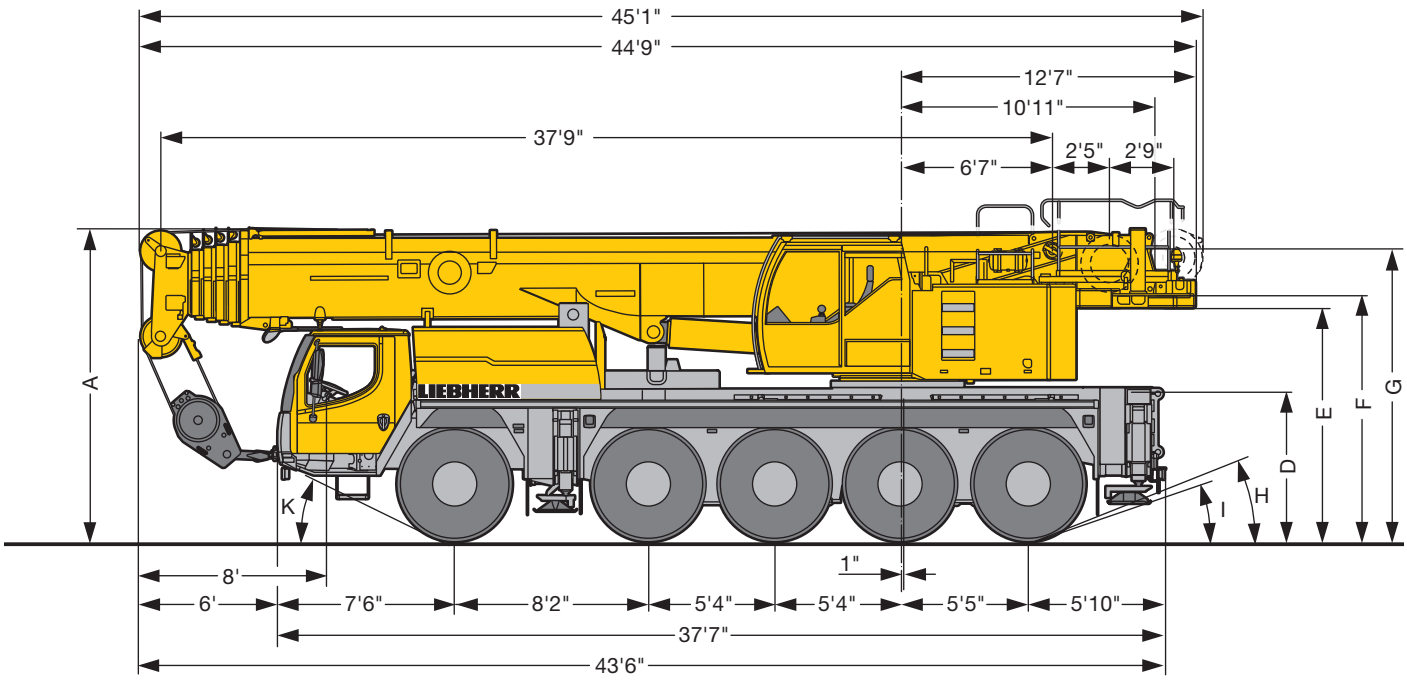
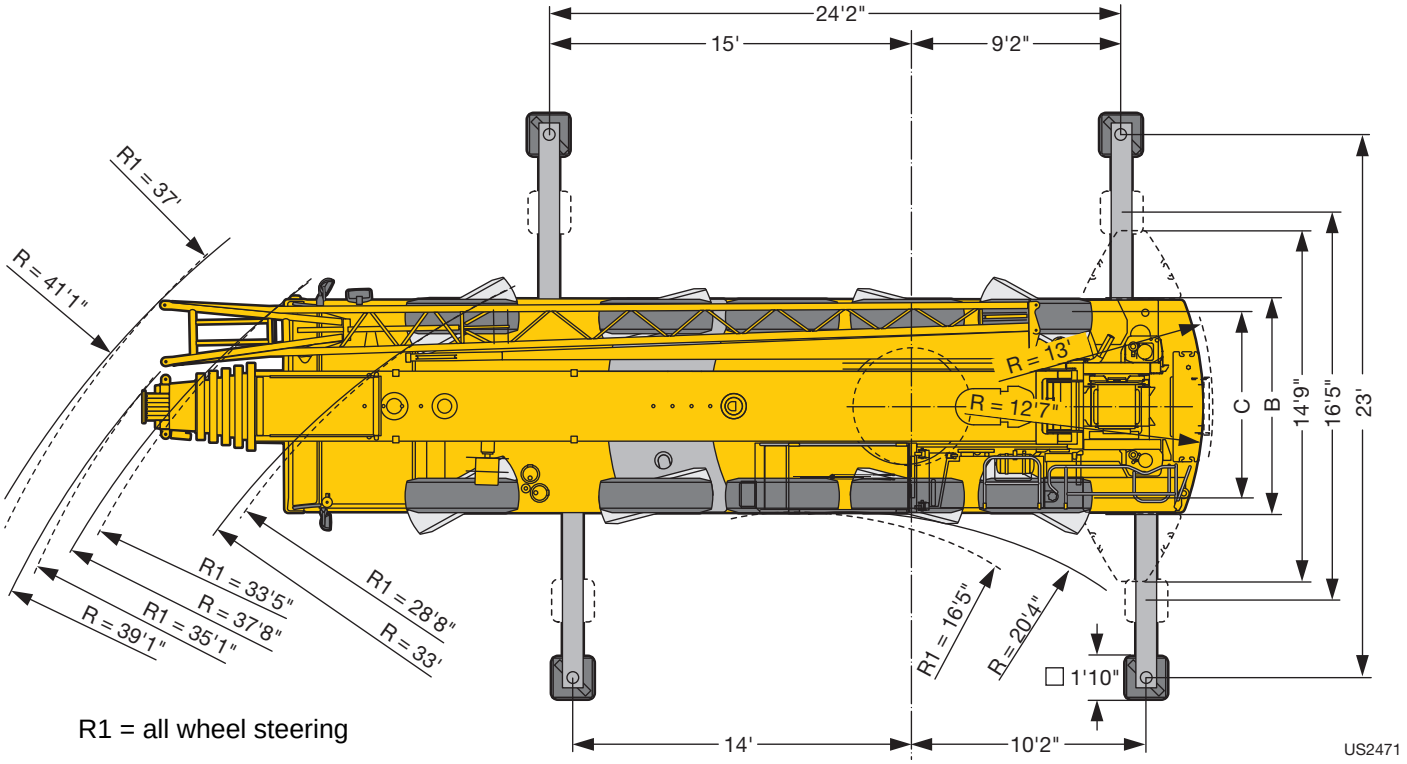
# Mobile Crane LTM 1100-5.2

**Max. Load Capacity - 120 Tons**
**Max. Height Under Hook - 276 Feet**
**Max. Working Radius - 217 Feet**


LIEBHERR

# Dimensions




R1 = all wheel steering

US2471

| | Dimensions · Encombrement | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A 4" * | B | C | D | E | F | G | H | I | K |
| 445/95 R 25 (16.00 R 25) | 13'1" | 12'10" | 9' | 7'7" | 6'4" | 9'9" | 10'3" | 12'2" | 23° | 18° | 25° |

* lowered

# Weights

| Axle<br>Essieu | 1 | 2 | 3 | 4 | 5 | Total weight<br>Poids total |
|---|---|---|---|---|---|---|
| lbs | 26400 | 26400 | 26400 | 26400 | 26400 | 132000[1)] |

[1)] with 25350 lbs counterweight and double folding jib · avec contrepoids 25350 lbs et fléchette pliante double

| Load kips<br>Forces de levage kips | No. of sheaves<br>Poulies | No. of lines<br>Brins | Weight lbs<br>Poids lbs |
|---|---|---|---|
| 220 | 7 | 14 | 2730 |
| 200 | 5 | 10 | 1540 |
| 130.2 | 3 | 7 | 1100 |
| 57.5 | 1 | 3 | 990 |
| 19.4 | – | 1 | 550 |

# Working speeds
# Vitesses

| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | R 1 | R 2 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 445/95 R 25<br>(16.00 R 25) | mph | 3.5 | 4.5 | 5.8 | 7.5 | 9.5 | 12.2 | 16.1 | 20.6 | 26.6 | 34.2 | 43.4 | 50 | 3.8 | 4.9 | 43 % |
| 525/80 R 25<br>(20.5 R 25) | | 1.6 | 2 | 2.6 | 3.3 | 4.2 | 5.3 | 7 | 9 | 11.6 | 14.9 | 19.5 | 24.2 | 1.7 | 2.1 | 56 % |

| Drive<br>Mécanismes | infinitely variable<br>en continu | Rope diameter / Rope length<br>Diam. du câble / Longueur du câble | Max. single line pull<br>Effort au brin maxi. |
|---|---|---|---|
| ① | 0 - 426 ft/min single line<br>ft/min au brin simple | 0.83"/656' | 19400 lbs |
| ② | 0 - 426 ft/min single line<br>ft/min au brin simple | 0.83"/656' | 19400 lbs |
| 360° | 0 - 2 rpm | | |
| | approx. 40 seconds to reach 82° boom angle<br>env. 40 s jusqu'à 82° | | |
| | approx. 360 seconds for boom extension from 38 ft – 171 ft<br>env. 360 s pour passer de 38 ft – 171 ft | | |

# Equipment

## Crane carrier

| | |
|---|---|
| **Frame** | Self-manufactured, torsion-resistant box-type design of high-tensile fine grained structural steel. |
| **Outriggers** | 4-point supporting system, hydraulically telescopable into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display |
| **Engine** | 6-cylinder Diesel, make Liebherr, type D846 A7, watercooled, output 370 kW (503 h.p.) at 1900 rpm, max. torque 1725 lbs-ft at 1200 rpm – 1500 rpm. Exhaust emissions acc. to 97/68/EG stage 3 and EPA/CARB Tier 3. Fuel reservoir: 130 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** | Low maintenance carrier axles, all 5 axles steered. Axle 2, 4 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 4 with longitudinal differential lock. |
| **Suspension** | All axles are mounted on hydropneumatic suspension and are lockable hydraulically. |
| **Tyres** | 10 tyres, size: 445/95 R 25 (16.00 R 25). |
| **Steering** | 2-circuit system with hydraulic servo steering. Active speed depending rear axle steering, special steering programs for various driving situations. |
| **Brakes** | Service brake: Dual circuit, all-wheel servo-air brake.<br>Parking brake: Spring brake actuator acting on all the wheels of axles 1, 2, 3 and 4.<br>Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. Intarder on gear. Brakes according to EG directives 71/320 EWG resp. 70/311 EWG. |
| **Driving cab** | Spacious and comfortable sheet steel cab mounted on rubber shock absorbers, safety glass windows. |
| **Electrical system** | Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each. |

## Crane superstructure

| | |
|---|---|
| **Frame** | Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim. |
| **Crane engine** | 4-cylinder Diesel, make Liebherr, type D934S A6, watercooled, output 129 kW (175 h.p.) at 1800 rpm, max. torque 678 ft-lbs at 1100 rpm – 1500 rpm. Exhaust emissions acc. to 97/68/EG stage 3 and EPA/CARB Tier 3. Fuel reservoir: 68 gallons. |
| **Crane drive** | Diesel-hydraulic by 1 axial piston variable displacement twin pump with servo control and power regulation. |
| **Control** | Electric „Load Sensing“ control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type). |
| **Hoist gear** | Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake. |
| **Luffing gear** | 1 differential ram with pilot-controlled brake 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** | LICCON2 safe load indicator, test system hoist limit switch, safety valves to prevent pipe and hose ruptures. |
| **Telescopic boom** | 1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK.<br>Boom length 38 ft – 171 ft. |
| **Counterweight** | 33100 lbs basic counterweight. |
| **Electrical system** | Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each. |

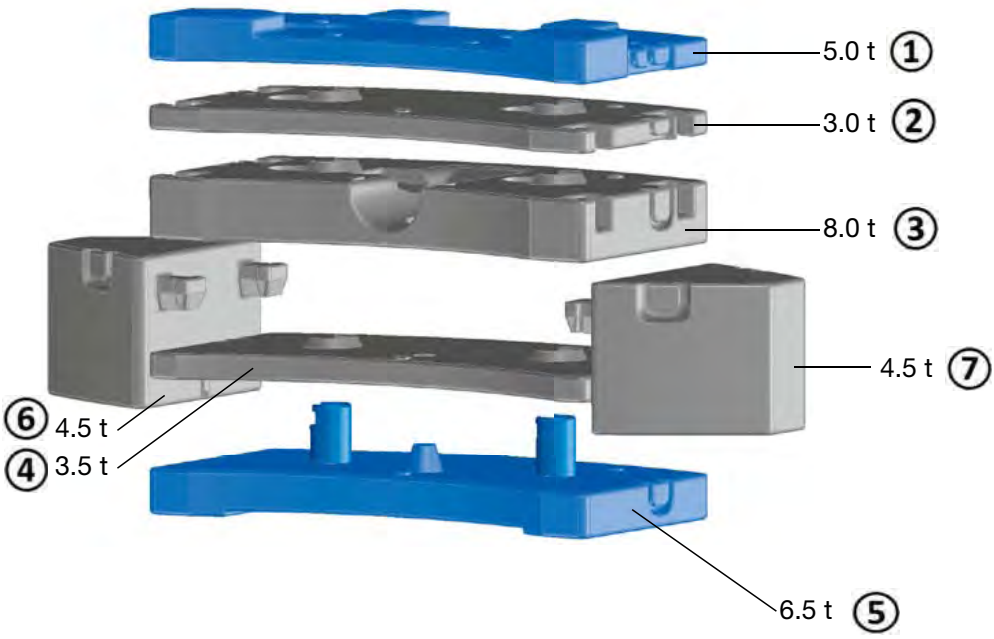
## Additional equipment

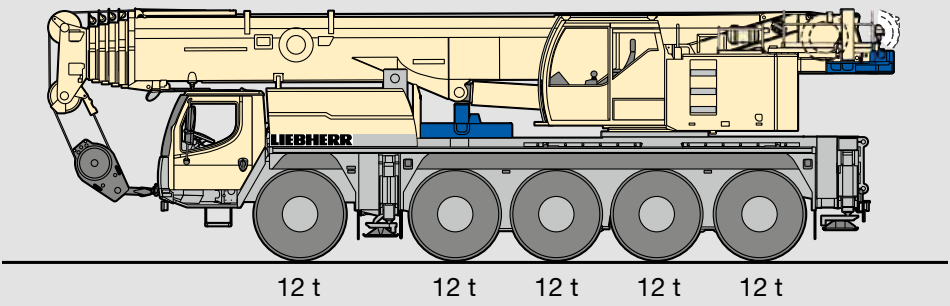
| | |
|---|---|
| **Swing-away jib** | 35 ft – 62 ft long, mountable to the telescopic boom at 0°, 20° or 40°.<br>Hydraulic ram for operating the swing-away jib from 0° – 40° (option). |
| **Erection jib** | 10 ft |
| **Telescopic boom extension** | 23 ft – 46 ft long lattice section, thus 23 ft – 46 ft higher pining 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. |
| **Additional counterweight** | 44100 lbs for a total counterweight of 77200 lbs. |
| **Tyres** | 10 tyres, size 525/80 R 25 (20.5 R 25). |
| **Drive 10 x 8** | Additional drive of the 1st axle. |

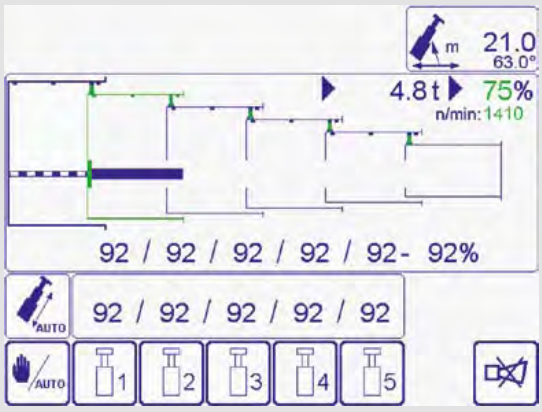
**Other item of equipment available on request.**

# Variable counterweight

| — Configurations — | | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|---|---|---|---|---|---|---|---|---|
| 5 t | 11,000 lbs | • | | | | | | |
| 8 t | 17,600 lbs | • | • | | | | | |
| 11.5 t | 25,400 lbs | • | | | | • | | |
| 15 t | 33,100 lbs | • | | | • | • | | |
| 26 t | 57,300 lbs | • | • | • | • | • | | |
| 35 t | 77,200 lbs | • | • | • | • | • | • | • |



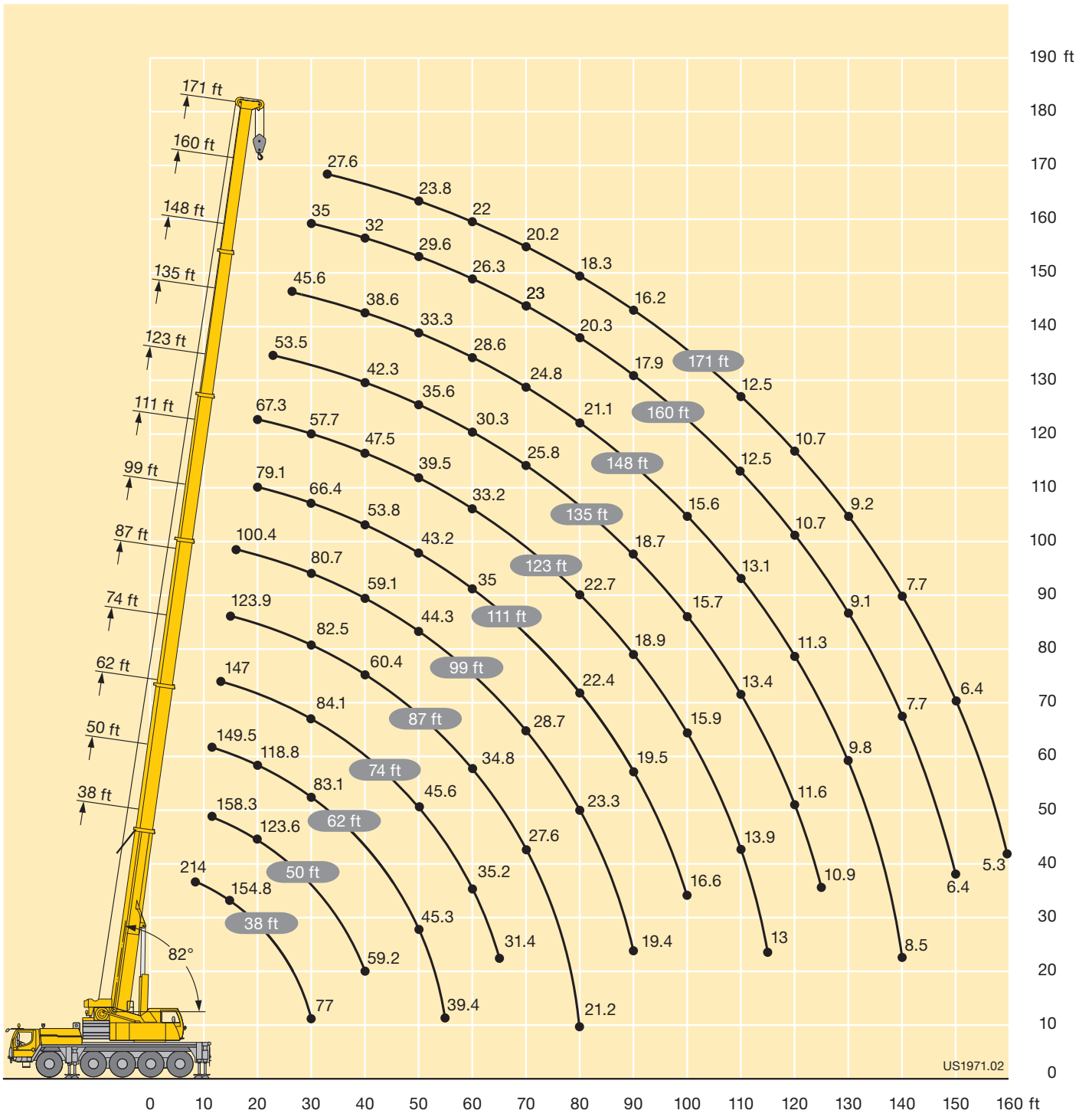



**The fully automatic telescoping system "TELEMATIK"**

- Increase of capacities at long booms and wider radii due to "light" telescoping system
- Single stage hydraulic cylinder with hydraulically activated drive pin
- Maintenance free telescoping system
- Telescoping fully automatic
- Simple operation, monitoring of the telescoping procedure at LICCON-monitor

**2.9 m long assembly jib**

# Lifting heights



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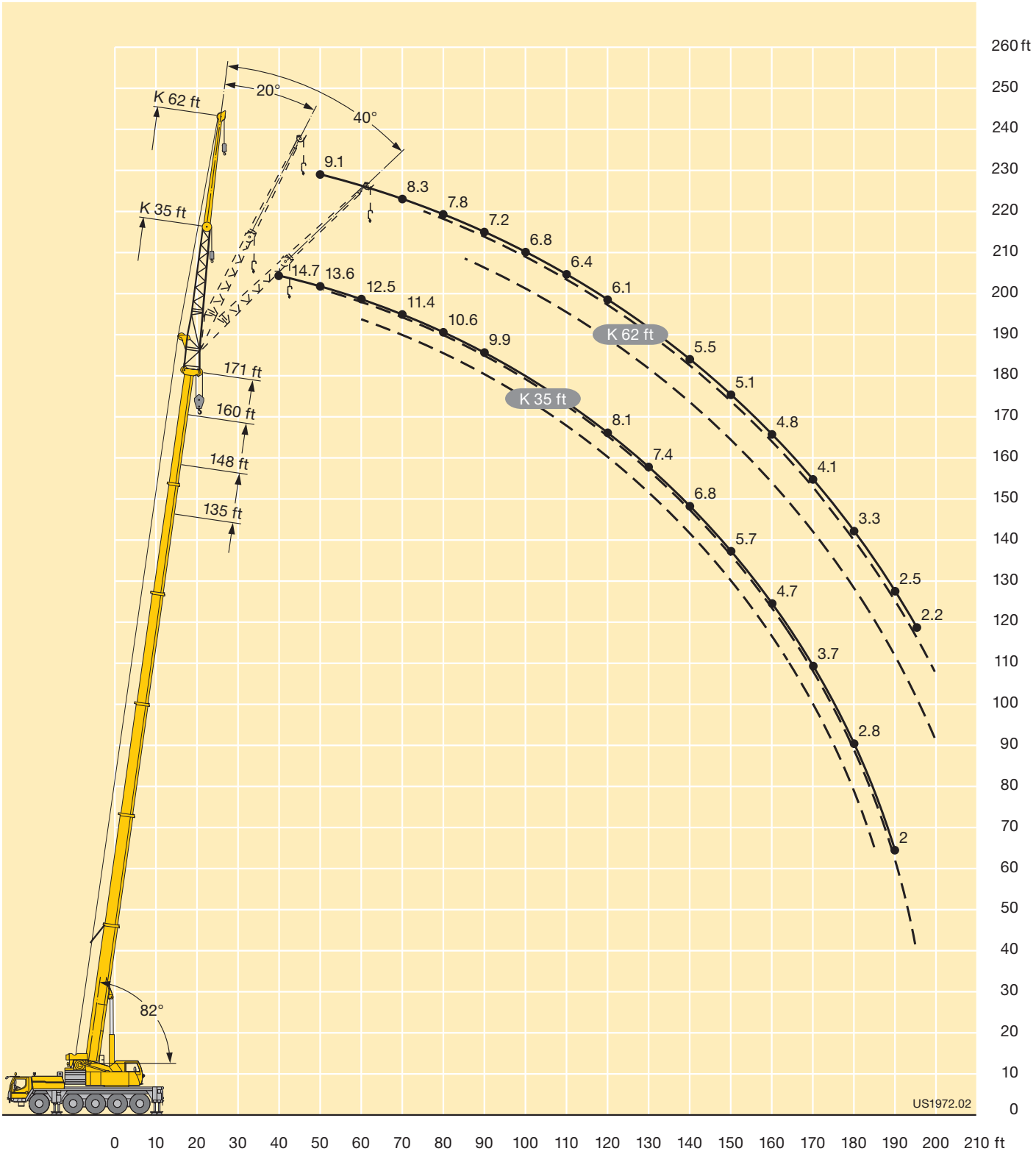

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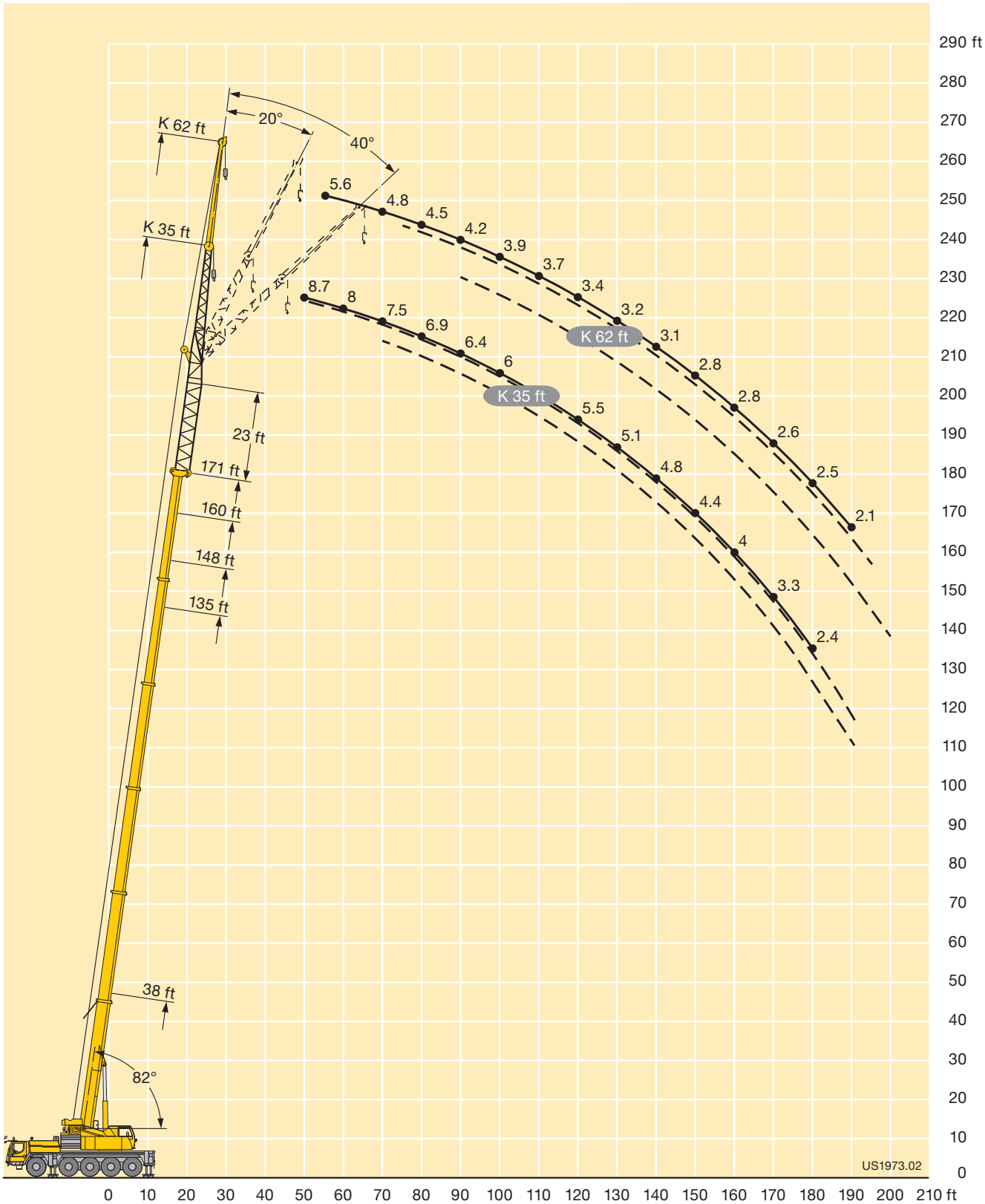

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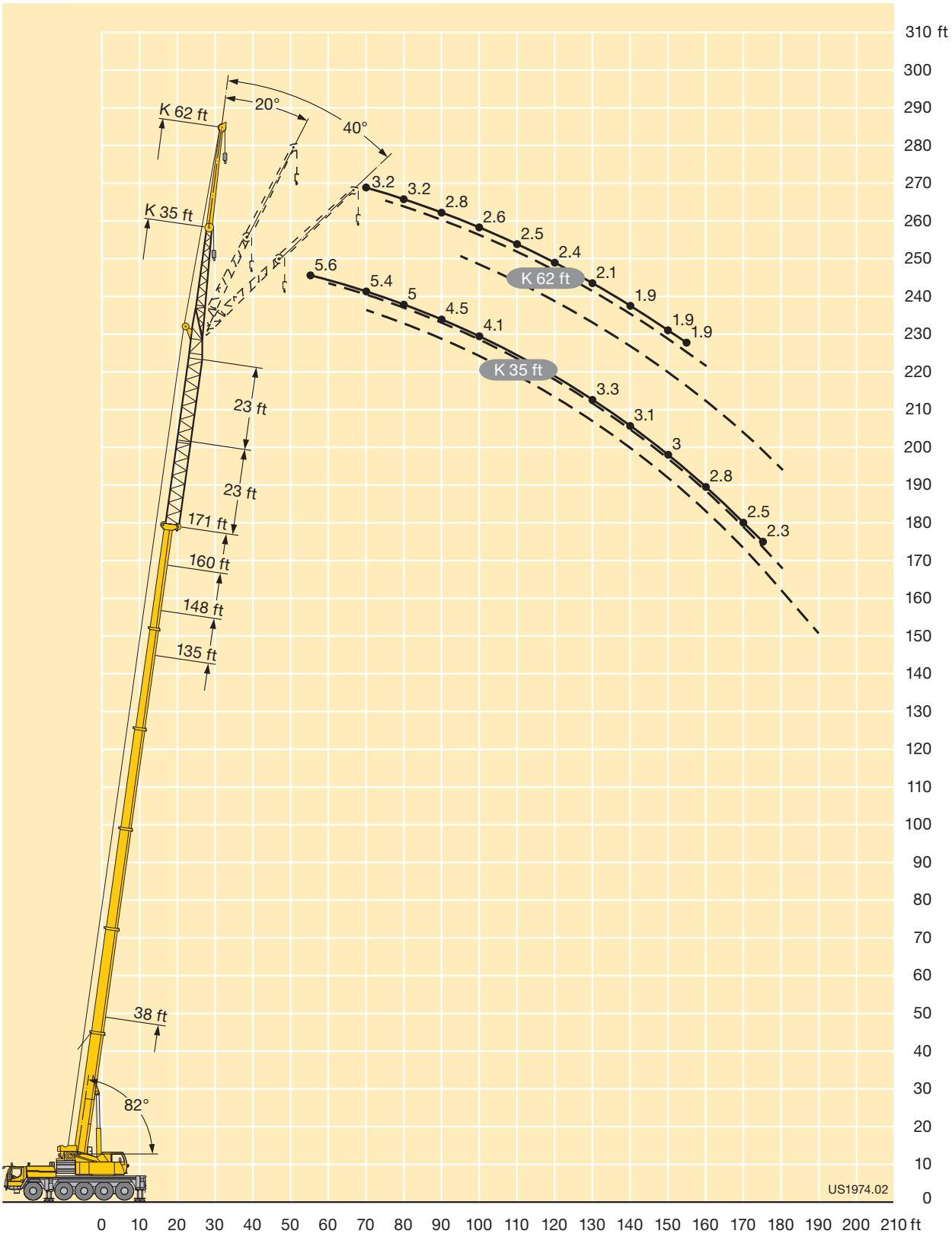

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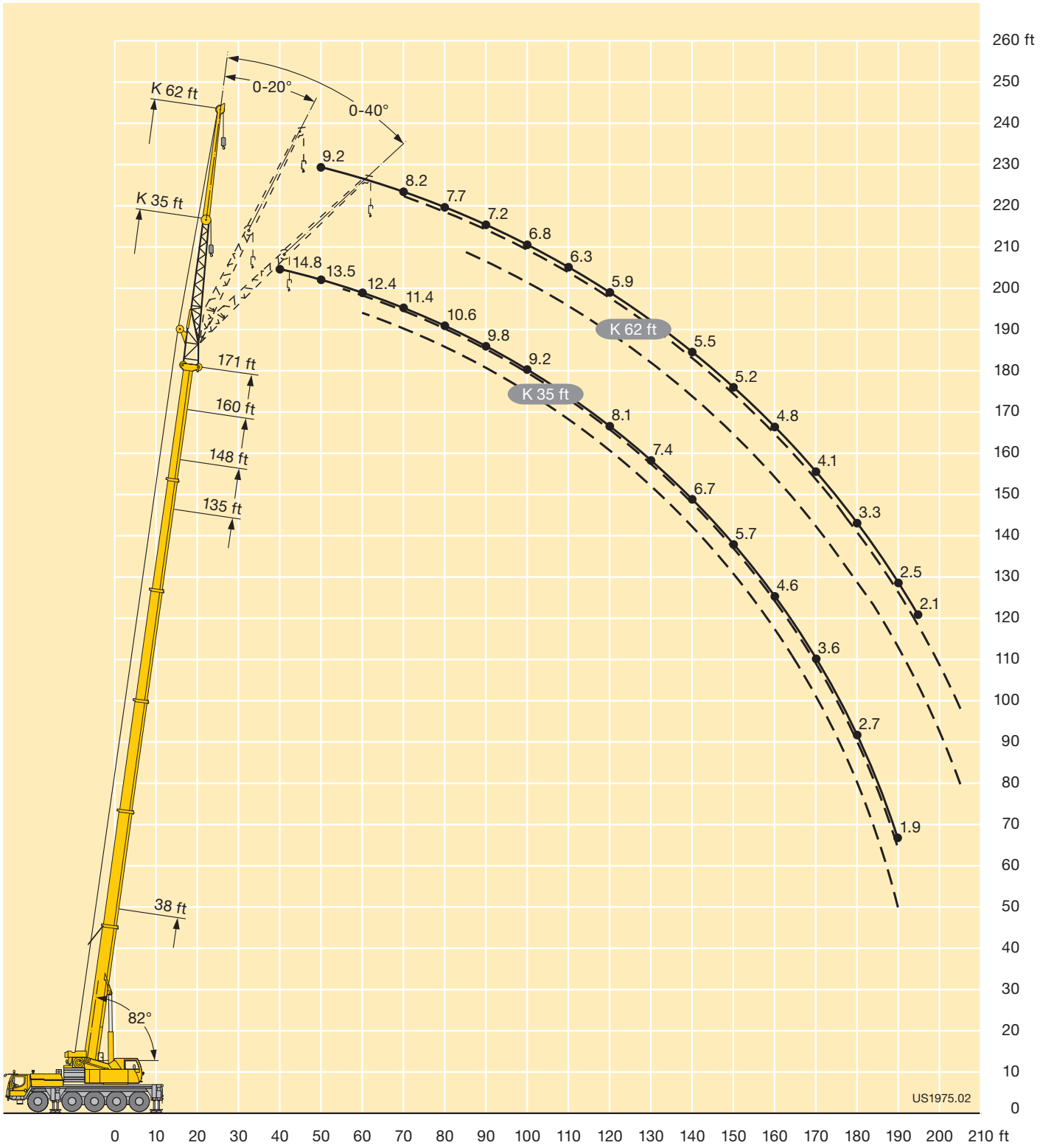

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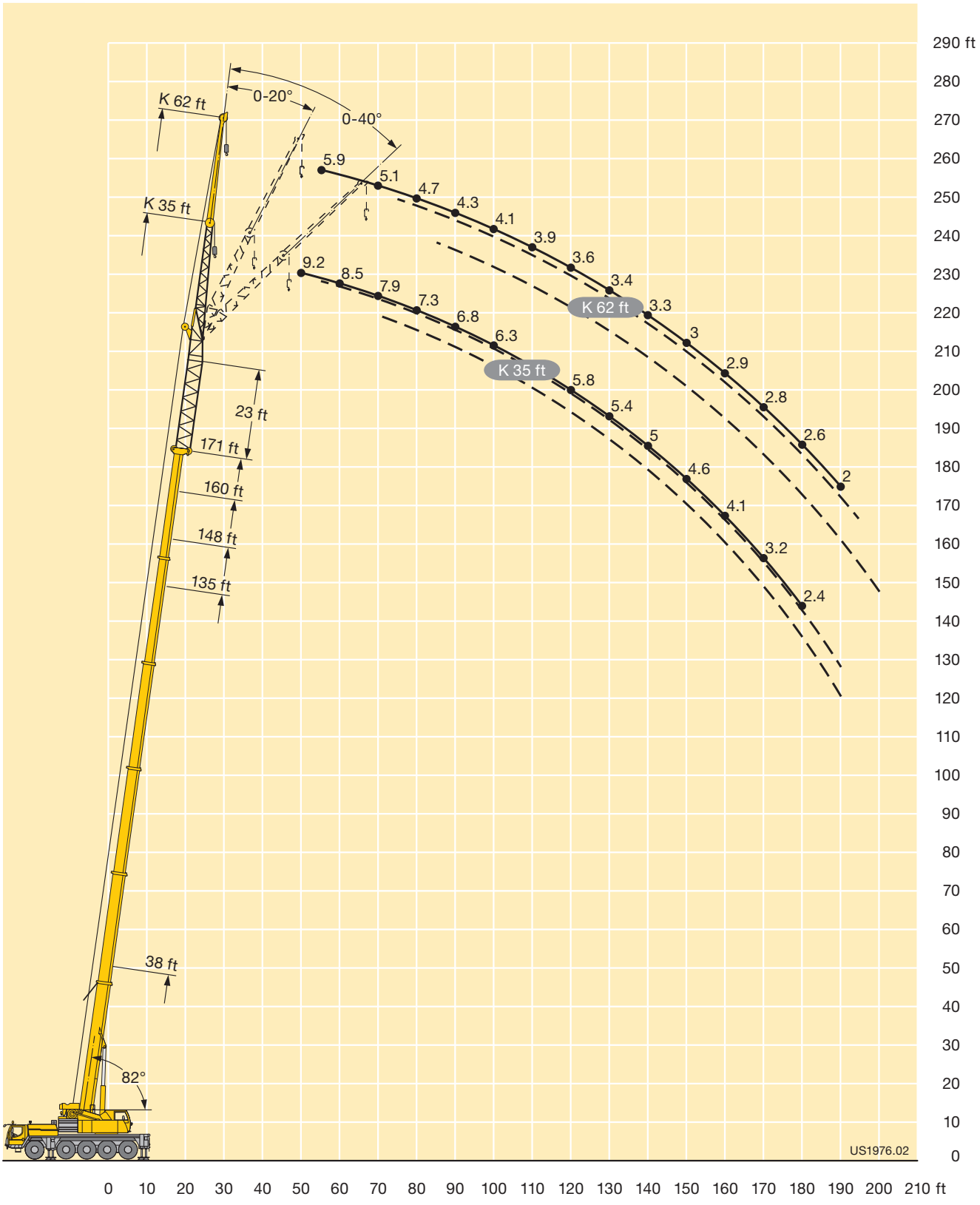

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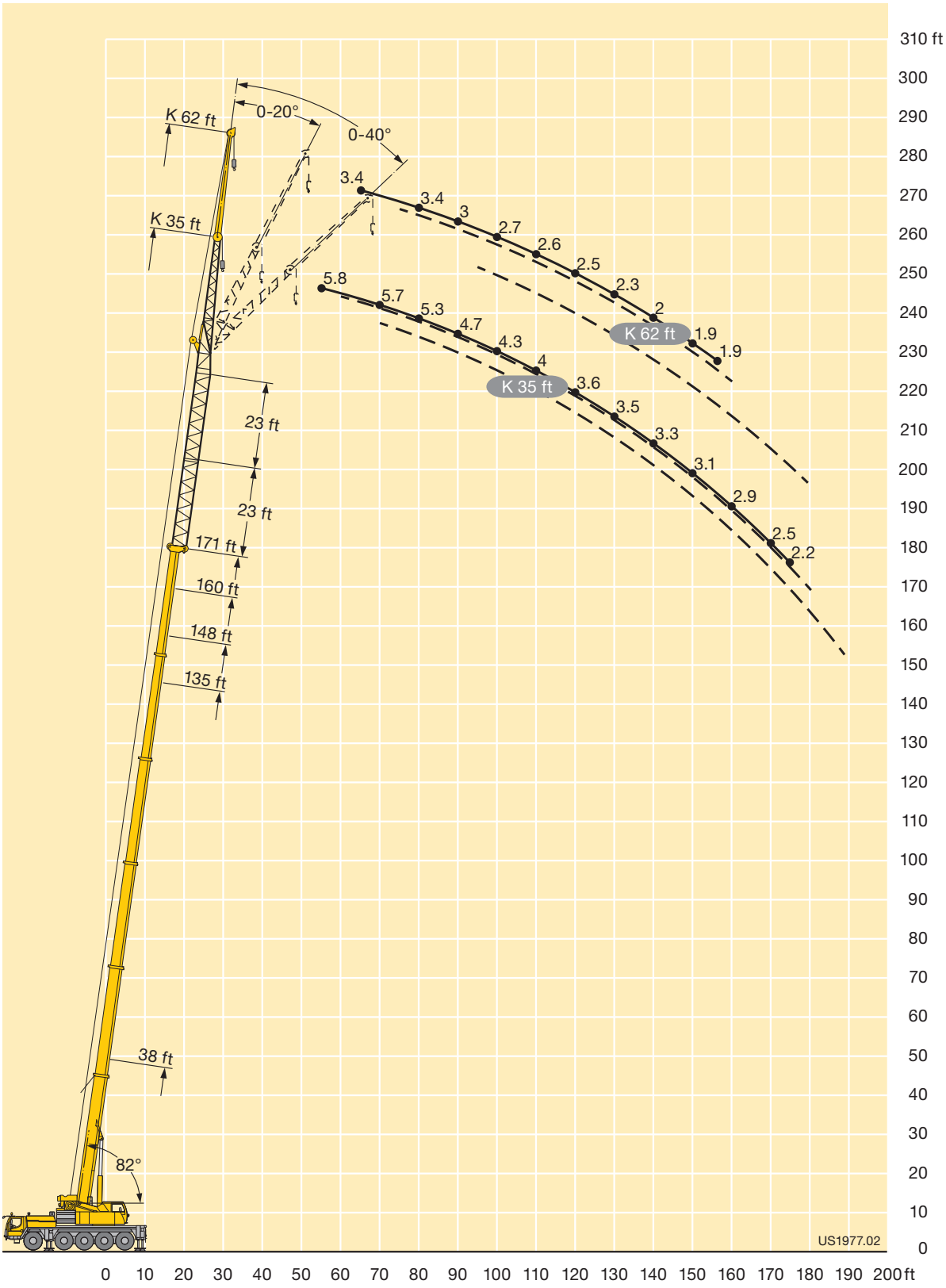

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