



An Oshkosh Corporation Company

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# **Supplemental Operation & Safety Manual**

## ***Supplemental Manual for Authorized & Trained Set Lighting Technicians & Studio Grips***

***P/N - 3128151***

July 3, 2018 - Rev J



An Oshkosh Corporation Company



## **FOREWORD**

This manual is a very important tool! Keep it with the machine at all times.

The purpose of this manual is to provide owners, users, operators, lessors, and lessees with the precautions and operating procedures essential for the safe and proper machine operation for its intended purpose.

Due to continuous product improvements, JLG Industries, Inc. reserves the right to make specification changes without prior notification. Contact JLG Industries, Inc. for updated information.

## **SAFETY ALERT SYMBOLS AND SAFETY SIGNAL WORDS**



This is the Safety Alert Symbol. It is used to alert you to the potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death

### **DANGER**

INDICATES AN IMMINENTLY HAZARDOUS SITUATION. IF NOT AVOIDED, WILL RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE A RED BACKGROUND.

### **WARNING**

INDICATES A POTENTIALITY HAZARDOUS SITUATION. IF NOT AVOIDED, COULD RESULT IN SERIOUS INJURY OR DEATH. THIS DECAL WILL HAVE AN ORANGE BACKGROUND.

### **CAUTION**

INDICATES A POTENTIALITY HAZARDOUS SITUATION. IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY. IT MAY ALSO ALERT AGAINST UNSAFE PRACTICES. THIS DECAL WILL HAVE A YELLOW BACKGROUND.

### **NOTICE**

INDICATES PROCEDURES ESSENTIAL FOR SAFE OPERATION. THIS DECAL WILL HAVE A GREEN BACKGROUND.

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**Contact:**

Product Safety and Reliability Department  
JLG Industries, Inc.  
13224 Fountainhead Plaza  
Hagerstown, MD 21742

or Your Local JLG Office  
(See addresses on manual cover)

**In USA:**

Toll Free: 877-JLG-SAFE (877-554-7233)

**Outside USA:**

Phone: 240-420-2661  
Fax: 301-745-3713  
E-mail: ProductSafety@JLG.com

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## SECTION 1. SAFETY PRECAUTIONS

### 1.1 GENERAL

This Manual was prepared for Set Lighting Technicians and Studio Grips to provide guidelines for the use of lighting and studio equipment on JLG Aerial Work Platforms. This manual contains requirements that must be followed by trained Set Lighting Technicians and Studio Grips in order to perform these functions.

#### **⚠ WARNING**

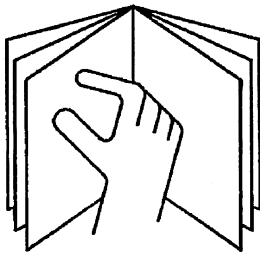
**STRICT COMPLIANCE WITH THIS SUPPLEMENTAL MANUAL AS WELL AS THE OPERATION MANUAL FOR THE SPECIFIC MODEL, ALONG WITH ANY TRAINING REQUIRED BY THE UNION/STUDIO IS NECESSARY FOR THE SAFE OPERATION OF THIS MACHINE.**

### 1.2 REQUIREMENTS FOR ATTACHMENT OF SET LIGHTING, CAMERA MOUNTS AND EQUIPMENT, OR LIGHT DIFFUSION FRAMES

#### **NOTICE**

**MODIFICATION OF THIS MACHINE THROUGH THE ATTACHMENT OF LIGHTS, CAMERAS, AND LIGHT DIFFUSION FRAMES (AND ASSOCIATED HARDWARE) TO THE PLATFORM RAILS IS AUTHORIZED ONLY IF THE RULES AND REQUIREMENTS LISTED BELOW ARE STRICTLY ADHERED TO.**

- Do not operate this machine until complete training is performed by authorized persons.
- Read and understand this manual and the Operation Manual for the specific machine model before operating the machine.



- Be sure that the ground conditions are able to support the maximum load shown on the decals located on the machine.

- Do not raise the platform or drive from an elevated position unless the machine is on firm, level surfaces and evenly supported.
- The attachment of power supply cables to the boom shall not restrict the movement of the aerial lift or endanger the operator or people on the ground.
- Attachment of power supply cables shall be done in a way that does not cause a tip-over hazard due to a side or vertical force that could result in the machine becoming unstable.
- Power supply cables must be attached to the end of each boom section in a way that ensures the cable cannot be damaged by tensioning, pinching, or crushing when the boom is operated. Do not hang cables over platform rails without attaching them.
- When attaching movie production equipment, do not modify the platform rails by drilling, welding, crushing, damaging, or making any other modifications that compromise the strength of the platform rails.
- When attaching movie production equipment, the entrance to the platform, the footswitch, platform control console, lanyard anchorage points, the platform decals and manual storage box must remain accessible.
- The combined weight of lighting or camera equipment, power supply cables, mounting hardware, platform occupant(s), tools, and equipment must in all cases remain less than the maximum rated platform capacity. Use the platform capacity reduction chart found in this supplement to determine the allowable platform load.
- The number and size of attachments must be limited by consideration of the maximum allowable wind speed and surface area of the platform attachments. Use the wind speed chart found in this supplement to determine maximum allowable wind speed.
- Information regarding the attachment of lighting and camera equipment shall be supplied only to trained operators. Operators must be familiar with these supplemental instructions and warnings before they are allowed to operate the aerial work platform.
- Light Diffusion Frames (LDF's) hung from the platform rail must not be rigidly attached in any way that could cause or impose a side or vertical load from wind or contact with adjacent objects.

- Attachment of LDF's and rope to the platform shall be accomplished in a manner that does not cause a tip-over hazard due to a side or vertical force that could result in the machine becoming unstable.
- For models 1200SJP and 1350SJP, all lights, light mounting hardware, light diffusion frames, and camera mounting hardware must be removed prior to performing the Boom Control System Check Procedure as outlined in the specific Operation Manual for those machines.

### 1.3 BOOM CONTROL SYSTEM (BCS)

The following models have a Boom Control System (BCS) that continuously monitors the boom and platform position within the working envelope while the machine is powered on.

- 1250AJP
- 1500AJP
- 1500SJ
- 1850SJ
- 1200SJP
- 1350SJP

For the applications described in this manual, when any of these models are parked in an elevated position without personnel in the platform, the status of the BCS must be periodically checked to ensure there are no Diagnostic Trouble Codes (DTC) related to the BCS caused by changes in the boom or platform position over time.

Once the final position of the platform is achieved, the control system must be powered up after the first hour, and every four hours thereafter to ensure there are no DTCs related to the BCS. If the platform gets repositioned, the check must be accomplished one hour after the new position is achieved, and four hours again after that until the next repositioning, and so on.

During the periodic checks, verify the BCS light is not illuminated on the ground control indicator panel. Refer to the Operation and Safety Manual for more information on the BCS system and retrieval sequence in the event of a DTC related to the BCS.

### 1.4 WIND SPEED CHART

The following chart is to be used to establish the maximum allowable wind speed with relation to the surface area of light diffusion frames.

When attaching movie production equipment such as light diffusion frames or set lighting to a platform, operation in windy conditions is limited by the total surface area of the equipment added. Refer to Table 1-1, Maximum Allowable Wind Speed.

**Table 1-1. Maximum Allowable Wind Speed**

| Area of Attachment   | Max. Wind Speed in MPH |
|--|------------------------|
| <b>340AJ, 400S, 460SJ, 450A, 450AJ, 600A, 600S, 600SJ, 660SJ, 800A, 800AJ, 800S, 860SJ</b> |                        |
| 4' x 4' (16 sq. ft.)   | 25                     |
| 6' x 6' (36 sq. ft.)   | 25                     |
| 8' x 8' (64 sq. ft.)   | 25                     |
| 12' x 12' (144 sq. ft.)  | 18                     |
| 20' x 20' (400 sq. ft.)  | 11                     |
| <b>1250AJP, 1500AJP, 1500SJ, 1850SJ</b>  |                        |
| 4' x 4' (16 sq. ft.)   | 25                     |
| 6' x 6' (36 sq. ft.)   | 18                     |
| 8' x 8' (64 sq. ft.)   | 18                     |
| 12' x 12' (144 sq. ft.)  | 11                     |
| 20' x 20' (400 sq. ft.)  | 11                     |
| <b>1200SJP, 1350SJP</b>  |                        |
| 4' x 4' (16 sq. ft.)   | 18                     |
| 6' x 6' (36 sq. ft.)   | 11                     |
| 8' x 8' (64 sq. ft.)   | 11                     |
| 12' x 12' (144 sq. ft.)  | 11                     |
| 20' x 20' (400 sq. ft.)  | 7                      |

#### **WARNING**

**ELEVATING AN AERIAL WORK PLATFORM IN WIND SPEEDS OR WITH SURFACE AREAS GREATER THAN WHAT IS LISTED IN TABLE 1-1 MAY CAUSE THE BOOM AND/OR AERIAL WORK PLATFORM TO BECOME UNSTABLE AND COULD RESULT IN DEATH OR SERIOUS INJURY.**

## SECTION 2. PLATFORM CAPACITY REDUCTION

### 2.1 PLATFORM CAPACITY REDUCTION

#### **⚠ WARNING**

**TIP OVER HAZARD. EXCEEDING THE RATED CAPACITY OF THE PLATFORM BY ATTACHING MOVIE PRODUCTION EQUIPMENT COULD CAUSE THE PLATFORM TO BECOME UNSTABLE AND COULD RESULT IN DEATH OR SERIOUS INJURY. ALWAYS CALCULATE THE REDUCTION OF PLATFORM CAPACITY CAUSED BY THE ATTACHMENT OF MOVIE PRODUCTION EQUIPMENT.**

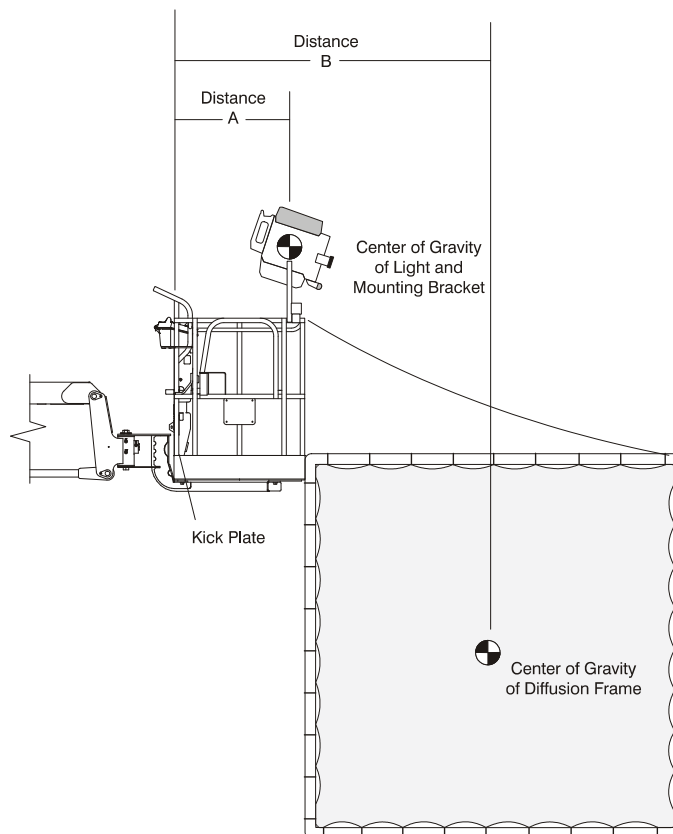
Platform capacity is based on an evenly distributed load in the platform basket. When movie production equipment (i.e. light diffusion frames, set lighting, camera mounts and equipment) is attached to the rear of the platform, the platform capacity is reduced by more than the weight of the equipment. The farther the equipment is mounted from the center of the platform, the greater the platform's capacity is affected and must be reduced.

Reduce platform capacity as follows:

1. Attachment of power supply cables to the boom reduces platform capacity. Subtract the total suspended weight of cables and rigging from the rated platform capacity.

2. Subtract the load applied to the platform by the attachment of additional movie production equipment (as shown in the following illustration) by using Table 2-1, Platform Capacity Reduction Chart - 400S, 600S, 800S, 450A, 600A, 800A or Table 2-3, Platform Capacity Reduction Chart -460SJ, 660SJ, 860SJ, 600AJ, 800AJ, 1200SJP, 1350SJP, 1250AJP\*, 1500AJP, 1500SJ, 1850SJ as applicable. (Refer to Figure 2-1., Figuring Capacity Reduction for attachment details).

**EXAMPLE:** This example will use Table 2-1 and Figure 2-1. Assume the weight of the lighting equipment, cables, and mounting hardware is 83 pounds. The distance from the kickplate to the CG (Center of Gravity) of the equipment (Distance A or Distance B) is 33 inches. The weight of the equipment must be rounded up to the next highest figure in the left column, which is 100 pounds and the distance to the kickplate must be rounded up to the next highest figure at the top of the chart which is 36 inches. Using these figures on the chart, we see that the Rated Load must be reduced by 161 pounds. On a platform with 500 pounds capacity, the new rated capacity would be 500 pounds - 161 pounds = 339 pounds.



**Figure 2-1. Figuring Capacity Reduction**

## SECTION 2 - PLATFORM CAPACITY REDUCTION

**Table 2-1. Platform Capacity Reduction Chart - 400S, 600S, 800S, 450A, 600A, 800A**

| Weight of Added Equipment (lbs.) | Distance from kickplate below control box to equipment CG (inches)<br>(Distance A or Distance B) |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------|--|------|------|------|------|------|------|------|------|------|------|------|
|                                  | 30   | 36   | 48   | 60   | 72   | 84   | 96   | 108  | 120  | 132  | 144  | 156  |
|                                  | Number of Pounds to reduce rated Platform Load by  |      |      |      |      |      |      |      |      |      |      |      |
| 50                               | 72   | 80   | 98   | 115  | 132  | 149  | 167  | 184  | 201  | 218  | 236  | 253  |
| 75                               | 108  | 121  | 147  | 172  | 198  | 224  | 250  | 276  | 302  | 328  | 353  | 379  |
| 100                              | 144  | 161  | 195  | 230  | 264  | 299  | 333  | 368  | 402  | 437  | 471  | 506  |
| 125                              | 180  | 201  | 244  | 287  | 330  | 374  | 417  | 460  | 503  | 547  | 590  | 633  |
| 150                              | 216  | 241  | 293  | 345  | 397  | 448  | 500  | 551  | 602  | 653  | 704  | 755  |
| 175                              | 251  | 282  | 342  | 402  | 463  | 523  | 583  | 643  | 703  | 763  | 823  | 883  |
| 200                              | 287  | 322  | 391  | 460  | 530  | 599  | 668  | 737  | 806  | 875  | 944  | 1013 |
| 225                              | 323  | 362  | 440  | 519  | 598  | 677  | 756  | 835  | 914  | 993  | 1072 | 1151 |
| 250                              | 359  | 402  | 489  | 578  | 667  | 756  | 845  | 934  | 1023 | 1112 | 1201 | 1290 |
| 275                              | 395  | 443  | 537  | 636  | 735  | 834  | 933  | 1032 | 1131 | 1230 | 1329 | 1428 |
| 300                              | 431  | 483  | 586  | 695  | 804  | 913  | 1022 | 1131 | 1240 | 1349 | 1458 | 1567 |
| 325                              | 467  | 523  | 634  | 753  | 872  | 991  | 1110 | 1229 | 1348 | 1467 | 1586 | 1705 |
| 350                              | 503  | 563  | 682  | 811  | 940  | 1069 | 1198 | 1327 | 1456 | 1585 | 1714 | 1843 |
| 375                              | 539  | 602  | 729  | 868  | 1007 | 1146 | 1285 | 1424 | 1563 | 1702 | 1841 | 1980 |
| 400                              | 575  | 641  | 776  | 925  | 1074 | 1223 | 1372 | 1521 | 1670 | 1819 | 1968 | 2117 |
| 425                              | 611  | 680  | 823  | 982  | 1141 | 1300 | 1459 | 1618 | 1777 | 1936 | 2095 | 2254 |
| 450                              | 647  | 719  | 870  | 1039 | 1208 | 1377 | 1546 | 1715 | 1884 | 2053 | 2222 | 2391 |
| 475                              | 683  | 758  | 917  | 1096 | 1275 | 1454 | 1633 | 1812 | 1991 | 2170 | 2349 | 2528 |
| 500                              | 719  | 796  | 963  | 1152 | 1341 | 1530 | 1719 | 1908 | 2097 | 2286 | 2475 | 2664 |
| 525                              | 755  | 835  | 1010 | 1209 | 1408 | 1607 | 1806 | 2005 | 2204 | 2403 | 2602 | 2801 |
| 550                              | 791  | 873  | 1056 | 1265 | 1474 | 1683 | 1892 | 2101 | 2310 | 2519 | 2728 | 2937 |
| 575                              | 827  | 911  | 1102 | 1321 | 1540 | 1759 | 1978 | 2197 | 2416 | 2635 | 2854 | 3073 |
| 600                              | 863  | 949  | 1148 | 1377 | 1606 | 1835 | 2064 | 2293 | 2522 | 2751 | 2980 | 3209 |
| 625                              | 899  | 987  | 1194 | 1434 | 1682 | 1921 | 2160 | 2400 | 2639 | 2878 | 3117 | 3356 |
| 650                              | 935  | 1025 | 1248 | 1500 | 1768 | 2017 | 2266 | 2515 | 2764 | 3013 | 3262 | 3511 |

**NOTE:** When weighing equipment added, **ALWAYS** round the total weight **UP** to the pounds figure in the left column of this chart.  
When measuring distance to the kickplate, **ALWAYS** round the distance **UP** to the next highest value at the top of this chart.

Table 2-2. Platform Capacity Reduction Chart - 340AJ, 450AJ

| Weight of Added Equipment (lbs.)  | Distance from kickplate below control box to equipment CG (inches)<br>(Distance A or Distance B) |     |     |     |     |     |     |     |     |     |     |     |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   | 30   | 36  | 48  | 60  | 72  | 84  | 96  | 108 | 120 | 132 | 144 | 156 |
|   | Number of Pounds to reduce rated Platform Load by  |     |     |     |     |     |     |     |     |     |     |     |
| 50  | 59   | 63  | 70  | 77  | 84  | 91  | 98  | 105 | 113 | 120 | 127 | 134 |
| 75  | 88   | 94  | 104 | 115 | 126 | 134 | 147 | 158 | 169 | 179 | 190 | 201 |
| 100   | 118  | 125 | 139 | 154 | 168 | 182 | 196 | 211 | 225 | 239 | 254 | 268 |
| 125   | 147  | 156 | 174 | 192 | 210 | 228 | 246 | 263 | 281 | 299 | 317 | 335 |
| 150   | 177  | 188 | 209 | 230 | 252 | 273 | 295 | 316 | 338 | 359 | 380 | 402 |
| 175   | 206  | 219 | 244 | 269 | 294 | 319 | 344 | 369 | 394 | 419 | 444 | 469 |
| 200   | 236  | 250 | 279 | 307 | 336 | 364 | 393 | 421 | 450 | 479 | 507 | 536 |
| 225   | 265  | 281 | 313 | 346 | 378 | 410 | 442 | 474 | 506 | 538 |     |     |
| 250   | 268  | 313 | 348 | 384 | 420 | 455 | 491 | 527 |     |     |     |     |
| 275   | 324  | 344 | 383 | 422 | 462 | 501 | 540 |     |     |     |     |     |
| 300   | 354  | 375 | 418 | 461 | 504 | 456 |     |     |     |     |     |     |
| 325   | 383  | 406 | 453 | 499 | 546 |     |     |     |     |     |     |     |
| 350   | 413  | 438 | 488 | 538 |     |     |     |     |     |     |     |     |
| 375   | 442  | 469 | 522 |     |     |     |     |     |     |     |     |     |
| 400   | 471  | 500 |     |     |     |     |     |     |     |     |     |     |
| 425   | 501  | 531 |     |     |     |     |     |     |     |     |     |     |
| 450   | 530  |     |     |     |     |     |     |     |     |     |     |     |
| <b>NOTE:</b> When weighing equipment added, <b>ALWAYS</b> round the total weight <b>UP</b> to the pounds figure in the left column of this chart.<br>When measuring distance to the kickplate, <b>ALWAYS</b> round the distance <b>UP</b> to the next highest value at the top of this chart. |  |     |     |     |     |     |     |     |     |     |     |     |

## SECTION 2 - PLATFORM CAPACITY REDUCTION

**Table 2-3. Platform Capacity Reduction Chart -460SJ, 660SJ, 860SJ, 600AJ, 800AJ, 1200SJP, 1350SJP, 1250AJP\*, 1500AJP, 1500SJ, 1850SJ**

| Weight of Added Equipment (lbs.)  | Distance from kickplate below control box to equipment CG (inches)<br>(Distance A or Distance B) |     |     |     |     |     |     |     |     |     |     |     |
|---|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|   | 30   | 36  | 48  | 60  | 72  | 84  | 96  | 108 | 120 | 132 | 144 | 156 |
|   | Number of Pounds to reduce rated Platform Load by  |     |     |     |     |     |     |     |     |     |     |     |
| 50  | 58   | 61  | 67  | 74  | 80  | 86  | 93  | 99  | 105 | 111 | 118 | 124 |
| 75  | 87   | 92  | 101 | 110 | 120 | 129 | 139 | 148 | 158 | 167 | 177 | 186 |
| 100   | 116  | 122 | 135 | 147 | 160 | 172 | 185 | 198 | 210 | 223 | 235 | 248 |
| 125   | 145  | 153 | 168 | 184 | 200 | 216 | 231 | 247 | 263 | 279 | 294 | 310 |
| 150   | 174  | 183 | 202 | 221 | 240 | 259 | 278 | 296 | 315 | 334 | 353 | 372 |
| 175   | 203  | 214 | 236 | 258 | 280 | 302 | 324 | 346 | 368 | 390 | 412 | 434 |
| 200   | 231  | 244 | 269 | 294 | 320 | 345 | 370 | 395 | 420 | 446 | 471 | 496 |
| 225   | 260  | 275 | 303 | 331 | 360 | 388 | 416 | 445 | 473 | 501 | 530 | 558 |
| 250   | 289  | 305 | 337 | 368 | 400 | 431 | 463 | 494 | 526 | 557 | 589 | 620 |
| 275   | 318  | 336 | 370 | 405 | 440 | 474 | 509 | 544 | 578 | 613 | 648 | 682 |
| 300   | 347  | 366 | 404 | 442 | 480 | 517 | 555 | 593 | 631 | 669 | 707 | 744 |
| 325   | 376  | 397 | 438 | 479 | 520 | 561 | 602 | 643 | 684 | 725 | 765 | 806 |
| 350   | 405  | 427 | 471 | 515 | 560 | 604 | 648 | 692 | 736 | 780 | 824 | 868 |
| 375   | 434  | 458 | 505 | 552 | 600 | 647 | 694 | 741 | 789 | 836 | 883 | 931 |
| 400   | 463  | 488 | 539 | 589 | 640 | 690 | 740 | 791 | 841 | 892 | 942 | 993 |
| 425   | 492  | 519 | 572 | 626 | 680 | 733 | 787 | 840 | 894 | 947 |     |     |
| 450   | 521  | 549 | 606 | 663 | 719 | 776 | 833 | 890 | 946 |     |     |     |
| 475   | 550  | 580 | 640 | 700 | 759 | 819 | 879 | 939 | 999 |     |     |     |
| 500   | 579  | 610 | 673 | 736 | 799 | 862 | 926 | 989 |     |     |     |     |
| 525   | 608  | 641 | 707 | 773 | 839 | 906 | 972 |     |     |     |     |     |
| 550   | 637  | 671 | 741 | 810 | 879 | 949 |     |     |     |     |     |     |
| 575   | 666  | 702 | 774 | 847 | 919 | 992 |     |     |     |     |     |     |
| 600   | 695  | 732 | 808 | 884 | 959 |     |     |     |     |     |     |     |
| 625   | 723  | 763 | 842 | 920 | 999 |     |     |     |     |     |     |     |
| 650   | 752  | 793 | 875 | 957 |     |     |     |     |     |     |     |     |
| 675   | 781  | 824 | 909 | 994 |     |     |     |     |     |     |     |     |
| 700   | 810  | 854 | 943 |     |     |     |     |     |     |     |     |     |
| 725   | 839  | 885 | 976 |     |     |     |     |     |     |     |     |     |
| 750   | 868  | 915 |     |     |     |     |     |     |     |     |     |     |
| 775   | 897  | 946 |     |     |     |     |     |     |     |     |     |     |
| 800   | 926  | 977 |     |     |     |     |     |     |     |     |     |     |
| 825   | 955  |     |     |     |     |     |     |     |     |     |     |     |
| 850   | 984  |     |     |     |     |     |     |     |     |     |     |     |
| <b>NOTE:</b> When weighing equipment added, <b>ALWAYS</b> round the total weight <b>UP</b> to the pounds figure in the left column of this chart.<br>When measuring distance to the kickplate, <b>ALWAYS</b> round the distance <b>UP</b> to the next highest value at the top of this chart.<br>* For model 1250AJP, only SN 0300144623 to present can be used in accordance with this manual. |  |     |     |     |     |     |     |     |     |     |     |     |

## **SECTION 3. RANGE DIAGRAMS**

### **3.1 RANGE OF MOTION**

The Range of Motion charts in this section are to be used under the following conditions:

- The Range of Motion charts are for those thoroughly trained in the use of the aerial work platform and the movie production equipment as outlined in Section 1 of this manual.
- Do not exceed the maximum rating for each model as shown on the applicable Range of Motion chart.
- The machine must be positioned on smooth, firm, and level surface capable of supporting the weight of the machine.
- Elevating a work platform in windy conditions must be restricted to the instructions found in this supplement and in the Operation Manual for the specific machine being used.
- Platform loading must be restricted to the instructions found in this supplement and in the Operation Manual for the specific machine being used. Capacities shown are for platform operators and materials.

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

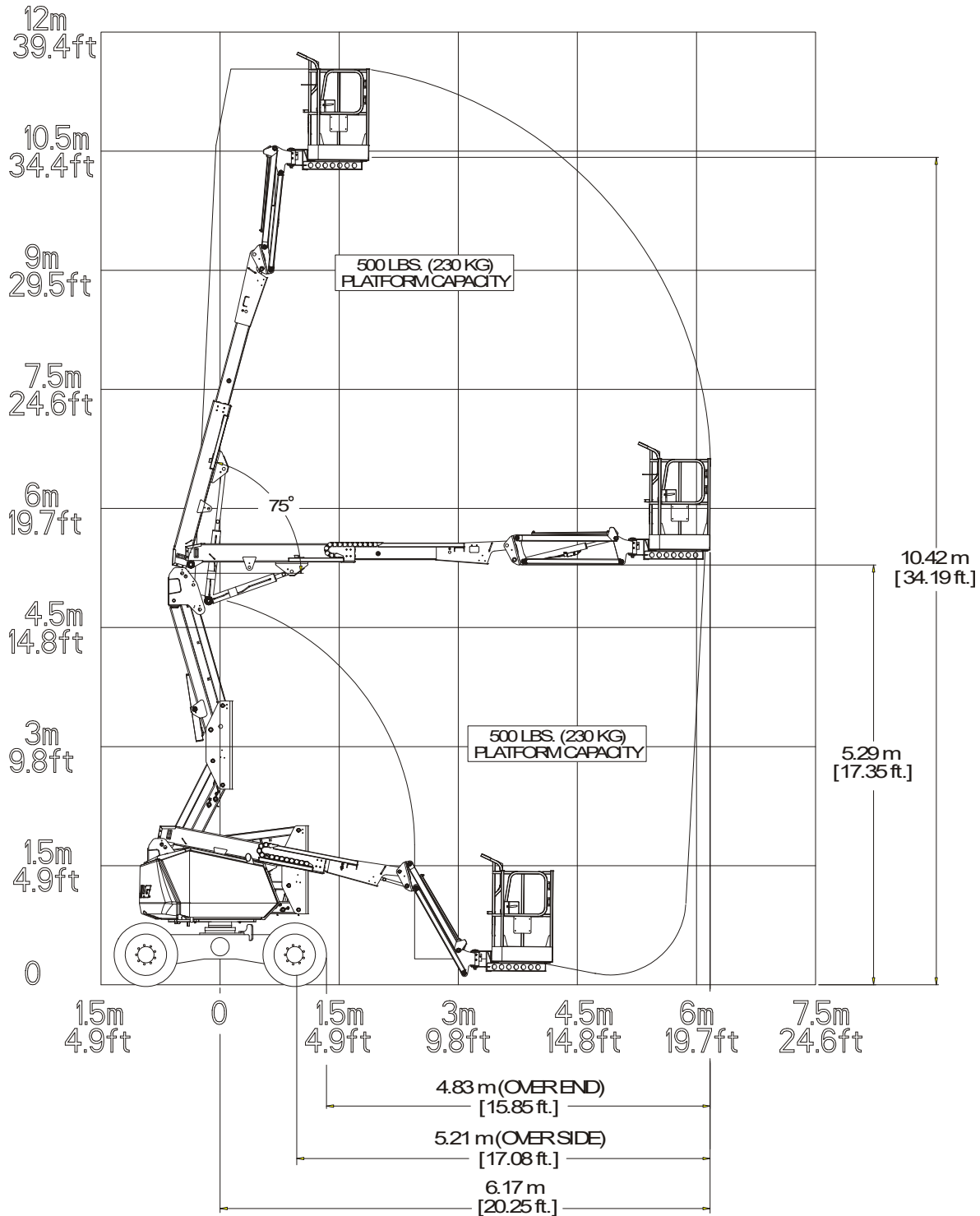


Figure 3-1. 340AJ Reach Chart



NOTE: Capacities shown are for Operators and/or materials.

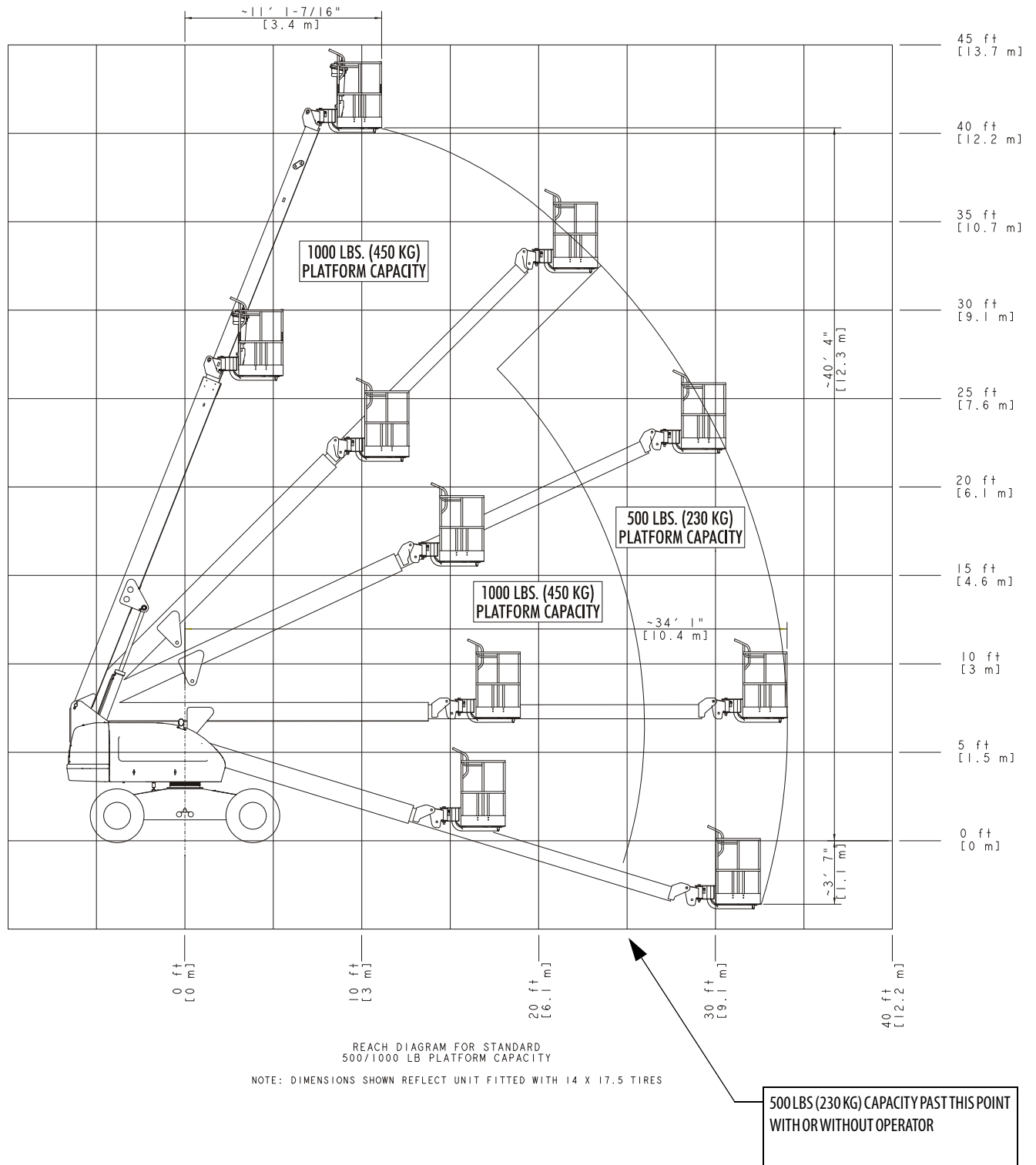
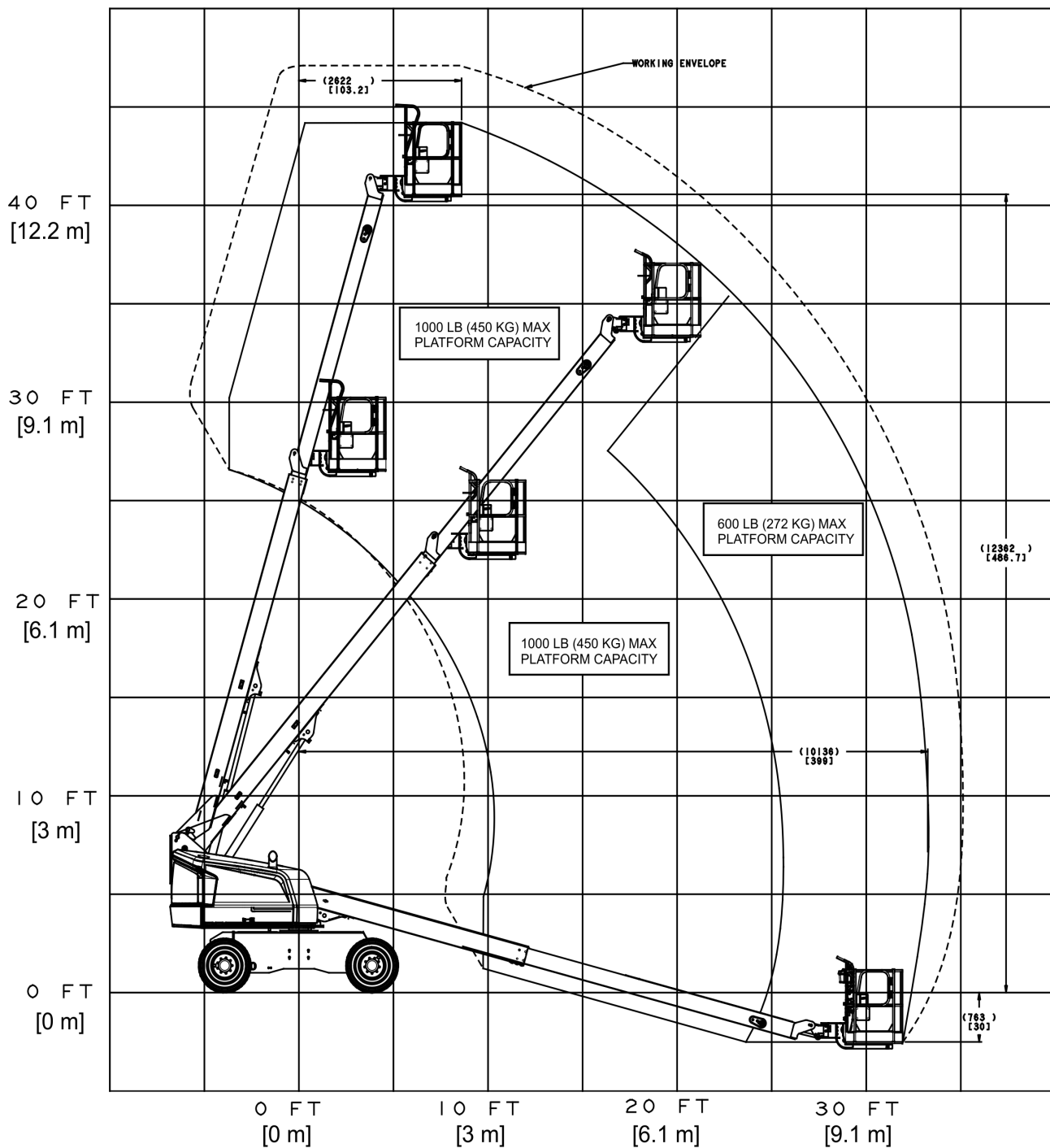


Figure 3-2. 400S Reach Chart (Prior to SN 0300203771)

## SECTION 3 - RANGE DIAGRAMS

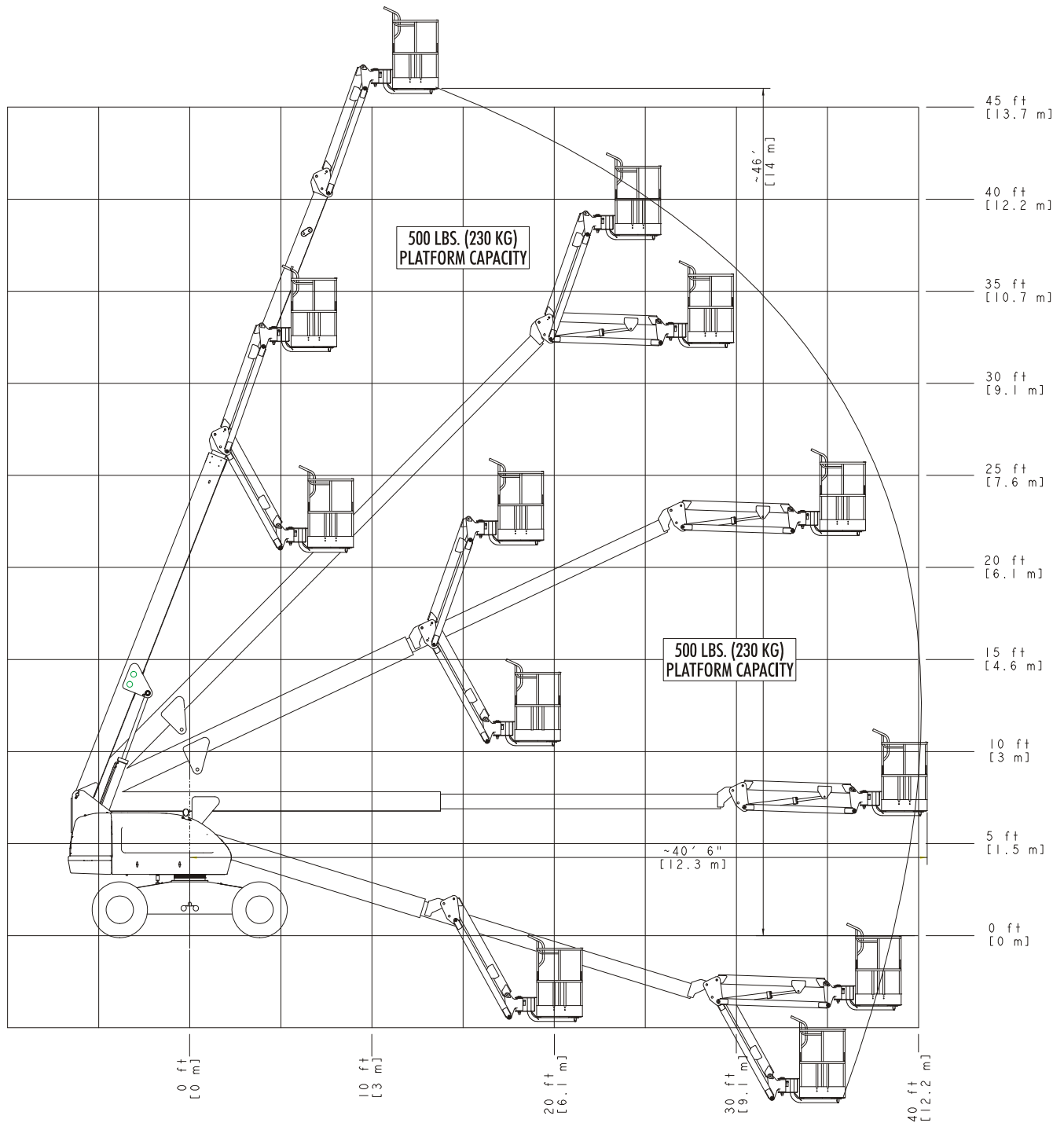
NOTE: Capacities shown are for Operators and/or materials.



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Figure 3-3. 400S Reach Chart (SN 0300203771 to Present)

NOTE: Capacities shown are for Operators and/or materials.



**Figure 3-4. 460SJ Reach Chart**

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

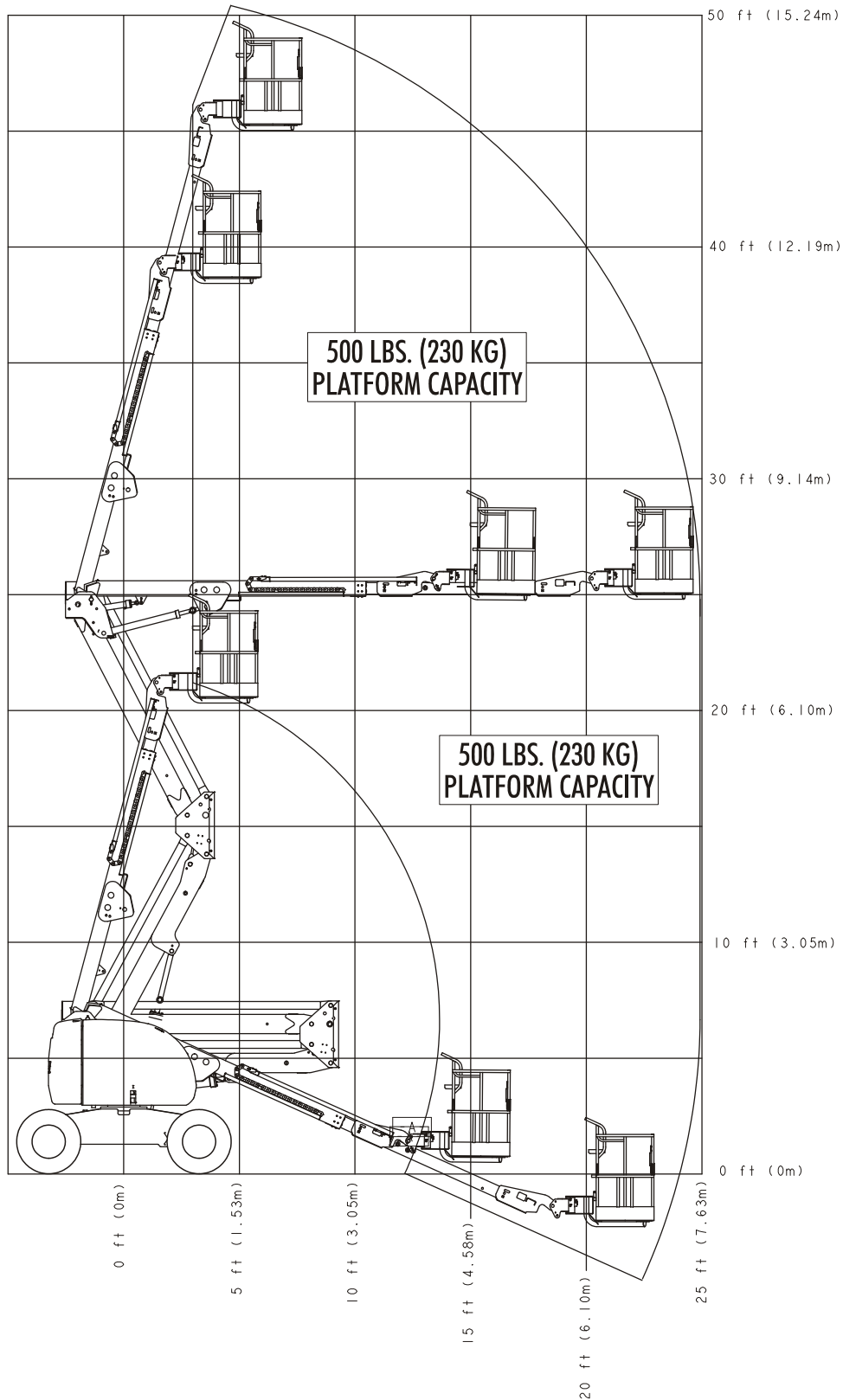


Figure 3-5. 450A Series II Reach Chart (Prior to SN 03000201991, 1300007279, & E300002833)

NOTE: Capacities shown are for Operators and/or materials.

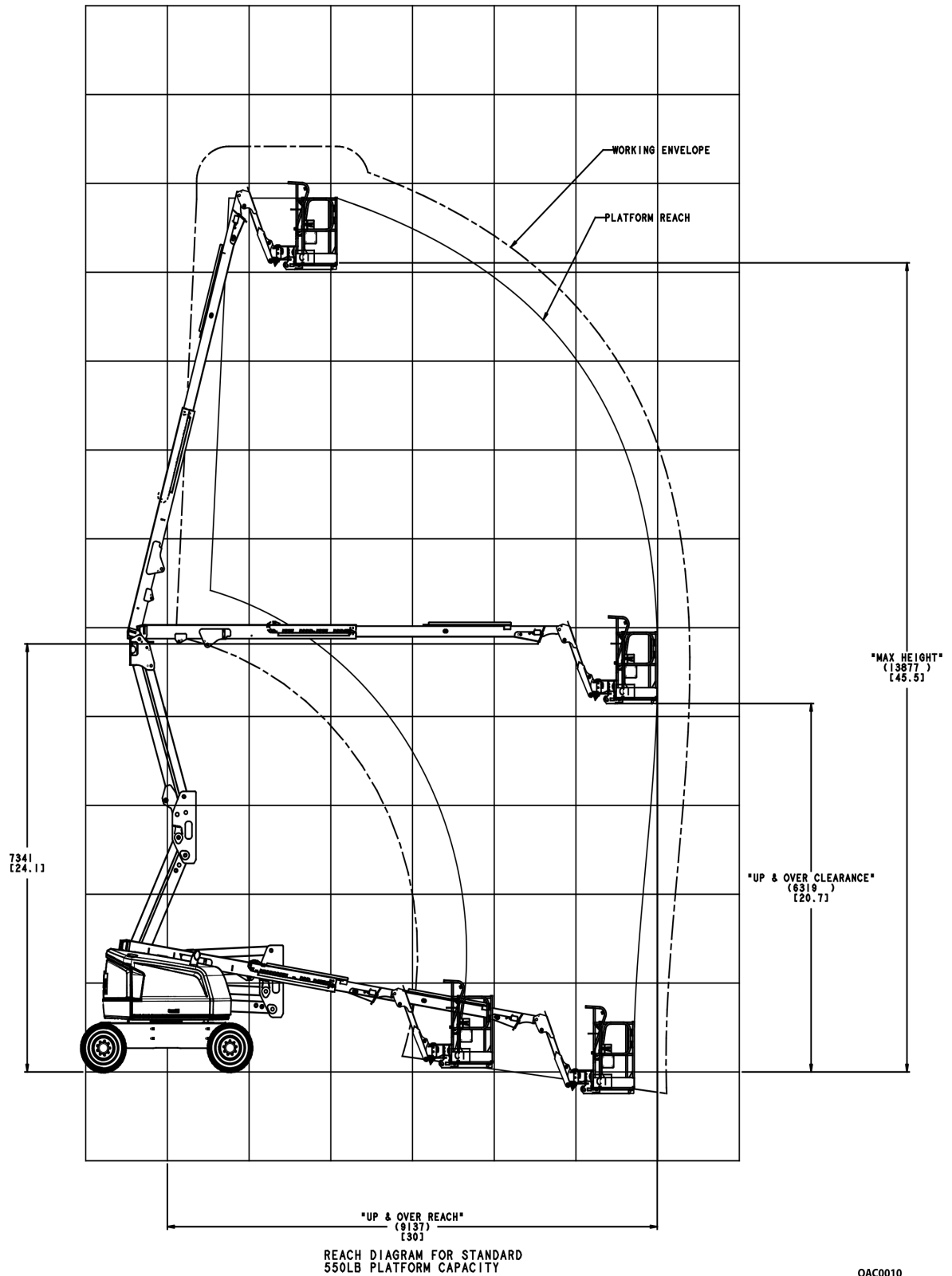


Figure 3-6. 450A Reach Chart (SN 03000201991, 1300007279, & E300002833 to Present)

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

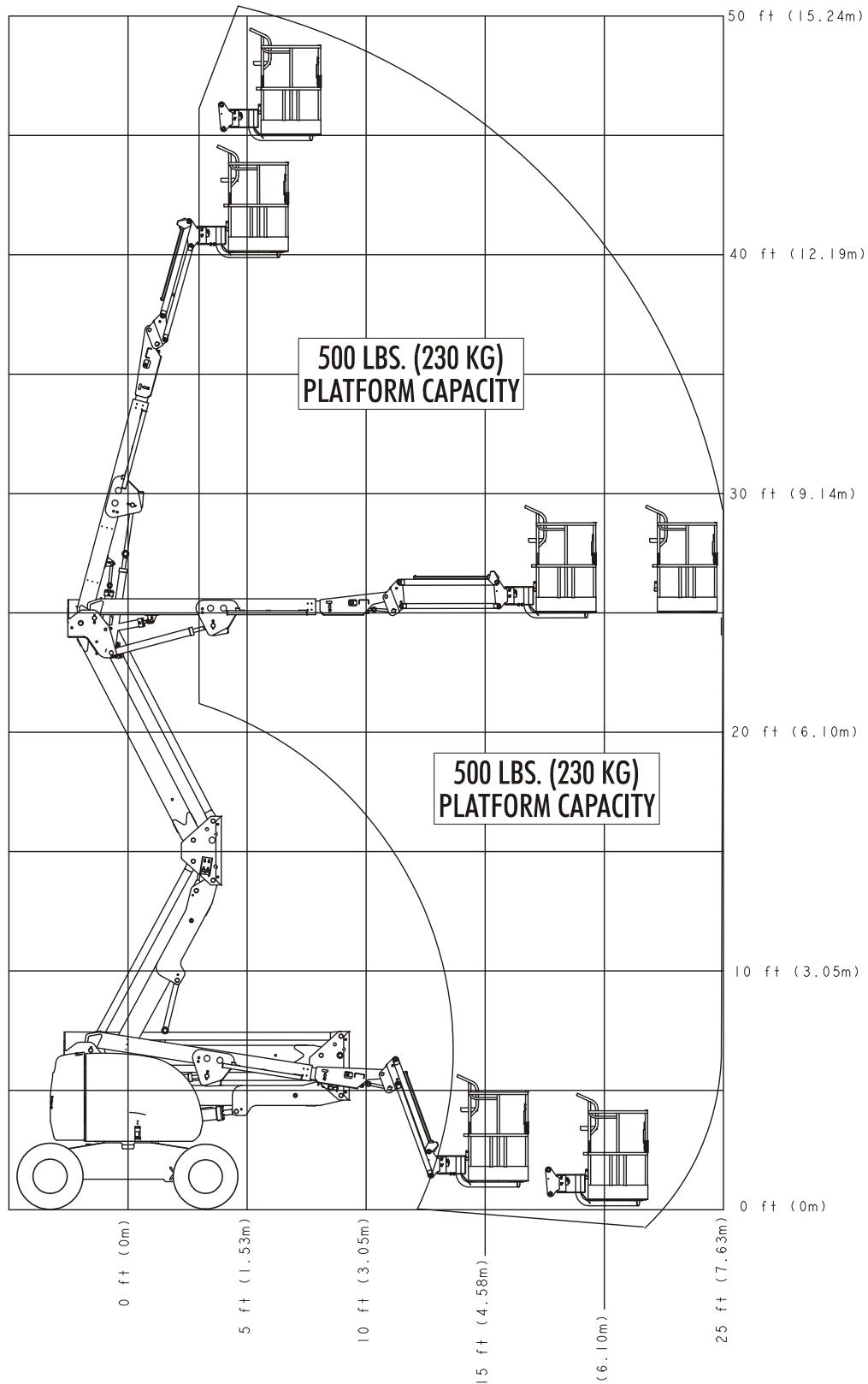
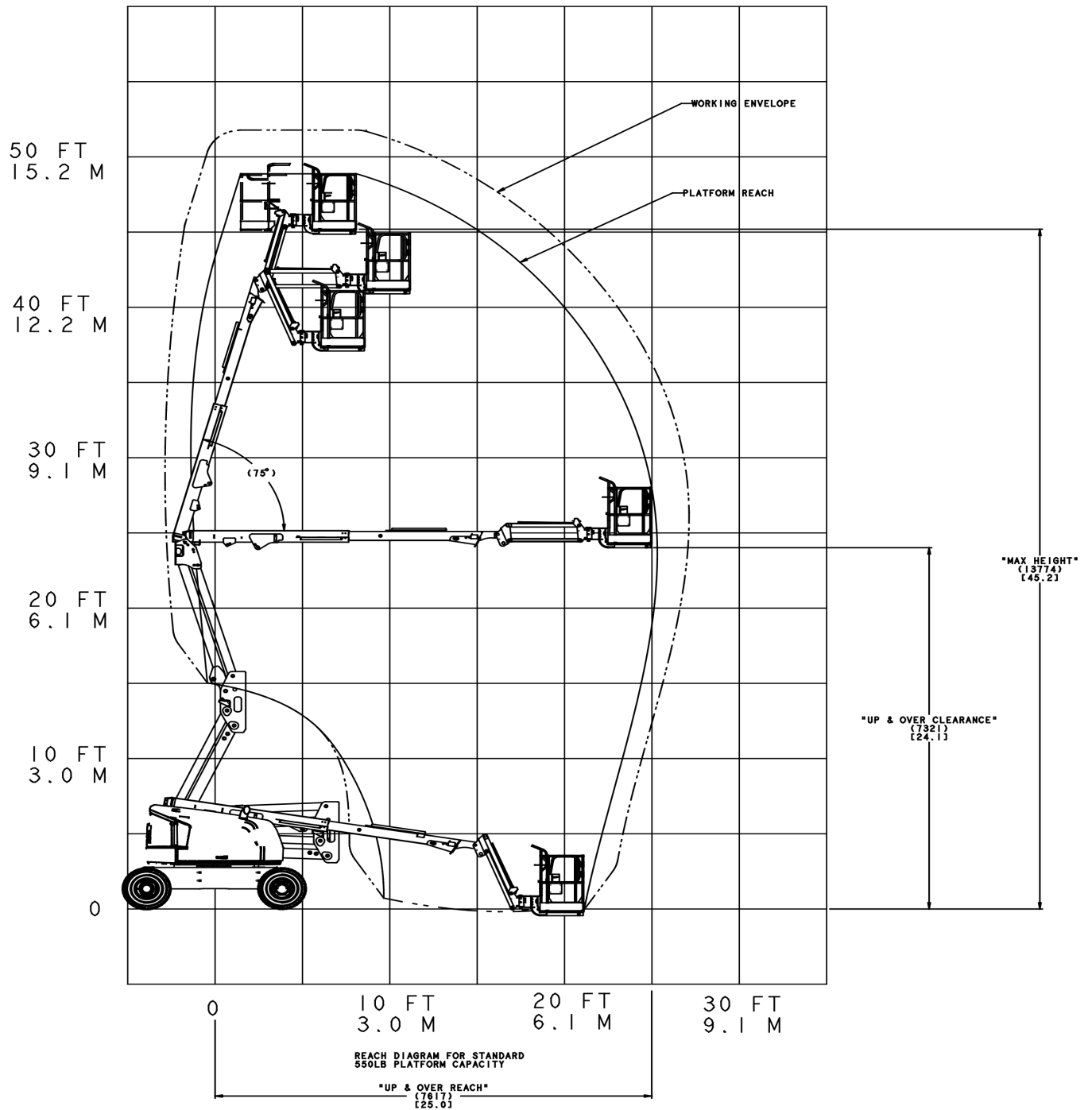


Figure 3-7. 450AJ Series II Reach Chart (Prior to SN 03000201991, 1300007279, & E300002833)

NOTE: Capacities shown are for Operators and/or materials.



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Figure 3-8. 450AJ Reach Chart (SN 03000201991, 1300007279, & E300002833 to Present)

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

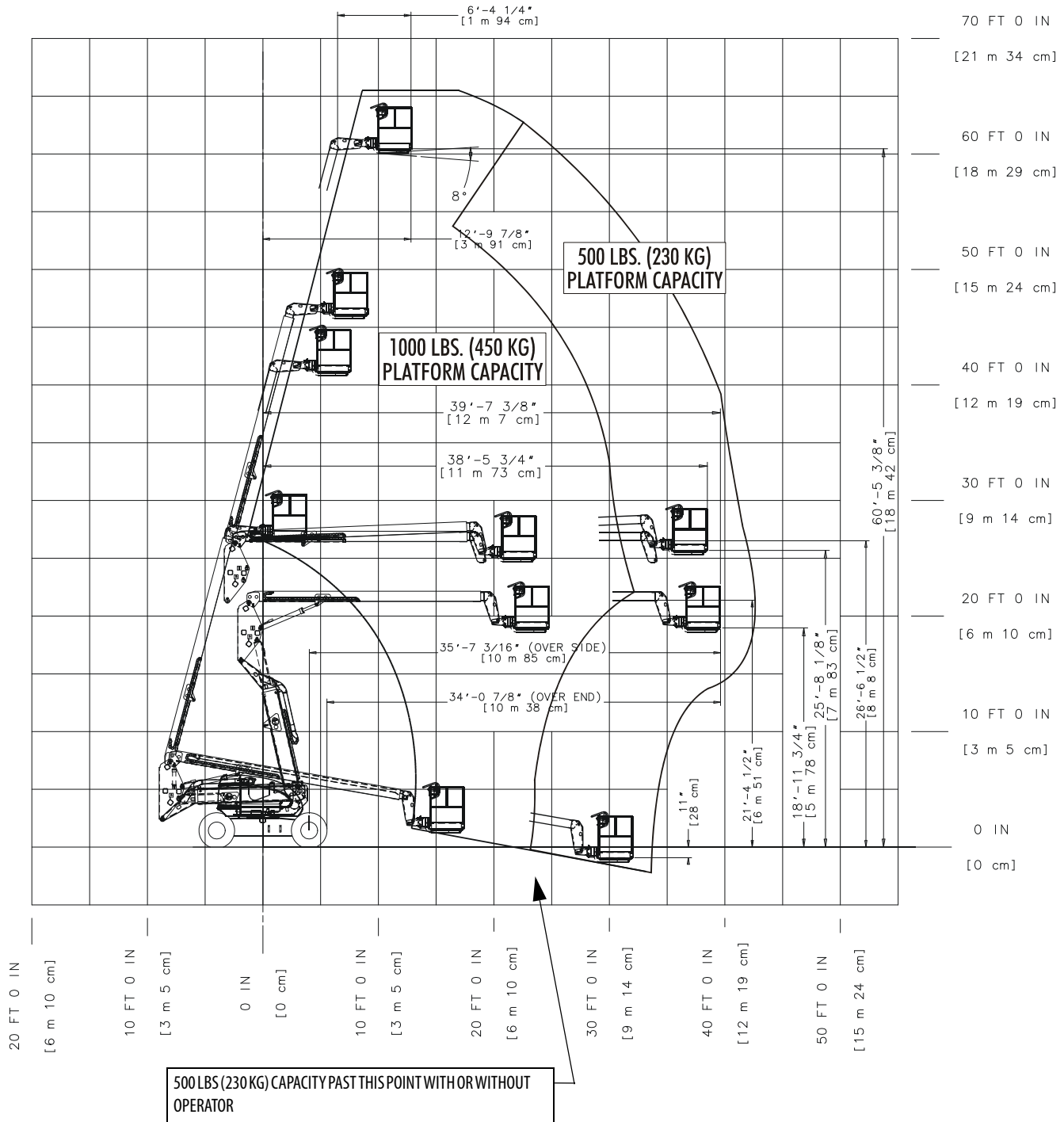


Figure 3-9. 600A Reach Chart



NOTE: Capacities shown are for Operators and/or materials.

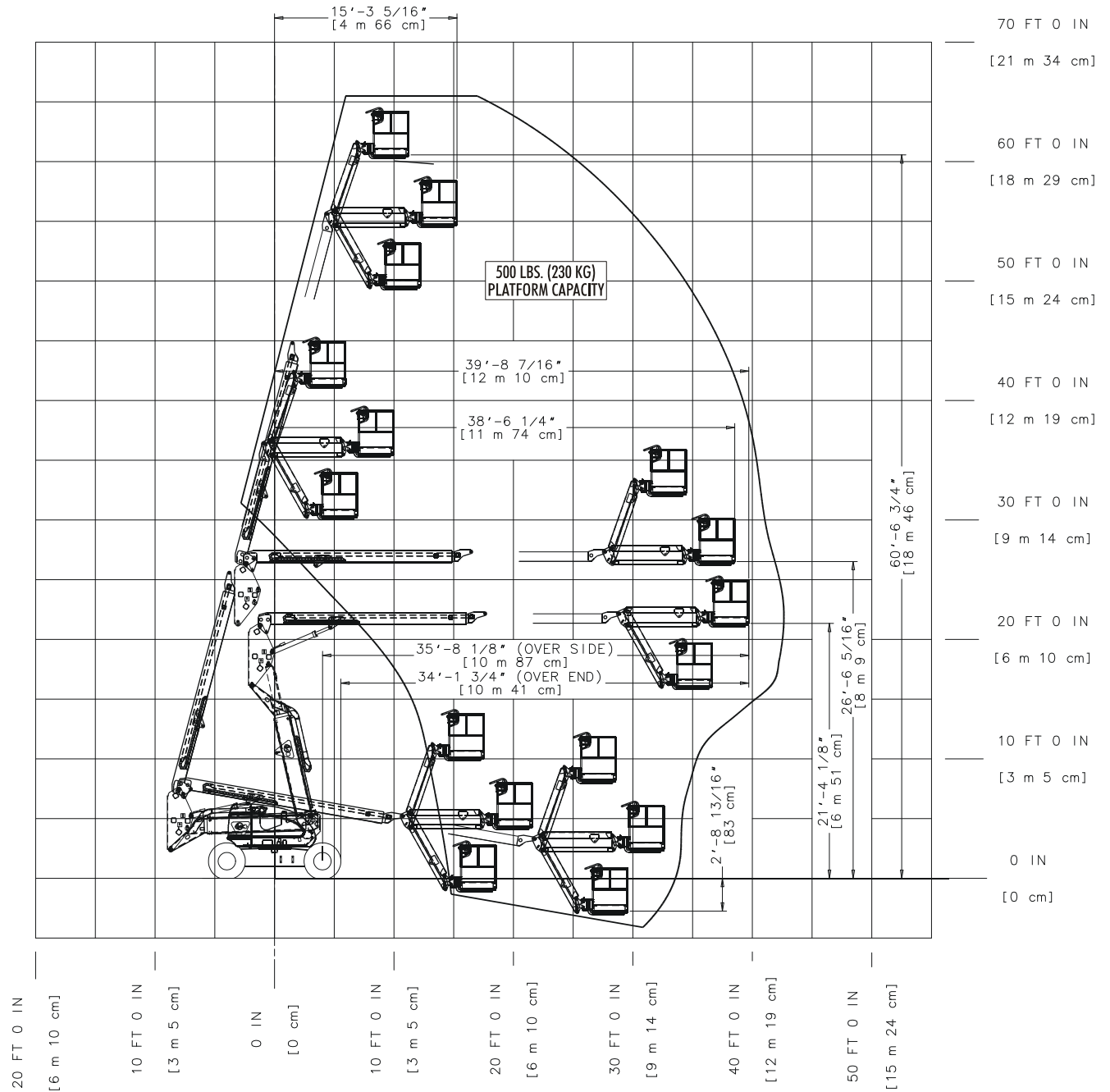


Figure 3-10. 600AJ Reach Chart

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

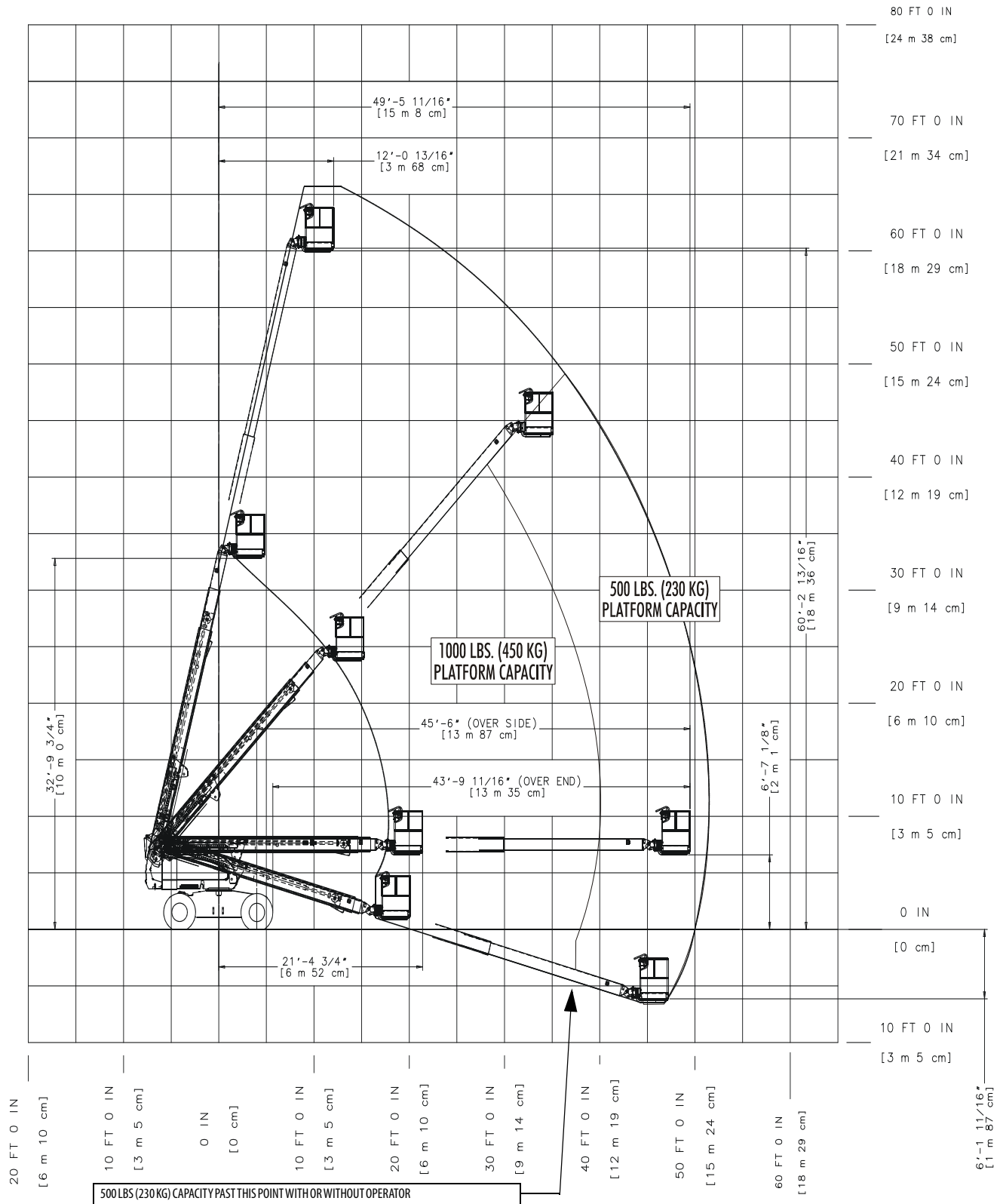


Figure 3-11. 600S Reach Chart (Prior to SN 0300235168)

NOTE: Capacities shown are for Operators and/or materials.

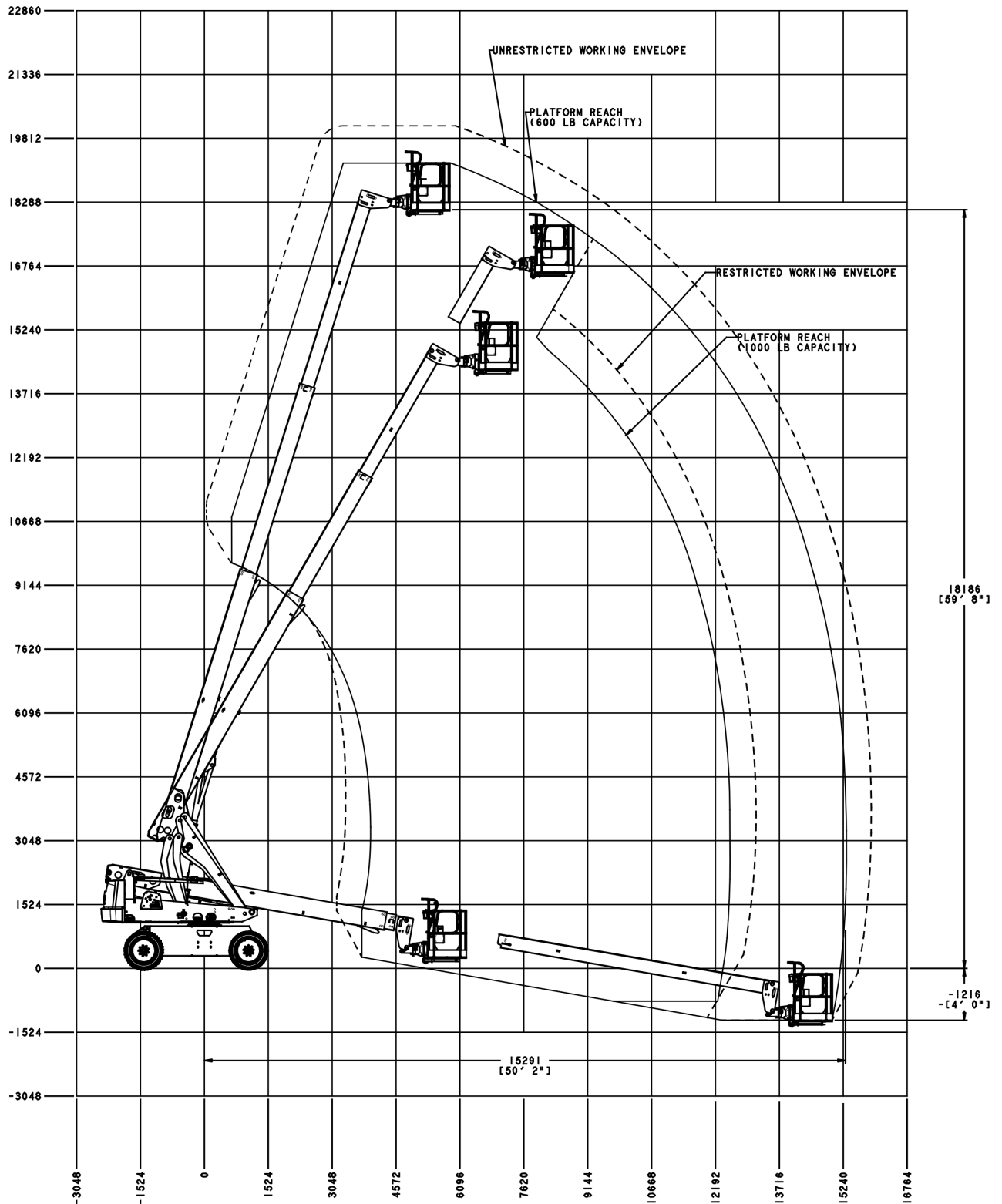


Figure 3-12. 600S Reach Chart (SN 0300235168 & B300002655 to Present)

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## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

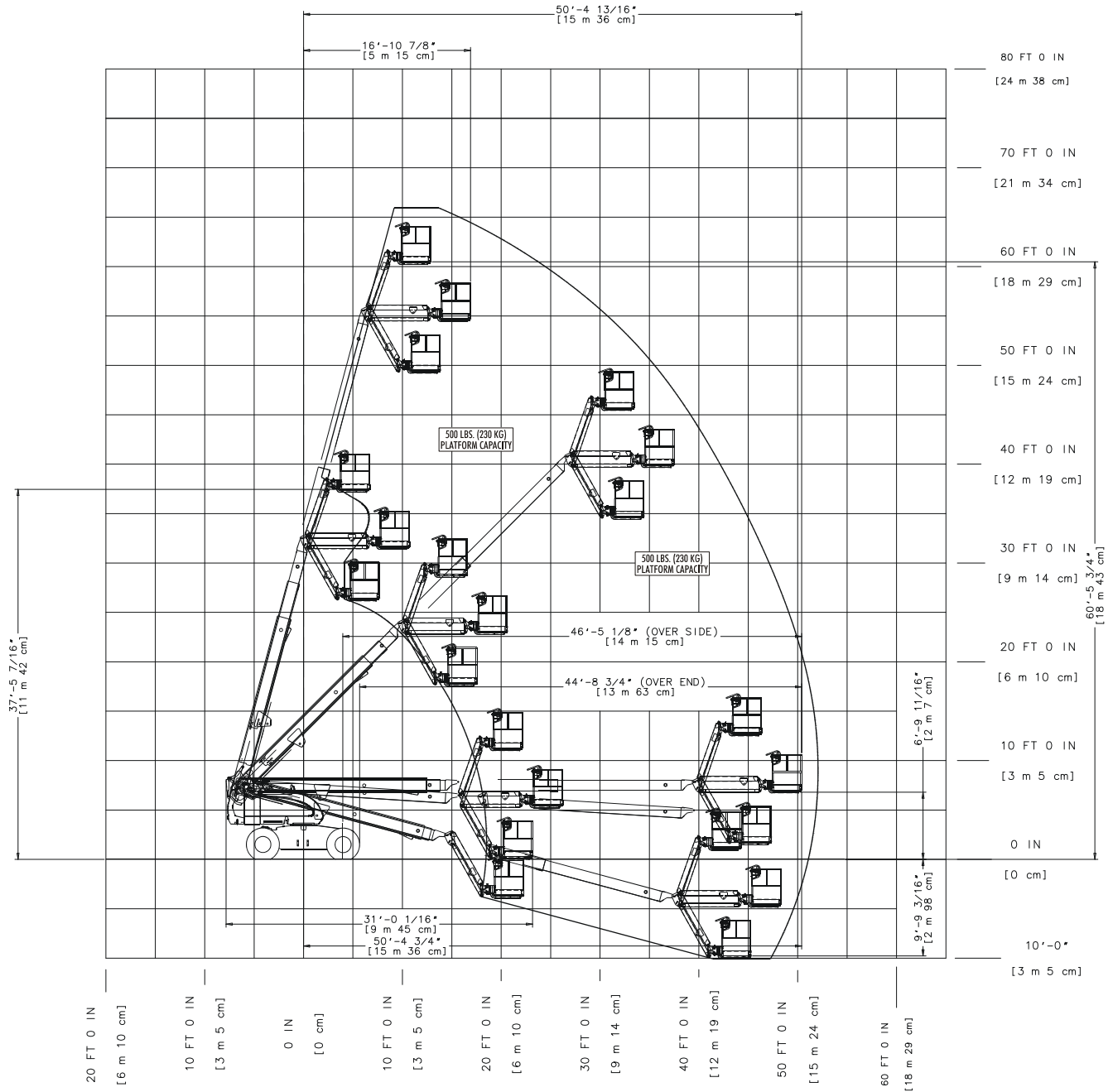


Figure 3-13. 600SJ Reach Chart

NOTE: Capacities shown are for Operators and/or materials.

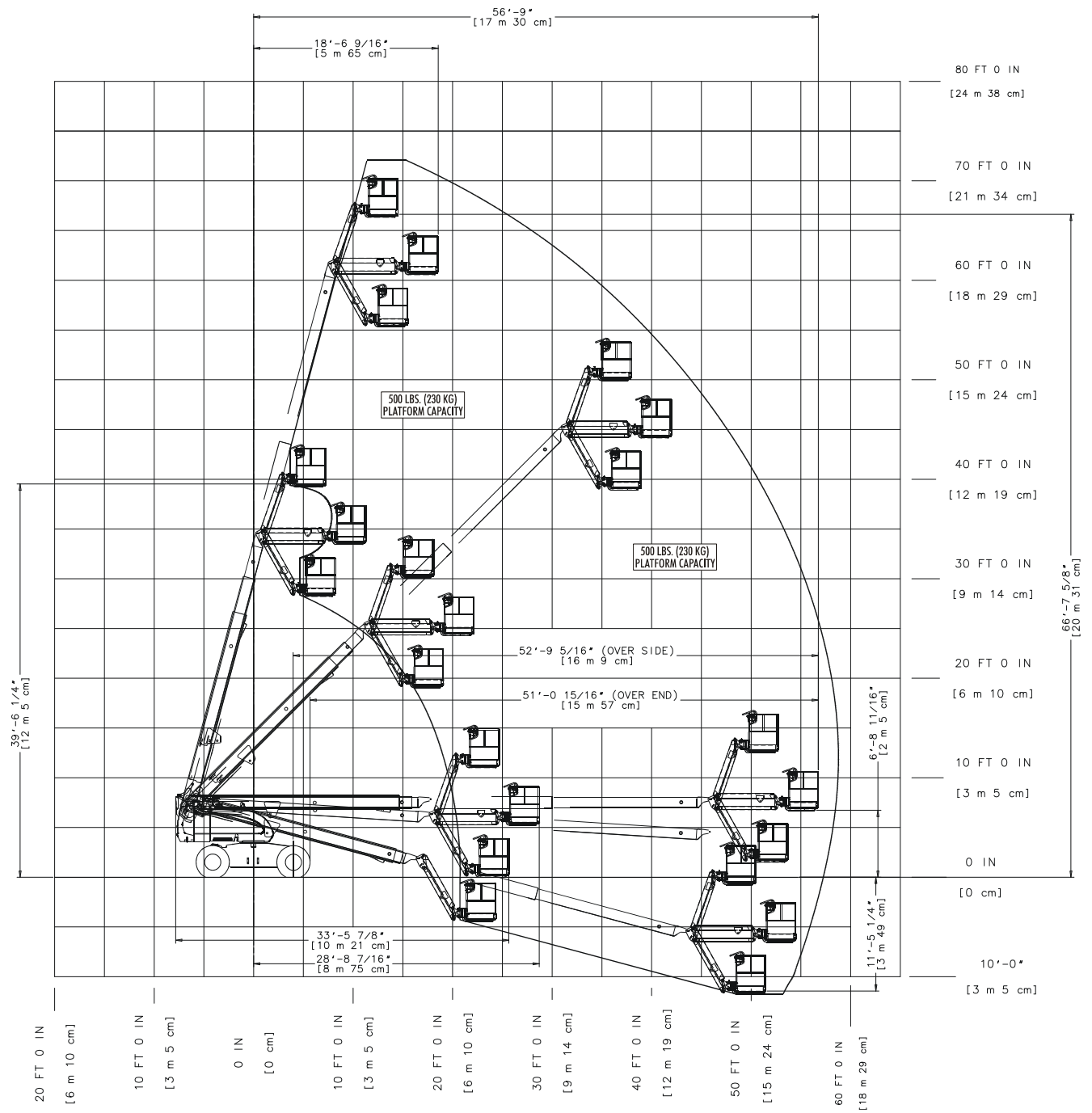
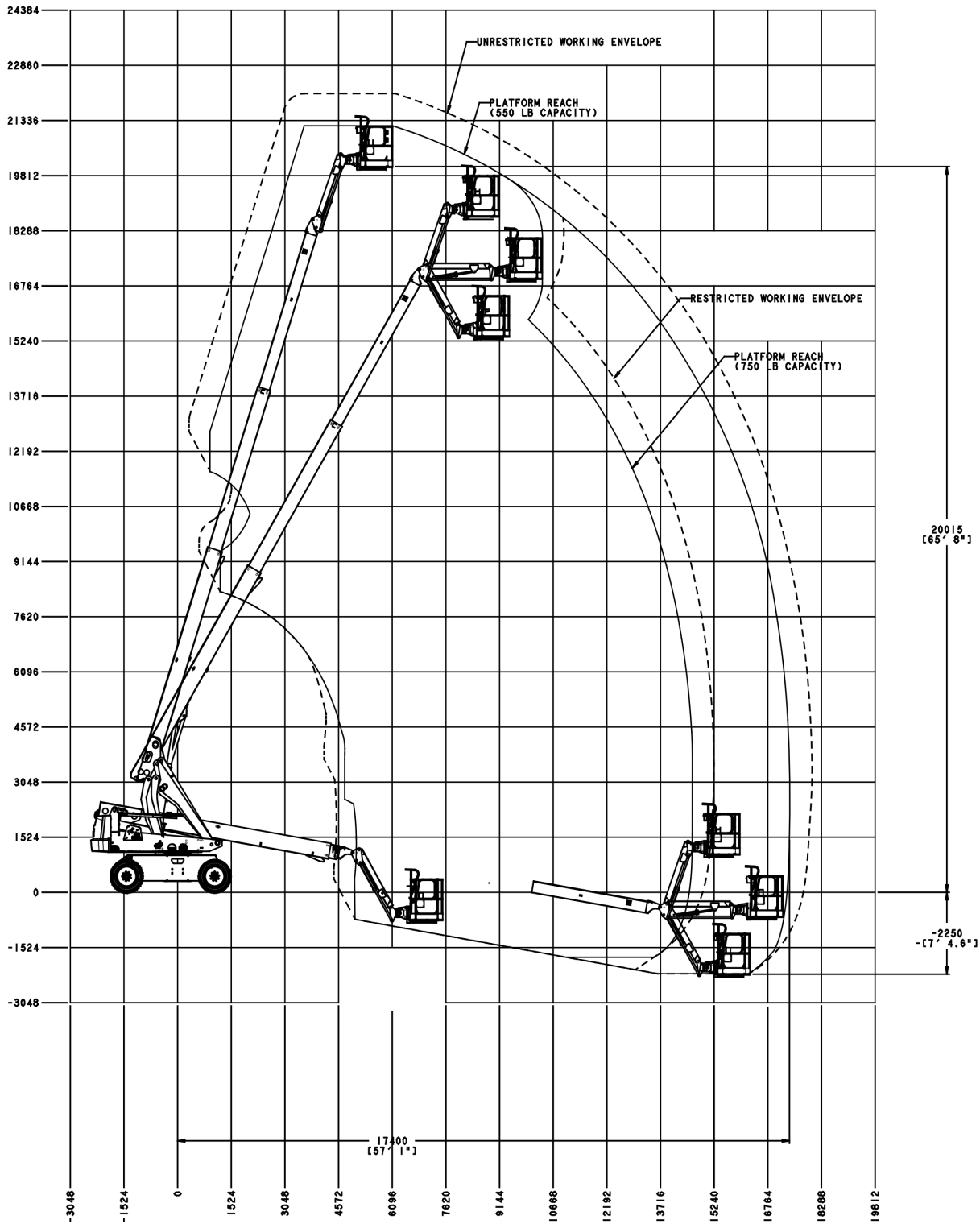


Figure 3-14. 660SJ Reach Chart (Prior to SN 0300235168)

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.



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Figure 3-15. 660SJ Reach Chart (SN 0300235168 & B300002655 to Present)

NOTE: Capacities shown are for Operators and/or materials.

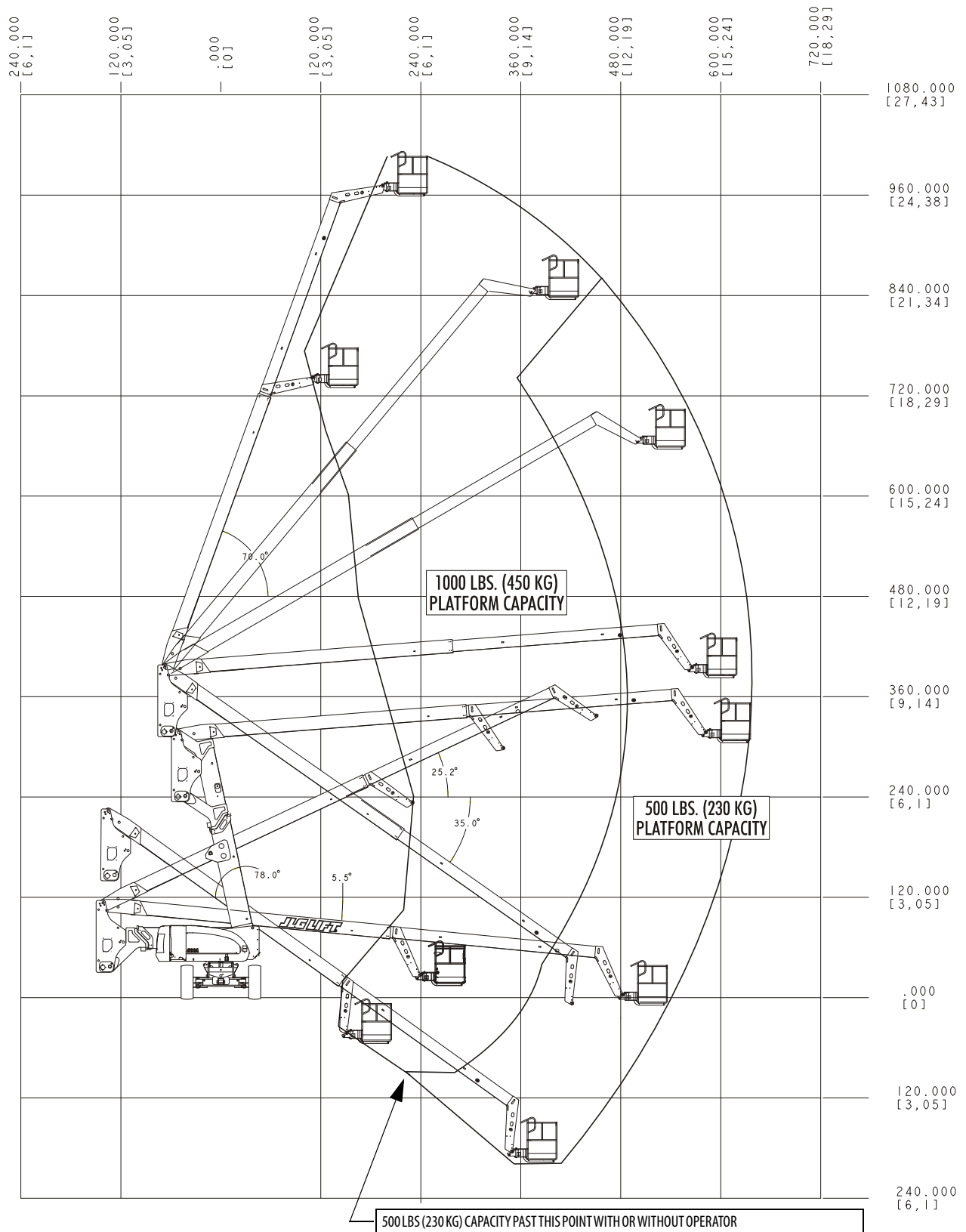


Figure 3-16. 800A Reach Chart

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

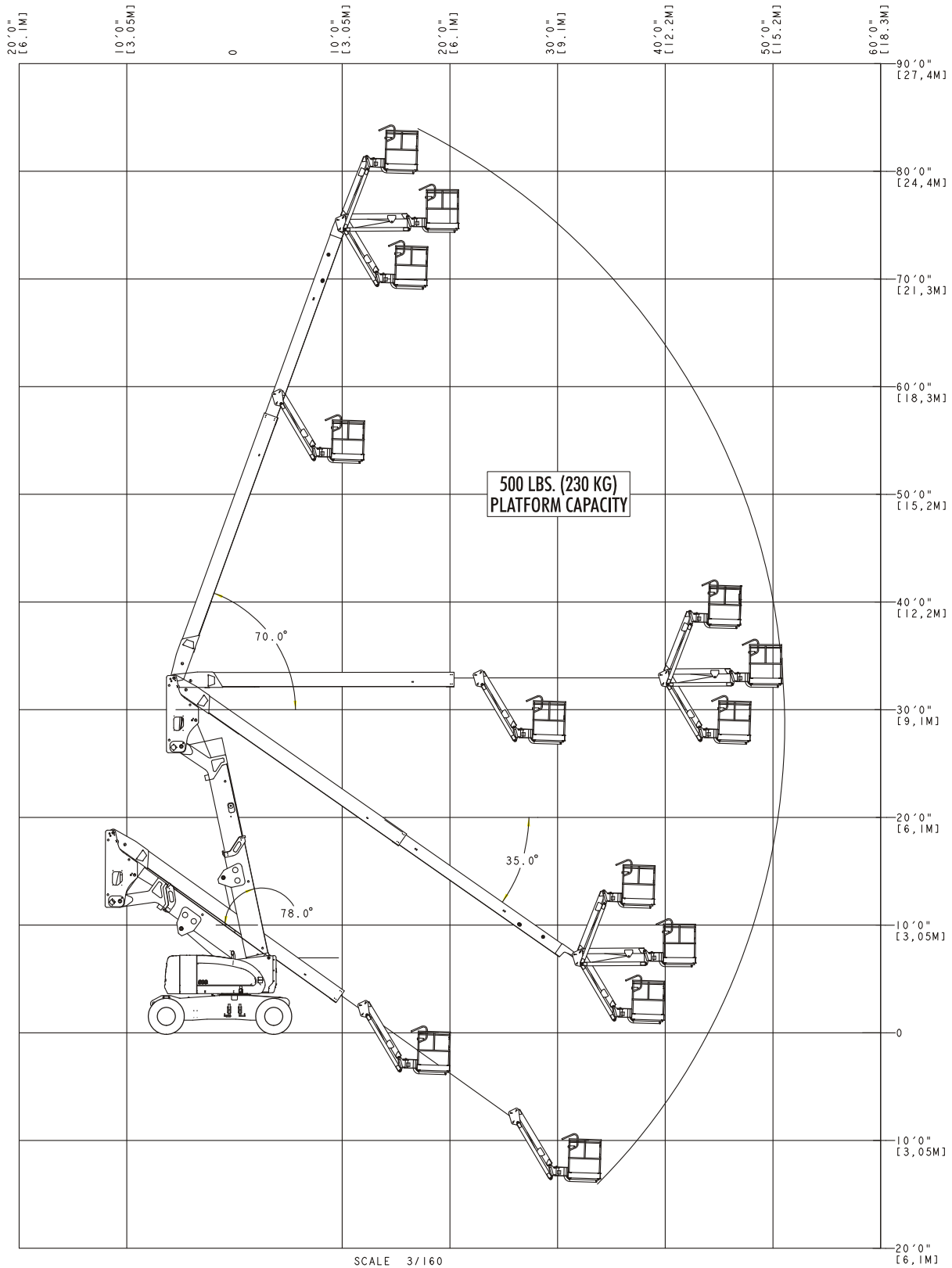


Figure 3-17. 800AJ Reach Chart



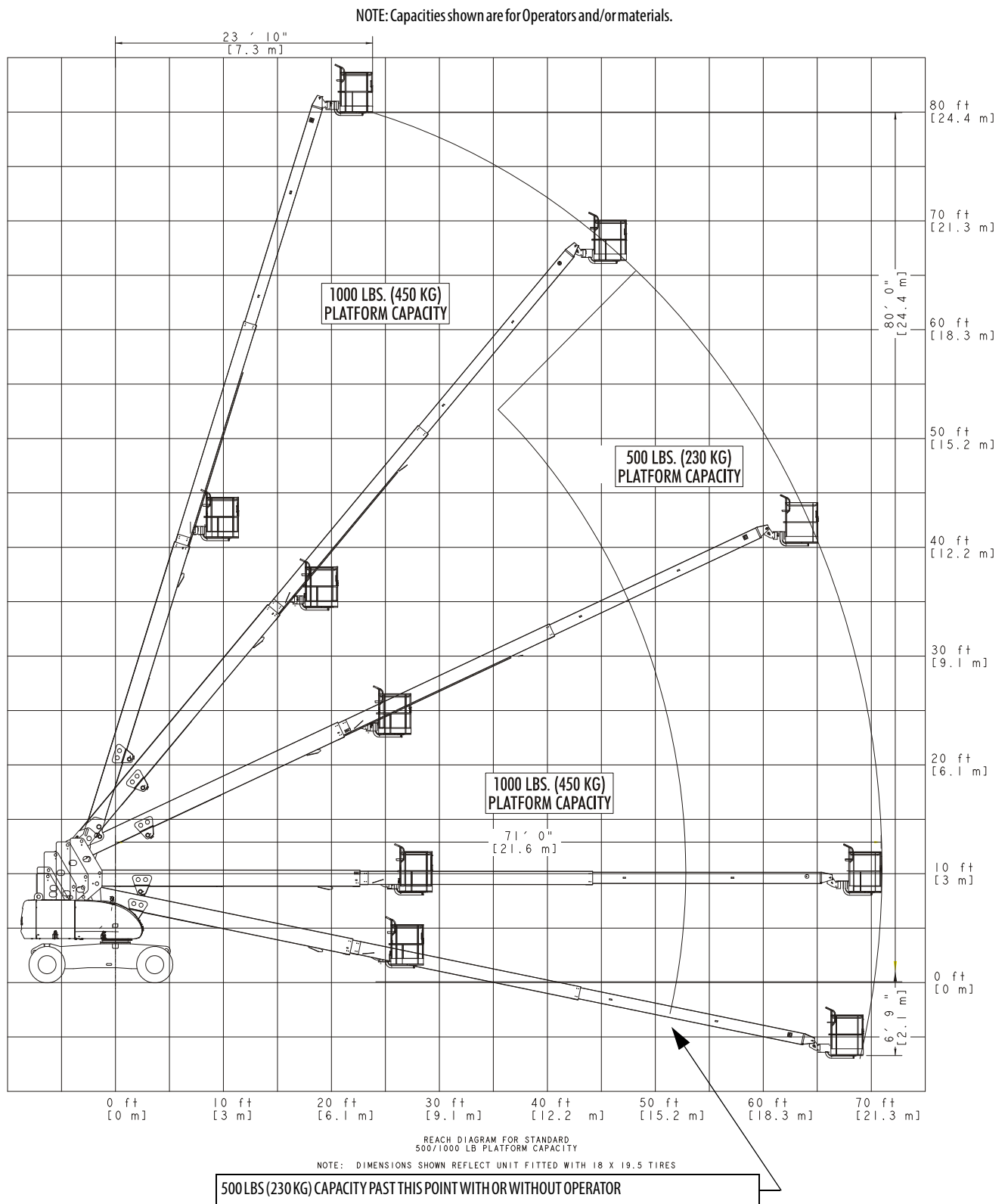
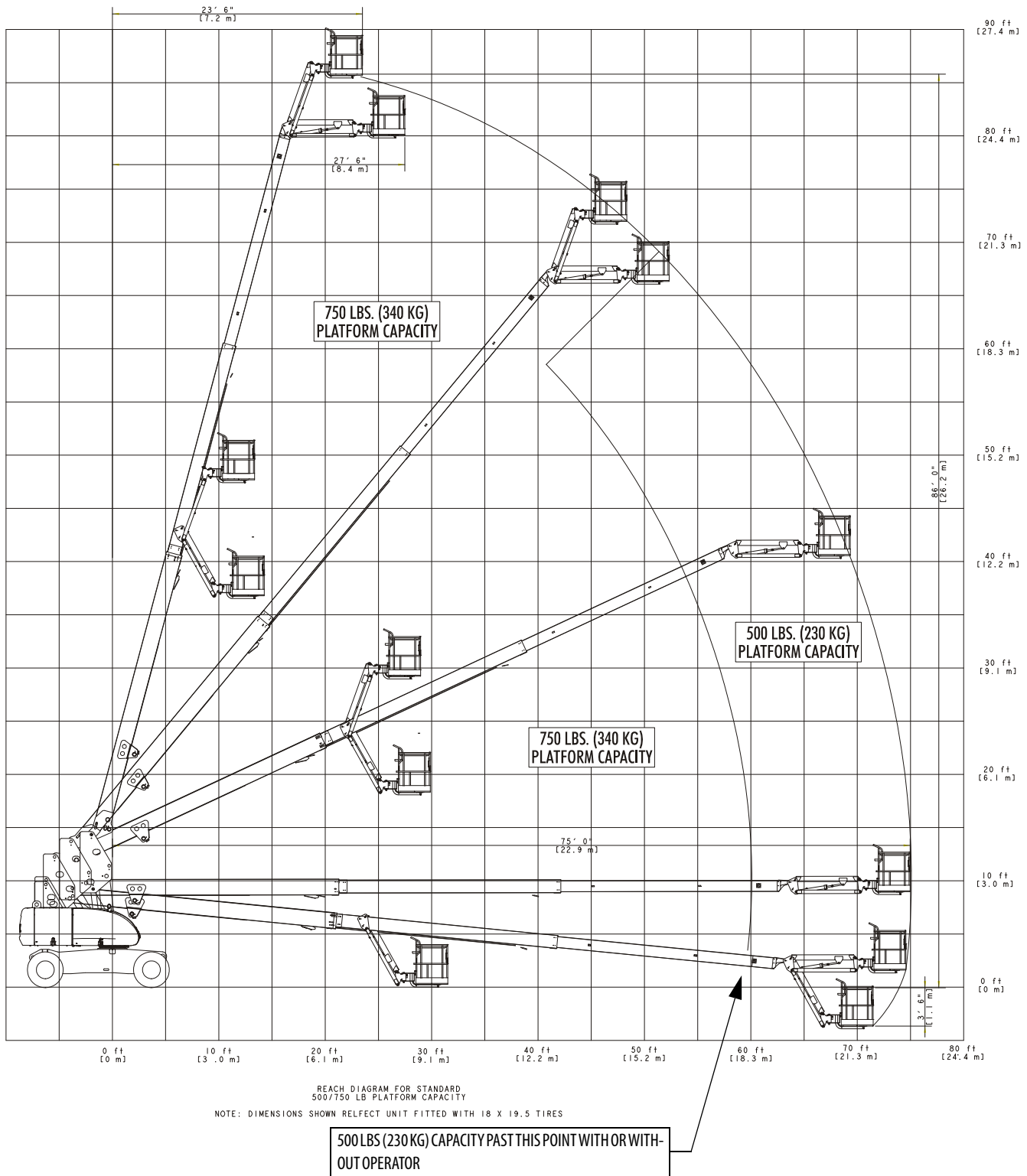


Figure 3-18. 800S Reach Chart

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.



**Figure 3-19. 860SJ Reach Chart**

NOTE: Capacities shown are for Operators and/or materials.

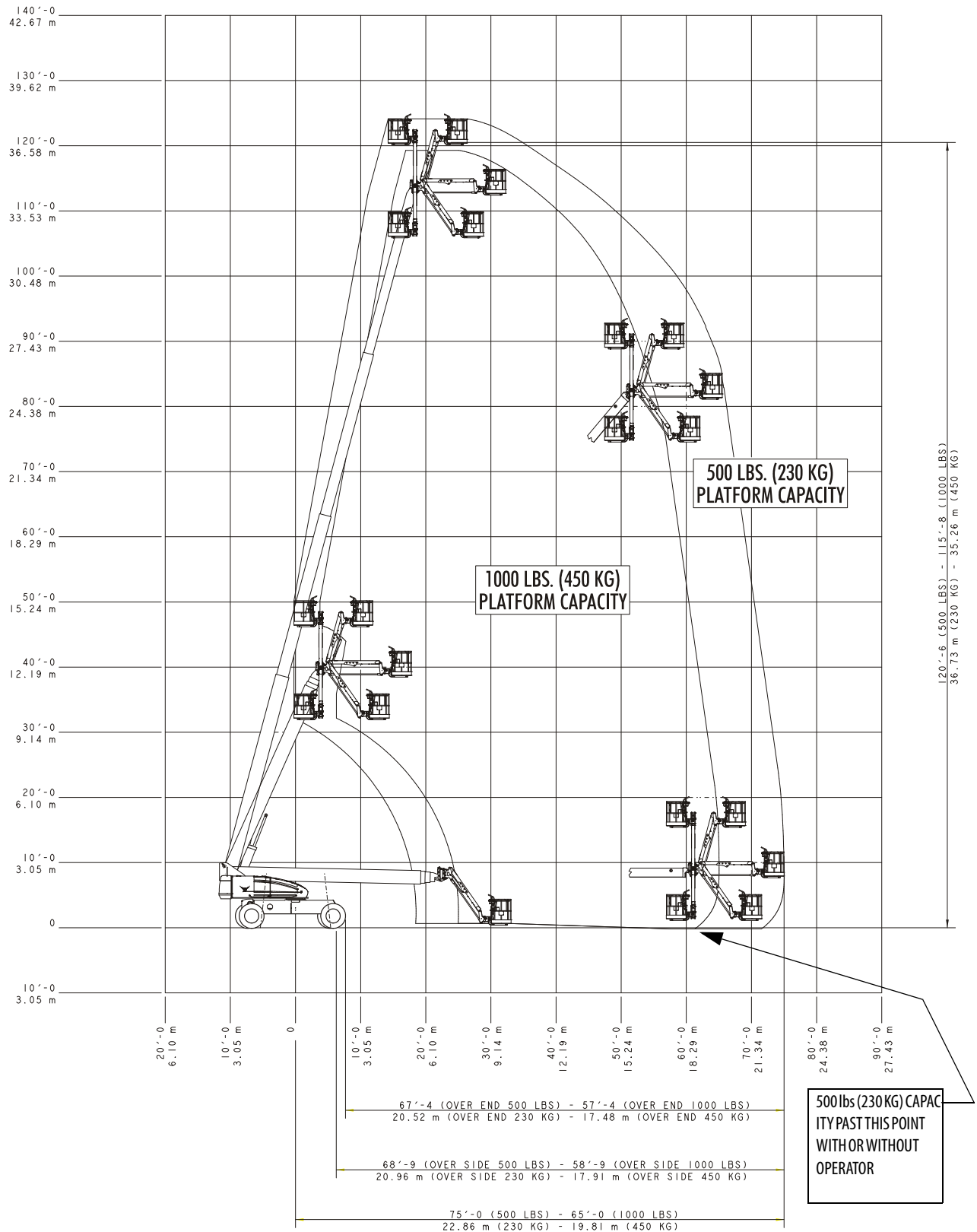
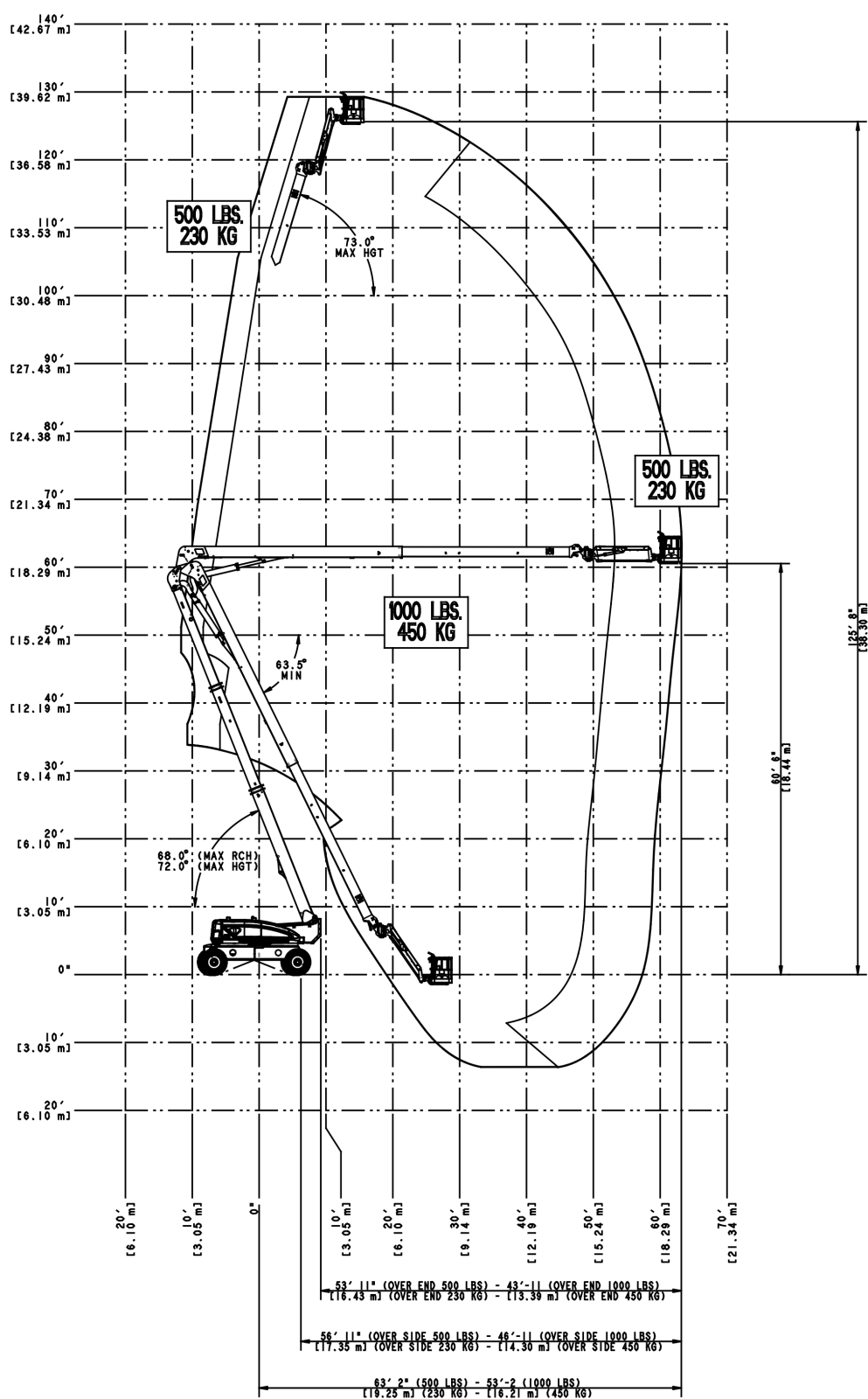


Figure 3-20. 1200SJP Reach Chart

### **SECTION 3 - RANGE DIAGRAMS**

NOTE: Capacities shown are for Operators and/or materials.



**Figure 3-21. 1250AJP Reach Chart (SN 0300144623 to Present)**

NOTE: Capacities shown are for Operators and/or materials.

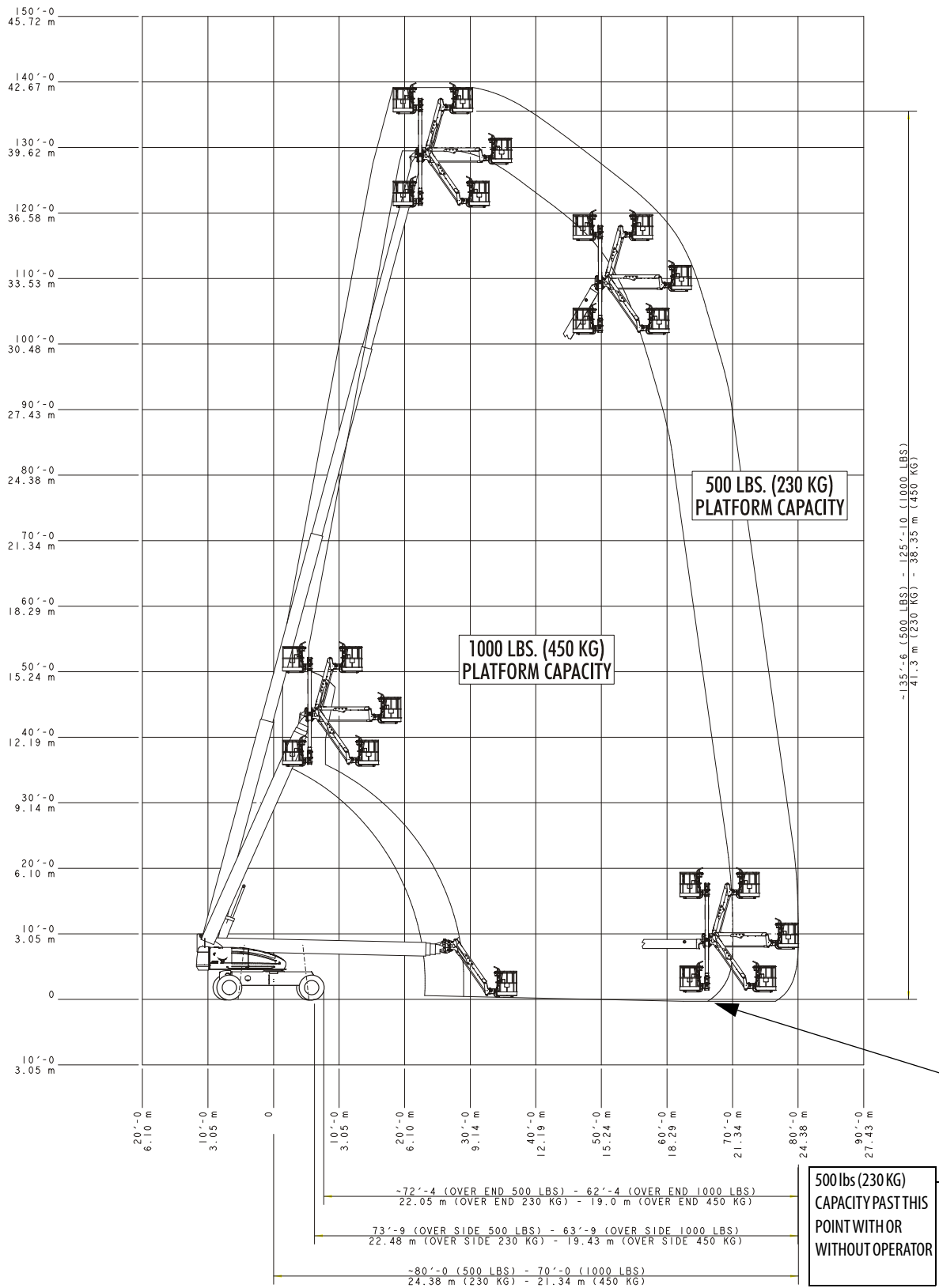


Figure 3-22. 1350SJP Reach Chart

## SECTION 3 - RANGE DIAGRAMS

NOTE: Capacities shown are for Operators and/or materials.

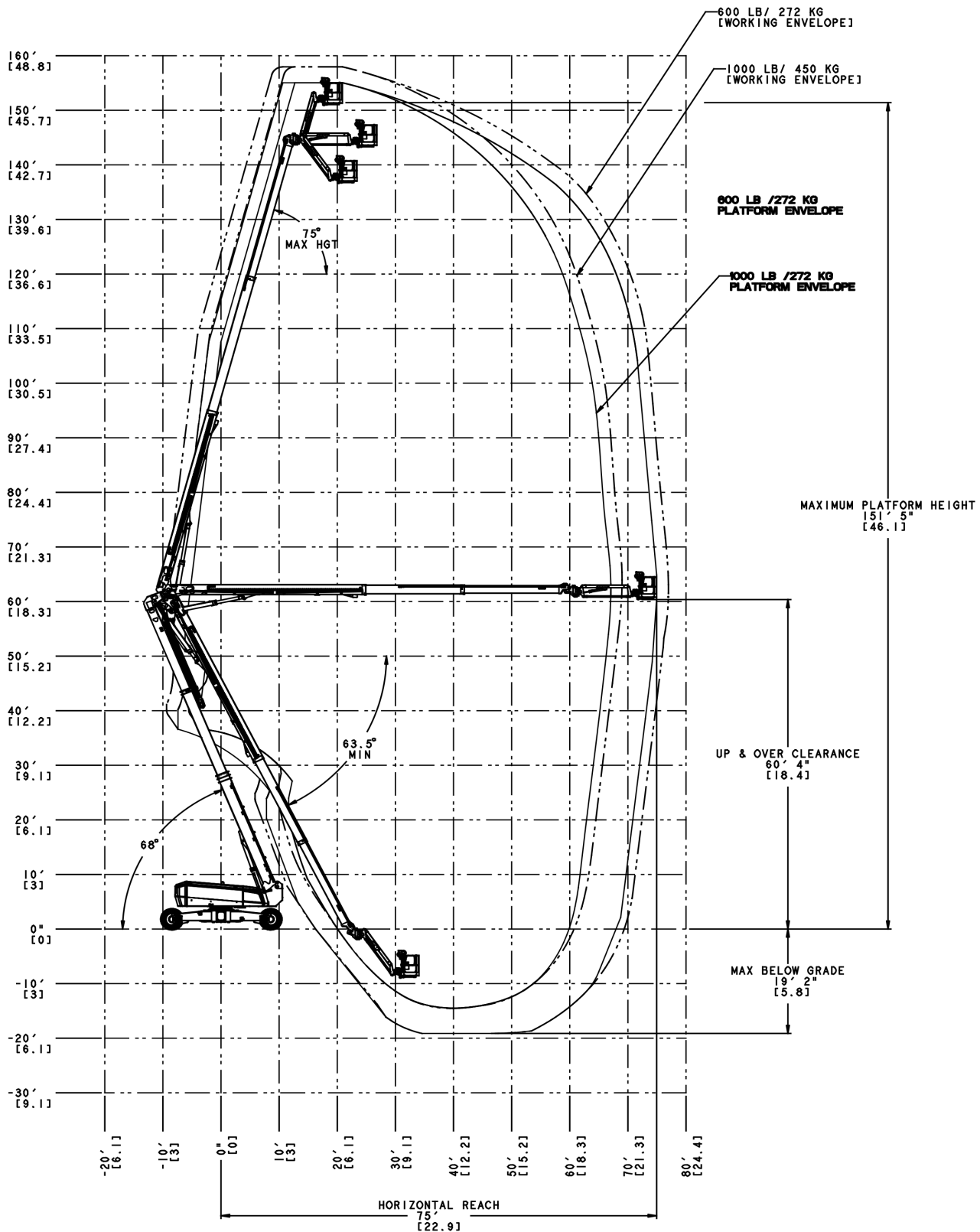
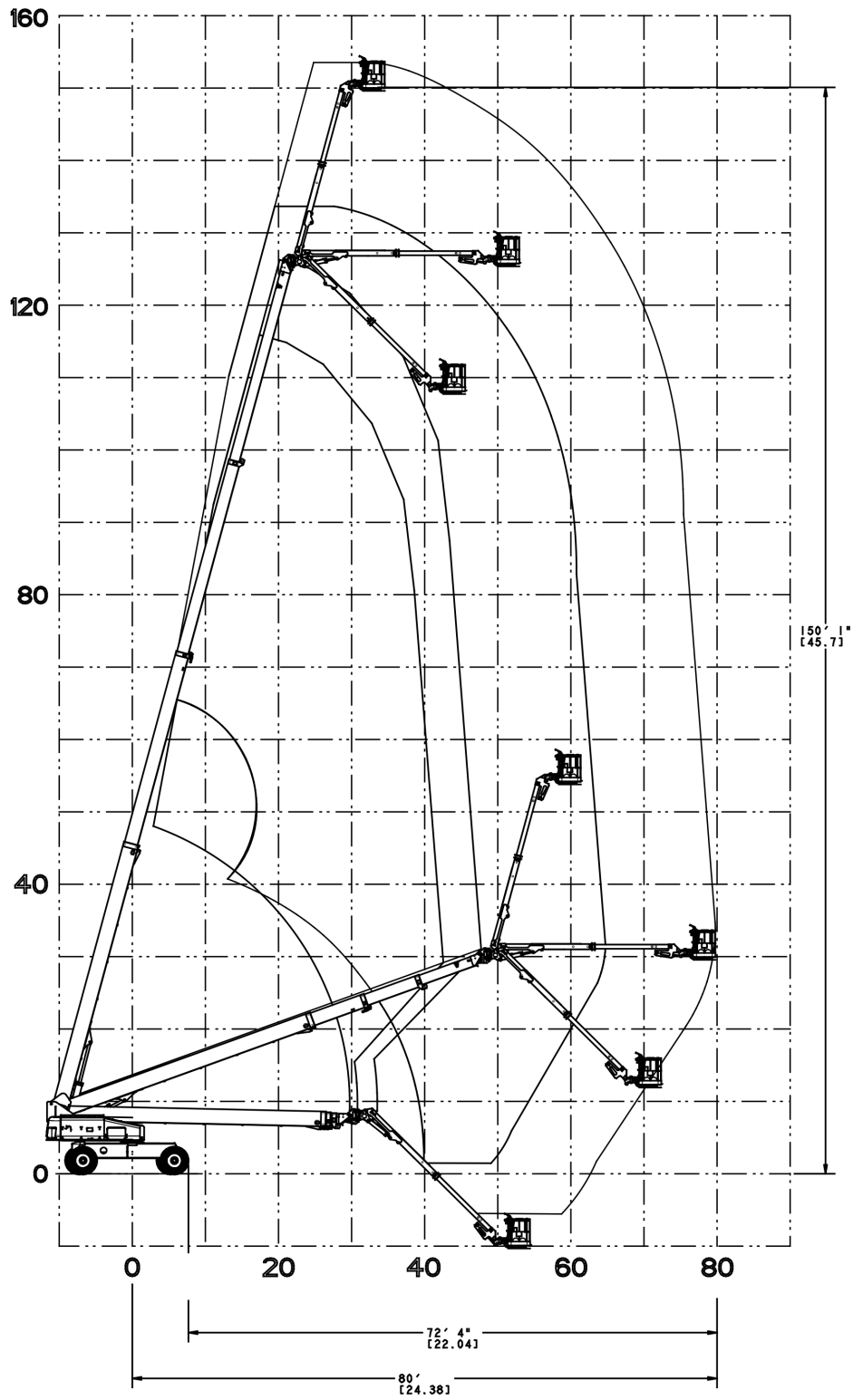


Figure 3-23. 1500AJP Reach Chart

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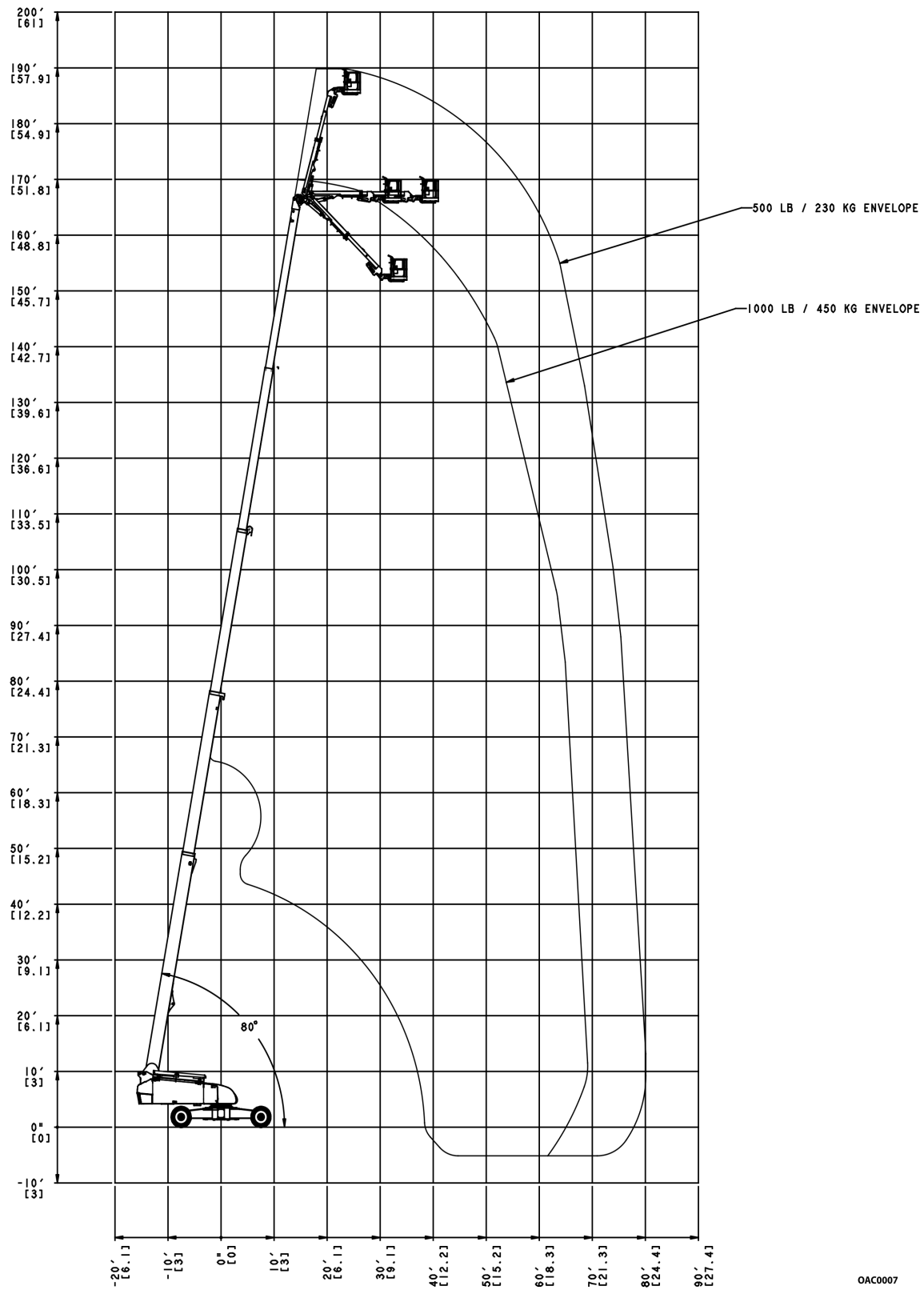
NOTE: Capacities shown are for Operators and/or materials.



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Figure 3-24. 1500SJ Reach Chart

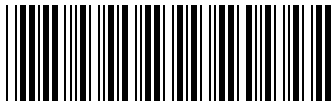
## SECTION 3 - RANGE DIAGRAMS



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An Oshkosh Corporation Company

**Corporate Office**  
**JLG Industries, Inc.**  
**1 JLG Drive**  
**McConnellsburg, PA 17233-9533 USA**  
**☎ (717) 485-5161 (Corporate)**  
**☎ (877) 554-5438 (Customer Support)**  
**☎ (717) 485-6417**

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