	240
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



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 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	97.4		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	24.9	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	280
285															20	21.3	285
290															19.3	20.4	290
295																19.6	295
300																18.8	300



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 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



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 ft	SL3 236																 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	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			148.0							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		92.5		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		90.6		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		88.5		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		86.3		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	83.9		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	60.4	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

 ft	SL3 246																 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										60
65	192.0	194.0	144.0	192.0	167.0		158.0			143.0							65
70	177.0	179.0	142.0	177.0	162.0	109.0	156.0	134.0		139.0							70
75	163.0	165.0	139.0	163.0	157.0	106.0	153.0	130.0		134.0	115.0		106.0		92.1		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		90.2		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		88.2		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		86.1		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		84.0		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	81.5		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	79.1	58.9	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	76.6	57.5	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	74.7	56.1	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	73.0	54.8	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	71.4	53.6	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	69.8	52.4	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	68.1	51.3	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	66.4	50.2	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	64.7	49.1	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	63.0	48.1	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	61.1	47.1	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	57.9	46.2	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	54.8	45.3	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	51.9	44.4	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	49.0	43.6	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	46.5	42.7	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	44.0	41.9	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	41.7	41.2	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	39.5	40.5	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	37.4	39.7	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	35.5	38.8	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	33.5	37.3	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	31.8	35.4	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	30.1	33.6	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	28.5	31.9	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	26.9	30.2	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	25.5	28.6	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	24.1	27.1	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	22.8	25.7	245
250				18.6	19.2	20.4	19.8	20.1	21.4	20.2	21.2	22.9	21.2	23.5	21.6	24.3	250
255				17.6	18.2	19.3	18.8	19.1	20.2	19.2	20.1	21.7	20.2	22.1	20.5	23.0	255
260				16.7	17.2	18.3	17.8	18.1	19.2	18.2	19.1	20.6	19.1	21.1	19.5	21.8	260
265						17.3	16.8	17.1	18.2	17.3	18.1	19.5	18.2	20.0	18.5	20.7	265
270							15.9	16.2	17.2	16.4	17.2	18.5	17.2	19.0	17.6	19.7	270
275							15.0	15.3	16.2	15.5	16.3	17.6	16.4	18.0	16.7	18.8	275
280								14.4	15.3	14.7	15.4	16.6	15.5	17.1	15.8	17.8	280
285									14.4	13.9	14.6	15.7	14.7	16.2	15.0	16.9	285
290										13.1	13.8	14.9	13.9	15.3	14.2	16.1	290
295										12.3	13.0	14.0	13.1	14.5	13.5	15.2	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



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 ft	SL3 256																 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													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		89.0		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		87.4		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		85.5		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		83.5		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	81.3		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	79.1	58.7	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	76.8	57.3	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	74.7	56.1	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	73.0	54.8	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	71.4	53.7	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	69.9	52.5	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	68.3	51.4	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	66.7	50.3	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	65.2	49.3	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	63.0	48.3	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	60.1	47.3	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	56.7	46.4	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	53.6	45.5	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	50.8	44.7	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	48.0	43.8	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	45.4	43.0	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	43.0	42.2	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	40.5	41.5	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	38.4	40.7	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	36.3	39.8	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	34.4	38.0	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	32.5	36.2	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	30.7	34.4	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	29.0	32.6	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	27.4	30.9	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	25.9	29.3	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	24.4	27.7	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	23.1	26.2	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	21.8	24.7	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	20.6	23.4	250
255				16.7	17.3	18.5	17.8	18.2	19.4	18.3	19.2	20.9	19.3	21.3	19.6	22.1	255
260				15.7	16.3	17.5	16.8	17.2	18.4	17.3	18.2	19.8	18.3	20.3	18.6	21.0	260
265				14.8	15.3	16.5	15.9	16.2	17.4	16.3	17.3	18.8	17.3	19.2	17.6	19.9	265
270					14.4	15.5	15.0	15.3	16.4	15.4	16.3	17.8	16.4	18.2	16.7	19.0	270
275							14.1	14.4	15.4	14.6	15.4	16.8	15.5	17.3	15.8	18.0	275
280							13.2	13.5	14.5	13.8	14.5	15.9	14.6	16.3	15.0	17.1	280
285							12.3	12.6	13.6	12.9	13.7	15.0	13.8	15.4	14.2	16.2	285
290									12.6	12.1	12.9	14.1	13.0	14.6	13.4	15.3	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	335
340																7.2	340
345																6.4	345



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 ft	SL3 266																 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	156.0																45
50	239.0	240.0															50
55	222.0	225.0		201.0													55
60	202.0	205.0	148.0	199.0	172.0		158.0										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	330
335														5.9		6.8	335
340																6.0	340



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 ft	SL3 276																 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	105
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	110
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	115
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	120
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	125
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	130
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	135
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	140
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	145
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	150
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	155
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	160
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	165
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	170
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	175
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	180
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	185
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	190
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	195
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	200
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	205
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	210
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	215
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	220
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	225
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	230
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	235
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	240
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	245
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	250
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	255
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	260
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	265
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	270
275				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	275
280				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	280
285				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	285
290							9.5	9.8	11.2	10.3	11.3	12.8	11.4	13.2	11.8	13.9	290
295							8.5	8.9	10.2	9.4	10.4	11.9	10.7	12.4	10.9	13.1	295
300							7.7	7.9	9.2	8.5	9.5	11.1	9.9	11.6	10.1	12.3	300
305								7.1	8.2	7.6	8.6	10.2	8.9	10.8	9.3	11.5	305
310										6.8	7.7	9.2	8.0	10.0	8.4	10.7	310
315										6.0	6.8	8.2	7.2	9.1	7.6	9.9	315
320											6.0	7.3	6.4	8.2	6.7	9.1	320
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

 ft	SL3 285																 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		7.9	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	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	110
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	115
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	120
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	125
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	130
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	135
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	140
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	145
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	150
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	155
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	160
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	165
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	170
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	175
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	180
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	185
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	190
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	195
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	200
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	205
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	210
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	215
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	220
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	225
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	230
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	235
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	240
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	245
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	250
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	255
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	260
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	265
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	270
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	275
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	280
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	285
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	290
295						6.6	5.9	6.3	8.4	6.8	7.4	10.0	8.4	10.5	8.7	11.3	295
300						5.6			7.4	5.9	6.5	9.0	7.4	9.7	7.7	10.5	300
305									6.5		5.6	8.1	6.5	8.9	6.8	9.7	305
310									5.5			7.1	5.7	7.9	5.9	8.8	310
315												6.1		7.0		7.9	315
320														6.1		7.0	320
325																6.1	325



22,050 lb /
88,200 lb



110,250 lb - 374,800 lb

 ft	SL3 305												 ft
	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	300
305												6.7	305
310												5.8	310



22,050 lb /
88,200 lb

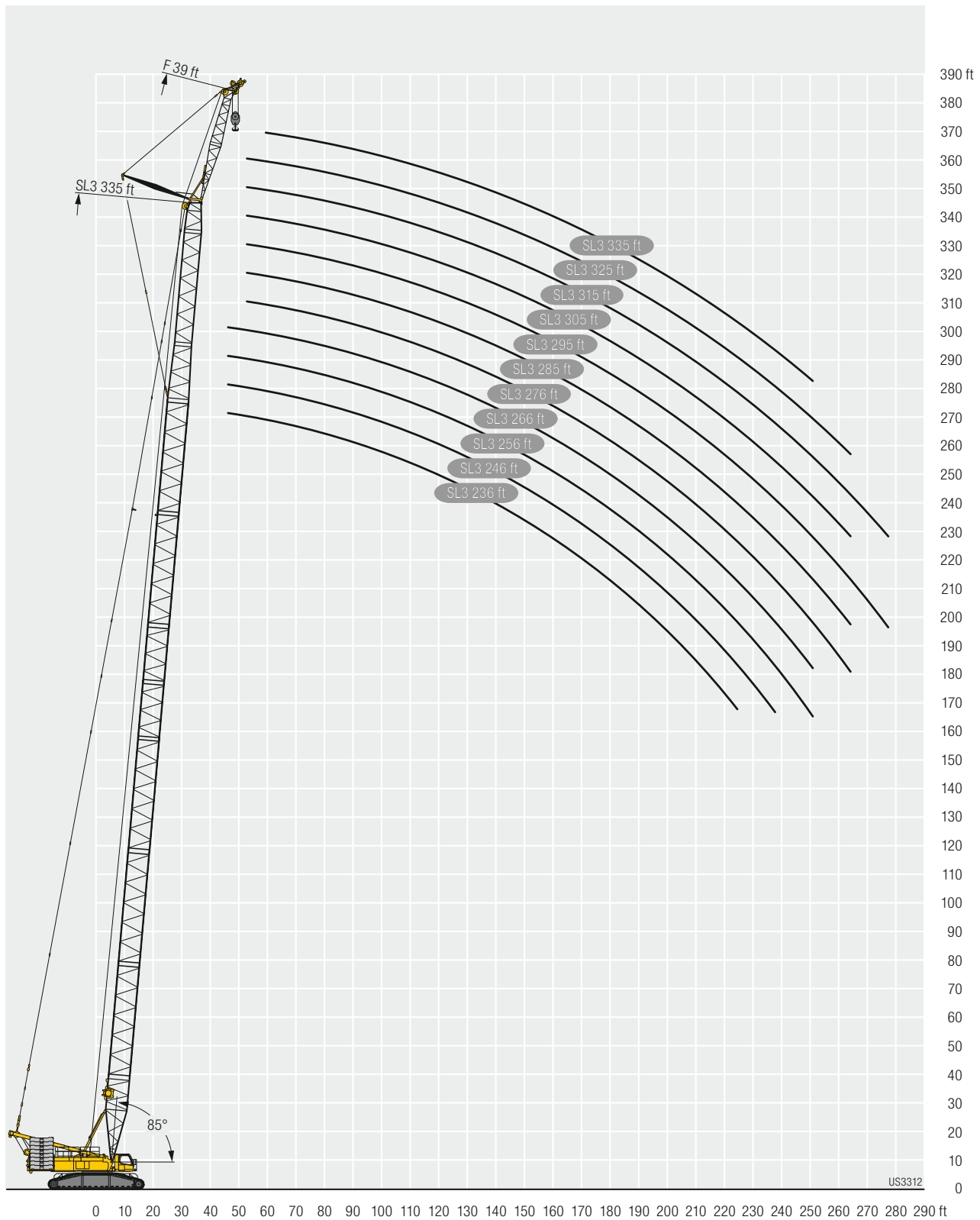


110,250 lb - 374,800 lb

 ft	SL3 315												SL3 335												 ft
	F 39			F 59			F 79			F 98			F 39			F 59			F 79						
	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°	10°	15°	30°				
55	191.0	186.0											185.0						173.0				55		
60	186.0	182.0		157.0									180.0	176.0		155.0			169.0	165.0			60		
65	172.0	174.0	145.0	156.0	146.0		135.0						169.0	170.0	145.0	153.0	142.0		165.0	162.0			65		
70	158.0	160.0	143.0	154.0	144.0		133.0			115.0			155.0	157.0	143.0	150.0	140.0		152.0	154.0	140.0		70		
75	146.0	148.0	141.0	147.0	143.0	106.0	131.0	118.0		114.0			143.0	145.0	140.0	144.0	139.0		140.0	142.0	139.0		75		
80	135.0	137.0	138.0	136.0	138.0	104.0	128.0	117.0		113.0	103.0		132.0	134.0	137.0	133.0	135.0	104.0	129.0	132.0	136.0		80		
85	125.0	127.0	132.0	126.0	129.0	103.0	125.0	116.0		112.0	102.0		122.0	124.0	130.0	124.0	126.0	102.0	120.0	122.0	128.0		85		
90	116.0	118.0	123.0	118.0	120.0	101.0	117.0	114.0	79.7	110.0	100.0		114.0	115.0	121.0	115.0	118.0	101.0	111.0	113.0	119.0		90		
95	108.0	110.0	115.0	110.0	112.0	99.7	109.0	113.0	79.7	108.0	98.7		106.0	107.0	112.0	108.0	110.0	99.6	104.0	105.0	110.0		95		
100	101.0	102.0	107.0	103.0	105.0	98.2	102.0	106.0	79.6	103.0	97.1	71.1	98.7	100.0	105.0	100.0	102.0	98.2	96.4	98.0	103.0		100		
105	94.4	95.7	100.0	96.0	97.9	96.9	95.8	99.1	79.6	96.1	94.9	69.8	92.0	93.5	98.1	93.9	95.7	96.6	89.9	91.4	96.0		105		
110	88.3	89.6	93.9	90.0	91.7	94.8	89.9	93.1	79.4	90.3	92.0	68.7	85.9	87.3	91.7	87.9	89.6	94.8	84.0	85.3	89.8		110		
115	82.7	83.9	88.0	84.5	86.1	91.3	84.4	87.5	78.3	84.9	87.3	67.6	80.4	81.7	85.8	82.3	84.0	89.3	78.5	79.7	84.1		115		
120	77.5	78.7	82.6	79.3	80.9	85.8	79.2	82.2	77.1	79.9	82.2	66.5	75.3	76.4	80.5	77.1	78.8	84.0	73.3	74.6	78.7		120		
125	72.6	73.8	77.4	74.5	76.0	80.8	74.4	77.3	76.0	75.2	77.4	65.6	70.5	71.6	75.5	72.4	73.9	78.9	68.5	69.8	73.8		125		
130	68.0	69.1	72.3	70.0	71.4	75.9	70.1	72.9	74.9	70.9	73.0	64.6	66.0	67.1	70.7	68.0	69.4	74.2	64.2	65.3	69.1		130		
135	63.4	64.4	67.4	65.6	67.0	71.0	65.9	68.6	72.6	66.7	68.8	63.7	61.8	62.7	66.1	63.8	65.2	69.7	60.1	61.1	64.7		135		
140	59.2	60.0	63.0	61.3	62.5	66.4	62.0	64.5	69.2	62.8	64.8	62.8	57.5	58.5	61.5	59.8	61.1	65.1	56.1	57.0	60.3		140		
145	55.2	56.1	58.8	57.2	58.4	62.1	57.9	60.3	64.8	59.2	61.0	61.9	53.7	54.4	57.3	55.7	57.0	60.8	52.2	53.1	56.1		145		
150	51.4	52.2	55.0	53.5	54.6	58.1	54.2	56.4	60.8	55.5	57.2	60.8	49.8	50.8	53.4	52.0	53.1	56.8	48.6	49.4	52.2		150		
155	48.0	48.7	51.4	50.1	51.1	54.4	50.7	52.8	57.0	52.0	53.6	58.5	46.4	47.1	50.0	48.6	49.5	53.1	44.9	45.9	48.6		155		
160	44.6	45.4	47.9	46.6	47.8	51.0	47.4	49.5	53.5	48.6	50.3	55.1	43.1	43.9	46.5	45.3	46.3	49.6	41.8	42.5	45.4		160		
165	41.7	42.3	44.8	43.7	44.6	47.8	44.4	46.3	50.2	45.6	47.1	51.8	40.0	40.8	43.4	42.1	43.2	46.4	38.8	39.6	42.1		165		
170	38.7	39.5	41.7	40.7	41.7	44.8	41.3	43.5	47.1	42.8	44.2	48.7	37.2	37.9	40.4	39.3	40.2	43.5	35.9	36.6	39.2		170		
175	36.1	36.7	39.0	38.1	38.9	41.8	38.7	40.6	44.2	40.1	41.5	45.7	34.5	35.2	37.6	36.5	37.5	40.6	33.3	34.0	36.4		175		
180	33.6	34.2	36.3	35.5	36.4	39.2	36.2	38.1	41.6	37.4	38.9	43.0	32.0	32.6	35.0	34.0	34.8	37.9	30.7	31.4	33.8		180		
185	31.2	31.8	33.9	33.1	33.9	36.6	33.7	35.6	39.0	35.1	36.3	40.4	29.6	30.3	32.4	31.6	32.5	35.3	28.4	29.0	31.3		185		
190	29.0	29.6	31.5	30.8	31.6	34.3	31.5	33.2	36.5	32.8	34.1	38.0	27.4	28.0	30.2	29.3	30.1	32.9	26.1	26.8	29.0		190		
195	26.9	27.3	29.4	28.6	29.4	32.0	29.2	31.1	34.3	30.6	31.9	35.7	25.3	25.9	27.9	27.2	28.0	30.7	24.1	24.6	26.8		195		
200	24.9	25.4	27.2	26.7	27.3	29.8	27.3	28.9	32.0	28.6	29.7	33.4	23.4	23.8	25.8	25.1	25.9	28.4	22.2	22.8	24.7		200		
205	23.0	23.4	25.3	24.7	25.4	27.8	25.3	27.0	30.0	26.6	27.8	31.4	21.6	22.1	23.8	23.3	24.0	26.5	20.5	20.9	22.8		205		
210	21.4	21.8	23.4	23.0	23.5	25.8	23.6	25.1	28.0	24.8	25.9	29.4	20.0	20.4	22.1	21.5	22.3	24.5	19.0	19.4	21.0		210		
215	19.9	20.2	21.8	21.4	22.0	24.0	21.9	23.4	26.1	23.1	24.2	27.5	18.6	19.0	20.5	20.1	20.6	22.8	17.5	17.9	19.5		215		
220	18.5	18.9	20.2	19.9	20.4	22.3	20.4	21.8	24.3	21.5	22.5	25.7	17.2	17.5	19.0	18.7	19.2	21.2	16.1	16.5	18.0		220		
225	17.2	17.5	18.9	18.6	19.1	20.9	19.1	20.3	22.7	20.2	21.0	23.9	15.9	16.2	17.6	17.3	17.8	19.7	14.8	15.2	16.7		225		
230	16.0	16.3	17.5	17.3	17.8	19.5	17.7	19.0	21.2	18.9	19.7	22.5	14.6	14.9	16.3	16.0	16.5	18.3	13.6	13.9	15.4		230		
235	14.8	15.0	16.3	16.1	16.5	18.2	16.6	17.7	19.8	17.7	18.4	21.0	13.4	13.8	15.1	14.8	15.3	17.0	12.4	12.7	14.1		235		
240	13.6	13.9	15.1	14.9	15.3	16.9	15.4	16.6	18.6	16.5	17.3	19.7	12.2	12.6	13.9	13.7	14.1	15.8	11.1	11.5	12.9		240		
245	12.5	12.8	14.0	13.8	14.2	15.8	14.3	15.4	17.3	15.4	16.1	18.5	11.0	11.4	12.7	12.5	13.0	14.6	9.8	10.2	11.7		245		
250	11.2	11.6	12.8	12.8	13.1	14.6	13.2	14.3	16.2	14.3	15.0	17.3	9.7	10.1	11.5	11.5	11.9	13.5	8.5	8.9	10.5		250		
255	10.1	10.4	11.7	11.7	12.1	13.5	12.2	13.3	15.1	13.3	13.9	16.2	8.4	8.8	10.3	10.4	10.8	12.4	7.2	7.6	9.3		255		
260	8.9	9.2	10.5	10.6	11.1	12.5	11.2	12.3	14.0	12.3	12.9	15.1	7.2	7.6	9.1	9.2	9.7	11.3	6.1	6.4	7.9		260		
265	7.7	8.1	9.3	9.5	9.9	11.5	10.2	11.3	13.0	11.3	12.0	14.1	6.1	6.5	7.8	8.0	8.5	10.2			6.7		265		
270	6.6	6.9	8.2	8.3	8.7	10.4	9.1	10.3	12.0	10.4	11.0	13.1			6.7	6.8	7.3	9.0					270		
275	5.6	5.9	7.0	7.3	7.7	9.2	8.1	9.2	11.0	9.5	10.1	12.1			5.6	5.7	6.2	7.8					275		
280			6.0	6.2	6.6	8.1	7.0	8.2	10.1	8.5	9.2	11.2						6.7					280		
285					5.6	7.1	6.0	7.1	9.1	7.5	8.3	10.3						5.6					285		
290						6.0		6.1	8.0	6.5	7.2	9.4											290		
295									6.9	5.6	6.2	8.5											295		
300									5.9			7.5											300		
305												6.5											305		

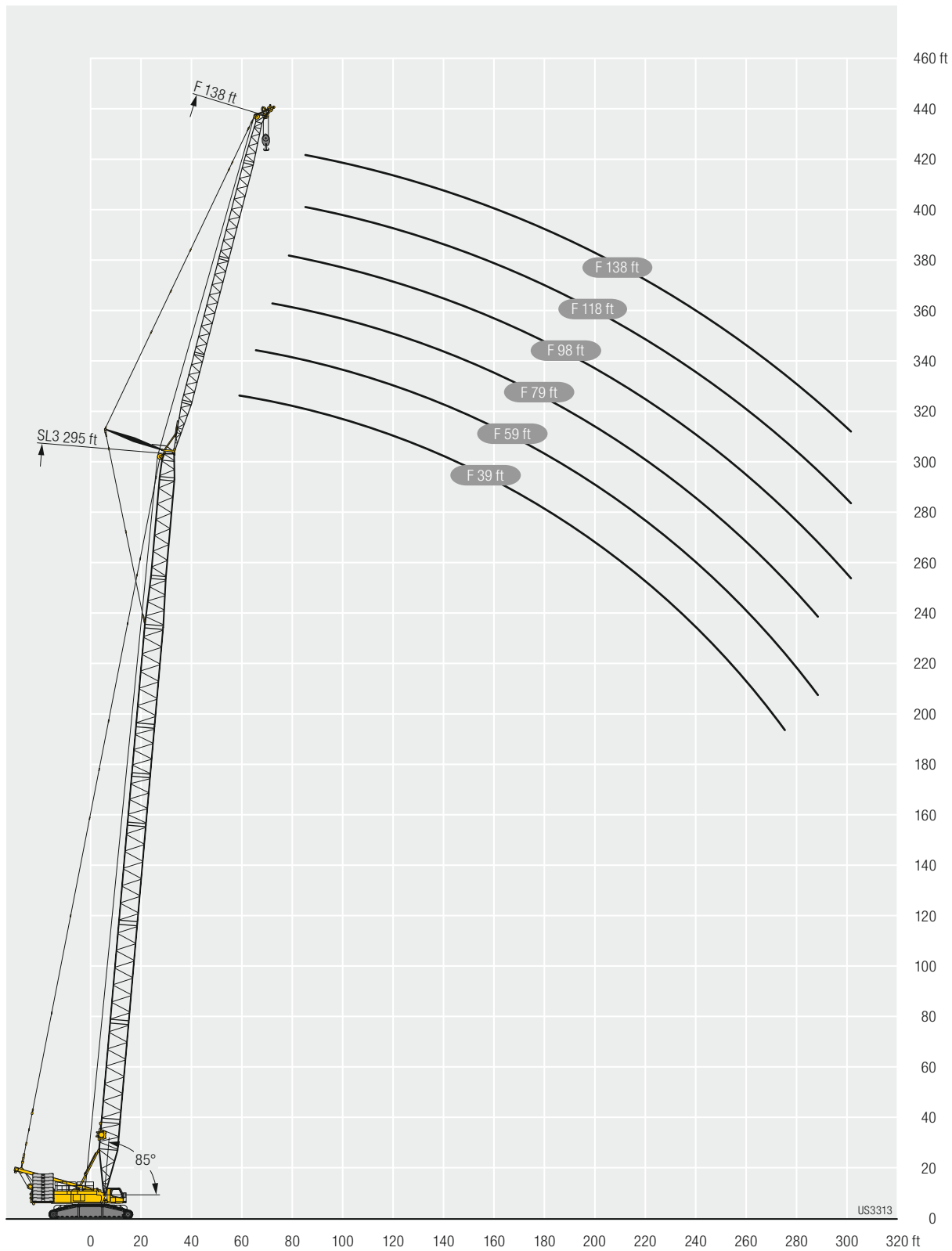
Lifting heights Hauteurs de levage

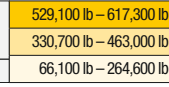
SL3F



Lifting heights Hauteurs de levage

SL3F





 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°
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	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
	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
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	62.4	63.5	63.4	64.8	63.8	65.4	62.9	57.4
	B	144.0	130.0	107.0	97.2	87.3	79.9	75.8	69.6	61.9	56.4	148.0	133.0	109.0	99.3	89.2	81.4	76.3	69.9	63.0	57.5
160	-	58.0	58.3	59.3	60.2	60.2	61.4	61.1	62.5	60.2	54.9	57.2	58.1	59.1	60.2	60.2	61.4	60.6	62.1	61.3	55.8
	B	141.0	127.0	104.0	95.3	85.3	78.2	73.8	67.9	60.2	54.9	144.0	130.0	107.0	97.3	87.1	79.6	74.4	68.2	61.4	55.9
165	-	55.0	55.3	56.3	57.2	57.2	58.3	58.1	59.4	58.4	53.4	54.2	55.0	56.0	57.0	57.1	58.3	57.4	59.0	59.4	54.3
	B	138.0	125.0	102.0	93.5	83.4	76.6	71.9	66.4	58.7	53.4	141.0	128.0	104.0	95.3	85.2	78.0	72.5	66.7	59.8	54.3
170	-	52.2	52.5	53.4	54.3	54.3	55.4	55.2	56.5	56.4	52.0	51.4	52.1	53.1	54.1	54.1	55.4	54.6	56.0	56.5	52.8
	B	135.0	123.0	99.9	91.8	81.4	75.0	70.1	64.9	57.3	td										



286,600 lb –
374,800 lb

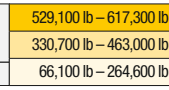


529,100 lb – 617,300 lb

330,700 lb – 463,000 lb

66,100 lb – 264,600 lb

ft	B	SL4 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°	15°	15°
200	-			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	-					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	-					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	-					35.0	35.7	35.9	36.8	36.8	37.9					34.5	35.3	35.0	36.0	36.5	36.5
	-					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	-						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	-							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	-							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	-								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	-									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	-									27.9	29.0								27.0	27.5	27.6
	-									42.1	36.9								49.8	42.9	37.7
250	-									26.7	27.7									26.2	26.3
	-									41.4	36.2									42.3	37.0
255	-										26.5									25.0	25.1
	-										35.5									41.6	36.4
260	-										25.3									23.8	23.9
	-										34.9									41.0	35.7
265	-										24.2										22.8
	-										34.3										35.1
270	-										23.1										21.8
	-										33.7										34.5
275	-										22.1										20.9
	-										33.2										33.9
280	-																				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°	15°	15°
40	-	271.0										271.0									
	B	271.0										271.0									
45	-	271.0	260.0									271.0	261.0								
	B	271.0	260.0									271.0	261.0								
50	-	267.0	249.0									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	129.0	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	88.9	80.2	73.7	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	88.9	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	79.5	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	89.8	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	59.3	60.3	61.4	61.3	62.6	62.2	63.9	62.9	58.2	58.1	59.0	60.2	61.3	61.2	62.8	62.3	63.4	63.9	59.0
	B	152.0	136.0	112.0	101.0	90.8	82.7	78.6	71.9	63.9	58.3	155.0	138.0	114.0	103.0	92.6	83.9	80.0	71.9	64.8	59.1
160	-	55.6	56.1	57.1	58.1	58.0	59.4	59.0	60.5	60.4	56.7	54.8	55.7	56.8	58.0	58.0	59.4	59.0	60.1	60.6	57.3
	B	149.0	133.0	109.0	99.1	88.7	81.0	76.5	70.2	62.2	56.7	152.0	136.0	112.0	101.0	90.4	82.1	78.0	70.3	63.2	57.5
165	-	52.6	53.0	54.0	55.0	55.0	56.2	56.0	57.5	57.3	55.2	51.8	52.7	53.8	54.9	54.8	56.3	55.9	56.9	57.4	55.8
	B	146.0	131.0	107.0	97.2	86.8	79.3	74.7	68.6	60.8	55.2	149.0	133.0	109.0	99.1	88.3	80.4	76.0	68.8	61.7	56.0
170	-	49.8	50.2	51.2	52.2	52.2	53.4	53.1	54.5	54.4	53.7	48.9	49.8	50.9	51.9	52.0	53.3	53.0	54.0	54.5	54.2
	B	143.0	128.0	105.0	95.3	84.9	77.7	72.9	67.1	59.3	53.8	146.0	131.0	107.0	97.3	86.4	78.8	74.3	67.4	60.2	54.6
175	-	47.2	47.5	48.5	49.5	49.4	50.6	50.4	51.8	51.7	52.3	46.3	47.1	48.1	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 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°	15°	15°
200	-		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
	B		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
205	-			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
	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
210	-			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
	B			90.4	84.1	72.3	67.5	61.3	57.4	49.9	44.4			92.3	85.6	73.8	68.7	62.6	57.6	50.8	45.3
215	-			32.0	32.6	32.8	33.6	33.8	34.8	34.8	35.9			31.4	32.1	32.3	33.2	33.3	33.9	34.5	34.5
	B			89.0	83.1	71.0	66.5	60.1	56.4	48.9	43.5			90.9	84.6	72.5	67.6	61.4	56.6	49.8	44.4
220	-					31.2	31.9	32.1	33.1	33.1	34.2			29.7	30.4	30.6	31.5	31.7	32.3	32.8	32.8
	B					69.8	65.5	58.9	55.5	48.0	42.6			89.6	83.6	71.3	66.7	60.2	55.7	48.8	43.4
225	-					29.6	30.4	30.6	31.5	31.6	32.6			28.8	29.0	29.9	30.1	30.7	31.2	31.2	31.2
	B					68.7	64.6	57.9	54.6	47.1	41.7				82.7	70.1	65.7	59.1	54.8	47.9	42.5
230	-					28.2	28.9	29.1	30.0	30.1	31.1					27.5	28.4	28.6	29.1	29.7	29.7
	B					67.7	63.8	56.9	53.7	46.2	40.9					69.1	64.9	58.0	53.9	47.1	41.6
235	-						27.4	27.7	28.5	28.6	29.7					26.1	26.9	27.1	27.6	28.2	28.2
	B						63.0	55.9	52.9	45.4	40.0					68.1	64.1	57.1	53.1	46.2	40.8
240	-							26.3	27.2	27.2	28.3					24.8	25.5	25.7	26.2	26.8	26.8
	B							55.0	52.1	44.6	39.2					67.1	63.3	56.1	52.3	45.5	40.0
245	-							25.0	25.8	25.9	26.9							24.4	24.9	25.5	25.5
	B							54.1	51.4	43.9	38.5							55.2	51.6	44.7	39.3
250	-							23.8	24.6	24.6	25.7							23.2	23.6	24.1	24.2
	B							53.3	50.7	43.1	37.7							54.2	50.9	44.0	38.5
255	-									23.4	24.4							22.1	22.4	22.9	23.0
	B									42.5	37.0							53.4	50.2	43.3	37.8
260	-									22.3	23.3								21.4	21.8	22.0
	B									41.8	36.3								49.6	42.6	37.2
265	-									21.3	22.2									20.8	20.9
	B									41.2	35.7									42.0	36.5
270	-										21.3									19.9	20.0
	B										35.1									41.4	35.9
275	-										20.4									19.0	19.2
	B										34.6									40.8	35.3
280	-										19.5										18.3
	B										34.0										34.7
285	-										18.7										17.5
	B										33.5										34.2
290	-																				16.7
	B										33.0										33.7
295	-																				
	B																				33.2



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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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	135.0	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	98.9	89.0	85.8	77.7	69.2	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	59.9	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	58.3	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	54.2	53.7	54.9	55.5	55.0
	B	153.0	136.0	112.0	101.0	90.0	81.8	77.5	70.9	62.7	56.8	155.0	138.0	114.0	102.0	91.5	82.9	78.8	70.9	63.6	57.7
170	-	47.5	47.9	48.9	50.0	49.9	51.3	50.9	52.6	52.5	53.6	46.5	47.5	48.5	49.8	49.8	51.2	50.9	51.9	52.5	52.3
	B	150.0	134.0	109.0	99.0	88.0	80.2	75.7	69.4	61.2	55.4	152.0	136.0	111.0	101.0	89.5	81.3	77.0	69.4	62.1	56.2
175	-	44.8	45.2	46.2	47.3	47.3	48.5	48.3	49.8	49.7	50.9	43.8	44.7	45.9	47.1	47.0	48.5	48.1	49.2	49.8	49.5
	B	147.0	131.0	107.0	97.3	86.2	78.7	74.0	67.9	59.8	54.1	149.0	134.0	109.0	98.8	87.6	79.8	75.3	67.9	60.7	54.8
180	-	42.3	42.7	43.7	44.8	44.7	46.0	45.7	47.3	47.2	48.4	41.3	42								



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 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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	29.7	30.4	30.6	31.5	31.6	32.8	32.8	33.9	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	25.8	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			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					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					67.6	63.7	56.5	52.5	45.5	40.1
255	-							20.7	21.4	21.5	22.4					19.3	19.9	20.2	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	19.2	19.6	20.1	20.1
	B							53.7	51.1	43.4	38.0							54.8	51.1	44.1	38.7
265	-							18.8	19.5	19.6	20.4							18.2	18.6	19.1	19.2
	B							52.9	50.5	42.7	37.3							54.0	50.5	43.5	38.0
270	-									18.7	19.5							17.3	17.7	18.2	18.3
	B									42.1	36.7							53.2	49.9	42.8	37.4
275	-									17.8	18.6								16.8	17.3	17.4
	B									41.5	36.1								49.3	42.2	36.8
280	-									16.9	17.8									16.4	16.6
	B									40.9	35.5									41.7	36.2
285	-									16.1	17.0									15.6	15.7
	B									40.4	34.9									41.1	35.6
290	-										16.2									14.8	15.0
	B										34.4									40.6	35.0
295	-										15.4										14.2
	B										33.8										34.5
300	-										14.7										13.4
	B										33.3										34.0
305	-																				12.7
	B										32.9										33.5
310	-																				33.1
	B																				
315	-																				32.7
	B																				



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 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°
45	-	268.0										266.0									
	B	270.0										266.0									
50	-	250.0	251.0									267.0	253.0								
	B	271.0	253.0									267.0	253.0								
55	-	226.0	229.0	216.0								262.0	244.0	216.0							
	B	271.0	244.0	216.0								269.0	245.0	216.0							
60	-	206.0	208.0	205.0	174.0	171.0		152.0				246.0	237.0	208.0	174.0	171.0					
	B	271.0	236.0	208.0	174.0	171.0		152.0				269.0	237.0	208.0	174.0	172.0					
65	-	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			
	B	270.0	229.0	200.0	168.0	165.0	140.0	147.0				268.0	230.0	201.0	169.0	165.0	140.0	146.0			
70	-	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		
	B	267.0	221.0	193.0	163.0	159.0	135.0	141.0	118.0			267.0	223.0	194.0	164.0	159.0	136.0	141.0	119.0		
75	-	160.0	162.0	160.0	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
	B	261.0	215.0	187.0	158.0	153.0	131.0	136.0	116.0	107.0	93.8	263.0	216.0	188.0	159.0	154.0	132.0	136.0	115.0	107.0	93.6
80	-	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
	B	252.0	208.0	180.0	154.0	148.0	127.0	131.0	113.0	103.0	91.7	255.0	210.0	182.0	154.0	149.0	128.0	131.0	112.0	103.0	91.5
85	-	138.0	139.0	138.0	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
	B	244.0	203.0	175.0	149.0	143.0	124.0	126.0	110.0	99.7	89.5	246.0	204.0	176.0	150.0	144.0	124.0	127.0	108.0	100.0	89.5
90	-	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
	B	236.0	197.0	169.0	145.0	138.0	120.0	122.0	106.0	96.5	87.2	239.0	199.0	171.0	146.0	139.0	121.0	123.0	105.0	96.8	87.3
95	-	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
	B	229.0	192.0	164.0	141.0	134.0	117.0	118.0	103.0	93.6	84.8	232.0	194.0	166.0	143.0	135.0	117.0	119.0	102.0	93.9	85.1
100	-	112.0	113.0	113.0	115.0	113.0	113.0	113.0	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
	B	222.0	187.0	159.0	138.0	130.0	113.0	114.0	100.0	90.8	82.2	225.0	189.0	161.0	139.0	131.0	114.0	115.0	99.6	91.2	82.6
105	-	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
	B	215.0	182.0	155.0	134.0	126.0	110.0	111.0	97.5	88.0	79.6	218.0	184.0	156.0	136.0	128.0	111.0	112.0	96.7	88.6	80.1
110	-	97.3	98.3	99.2	101.0	99.9	102.0	99.9	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
	B	209.0	177.0	150.0	131.0	123.0	108.0	107.0	94.9	85.5	77.1	212.0	180.0	152.0	132.0	124.0	109.0	108.0	94.2	86.0	77.5
115	-	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
	B	203.0	173.0	146.0	128.0	119.0	105.0	104.0	92.3	83.0	75.1	206.0	176.0	148.0	129.0	121.0	106.0	105.0	91.8	83.6	75.5
120	-	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
	B	197.0	169.0	142.0	125.0	116.0	102.0	101.0	90.0	80.7	73.4	201.0	171.0	144.0	126.0	117.0	103.0	102.0	89.5	81.4	73.8
125	-	79.1	80.0	81.1	82.6	82.1	84.2	83.1	85.5	78.5	71.6	99.4	100.0	101.0	103.0	103.0	101.0	99.3	87.3	79.1	72.1
	B	192.0	165.0	139.0	122.0	113.0	99.9	98.3	87.7	78.5	71.6	195.0	168.0	140.0	123.0	114.0	101.0	99.4	87.3	79.3	72.1
130	-	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
	B	187.0	161.0	135.0	119.0	110.0	97.7	95.5	85.5	76.5	69.9	191.0	164.0	137.0	121.0	111.0	98.7	96.7	85.2	77.2	70.5
135	-	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
	B	183.0	158.0	132.0	117.0	107.0	95.4	92.9	83.4	74.5	68.2	186.0	160.0	134.0	118.0	108.0	96.3	94.1	83.1	75.3	68.8
140	-	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
	B	178.0	155.0	129.0	114.0	104.0	93.3	90.4	81.4	72.7	66.4	182.0	157.0	131.0	116.0	106.0	94.2	91.6	81.2	73.4	67.0
145	-	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
	B	174.0	151.0	126.0	112.0	102.0	91.2	88.1	79.4	70.9	64.7	177.0	154.0	128.0	113.0	103.0	92.3	89.3	79.2	71.6	65.3
150	-	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
	B	170.0	148.0	123.0	110.0	99.3	89.3	85.9	77.6	69.1	63.0	173.0	151.0	125.0	111.0	101.0	90.4	87.1	77.3	69.9	63.7
155	-	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
	B	166.0	146.0	120.0	108.0	97.0	87.4	83.8	75.9	67.4	61.3	170.0	148.0	122.0	109.0	98.4	88.6	85.0	75.7	68.1	62.0
160	-	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
	B	163.0	143.0	118.0	106.0	94.8	85.7	81.8	74.3	65.8	59.8	166.0	146.0	120.0	107.0	96.3	86.8	83.0	74.0	66.5	60.5
165	-	47.7	48.2	49.3	50.6	50.5	51.9	51.6	53.3	53.2	54.5	62.2	62.8	64.0	65.4	65.1	66.9	66.3	67.7	65.0	58.9
	B	159.0	141.0	116.0	104.0	92.8	84.0	79.9	72.7	64.3	58.3	163.0	143.0	117.0	105.0	94.2	85.2	81.1	72.5	65.0	59.0
170	-	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
	B	156.0	138.0	113.0	102.0	90.9	82.4	78.0	71.3	62.8	56.8	160.0	141.0	115.0	104.0	92.3	83.6	79.3	71.0	63.5	57.6
175	-	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
	B	153.0	136.0	111.0	100.0	89.1	80.9	76.3	69.8	61.4	55.5	156.0	138.0	113.0	102.0	90.4	82.1	77.4	69.6	62.2	56.2
180	-	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	

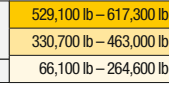


286,600 lb –
374,800 lb



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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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	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	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	17.7	18.6					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	16.8	17.7						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	15.9	16.8							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	15.1	16.0							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



		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°	15°	15°
45	-	258.0																			
	B	258.0																			
50	-	259.0	252.0									256.0	252.0								
	B	259.0	253.0									256.0	252.0								
55	-	256.0	245.0	213.0								250.0	245.0	211.0							
	B	261.0	245.0	213.0								256.0	245.0	211.0							
60	-	234.0	235.0	207.0	174.0	158.0						233.0	235.0	206.0	174.0	170.0					
	B	262.0	237.0	207.0	174.0	158.0						257.0	238.0	206.0	174.0	170.0					
65	-	220.0	221.0	201.0	169.0	158.0	139.0	144.0				219.0	216.0	201.0	169.0	165.0		143.0			
	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		143.0			
70	-	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			
	B	263.0	224.0	194.0	164.0	157.0	135.0	140.0	119.0			259.0	225.0	195.0	164.0	159.0	136.0	140.0			
75	-	187.0	189.0	186.0	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
	B	262.0	217.0	188.0	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
80	-	174.0	176.0	174.0	155.0	150.0	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
	B	256.0	211.0	182.0	155.0	151.0	128.0	131.0	113.0	103.0	90.6	256.0	213.0	183.0	156.0	150.0	128.0	132.0	113.0	103.0	90.2
85	-	162.0	164.0	162.0	151.0	146.0	124.0	127.0	110.0	99.7	88.9	161.0	163.0	162.0	151.0	145.0	125.0	127.0	110.0	99.9	88.5
	B	248.0	206.0	177.0	151.0	146.0	124.0	127.0	110.0	99.8	88.9	250.0	207.0	178.0	152.0	145.0	125.0	127.0	110.0	99.9	88.6
90	-	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
	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
95	-	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
	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
100	-	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
	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
105	-	125.0	126.0	126.0	128.0	127.0	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
	B	220.0	186.0	158.0	136.0	130.0	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
110	-	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
	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
115	-	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
	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
120	-	103.0	104.0	105.0	107.0	107.0	104.0	103.0	91.3	81.8	73.9	103.0	104.0	105.0	107.0	106.0	105.0	104.0	91.8	82.3	74.2
	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	104.0	91.9	82.3	74.2
125	-	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	89.6	80.2	72.6
	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	89.7	80.2	72.6
130	-	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
	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
135	-	85.1	86.0	87.2	88.8	89.0	90.3	89.3	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
	B	188.0	162.0	135.0	119.0	111.0	97.3	95.0	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
140	-	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	74.5	67.9
	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
145	-	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
	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
150	-	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
	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
155	-	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
	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
160	-	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
	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	76.8	67.8	61.7
165	-	60.0	60.5	61.7	63.1	63.6	64.5	64.1	66.0	64.6	59.4	59.5	60.2	61.4	62.9	62.7	64.5	64.0	66.0	65.5	60.2
	B	166.0	145.0	119.0	106.0	96.4	86.0	82.0	74.4	65.7	59.5	168.0	147.0	120.0	108.0	96.7	87.0	83.1	75.2	66.3	60.2
170	-	56.7	57.3	58.4	59.7	60.2	61.3	60.7	62.7	62.2	58.1	56.2	56.7	58.0	59.5	59.3	61.1	60.5	62.6	62.4	58.6
	B	162.0	143.0	117.0	105.0	94.4	84.5	80.2	72.9	64.2	58.1	165.0	145.0	118.0	106.0	94.7	85.3	81.3	73.7	64.9	58.8
175	-	53.7	54.1	55.3	56.6	57.1	58.0	57.6	59.4	59.4	56.7	53.1	53.7	54.9	56.3	56.1	57.9	57.4	59.4	59.2	57.1
	B	159.0	140.0	114.0	103.0	92.6	82.9	78.5	71.4	62.9	56.8	162.0	143.0	116.0	104.0	92.9	83.8	79.6	72.3	63.5	57.5
180	-	50.7	51.2	52.4	53.6	54.1	55.1	54.6	56.5	56.4	55.2	50.2	50.7	51.9							



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°	15°	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	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	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	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	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	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	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	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	43.5
250	-			24.5	25.3	26.0	26.4	26.6	27.8	27.8	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
	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	25.1	26.0			21.2	21.8	22.0	23.0	23.2	24.4	24.5	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	24.7			20.1	20.7	20.9	21.8	21.9	23.1	23.2	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
	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
	B					67.4	62.9	55.3	52.3	44.4	38.6					67.8	63.7	56.3	53.0	45.0	39.3
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
	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					17.0	17.7	17.9	18.8	18.9	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	14.0
	B									40.1	34.3									40.7	34.9
320	-										14.5									13.1	13.3
	B										33.9									40.2	34.4
325	-										13.8										12.6
	B										33.4										34.0
330	-										13.1										11.9
	B										33.0										33.6
335	-																				11.1
	B																				33.1



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 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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	87.3	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	64.1
160	-	61.5	62.2	63.3	64.7	65.3	66.3	65.7	67.8	67.5	62.0	61.1	61.7	62.9	64.7	64.3	66.4	65.7	67.9	67.5	62.5
	B	174.0	152.0	124.0	111.0	101.0	89.4	85.8	77.5	68.4	62.1	176.0	153.0	126.0	112.0	101.0	90.3	86.6	78.1	69.1	62.7
165	-	58.0	58.6	59.7	61.3	61.7	62.8	62.1	64.3	64.0	60.6	57.6	58.2	59.5	61.0	60.8	62.7	62.1	64.3	64.1	61.1
	B	171.0	149.0	122.0	109.0	98.8	87.8	83.8	75.9	66.8	60.7	173.0	151.0	123.0	110.0	98.7	88.7	84.8	76.6	67.5	61.2
170	-	54.8	55.4	56.5	57.9	58.4	59.4	58.9	60.8	60.8	59.2	54.3	54.8	56.0	57.7	57.4	59.4	58.7	61.0	60.7	59.4
	B	167.0	147.0	120.0	107.0	96.9	86.1	82.1	74.4	65.4	59.3	170.0	149.0	121.0	108.0	96.8	87.1	83.0	75.1	66.0	59.8
175	-	51.7	52.2	53.4	54.8	55.3	56.3	55.7	57.8	57.7	57.3	51.2	51.8	53.0	54.4	54.3	56.1	55.6	57.6	57.6	57.2
	B	164.0	144.0	117.0	105.0	95.0	84.7	80.3	73.0	64.1	57.9	167.0	146.0	119.0	106.0	95.0	85.6	81.3	73.7	64.7	58.5
180	-	48.8	49.4	50.5	51.8	52.4	53.3	52.9	54.8	54.6	55.1	48.2	48.7	50.0	51.6	51.3	53.1	52.5	54.7	54.6	54.4
	B	162.0	142.0	115.0	104.0	93.2	83.3	78.7	71.6	62.8	56.7	164.0	144.0	117.0	105.0	93.2	84.2	79.6	72.4	63.4	57.2
185	-	46.1	46.6	47.7	49.1	49.6	50.5	50.1	52.0	51.9	52.9	45.5	46.0	47.3	48.6	48.5	50.3	49			



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 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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	18.9			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																				33.0



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 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°		
50	-	231.0										226.0										
	B	231.0										226.0										
55	-	231.0	230.0									227.0	224.0									
	B	232.0	230.0									227.0	224.0									
60	-	225.0	222.0	192.0								219.0	220.0	188.0								
	B	233.0	231.0	192.0								227.0	225.0	188.0								
65	-	207.0	209.0	193.0	168.0	157.0						206.0	204.0	189.0	167.0	157.0						
	B	233.0	229.0	193.0	168.0	157.0						228.0	225.0	189.0	167.0	157.0						
70	-	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				
	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				
75	-	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			
	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			
80	-	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	
	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	
85	-	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	
	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	
90	-	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	
	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	
95	-	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	
	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	
100	-	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	
	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	
105	-	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	
	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	-	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	
	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	
115	-	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	
	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	
120	-	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	
	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	
125	-	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	
	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	
130	-	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	
	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	
135	-	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	
	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	
140	-	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	
	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	
145	-	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	
	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	
150	-	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	
	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	
155	-	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	
	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	
160	-	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	
	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	
165	-	55.9	56.5	57.7	58.7	59.1	60.4	59.7	61.8	61.7	61.4	55.4	56.2	57.5	58.5	59.0	60.3	59.5	61.8	61.7	60.9	
	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	
170	-	52.6	53.3	54.5	55.4	55.9	57.0	56.3	58.6	58.4	59.2	52.2	52.8	54.2	55.1	55.7	56.8	56.2	58.4	58.3	58.0	
	B	173.0	151.0	123.0	109.0	98.8	87.7	83.7	75.6	66.6	60.3	175.0	153.0	125.0	110.0	99.9	88.6	84.7	76.3	67.2	60.8	
175	-	49.6	50.1	51.3	52.3	52.7	53.9	53.3	55.4	55.3	56.3	49.1	49.7	51.1	51.9	52.5	53.7	52.9	55.4	55.1	54.8	
	B	170.0	149.0	121.0	107.0	96.9	86.3	82.0	74.3	65.3	58.9	172.0	151.0	123.0	108.0	98.0	87.1	82.9	74.9	65.9	59.5	
180	-	46.7	47.3	48.5	49.3	49.9	50.8	50.4	52.4	52.4	53.4	46.2	46.7	48.0	49.0	49.5	50.7	50.1	52.3	52.2	51.9	
	B	167.0	147.0	119.0	106.0	95.2	84.8	80.4	72.9	64.0	57.7	169.0	148.0	121.0	107.0	96.2	85.7	81.3	73.6	64.6	58.2	
185	-	44.0	44.4	45.7	46.5	47.0	48.1	47.6	49.6	49.5	50.7	43.4	44.0	45.3	46.1	46.8	47.8	47.3	49.5	49.4	49.1	
	B	164.0	145.0	117.0	104.0	93.5	83.5	78.8	71.6	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

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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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
	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
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	33.2
	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
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
	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
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
	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
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
	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
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
	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
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
	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
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
	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
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
	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
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
	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
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
	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
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
	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
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
	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
280	-			14.5	14.8	15.4	15.8	15.9	16.9	17.0	17.8	12.1	12.3	13.7	14.0	14.7	15.1	15.2	16.4	16.5	16.6
	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	68.2	63.4	55.7	52.6	44.5	38.6			88.8	82.4	69.1	64.0	56.6	53.2	45.1	39.1
300	-					11.8	12.1	12.4	13.3	13.4	14.2			9.4	9.7	10.8	11.2	11.7	12.7	12.8	13.0
	B					67.5	62.9	55.0	52.0	43.9	38.1			88.0	81.7	68.4	63.4	55.9	52.7	44.5	38.5
305	-					10.9	11.2	11.6	12.5	12.6	13.4					9.8	10.2	10.7	11.9	12.0	12.1
	B					66.8	62.4	54.4	51.5	43.4	37.5					67.7	62.9	55.3	52.1	44.0	38.0
310	-					9.9	10.3	10.8	11.7	11.8	12.6					8.8	9.2	9.7	10.9	11.2	11.3
	B					66.1	61.9	53.7	51.0	42.8	37.0					67.0	62.4	54.6	51.6	43.4	37.4
315	-							9.9	10.9	11.0	11.8					7.8	8.2	8.8	9.9	10.3	10.6
	B							53.1	50.5	42.3	36.5					66.3	61.8	54.0	51.0	42.9	37.0
320	-							9.0	10.0	10.3	11.1						7.3	7.9	9.0	9.4	9.8
	B							52.5	50.0	41.8	36.1						61.4	53.4	50.6	42.4	36.5
325	-							8.1	9.1	9.5	10.3							7.0	8.1	8.5	9.0
	B							52.0	49.6	41.4	35.6							52.8	50.1	42.0	36.0
330	-								8.2	8.7	9.5							6.1	7.2	7.6	8.1
	B								49.1	40.9	35.1							52.2	49.6	41.5	35.6
335	-									7.8	8.6								6.3	6.7	7.3
	B									40.4	34.7							51.6	49.2	41.1	35.1
340	-									6.9	7.8									5.9	6.4
	B									40.0	34.2									40.6	34.7
345	-									6.1	7.0										5.6
	B									39.6	33.8									40.2	34.2
350	-										6.3										
	B										33.4										
355	-																				
	B										33.1									39.4	33.5
360	-																				
	B										32.7										33.2
365	-																				
	B																				32.8
370	-																				
	B																				32.5



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 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°
50	-	215.0																			
	B	215.0																			
55	-	216.0	213.0										211.0	208.0							
	B	216.0	213.0										211.0	208.0							
60	-	213.0	211.0	179.0									211.0	207.0	175.0						
	B	216.0	213.0	179.0									211.0	207.0	175.0						
65	-	200.0	198.0	180.0	158.0	150.0							200.0	197.0	175.0	157.0	147.0				
	B	216.0	213.0	180.0	158.0	150.0							211.0	207.0	175.0	157.0	147.0				
70	-	185.0	187.0	179.0	158.0	149.0		126.0					184.0	186.0	175.0	156.0	146.0		124.0		
	B	216.0	212.0	180.0	158.0	150.0		126.0					211.0	206.0	175.0	157.0	147.0		124.0		
75	-	171.0	173.0	172.0	158.0	150.0	130.0	126.0					171.0	172.0	171.0	156.0	147.0	128.0	123.0		
	B	216.0	211.0	179.0	158.0	150.0	130.0	126.0					211.0	205.0	175.0	156.0	147.0	128.0	123.0		
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	85.1	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	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	92.8	83.0	73.3	66.0	182.0	166.0	136.0	119.0	110.0	96.5	93.5	83.4	73.7	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	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	70.8	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	67.6	61.1	172.0	155.0	127.0	112.0	102.0	89.8	85.8	77.5	68.1	61.5
175	-	47.3	47.9	49.2	50.8	50.6	51.7	51.1	53.3	53.2	54.2	46.7	47.5	48.8	49.9	50.3	51.6	50.9	53.2	53.1	52.5
	B	166.0	151.0	124.0	110.0	98.8	87.6	83.4	75.4	66.3	59.8	170.0	153.0	125.0	110.0	99.6	88.3	84.2	76.0	66.8	60.3
180	-	44.4	45.1	46.3	47.9	47.7	48.8	48.1	50.4	50.2	51.3	43.9	44.6	45.9	46.7	47.5	48.5	47.9	50.3	50.1	49.8
	B	164.0	149.0	121.0	109.0	97.0	86.2	81.8	74.0	65.0	58.5	167.0	151.0	123.0	108.0	97.9	86.8	82.5	74.7	65.5	59.0
185	-	41.7	42.3	43.5	45.1	44.9	46.0	45.5	47.5	47.5	48.4	41.1	41.8	43.1	44.1	44.6	45.8	45.1	47.5	47.3	47.0
	B	161.0	146.0	11																	



286,600 lb -
374,800 lb

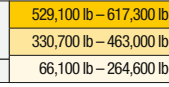


529,100 lb - 617,300 lb
330,700 lb - 463,000 lb

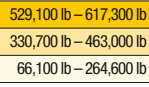


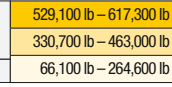
66,100 lb - 264,600 lb

ft		SL4 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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	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
	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	26.3	28.1	28.1	29.1	22.3	22.6	23.9	24.5	25.3	26.0	25.9	27.7	27.7	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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	7.1	7.3	8.6	9.0	10.1	10.6	10.8	12.0	12.1	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
	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
305	-			7.8	8.6	9.1	9.6	9.9	10.9	11.0	11.7				6.6	7.0	8.0	8.5	9.0	10.3	10.4
	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
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
	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
315	-					7.3	7.6	8.1	9.2	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
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
325	-						5.8	6.3	7.4	7.9	8.6								6.4	6.8	7.2
	B					65.5	61.3	53.0	50.3	42.2	36.2							66.2	61.8	53.8	51.0
330	-								6.5	7.0	7.8								5.5	5.9	6.3
	B								52.5	49.9	41.7							65.6	61.4	53.2	50.5
335	-									5.7	6.1										
	B								52.0	49.5	41.3							61.0	52.7	50.1	41.9
340	-										6.2										
	B								51.5	49.1	40.9								52.1	49.6	41.4
345	-																				
	B								50.5	48.7	40.5								51.6	49.2	41.0
350	-																				
	B								49.7		40.1								51.2	48.8	40.6
355	-																				
	B										39.7										40.2
360	-																				
	B										39.3										39.8
365	-																				
	B										38.9										39.5
370	-																				
	B										38.6										39.1
375	-																				
	B																				38.7
380	-																				
	B																				32.4
385	-																				
	B																				32.1
390	-																				
	B																				31.7



		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°	15°	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	90.8	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	78.6	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	66.5	65.3	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
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
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	52.1	53.8	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
	B	156.0	153.0	125.0	112.0	100.0	90.2	86.0	76.5	67.1	60.5	158.0	153.0	126.0	113.0	101.0	89.4	86.8	76.9	67.5	60.8
180	-	41.5	43.0	43.5	45.3	45.0	47.1	46.5	47.9	47.7	48.5	41.9	42.6	43.2	45.1	44.7	46.1	46.3	47.7	47.5	47.7
	B	153.0	150.0	123.0	110.0	98.5	88.7	84.4	75.2	65.8	59.3	154.0	150.0	124.0	111.0	99.2	88.0	85.2	75.6	66.2	59.9
185	-	38.9	40.2	40.9	42.5	42.4	44.3	43.7	45.2	45.0	45.9	39.1	39.8	40.3	42.2	42.0	43.2	43.5	45.0	44.9	45.3
	B	149.0	147.0	121.0	109.0	96.8	87.3	82.8	73.9	64.6	58.1	150.0	148.0	122.0	110.0	97.6	86.6	83.6	74.3	65.0	59.0
190	-	36.3	37.7	38.2	39.9	39.7															

SL4 335 - 345LR 1500 101



		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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°
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	173.0	148.0							
	B	182.0	179.0	152.0								177.0	173.0	148.0							
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						177.0	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	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	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	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	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	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	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	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	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	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	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	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	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	92.1	93.5	94.2	96.1	94.1	97.6	94.2	93.0	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	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	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	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	81.2	82.4	83.3	85.0	83.0	86.3	83.3	85.8	80.7	68.9
	B	172.0	164.0	140.0	130.0	119.0	107.0	103.0	91.7	81.2	69.5	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	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	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	71.6	72.8	73.7	75.2	73.5	76.5	73.9	76.2	74.7	67.3
	B	167.0	161.0	137.0	127.0	116.0	104.0	101.0	88.6	78.3	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	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	162.0	156.0	133.0	125.0	113.0	102.0	98.9	87.1	76.9	66.4
145	-	64.0	65.1	65.9	67.2	65.7	68.4	66.3	68.3	67.1	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	85.5	75.5	65.8	159.0	154.0	132.0	124.0	112.0	101.0	97.6	85.7	75.5	65.4
150	-	60.1	61.1	62.0	63.3	61.9	64.5	62.5	64.5	63.4	64.6	59.5	60.5	61.4	62.7	61.3	64.1	62.0	64.1	62.9	62.3
	B	158.0	154.0	132.0	122.0	111.0	98.9	95.8	84.0	74.2	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	57.2	58.4	59.6	58.4	60.9	59.1	61.0	59.9	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	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	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
	B	153.0	149.0	127.0	118.0	107.0	95.8	92.2	81.3	71.5	63.0	151.0	147.0	126.0	119.0	107.0	96.3	92.6	81.7	71.7	62.8
165	-	49.2	50.0	51.5	52.5	51.9	54.3	52.7	54.5	53.6	55.0	48.8	49.8	51.1	52.3	51.2	53.8	52.1	54.0	53.0	53.1
	B	150.0	146.0	125.0	116.0	105.0	94.2	90.5	79.9	70.2	62.2	149.0	145.0	124.0	117.0	106.0	94.8	90.9	80.3	70.5	62.0
170	-	46.1	46.8	48.2	49.3	48.8	51.0	49.8	51.5	50.6	52.1	45.6	46.3	48.0	49.0	48.3	50.8	49.2	51.0	50.1	50.2
	B	145.0	143.0	123.0	115.0	103.0	92.7	88.8	78.5	68.9	61.3	145.0	143.0	122.0	115.0	104.0	93.2	89.2	79.0	69.3	61.1
175	-	42.9	43.7	45.0	46.2	45.9	47.9	47.0	48.6	47.9	49.3	42.6	43.4	44.9	46.0	45.4	47.8	46.4	48.1	47.3	47.5
	B	142.0	140.0	122.0	113.0	101.0	91.1	87.0	77.2	67.7	60.4	142.0	139.0	120.0	114.0	102.0	91.6	87.5	77.7	68.1	60.3
180	-	40.2	40.8	42.3	43.2	43.0	45.1	44.3	45.8	45.3	46.8	39.6	40.4	41.9	42.9	42.7	44.8	43.8	45.5	44.7	44.9
	B	140.0	136.0	120.0	111.0	99.4	89.7	85.2	75.9	66.5	59.5	140.0	136.0	118.0	112.0	100.0	90.0	85.8	76.3	66.9	59.4
185	-	37.4	38.1	39.5	40.5	40.1	42.3	41.7	43.1	42.8	44.3	37.0	37.6	39.2	40.1	39.9	42.1	41.3	42.8	42.2	42.5
	B	138.0	134.0	119.0	110.0	97.6	88.3	83.7	74.7	65.2	58.6	138.0	135.0	117.0	110.0	98.4	88.8	84.3	75.0	65.7	58.6
190	-	34.9	35.5	36.9	37.8	37.7	39.6	39.1	40.5	40.3	42.0	34.4									

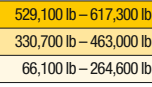


286,600 lb –
374,800 lb



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

	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°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°				
245	-	15.4	15.7	16.9	17.4	17.4	18.7	18.6	19.4	19.5	21.0	14.7	15.1	16.3	16.8	16.8	18.2	18.1	19.0	19.0	19.9			
	B	114.0	112.0	96.8	92.1	81.3	75.1	69.0	62.4	53.7	48.9	115.0	113.0	98.4	94.1	82.5	75.9	69.9	63.3	54.4	49.3			
250	-	14.2	14.5	15.6	16.1	16.1	17.5	17.3	18.2	18.2	19.8	13.5	13.9	15.1	15.6	15.6	17.0	16.9	17.7	17.8	18.6			
	B	113.0	111.0	95.0	91.1	80.1	74.2	68.0	61.6	52.9	48.1	114.0	112.0	97.3	92.6	81.3	75.0	68.9	62.5	53.6	48.6			
255	-	13.0	13.4	14.5	14.9	15.0	16.2	16.2	16.9	17.0	18.6	12.3	12.7	13.8	14.4	14.4	15.8	15.6	16.5	16.5	17.4			
	B	112.0	110.0	93.8	90.0	79.1	73.3	67.0	60.8	52.2	47.3	112.0	111.0	96.3	91.7	80.2	74.1	67.9	61.7	52.9	47.9			
260	-	12.0	12.3	13.3	13.8	13.9	15.1	15.0	15.8	15.9	17.4	11.1	11.5	12.7	13.2	13.2	14.6	14.5	15.3	15.4	16.2			
	B	111.0	109.0	92.7	88.9	78.1	72.5	66.1	60.0	51.5	46.6	110.0	109.0	95.2	90.8	79.2	73.3	66.9	60.9	52.2	47.2			
265	-	10.9	11.2	12.3	12.7	12.8	14.0	14.0	14.7	14.7	16.3	9.8	10.2	11.6	12.1	12.1	13.5	13.4	14.2	14.3	15.1			
	B	110.0	108.0	91.7	87.7	77.2	71.8	65.2	59.3	50.7	45.9	109.0	108.0	94.0	89.9	78.3	72.5	66.0	60.1	51.4	46.4			
270	-	9.8	10.1	11.3	11.7	11.7	12.9	12.9	13.6	13.7	15.2	8.5	8.9	10.4	11.0	10.9	12.4	12.3	13.1	13.2	14.0			
	B	108.0	107.0	90.9	85.9	76.2	71.0	64.3	58.6	50.1	45.2	107.0	106.0	92.4	89.0	77.3	71.7	65.1	59.4	50.7	45.8			
275	-	8.6	9.0	10.2	10.6	10.7	11.9	11.9	12.6	12.7	14.2	7.3	7.6	9.2	9.7	9.7	11.3	11.2	12.0	12.1	12.9			
	B	106.0	105.0	90.0	85.2	75.2	70.2	63.4	58.0	49.4	44.5	105.0	104.0	91.5	87.8	76.4	70.9	64.3	58.7	50.0	45.2			
280	-			9.1	9.6	9.6	10.9	10.9	11.6	11.7	13.2	6.1	6.4		8.5	8.5	10.1	10.1	11.0	10.9	11.9			
	B	104.0	103.0	89.1	84.5	74.4	69.3	62.6	57.3	48.7	43.9	102.0	102.0	90.7	86.9	75.5	70.1	63.5	58.0	49.3	44.5			
285	-			8.0	8.5	8.4	9.9	9.9	10.6	10.6	12.3				7.4	8.9	9.0	9.9			10.8			
	B	101.0	101.0	88.1	83.8	73.6	68.7	61.7	56.7	48.1	43.2	99.9	100.0	90.0	86.4	74.5	69.3	62.7	57.3	48.6	43.9			
290	-			6.9	7.4		8.8	8.9	9.6	9.6	11.3				6.2	7.8	7.8	8.7			9.8			
	B	98.4	98.6	87.5	83.1	72.8	68.1	60.9	56.0	47.6	42.6	97.5	97.8	89.3	85.8	73.7	68.6	61.8	56.7	48.1	43.3			
295	-				6.3		7.8	7.9	8.6	8.6	10.3					6.7	6.7	7.6						
	B	95.8	96.2	87.0	82.8	72.0	67.4	60.2	55.4	47.0	42.1	95.0	95.4	88.4	85.4	72.8	68.0	61.0	56.0	47.5	42.7			
300	-						6.8		7.6	7.6	9.4						5.6	6.4						
	B	93.3	93.8	86.5	82.4	71.1	66.8	59.4	54.8	46.4	41.5	92.6	93.0	87.6	84.9	72.1	67.4	60.3	55.3	46.9	42.1			
305	-						5.7		6.6	6.6	8.4													
	B	90.9	91.4	86.0	82.1	69.9	66.1	58.8	54.2	45.8	40.9	90.2	90.6	86.8	84.5	71.4	66.8	59.6	54.8	46.3	41.5			
310	-									5.6	7.4													
	B	88.5	89.0	85.4	81.8	69.3	65.6	58.1	53.7	45.3	40.4	87.8	88.3	86.0	84.1	70.7	66.1	58.9	54.2	45.8	41.0			
315	-										6.4													
	B	85.9	86.5	84.6	81.3	68.7	65.0	57.4	53.2	44.8	39.8	85.4	86.0	85.0	83.7	70.0	65.5	58.2	53.7	45.2	40.4			
320	-																							
	B	83.0	83.6	83.1	80.0	68.1	64.5	56.8	52.6	44.3	39.3	83.1	83.6	83.9	83.1	69.3	65.0	57.6	53.2	44.7	39.9			
325	-																							
	B			81.7	78.5	67.6	64.0	56.1	52.1	43.8	38.9	80.5	81.1	81.5	81.7	68.7	64.6	56.9	52.6	44.3	39.4			
330	-																							
	B			80.2	76.9	67.1	63.5	55.5	51.6	43.3	38.4	77.6	78.3	78.7	79.0	68.1	64.1	56.2	52.1	43.8	38.9			
335	-																							
	B			78.2	75.4	66.6	63.0	54.9	51.2	42.8	37.9			76.0	76.3	67.5	63.7	55.7	51.7	43.3	38.5			
340	-																							
	B			75.9	73.6	66.0	62.5	54.4	50.7	42.3	37.5			73.2	73.6	66.9	63.2	55.1	51.2	42.9	38.0			
345	-																							
	B					65.5	62.1	53.8	50.3	41.9	37.0			71.0	71.3	66.3	62.7	54.6	50.8	42.5	37.6			
350	-																							
	B					65.0	61.7	53.3	49.9	41.5	36.6				69.2	65.8	62.3	54.0	50.4	42.0	37.1			
355	-																							
	B					64.3	61.3	52.8	49.5	41.1	36.2					65.2	61.8	53.5	50.0	41.7	36.7			
360	-																							
	B					60.9	52.4	49.1	40.7	35.8						64.4	61.3	53.1	49.6	41.3	36.3			
365	-																							
	B						51.9	48.8	40.3	35.4						63.4	60.9	52.7	49.2	40.9	35.9			
370	-																							
	B						51.5	48.5	40.0	35.0								52.2	48.9	40.5	35.5			
375	-																							
	B						51.0	48.2	39.6	34.6								51.8	48.5	40.1	35.1			
380	-																							
	B						50.6		39.3	34.3								51.3	48.2	39.8	34.7			
385	-																							
	B								39.0	33.9									47.9	39.4	34.3			
390	-																							
	B								38.7	33.6										39.1	34.0			
395	-																							
	B								38.3	33.3										38.8	33.7			
400	-																							
	B								38.1	33.0										38.5	33.4			
405	-																							
	B									32.7										38.1	33.1			
410	-																							
	B									32.4										37.7	32.8			
415	-																							
	B									32.1											32.5			
420	-																							
	B																				32.2			
425	-																							
	B																				32.0			



		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°	15°	15°
60	-	178.0	158.0									173.0									
	B	178.0	158.0									173.0									
65	-	177.0	158.0	149.0								173.0	168.0	145.0							
	B	178.0	158.0	149.0								173.0	169.0	145.0							
70	-	167.0	158.0	149.0	136.0	126.0						166.0	166.0	145.0	133.0	123.0					
	B	178.0	158.0	149.0	137.0	126.0						173.0	168.0	145.0	133.0	123.0					
75	-	154.0	155.0	149.0	136.0	126.0		109.0				153.0	156.0	145.0	133.0	123.0		106.0			
	B	178.0	158.0	149.0	136.0	127.0		109.0				173.0	167.0	145.0	133.0	123.0		106.0			
80	-	143.0	146.0	144.0	136.0	127.0	113.0	108.0				142.0	144.0	143.0	132.0	123.0	111.0	106.0			
	B	178.0	158.0	148.0	136.0	127.0	113.0	108.0				172.0	167.0	144.0	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
	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
90	-	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	127.0	122.0	109.0	105.0	95.8	84.9	73.0
	B	176.0	158.0	146.0	134.0	125.0	112.0	107.0	97.9	79.7	74.2	170.0	164.0	142.0	131.0	122.0	109.0	105.0	95.8	84.9	73.0
95	-	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
	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
100	-	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
	B	174.0	158.0	144.0	133.0	123.0	110.0	106.0	96.4	79.7	72.9	168.0	162.0	140.0	130.0	120.0	108.0	104.0	94.3	83.8	71.8
105	-	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
	B	173.0	158.0	142.0	132.0	122.0	109.0	105.0	95.5	79.7	72.2	167.0	161.0	139.0	129.0	119.0	107.0	103.0	93.5	83.3	71.1
110	-	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
	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
115	-	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
	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
120	-	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
	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
125	-	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
	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
130	-	71.7	74.1	74.0	75.6	73.8	76.9	74.1	76.6	76.3	68.4	71.0	72.3	73.4	75.1	73.2	76.5	73.7	76.3	74.7	67.7
	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
135	-	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
	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
140	-	63.0	65.2	65.0	66.6	65.0	67.9	65.6	67.9	67.8	66.1	62.1	63.4	64.5	66.0	64.4	67.5	65.1	67.4	66.2	65.7
	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
145	-	59.0	61.2	61.1	62.5	61.1	63.9	61.7	63.9	63.9	63.6	58.2	59.3	60.4	61.9	60.4	63.5	61.2	63.5	62.2	62.0
	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	101.0	96.7	86.1	76.0	65.3
150	-	55.2	57.4	57.3	58.7	57.3	60.1	58.1	60.2	60.2	60.5	54.5	55.5	56.6	58.1	56.6	59.6	57.5	59.7	58.6	58.4
	B	157.0	153.0	131.0	124.0	111.0	99.8	96.6	84.8	76.2	64.9	154.0	151.0	128.0	121.0	109.0	99.7	95.6	84.8	74.7	64.5
155	-	51.8	53.8	53.7	55.1	53.8	56.5	54.6	56.7	56.8	57.0	50.9	52.0	53.1	54.4	53.2	56.0	54.1	56.2	55.2	55.1
	B	154.0	151.0	129.0	122.0	110.0	98.4	94.9	83.4	75.0	64.0	152.0	149.0	127.0	121.0	108.0	98.4	94.4	83.6	73.5	63.7
160	-	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
	B	152.0	149.0	127.0	120.0	108.0	96.9	93.2	82.1	73.7	63.2	150.0	146.0	125.0	119.0	107.0	97.1	93.1	82.3	72.3	62.9
165	-	45.3	47.2	47.3	48.5	47.5	50.1	48.4	50.3	50.6	50.9	44.5	45.4	46.5	47.9	46.7	49.5	47.8	49.7	48.9	49.0
	B	150.0	146.0	125.0	118.0	107.0	95.4	91.6	80.8	72.5	62.4	148.0	144.0	123.0	118.0	105.0	95.8	91.9	81.0	71.1	62.1
170	-	42.1	43.9	44.3	45.5	44.5	47.1	45.5	47.3	47.7	48.1	41.5	42.4	43.6	44.8	43.8	46.5	44.9	46.8	46.0	46.2
	B	148.0	144.0	123.0	116.0	105.0	93.9	90.0	79.5	71.3	61.6	146.0	142.0	122.0	116.0	104.0	94.4	90.4	79.8	69.9	61.3
175	-	39.2	40.8	41.5	42.6	41.8	44.2	42.8	44.6	44.9	45.4	38.6	39.4	40.8	41.9	41.0	43.6	42.1	44.0	43.3	43.5
	B	145.0	142.0	122.0	115.0	103.0	92.4	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
180	-	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
	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
185	-	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
	B	140.0	138.0	119.0	112.0	99.6	89.6	85.1	75.7	67.9	59.0	138.0	136.0	117.0	112.0	99.6	90.1	85.7	76.1	66.6	59.0
190	-	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
	B	137.0	136.0	117.0	110.0	97.9	88.3	83.7	74.5	66.7	58.2	137.0	134.0	116.0	11						



286,600 lb -
374,800 lb

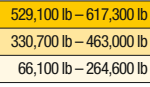


529,100 lb - 617,300 lb
330,700 lb - 463,000 lb
66,100 lb - 264,600 lb

ft		SL4 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°	15°	15°
255	B	8.9	10.3	10.9	11.6	11.5	13.3	13.1	14.1	15.0	15.8										
	B	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										
	B	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										
	B	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			9.3	10.3	11.4	12.1										
	B	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				9.1	10.2	11.0											
	B	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									9.0	9.9										
	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
285	B									7.9	8.7										
	B	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										7.6										
	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
295	B										6.5										
	B	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																				
	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
305	B																				
	B	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																				
	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
315	B																				
	B	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
320	B																				
	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
325	B																				
	B	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																				
	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
335	B																				
	B	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																				
	B			73.6	74.4	67.7	63.9	56.0	51.8	44.6	38.6	70.0	70.3	71.2	71.9	68.4	64.6	56.7	52.4	44.0	39.2
345	B																				
	B			71.0	71.7	67.0	63.4	55.4	51.4	44.1	38.1	67.9	68.2	69.4	70.0	67.7	64.1	56.1	51.9	43.5	38.7
350	B																				
	B			68.6	69.1	66.1	62.9	54.8	50.9	43.7	37.7			67.7	68.2	67.0	63.5	55.5	51.5	43.1	38.3
355	B																				
	B			66.6	67.0	65.3	62.5	54.3	50.5	43.2	37.3			65.9	66.3	65.8	63.0	55.0	51.1	42.6	37.9
360	B																				
	B					64.5	62.1	53.7	50.0	42.8	36.8			64.2	64.5	64.4	62.3	54.4	50.7	42.2	37.4
365	B																				
	B					63.5	61.6	53.3	49.6	42.4	36.4			62.7	63.0	61.5	53.8	50.3	41.8	36.9	
370	B																				
	B					62.2	60.9	52.8	49.3	42.0	36.0					61.6	60.8	53.4	49.8	41.4	36.5
375	B																				
	B					59.9	52.4	49.0	41.6	35.6						60.1	60.1	52.9	49.5	41.1	36.1
380	B																				
	B							51.9	48.7	41.3	35.3					58.6	58.8	52.5	49.2	40.7	35.7
385	B																				
	B							51.5	48.3	40.9	34.9							52.0	48.9	40.4	35.4
390	B																				
	B							51.1	48.0	40.6	34.5							51.6	48.6	40.1	35.0
395	B																				
	B									40.3	34.2							51.1	48.3	39.7	34.7
400	B																				
	B									40.0	33.9								47.9	39.4	34.3
405	B																				
	B									39.6	33.6									39.1	34.0
410	B																				
	B										33.3									38.8	33.7
415	B																				
	B										33.0									38.5	33.4
420	B																				
	B										32.7										33.1
425	B																				
	B										32.3										32.8
430	B																				
	B										32.1										32.5
435	B																				
	B																				31.3
440	B																				
	B																				30.5

SL4DFB

SL4 394 - 404



		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	
		10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°	
60	-	162.0										157.0									
	B	162.0										158.0									
65	-	162.0	157.0	136.0								157.0	152.0								
	B	162.0	157.0	136.0								157.0	152.0								
70	-	159.0	156.0	136.0	126.0							157.0	151.0	132.0							
	B	162.0	156.0	136.0	126.0							157.0	151.0	132.0							
75	-	149.0	152.0	136.0	125.0	116.0		101.0				148.0	149.0	132.0	123.0	113.0		98.2			
	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			
80	-	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			
	B	161.0	155.0	136.0	125.0	116.0	106.0	100.0				156.0	150.0	131.0	122.0	113.0	103.0	97.9			
85	-	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		
	B	160.0	154.0	135.0	125.0	116.0	105.0	100.0	92.2			155.0	149.0	130.0	122.0	113.0	102.0	97.5	90.0		
90	-	119.0	122.0	121.0	122.0	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	
	B	158.0	153.0	134.0	124.0	115.0	104.0	99.5	91.6	79.7	70.0	153.0	148.0	129.0	121.0	112.0	102.0	97.0	89.4	79.1	
95	-	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	
	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	
100	-	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	
	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	
105	-	96.0	98.9	98.4	100.0	98.9	101.0	96.6	89.5	79.4	68.5	95.5	98.4	97.9	100.0	98.5	100.0	94.8	87.6	77.7	
	B	155.0	150.0	130.0	122.0	112.0	102.0	97.6	89.5	79.4	68.5	150.0	145.0	126.0	119.0	109.0	100.0	95.2	87.6	77.7	
110	-	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	
	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	
115	-	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	
	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	
120	-	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	
	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	
125	-	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	
	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	
130	-	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	
	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	
135	-	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	
	B	145.0	143.0	123.0	117.0	106.0	97.6	93.3	84.9	76.3	64.9	142.0	138.0	120.0	114.0	103.0	95.8	91.1	83.4	74.7	
140	-	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	
	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	
145	-	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	
	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	
150	-	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	
	B	140.0	137.0	120.0	114.0	103.0	95.3	90.8	83.1	74.4	62.9	137.0	135.0	118.0	111.0	101.0	94.1	89.1	81.6	73.3	
155	-	48.7	50.6	50.6	51.9	51.7	53.4	51.5	53.6	53.7	53.9	47.8	49.9	49.8	51.2	51.1	52.9	50.8	53.0	53.3	
	B	139.0	136.0	119.0	113.0	102.0	94.7	89.8	82.3	73.8	62.2	135.0	133.0	116.0	111.0	99.9	93.3	88.3	81.0	72.8	
160	-	45.4	47.3	47.3	48.6	48.5	50.1	48.3	50.3	50.6	50.8	44.5	46.6	46.5	47.9	47.9	49.6	47.7	49.8	50.1	
	B	137.0	134.0	117.0	112.0	101.0	94.1	88.9	81.3	73.1	61.6	134.0	131.0	115.0	110.0	99.3	92.5	87.4	80.4	72.3	
165	-	42.3	44.2	44.2	45.5	45.4	47.1	45.4	47.3	47.5	47.9	41.4	43.4	43.4	44.8	44.8	46.5	44.7	46.7	47.1	
	B	135.0	131.0	115.0	110.0	99.7	93.6	88.2	80.3	72.3	60.9	132.0	129.0	113.0	108.0	98.5	92.0	86.5	79.7	71.5	
170	-	39.5	41.3	41.3	42.6	42.5	44.1	42.5	44.4	44.8	45.1	38.6	40.4	40.5	41.8	41.9	43.5	41.9	43.8	44.3	
	B	133.0	130.0	114.0	109.0	98.2	92.7	87.3	79.2	71.2	60.1	129.0	128.0	112.0	107.0	97.1	91.6	85.6	79.0	70.7	
175	-	36.7	38.5	38.5	39.8	39.8	41.3	39.8	41.7	42.1	42.5	35.8	37.8	37.8	39.0	39.2	40.7	39.2	41.1	41.6	
	B	130.0	128.0	112.0	108.0	96.8	91.4	86.2	78.4	70.1	59.4	128.0	126.0	110.0	106.0	95.8	90.5	84.6	78.3	69.8	
180	-	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	
	B	128.0	126.0	110.0	106.0	95.4	90.2	85.0	77.2	69.0	58.7	126.0	124.0	109.0	105.0	94.5	89.4	83.5	77.5	68.9	
185	-	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	
	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	93.1	88.4	82.4	76.4	68.1	
190	-	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	
	B	124.0	121.0	107.0	102.0	92.8	87.7	82.7	74.9	67.0	57.2	123.0	120.0	106.0	102.0	91.8	87.3	81.3	75.2	67.2	
195	-	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	
	B	122.0	120.0	106.0	103.0	91.7	86.3	81.6	73.8	65.9	56.5	121.0	119.0	105.0	101.0	90.6	86.2	80.3	74.1	66.2	
200	-	24.3	25.9	26.5	27.5	28.1	29.4	28.5	29.9	30.6	31.1	23.8	25.3	25.9	27.0	27.5	28.8	27.7	29.3</		

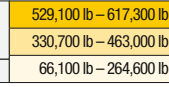


286,600 lb -
374,800 lb



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

	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			
	10°	15°	10°	15°	10°	15°	10°	15°	15°	15°	10°	15°	10°	15°	10°	15°	10°	15°	15°			
260	-	B			7.8	8.8			10.5	11.5	12.2							9.4	10.6			
265	-	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	
270	-	B			7.5	8.5	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	
275	-	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	
280	-	B			6.2	7.2	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	
285	-	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	
290	-	B			6.0	7.0	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	
295	-	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	
300	-	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	
305	-	B			5.8	6.8	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	
310	-	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	
315	-	B			5.6	6.6	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	
320	-	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	
325	-	B			5.4	6.4	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	
330	-	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	
335	-	B			5.2	6.2	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	
340	-	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	
345	-	B			5.0	6.0	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	
350	-	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	
355	-	B			4.8	5.8	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	
360	-	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	
365	-	B			4.6	5.6	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	
370	-	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	
375	-	B			4.4	5.4	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	
380	-	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	
385	-	B			4.2	5.2	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	
390	-	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	
395	-	B			4.0	5.0	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	
400	-	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	
405	-	B			3.8	4.8	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	
410	-	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	
415	-	B			3.6	4.6	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	
420	-	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	
425	-	B			3.4	4.4	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	
430	-	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	
435	-	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	
440	-	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	
445	-	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	
450	-	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	
	-	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	
	-	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	
	-	B					56.3	56.5	52.2	48.8	41.5	35.4					55.4	55.9	52.6	49.2	42.0	
	-	B						55.2	51.8	48.5	41.2	35.0					54.0	54.4	52.0	48.9	41.7	
	-	B							51.4	48.1	40.9	34.7					52.5	53.0	51.4	48.6	41.3	
	-	B							50.7	47.8	40.6	34.4							50.9	48.3	40.9	
	-	B							49.9	47.5	40.2	34.0							50.1	48.0	40.6	
	-	B									39.9	33.7							49.1	47.5	40.3	
	-	B									39.6	33.4								46.9	40.1	
	-	B									39.4	33.1									39.8	
	-	B									39.1	32.8									39.5	
	-	B										32.6									39.2	
	-	B										32.3										
	-	B										32.1										
	-	B										31.8										
	-	B										31.5										



		SL4 413								SL4 423						SL4 433				
		F 39		F 59		F 79		F 98		F 39		F 59		F 79		F 39		F 59		
		10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	
60	-	146.0								142.0										
	B	146.0								142.0										
65	-	146.0	141.0							141.0	137.0						131.0	127.0		
	B	146.0	141.0							141.0	137.0						131.0	127.0		
70	-	145.0	141.0	123.0						140.0	136.0	119.0					130.0	126.0	112.0	
	B	145.0	141.0	123.0						140.0	136.0	119.0					130.0	126.0	112.0	
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	105.0
	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	105.0
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	90.6	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	96.1	93.8	85.4	82.1		102.0	100.0	89.3	87.2
190	-	26.6	27.4	27.7	29.8	29.0	30.5	29.2	30.9	25.7	26.5	26.8	29.0	28.3	29.8		23.7	24.6	25.8	27.0
	B	110.0	109.0	96.2	94.0	85.5	82.5	77.0	72.9	109.0	107.0	94.8	92.5	84.2	81.2		101.0	99.2	88.1	85.9
195	-	24.4	25.2	25.5	27.6	26.9	28.2	27.1	28.8	23.6	24.3	24.6	26.9	26.1	27.5		21.6	22.3	23.7	24.8
	B	108.0	107.0	94.7	92.7	84.2	81.5	76.0	71.8	106.0	105.0	93.6	91.3	82.9	80.2		99.5	97.9	86.9	84.7
200	-	22.2	23.0	23.4	25.4	24.9	26.2	25.0	26.7	21.4	22.2	22.4	24.7	24.1	25.4		19.6	20.3	21.7	22.8
	B	106.0	105.0	93.4	91.3	83.0	80.4	74.9	70.8	105.0	103.0	92.3	90.2	81.9	79.1		98.0	96.6	85.7	83.7
205	-	20.3	21.0	21.4	23.4	22.9	24.2	23.2	24.7	19.4	20.1									



286,600 lb –
374,800 lb

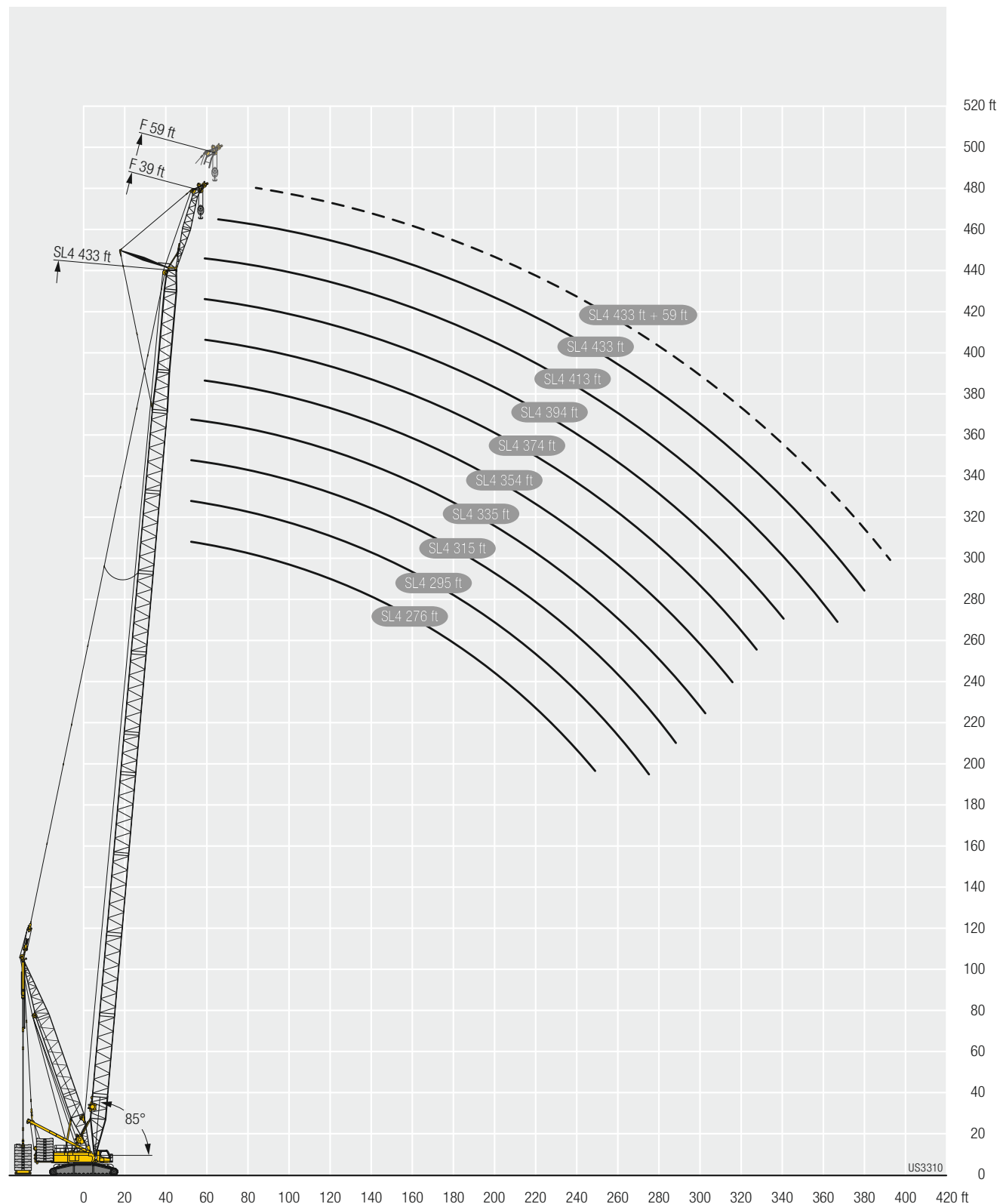


529,100 lb – 617,300 lb
330,700 lb – 463,000 lb
66,100 lb – 264,600 lb

ft	B	SL4 413								SL4 423								SL4 433			
		F 39		F 59		F 79		F 98		F 39		F 59		F 79		F 39		F 59		10°	15°
		10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°		
245	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-		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	-			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	-			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	-			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	-					51.6	51.4	47.0	46.2			51.1	51.2	51.4	51.6			49.7	50.1		
395	-					50.8	50.8	46.7	46.0			49.6	49.7	50.2	50.4			48.4	48.8		
400	-					49.7	49.9	46.4	45.8					48.9	49.2			47.1	47.4		
405	-						48.8	46.2	45.6					47.6	47.9						
410	-							46.0	45.4					46.2	46.6						
415	-							45.4	45.2						45.3						
420	-							44.8	44.5												

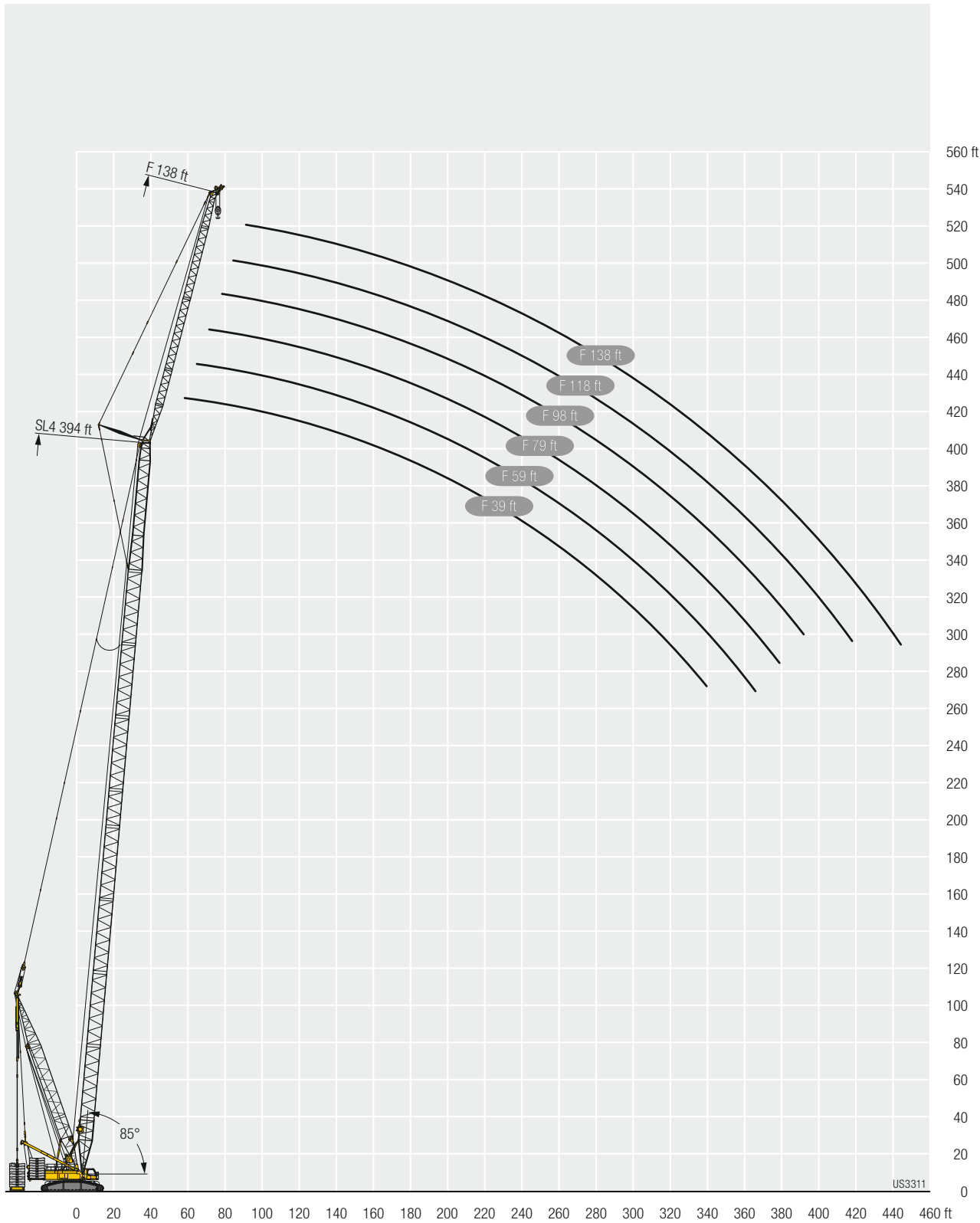
Lifting heights Hauteurs de levage

SL4DFB



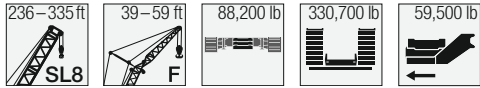
Lifting heights Hauteurs de levage

SL4DFB





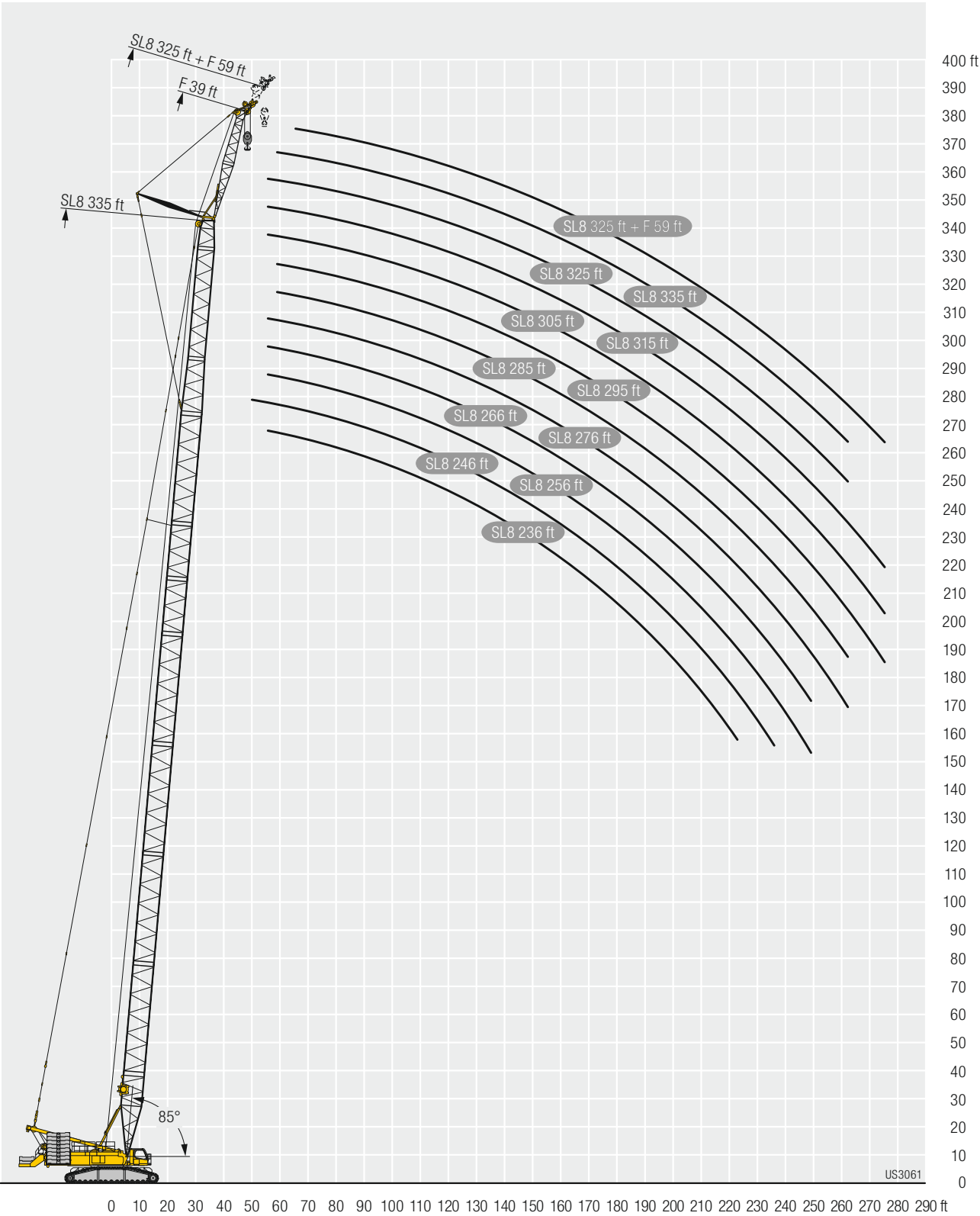
ft	SL8 236				SL8 246				SL8 256				SL8 266				SL8 276			
	F 39		F 59		F 39		F 59		F 39		F 59		F 39		F 59		F 39		F 59	
	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°	10°	15°
55	253.0				248.0	242.0			244.0				239.0							
60	231.0	233.0			226.0	229.0	206.0		223.0	225.0			219.0	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



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	171.0
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	164.0
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	154.0
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	143.0
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	132.0
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	123.0
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	115.0
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	109.0	108.0	111.0	105.0	107.0
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	100.0
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	93.5
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	87.5
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	82.0
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	76.9
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	72.1
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	67.6
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	63.3
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	59.0
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	55.1
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	51.4
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	47.8
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	44.6
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	41.4
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	38.6
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	35.9
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	33.3
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	30.9
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	28.1	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	26.5
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	24.4
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	22.6
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	20.9
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	19.4
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	17.6	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	16.3	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	15.3
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	14.1
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	12.8
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	11.5
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	10.1
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	8.5	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	7.3	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	6.1	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			6.2	7.3		
285			9.1	10.0			8.6	8.9			6.9	7.4			6.8	7.7				6.2		
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	5.9														

Lifting heights Hauteurs de levage

SL8 236 - 276

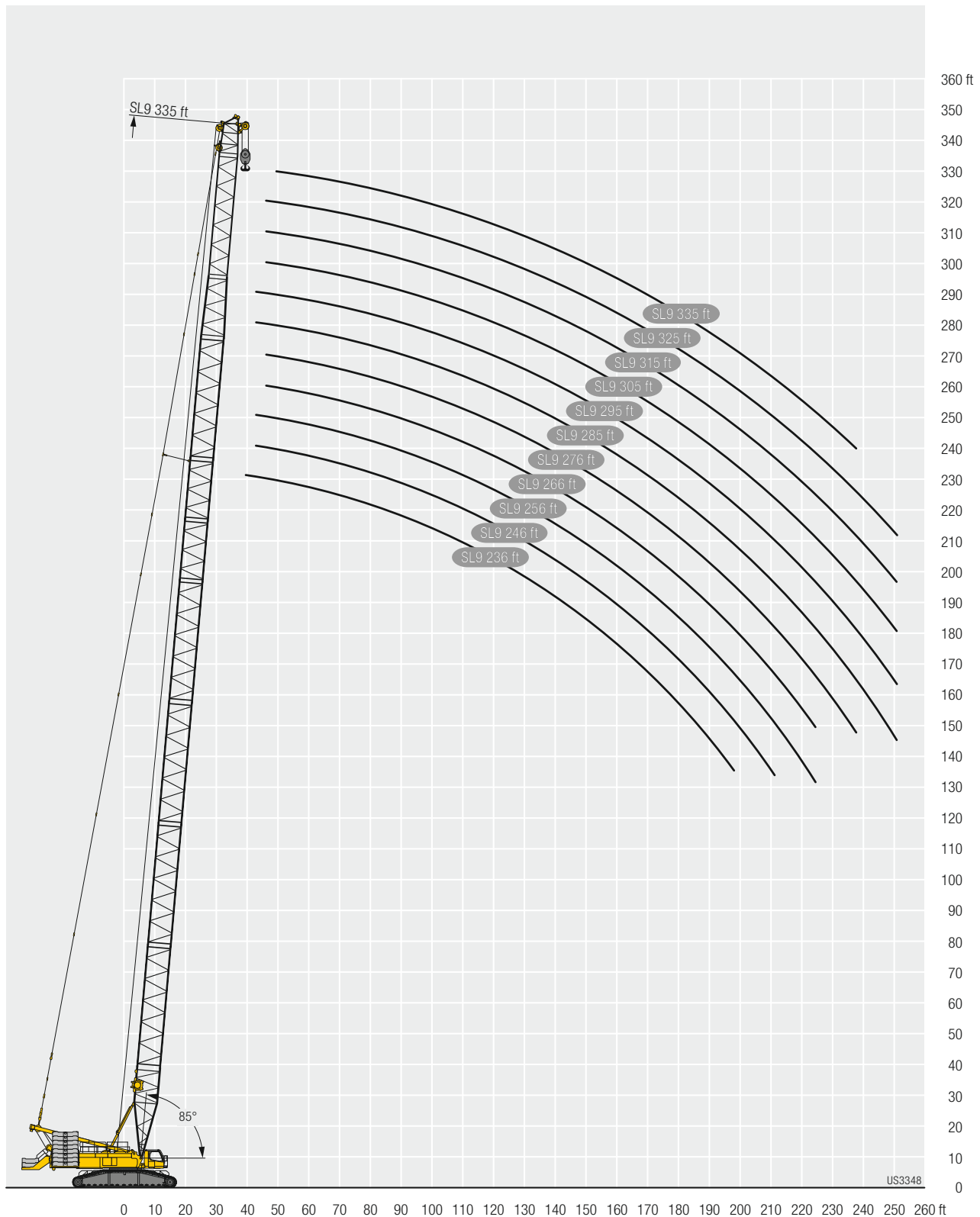




 ft	SL9 236	SL9 246	SL9 256	SL9 266	SL9 276	SL9 285	SL9 295	SL9 305	SL9 315	SL9 325	SL9 335	 ft
40	360											40
45	318	312	305	298	288	282	271	261	265			45
50	283	278	273	267	259	252	243	235	239	233	225	50
55	255	251	246	239	233	228	221	213	216	210	203	55
60	231	227	223	219	213	207	201	194	197	192	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		Slew 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(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite.
3. Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).
4. Les charges sont indiquées en 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