

Mobile crane

LTM 1200-5.1

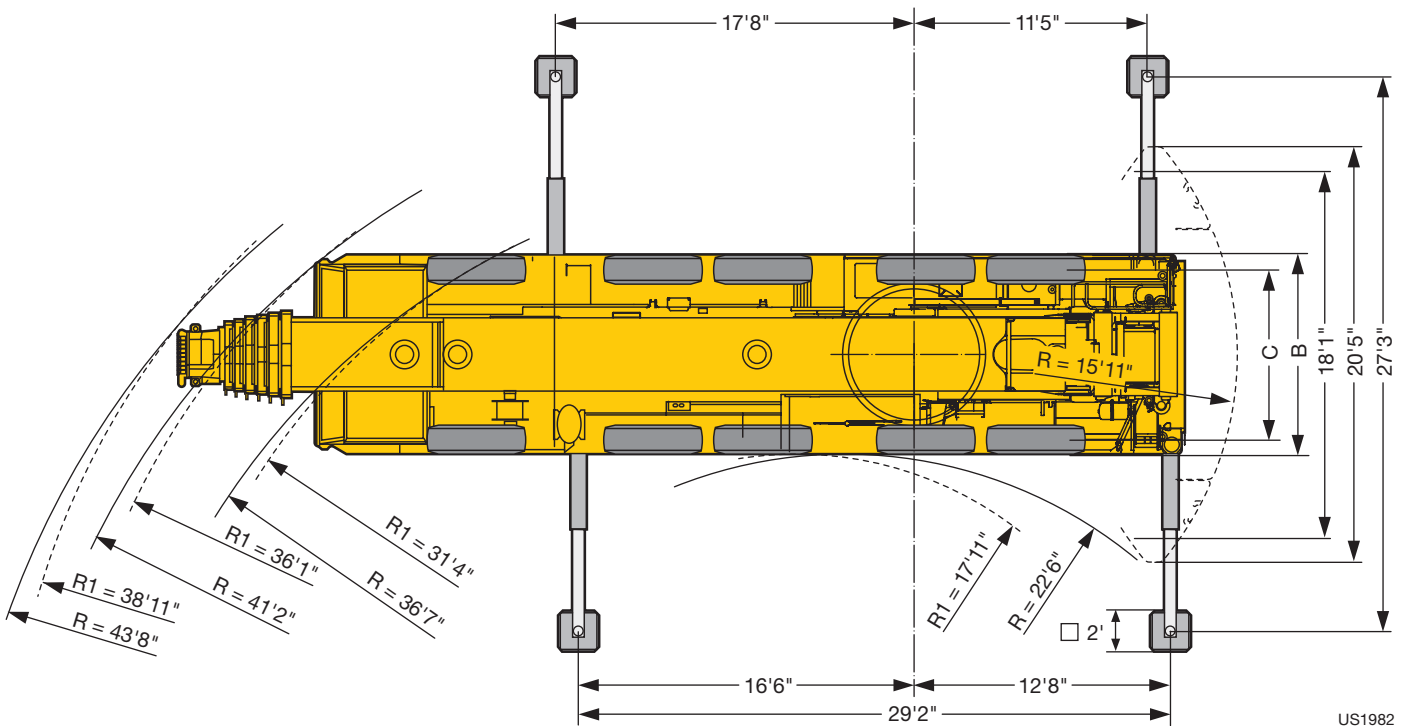
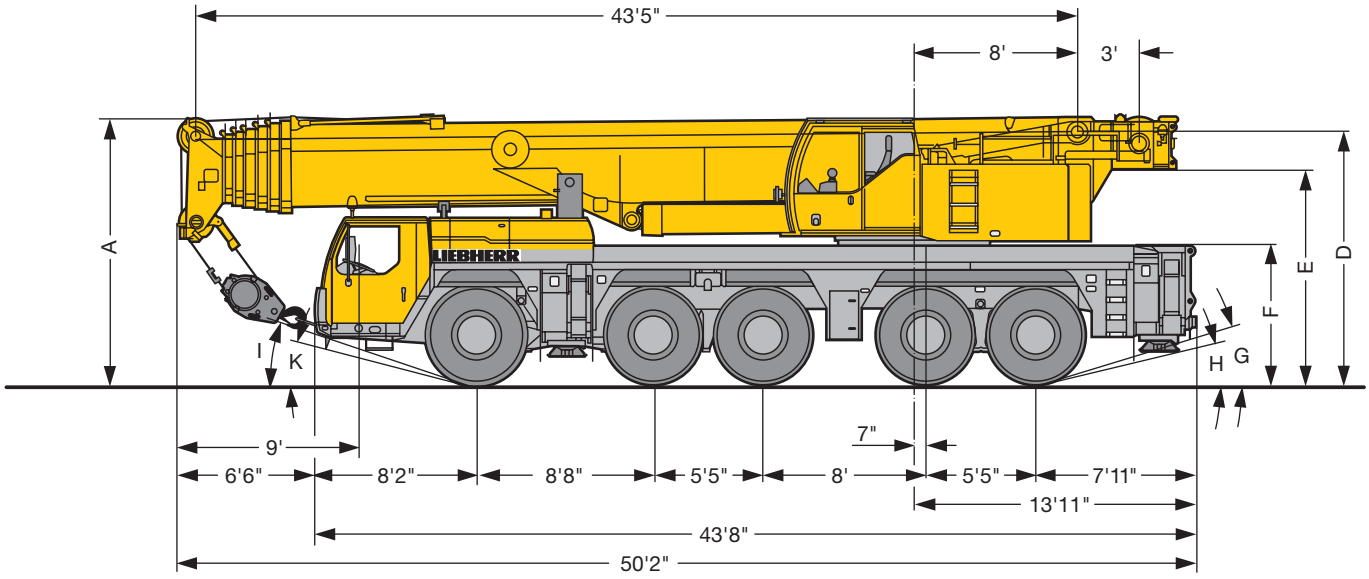
Max. Load Capacity - 235 Tons
Max. Height Under Hook - 320 Feet
Max. Working Radius - 269 Feet



LIEBHERR


Courtesy of Crane.Market

Dimensions



US1982

R_i = All-wheel steering · Direction toutes roues

Dimensions · Encombrement mm											
	A	A 6" *	B	C	D	E	F	G	H	I	K
16.00 R 25	13'1"	12'8"	9'10"	8'4"	12'4"	10'6"	6'9"	17°	14°	20°	16°
20.5 R 25	13'1"	12'8"	10'2"	8'5"	12'4"	10'6"	6'9"	17°	14°	20°	16°

* lowered · abaissé

Weights



Axle Essieu	1	2	3	4	5	Total weight lbs Poids total lbs
lbs	26400	26400	26400	26400	26400	132000



Load (kips) Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
332.9	9	16	4409
315.3	7	15	3306
238	5	11	2866
156.5	3	7	2292
69	1	3	1851
23.1	-	1	1102

Working speeds



		1	2	3	4	5	6	7	8	9	10	11	12	R 1	R 2	
16.00 R 25 20.5 R 25	mph	3,54	4,54	5,84	7,52	9,51	12,24	16,10	20,63	26,60	34,18	43,37	49,71	3,79	4,91	43 %
		1,55	1,99	2,55	3,29	4,16	5,34	7,02	9,01	11,62	14,85	18,89	24,23	1,68	2,11	55 %



Drive Mécanismes	infinitely variable en continu	Rope diameter / Rope length Diamètre du câble / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 – 427 ft/min single line ft/min au brin simple	0.8" / 920 ft	23605 lbs
	0 – 427 ft/min single line ft/min au brin simple	0.8" / 920 ft	23605 lbs
	0 – 1.3 rpm		
	approx. 50 seconds to reach 82° boom angle env. 50 s jusqu'à 82°		
	approx. 580 seconds for boom extension from 43 ft – 236 ft env. 580 s pour passer de 43 ft – 236 ft		

Equipment

Crane carrier

Frame	Self-manufactured, weight-optimized and torsion resistant box-type design of high-tensile structural steel.
Outriggers	4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Automatic levelling of crane. Electronic inclination indicator.
Engine	6-cylinder Diesel, make Liebherr, type D846 A7, watercooled, output 370 kW (503 h.p.) at 1900 min ⁻¹ , max. torque 1635 lbs-ft at 1200 – 1500 min ⁻¹ . Exhaust emissions acc. to 97/68/EG stage 3 and EPA/CARB Tier 3. Fuel reservoir: 129 gallons.
Transmission	ZF 12-speed gear box with automatic control system AS-TRONIC. ZF-intarder fitted directly to the gear. Two-stage transfer case with lockable transfer differential.
Axles	Welded design, made of high-tensile fine grained steel. All axles steerable. Axles 2, 4 and 5 are planetary axles with differential locks.
Suspension	All axles are mounted on hydropneumatic suspension – “Niveaumatik suspension” and are lockable hydraulically.
Tyres	10 tyres, size: 16.00 R 25.
Steering	ZF-servocom power steering, dual circuit system with hydraulic servo system and auxiliary pump system, driven by the axle. At road displacement, axles 3, 4 and 5 electrohydraulically speed-dependent and from 18.6 mph, axles 3 and 4 are fixed to straight displacement. From 37.3 mph, axle 5 is fixed straight. Steering according to EG directive 70/311 EWG.
Brakes	Service brake: all-wheel servo-air brake, all axles are equipped with disc brakes, dual circuit. Parking brake: Spring brake actuator, acting on the wheels of the 2 nd and 5 th axle. Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. Intarder on gear. Brakes acc. to EG directives 71/320 EWG.
Driver's cab	Spacious, steel made, corrosion resistant cab, cataphoretic dip-primed, on resilient suspension with hydraulic shock absorbers, sound and heat absorbing internal panelling acc. to EG directive, safety glazing, operating and control instruments, comfortably equipped.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each, lighting acc. to traffic regulations.

Crane superstructure

Frame	Self-manufactured, weight-optimized and torsion resistant welded design of high-tensile structural steel; linked by a triple-row roller slewing rim to the carrier for continuous rotation.
Crane engine	4-cylinder Diesel, make Liebherr, type D934S A6, watercooled, output 145 kW (197 h.p.) at 1800 min ⁻¹ , max. torque 677 lbs-ft at 1100 min ⁻¹ – 1500 min ⁻¹ . Exhaust emissions acc. to 97/68/EG stage 3 and EPA/CARB Tier 3. Fuel reservoir: 66 gallons.
Crane drive	Diesel-hydraulic, with 5 axial piston variable displacement pumps, with servo-control and capacity control, 1 double gear pump. Compact hydraulic drive flanged to the Diesel engine. Drive assembly completely enclosed for noise abatement.
Control	Electronic control by the LICCON computer system (PLC control), 2 selfcentering hand control levers (joy-stick type), with winch and slewing gear signal devices. Infinitely variable crane motions.
Hoist gear	Axial piston variable displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake. Actuation by closed regulated oil circuit.
Luffing gear	1 differential ram with nonreturn valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake.
Crane cab	All-steel construction, entirely galvanized, powder coated, with safety glazing, operating and control instruments, comfortably equipped, cab tiltable backwards.
Safety devices	LICCON safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
Telescopic boom	Buckling and torsion resistant design of high-tensile structural steel, oviform boom profile, 1 base section and 6 telescopic sections. All telescopic sections hydraulically extendable independent of one another. Rapid-cycle telescoping system “Telematik”. Boom length: 43 ft – 236 ft.
Counterweight	159000 lbs
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Additional equipment

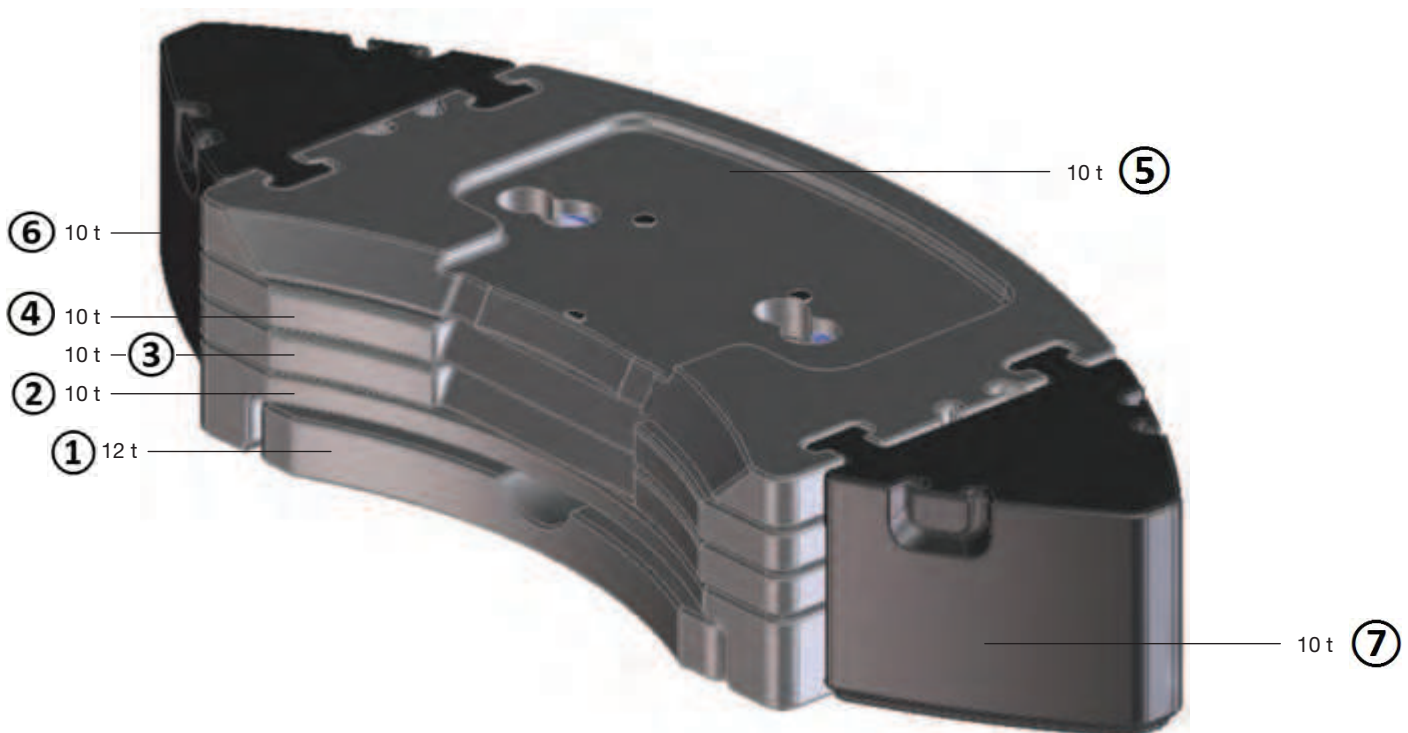
Swing-away jib	40 ft – 118 ft long, mountable to the telescopic boom at 0°, 22,5° or 45°, integrated erection jib of 18 ft. Hydraulic ram for operating the swing-away jib from 0° – 45° (option).
Telescopic boom extension	23 ft long lattice section, thus 23 ft higher pinning point for swing-away jib.
2nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Tyres	10 tyres, size 20.5 R 25.
Drive 10 x 8	Additional drive of the 1 st axle.

Other items of equipment available on request.

Counter Weights

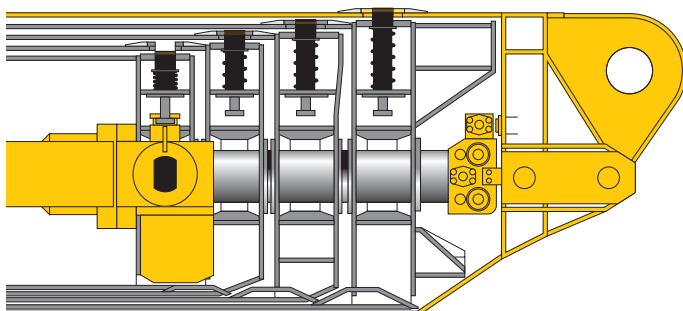
— Configurations —

		①	②	③	④	⑤	⑥	⑦
12 t	26,500 lbs	●						
22 t	48,500 lbs	●	●					
32 t	70,600 lbs	●	●	●				
42 t	92,600 lbs	●	●	●	●			
52 t	114,600 lbs	●	●	●	●	●		
72 t	158,700 lbs	●	●	●	●	●	●	●

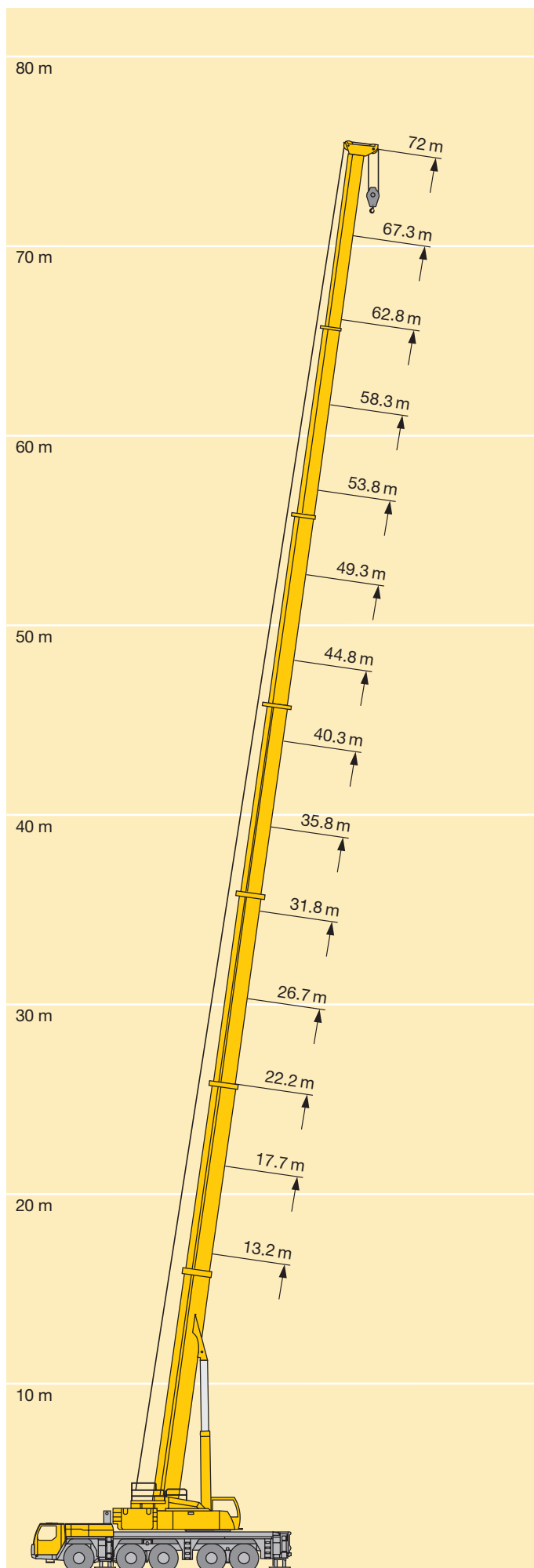
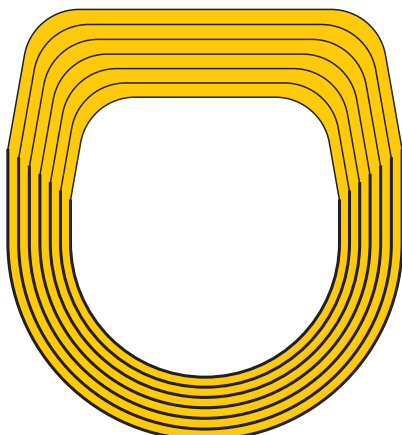


Lifting of loads - precise and safe

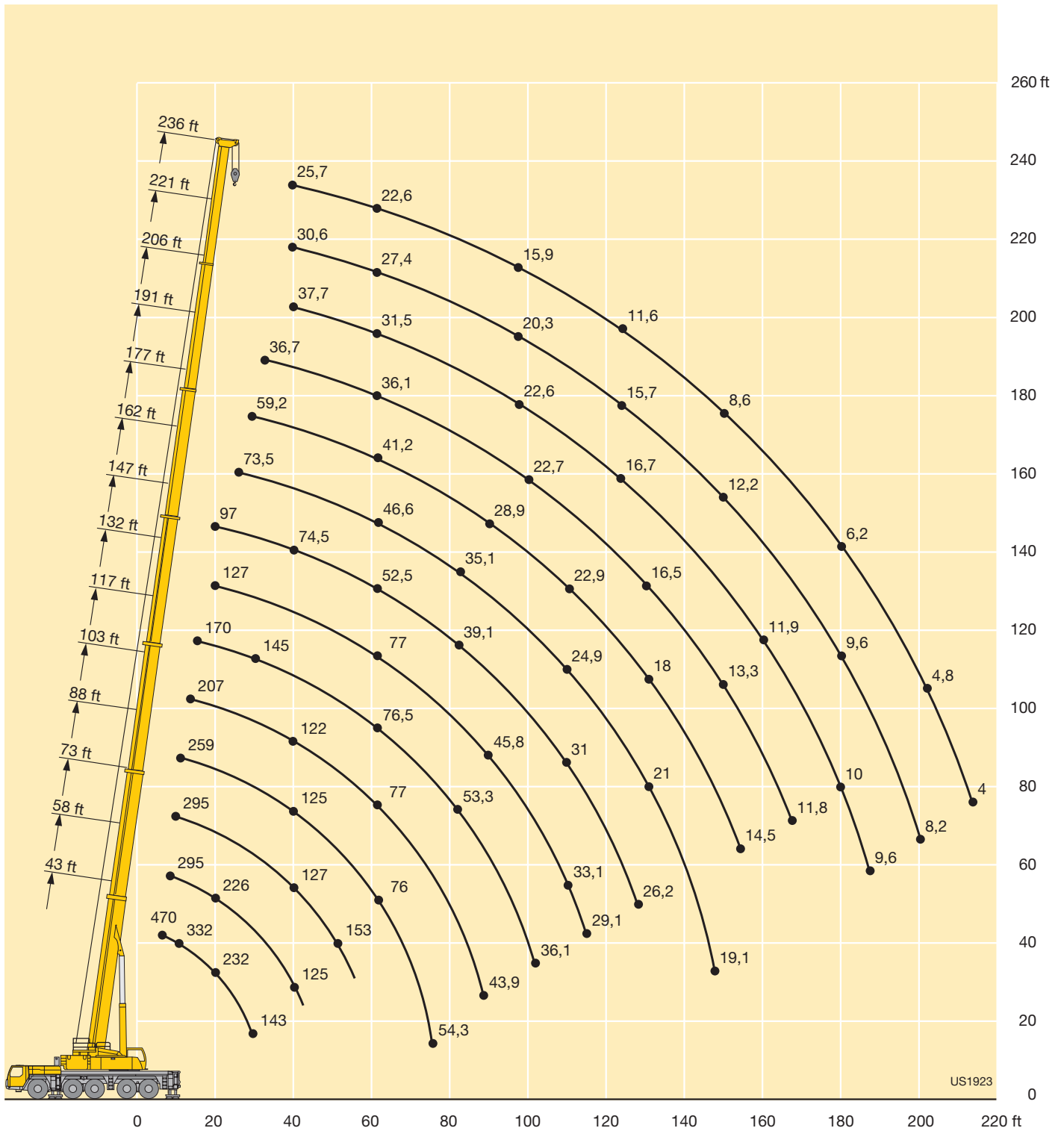
- 7-section, 72 m long telescopic boom and 12.2 m – 22 m long biparted swing-away jib extendable to 29 m and 36 m
- One intermediate section of 7 m for the extension of the telescopic boom at operation with swing-away jib
- Telescopic boom with rounded, oviform bottom shell, thus high lateral stability
- Optimal utilization of the telescopic boom due to a multitude of telescoping variants
- Swing-away jib mountable at 0°, 22.5° and 45°, hydraulic fitting aid, hydraulic ram for continuous variation of the swing-away jib from 0° - 45° (optional)
- Luffing under load (interpolation of the loads)
- Erection jib 5.3 m long, integrated in swing-away jib
- Easy and quick re-reeving of the hoist rope by rope dead end connection
- Load hook with rope dead end connection, cylindrical shape of the load hook for easy displacement by rolling on the ground



oviform boom profile

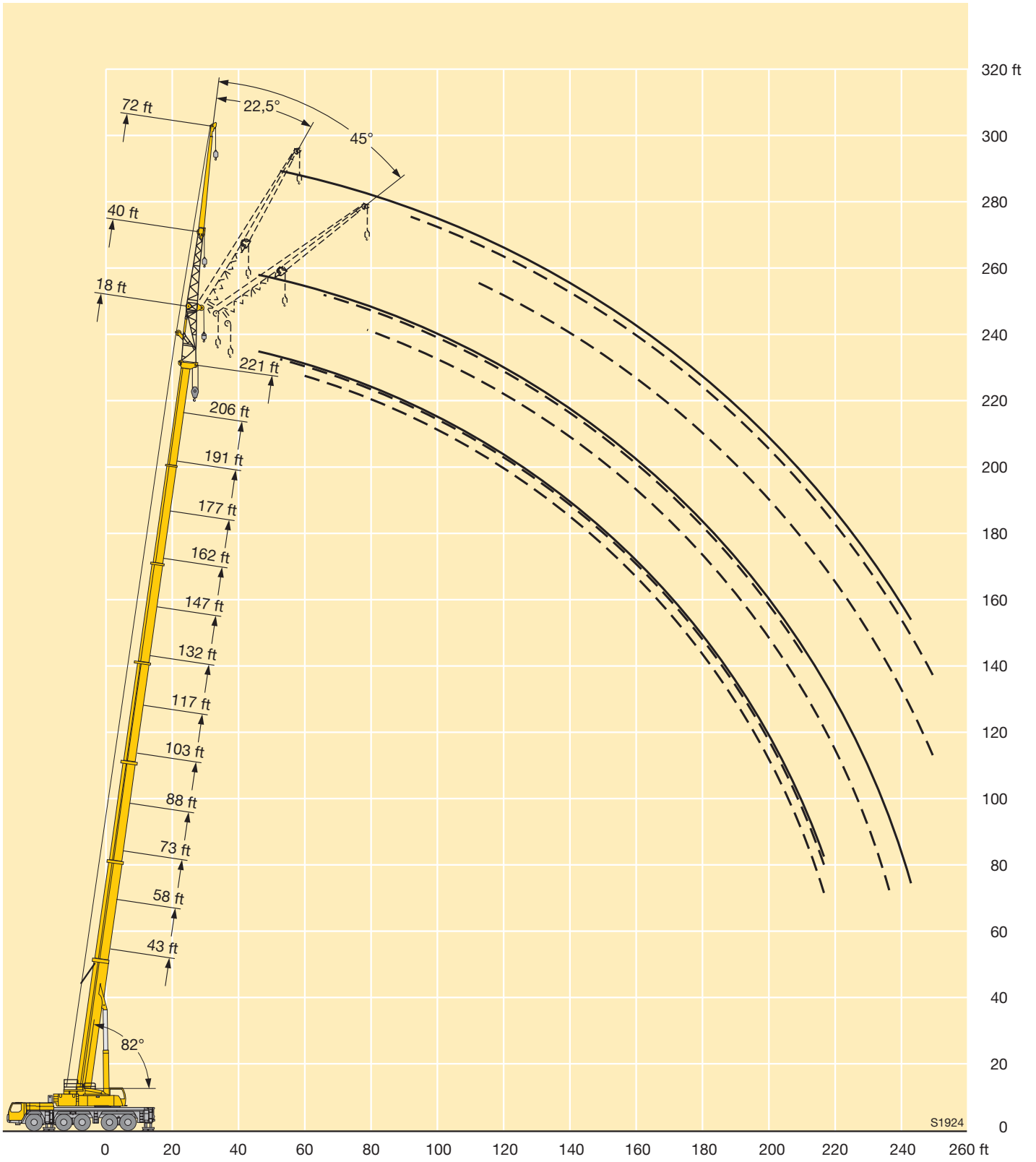


Lifting heights



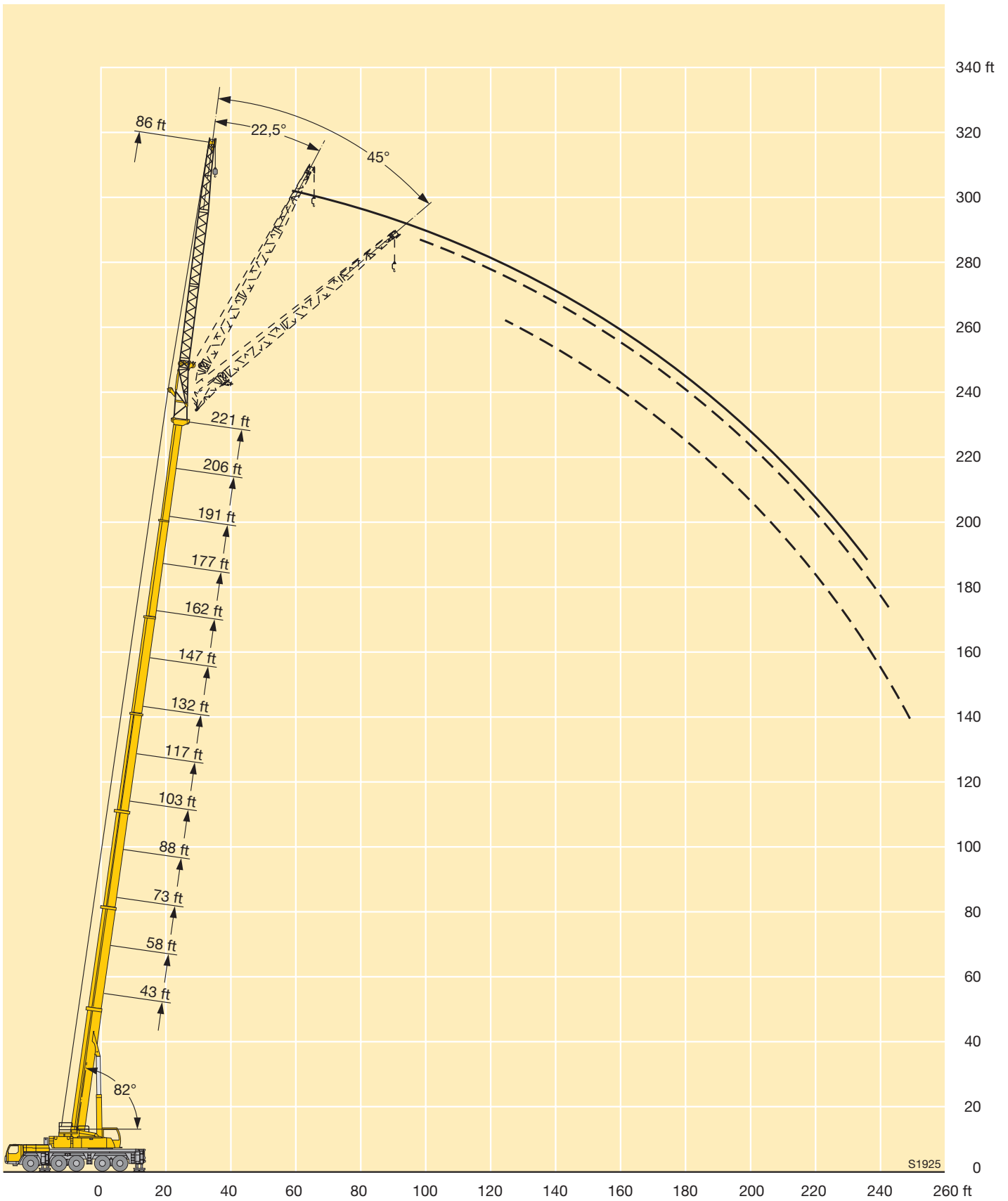
US1923

Lifting heights



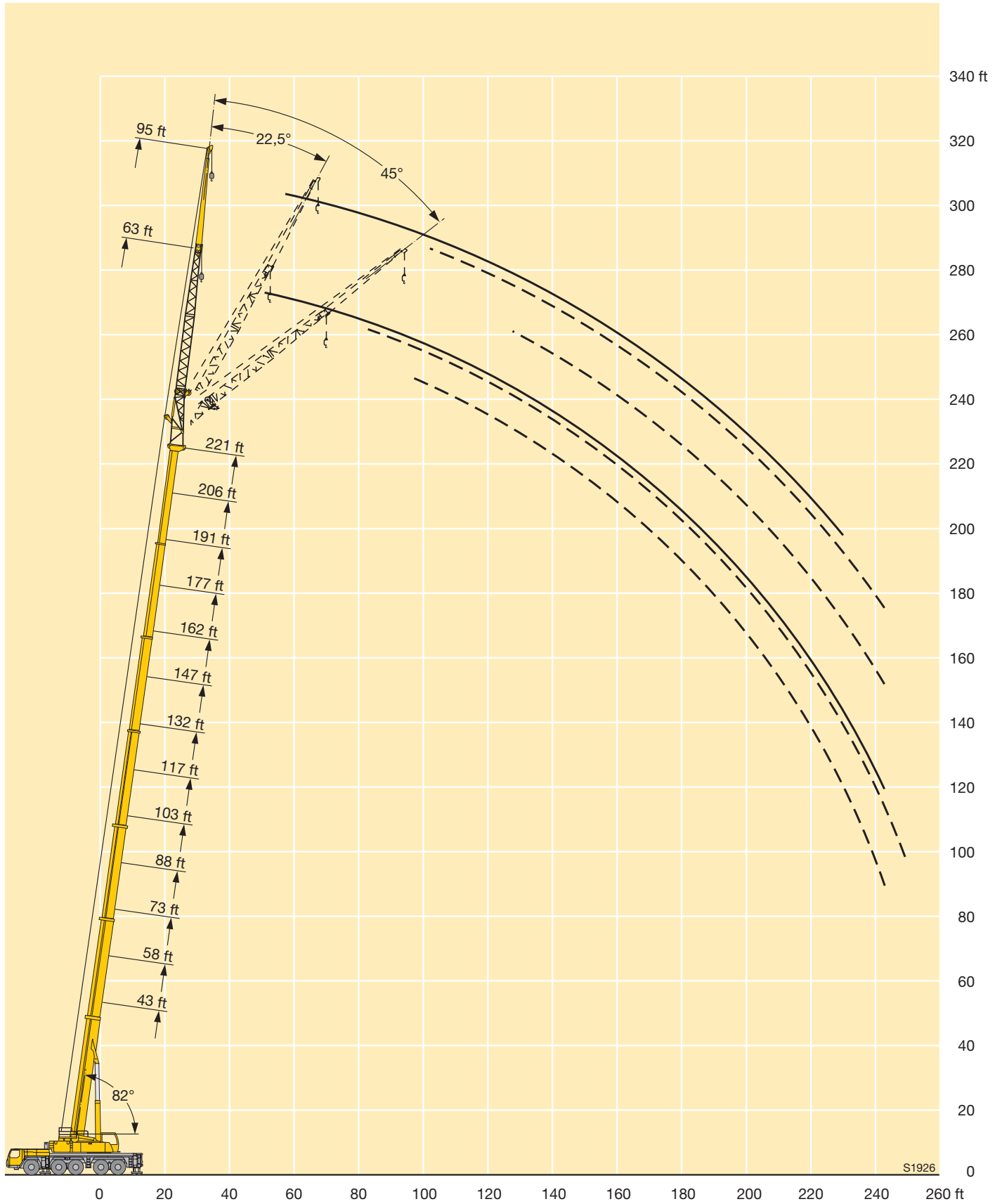
S1924

Lifting heights



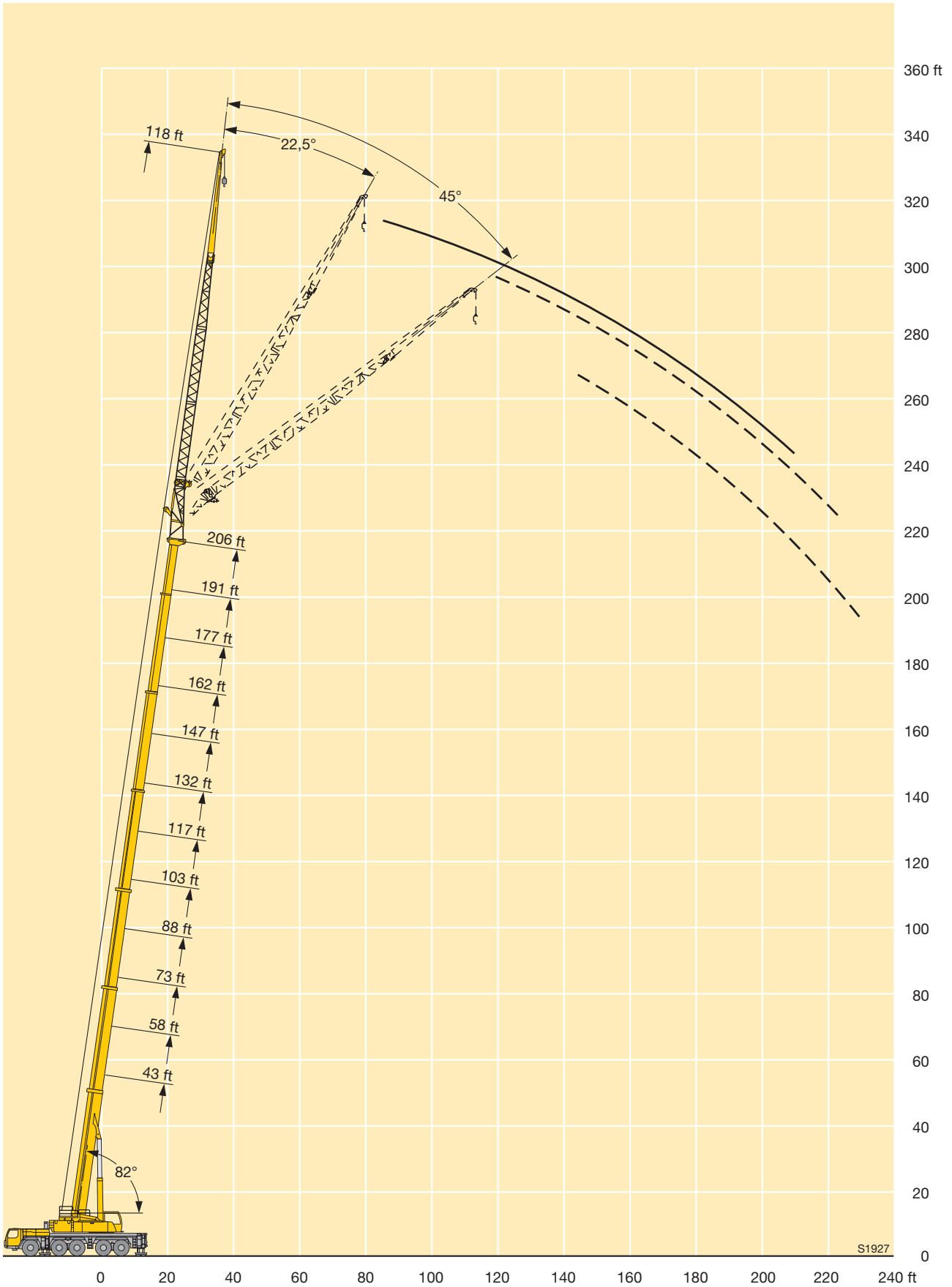
S1925

Lifting heights



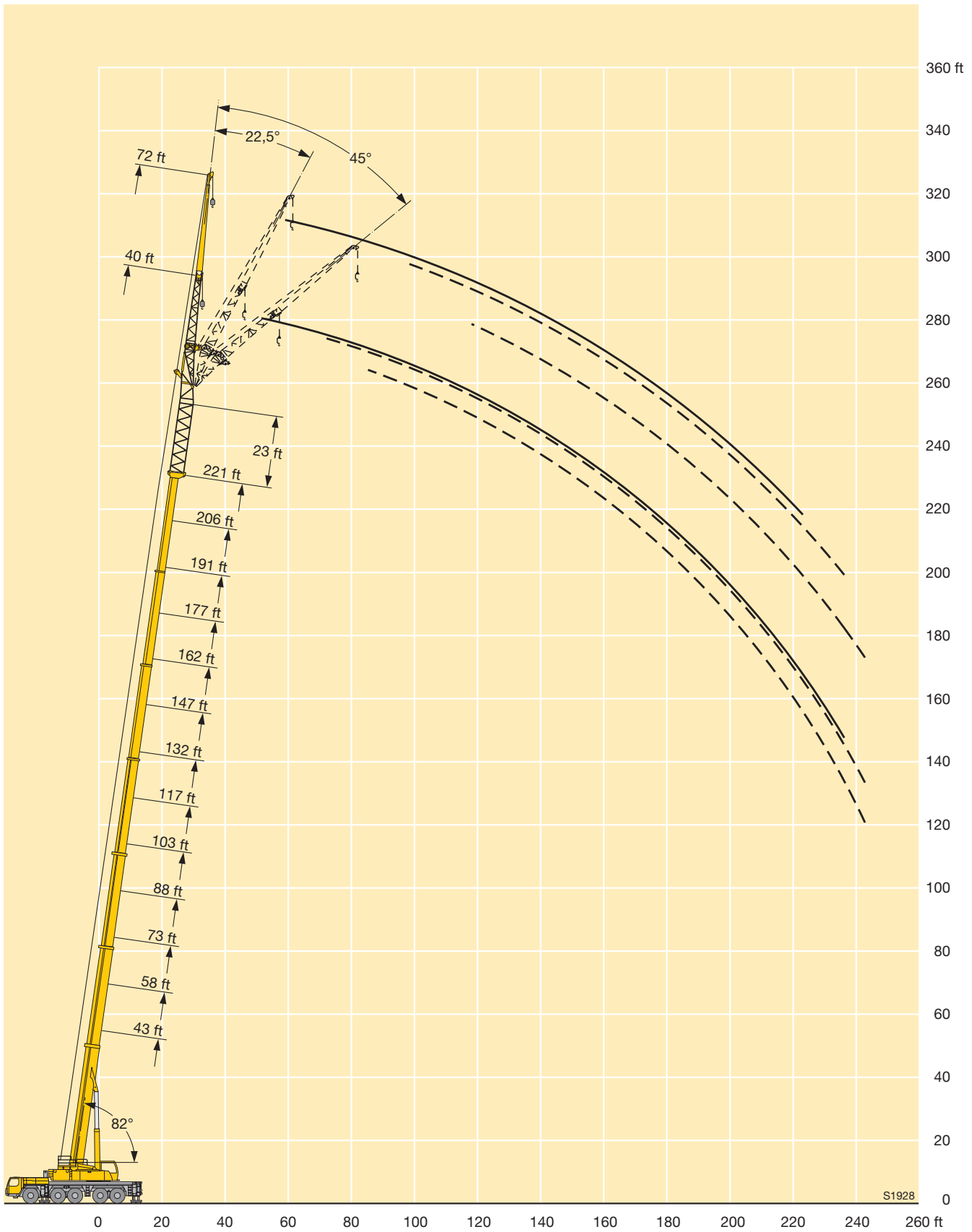
S1926

Lifting heights

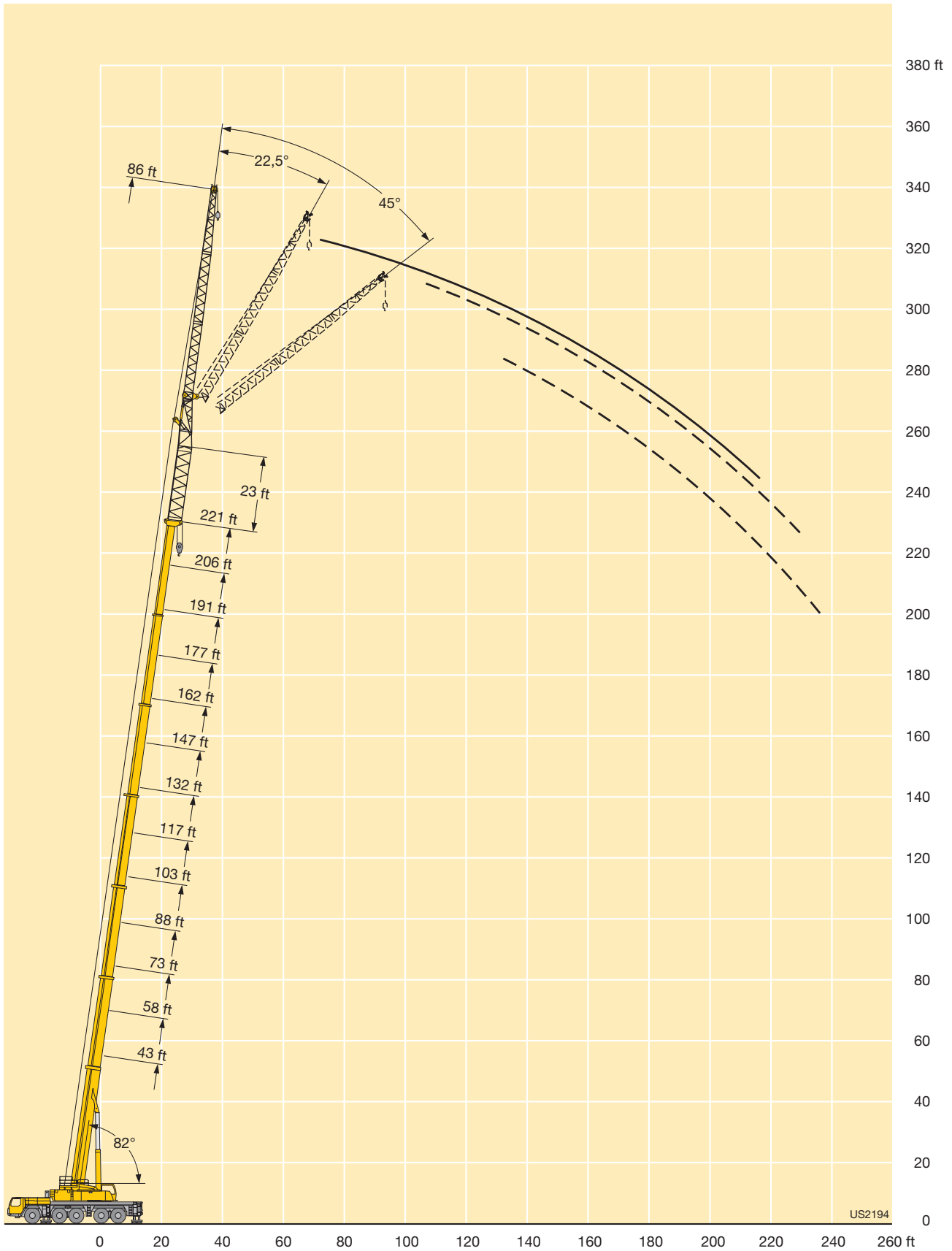


S1927

Lifting heights



Lifting heights



Lifting heights

