



An Oshkosh Corporation Company

Supplemental Operation & Safety Manual

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

P/N - 3128151

January 10, 2022 - Rev L



An Oshkosh Corporation Company

FOREWORD

The Mobile Elevating Work Platform (MEWP) models covered in this manual are designed and tested to meet or exceed various compliance standards. Please refer to the manufacturer's nameplate affixed to the subject MEWP for specific standard compliance information.

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.

Refer to www.JLG.com for Warranty, Product Registration, and other machine-related documentation.

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

⚠ CAUTION

INDICATES A POTENTIALLY 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 INFORMATION OR A COMPANY POLICY THAT RELATES DIRECTLY OR INDIRECTLY TO THE SAFETY OF PERSONNEL OR PROTECTION OF PROPERTY.

⚠ WARNING

THIS PRODUCT MUST COMPLY WITH ALL SAFETY RELATED BULLETINS. CONTACT JLG INDUSTRIES, INC. OR THE LOCAL AUTHORIZED JLG REPRESENTATIVE FOR INFORMATION REGARDING SAFETY-RELATED BULLETINS WHICH MAY HAVE BEEN ISSUED FOR THIS PRODUCT.

NOTICE

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NOTICE

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- Product Safety Publications
- Current Owner Updates
- Questions Regarding Product Safety
- Standards and Regulations Compliance Information
- Questions Regarding Special Product Applications
- Questions Regarding Product Modifications

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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 Mobile Elevating Work Platforms (MEWP). This manual contains requirements that must be followed by trained Set Lighting Technicians and Studio Grips in order to perform these functions.

⚠ WARNING

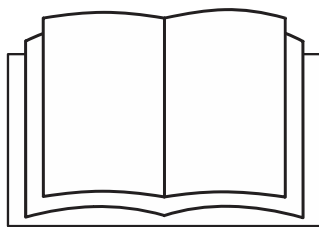
STRICT COMPLIANCE WITH THIS SUPPLEMENTAL MANUAL AS WELL AS THE OPERATION AND SAFETY MANUAL FOR THE SPECIFIC MODEL, ALONG WITH ANY TRAINING REQUIRED BY THE UNION/STUDIO IS NECESSARY FOR THE SAFE OPERATION OF THIS MACHINE.

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.

- Read, understand, and study the Operation and Safety Manual in its entirety before operating the machine. For clarification, questions, or additional information regarding any portions of this manual, contact JLG Industries, Inc.



- Only personnel who have received proper training regarding the inspection, application and operation of MEWPs (including recognition and avoiding hazards associated with their operation) shall be authorized to operate a MEWP.
- Only properly trained personnel who have received unit-specific familiarization shall operate a MEWP. The user shall determine if personnel are qualified to operate the MEWP prior to operation.
- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals

located on the chassis adjacent to each wheel. Do not travel on unsupported surfaces.

- Do not elevate platform or drive with platform elevated while on or near a sloping, uneven, or soft surface. Ensure machine is positioned on a smooth, firm surface within the limits of the maximum operating slope before elevating platform or driving with the platform in the elevated position.
- 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 MEWP.
- 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, 1350SJP, 1500SJ and 1850SJ, 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 and Safety 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.

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

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
340AJ, H340AJ, 400S, 400S HC3, 460SJ, 460SJ HC3 450A, 450AJ, 450AJ HC3, 520AJ HC3, 600A, 600AJ HC3 600S, 600S HC3, 600SJ, 660SJ, 660SJ HC3, 670SJ Self Leveling, 800A, 800AJ, 800AJ HC3, H800AJ, 800S, 800S HC3, 860SJ, 860SJ HC3	
4'x4'(16sq. ft.)	25
6'x6'(36sq. ft.)	25
8'x8'(64sq. ft.)	25
12'x12'(144sq. ft.)	18
20'x20'(400sq. ft.)	11
1250AJP, 1500AJP, 1500SJ, 1850SJ	
4'x4'(16sq. ft.)	25
6'x6'(36sq. ft.)	18
8'x8'(64sq. ft.)	18
12'x12'(144sq. ft.)	11
20'x20'(400sq. ft.)	11
1200SJP, 1350SJP	
4'x4'(16sq. ft.)	18
6'x6'(36sq. ft.)	11
8'x8'(64sq. ft.)	11
12'x12'(144sq. ft.)	11
20'x20'(400sq. ft.)	7

⚠ WARNING

ELEVATING A MEWP IN WIND SPEEDS OR WITH SURFACE AREAS GREATER THAN WHAT IS LISTED IN TABLE 1-1 MAY CAUSE THE BOOM AND/OR MEWP 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. 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, 400S HC3, 450A, 600A, 600S, 600S HC3, 800A, 800S, 800S HC3 or Table 2-3, Platform Capacity Reduction Chart - 460SJ, 460SJ HC3, 600AJ, 600AJ HC3, 660SJ, 660SJ HC3, 670SJ Self Leveling, 800AJ, 800AJ HC3, H800AJ, 860SJ, 860SJ HC3, 1200SJP, 1250AJP*, 1350SJP, 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.

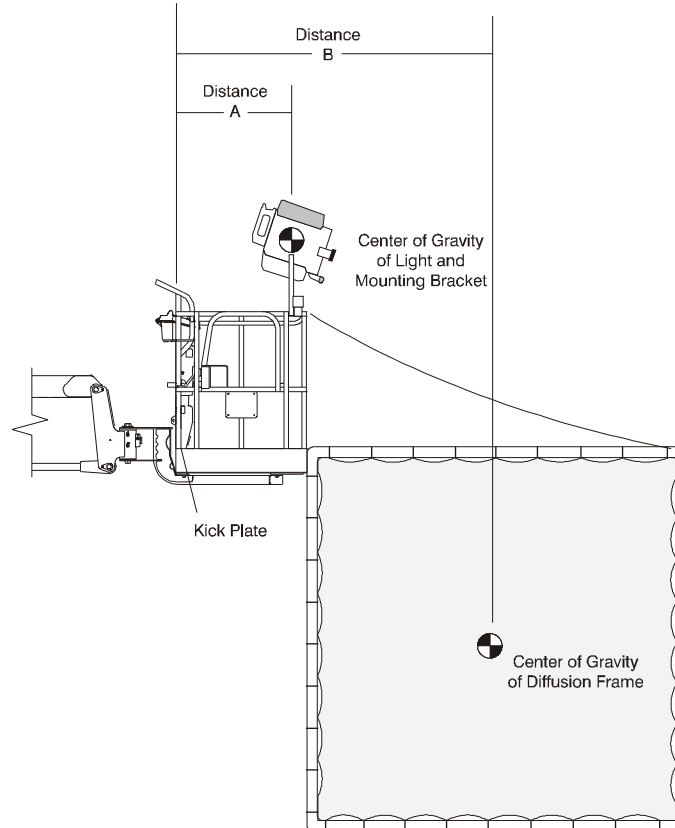


Figure 2-1. Figuring Capacity Reduction

SECTION 2 - PLATFORM CAPACITY REDUCTION

Table 2-1. Platform Capacity Reduction Chart - 400S, 400S HC3, 450A, 600A, 600S, 600S HC3, 800A, 800S, 800S HC3

Weight of Added Equipment (lbs.)	Distance from kickplate below control box to equipment CG (inches) (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	546	589	632
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	600	670	740	810	880		
225	323	362	440	519	599	679	759	839	919			
250	359	402	489	578	668	758	848	938				
275	395	443	537	636	736	836	936					
300	431	483	583	683	783	883						
325	467	523	623	723	823							
350	503	563	663	763								
375	539	603	703									
400	575	643										
425	611											
450	647											
475	683											
500	719											
525	755											
550	791											
575	827											
600	863											
625	899											
650	935											

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, H340AJ, 450AJ, 450AJ HC3, 520AJ HC3

Weight of Added Equipment (lbs.)	Distance from kickplate below control box to equipment CG (inches) (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	259	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											

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.

SECTION 2 - PLATFORM CAPACITY REDUCTION

Table 2-3. Platform Capacity Reduction Chart - 460SJ, 460SJ HC3, 600AJ, 600AJ HC3, 660SJ, 660SJ HC3, 670SJ Self Leveling, 800AJ, 800AJ HC3, H800AJ, 860SJ, 860SJ HC3, 1200SJP, 1250AJP*, 1350SJP, 1500AJP, 1500SJ, 1850SJ

Weight of Added Equipment (lbs.)	Distance from kickplate below control box to equipment CG (inches) (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											

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.
 * 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 trained in the use of the MEWP 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.
- Ensure that the ground conditions are adequate to support the maximum tire load indicated on the tire load decals located on the chassis adjacent to each wheel. Do not travel on unsupported surfaces.
- Do not elevate platform or drive with platform elevated while on or near a sloping, uneven, or soft surface. Ensure machine is positioned on a smooth, firm surface within the limits of the maximum operating slope before elevating platform or driving with the platform in the elevated position.
- Elevating a work platform in windy conditions must be restricted to the instructions found in this supplement and in the Operation and Safety Manual for the specific machine being used.
- Platform loading must be restricted to the instructions found in this supplement and in the Operation and Safety 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.

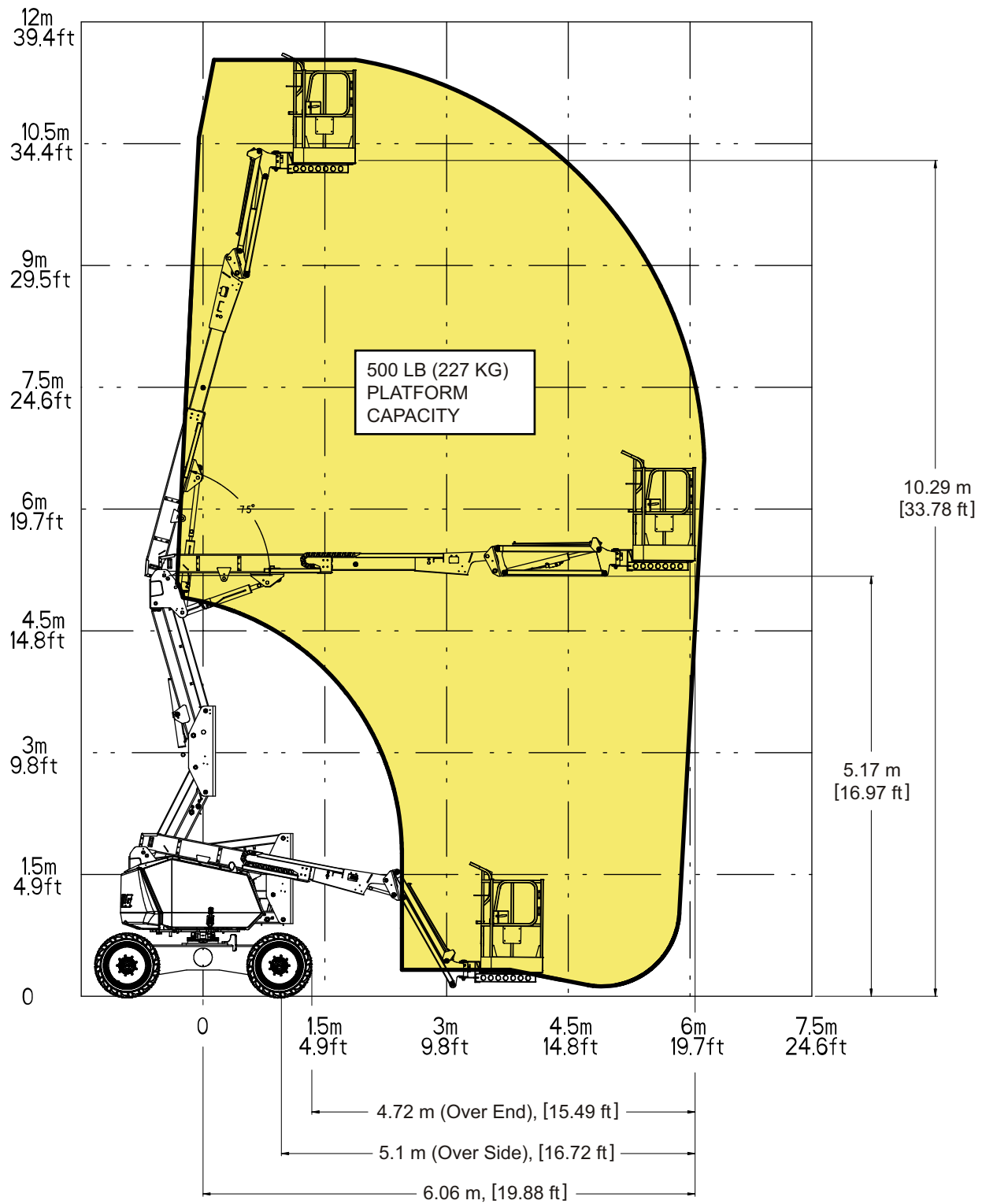
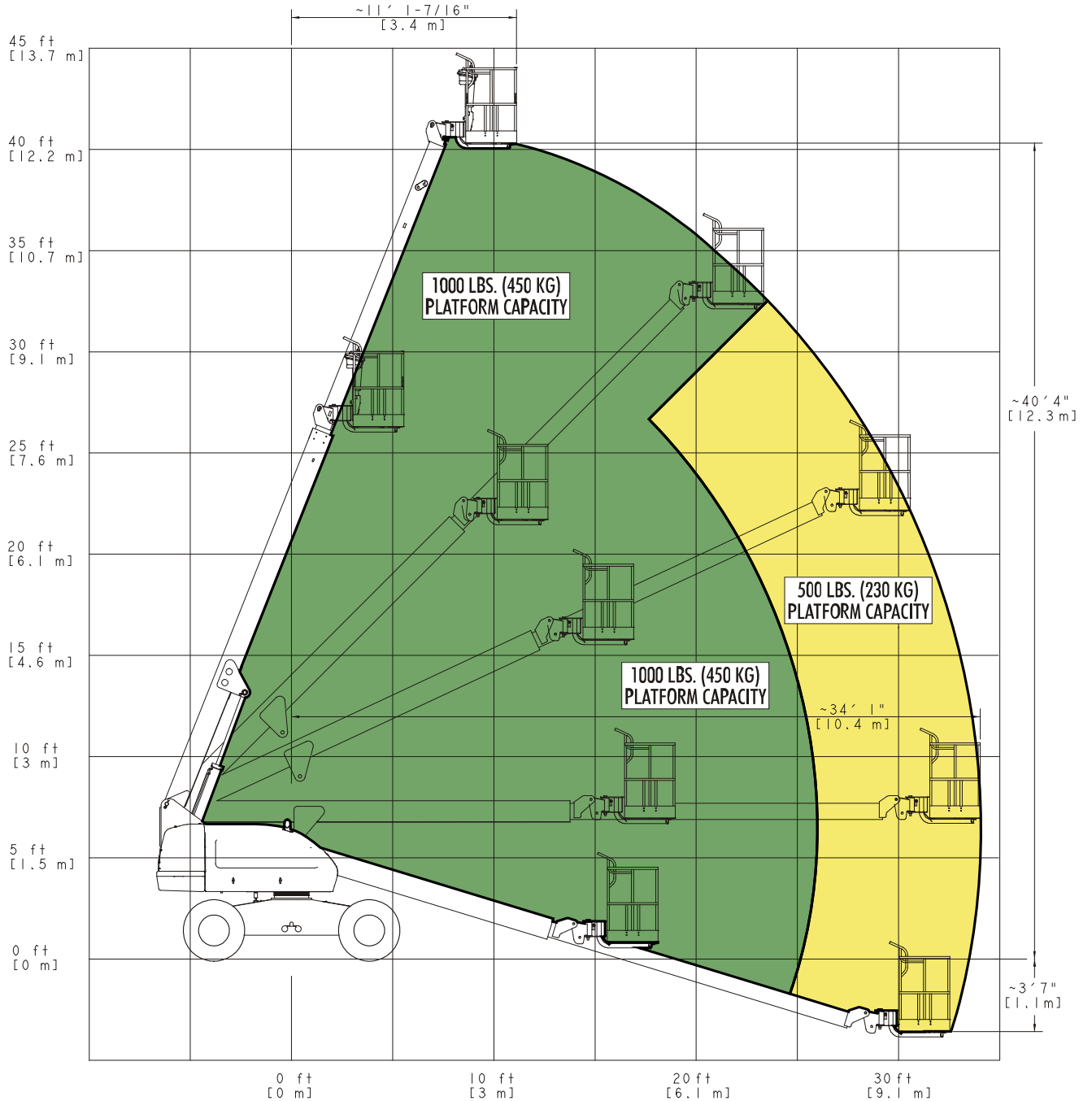


Figure 3-1. 340AJ / H340AJ Reach Chart

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



REACH DIAGRAM FOR STANDARD
500/1000 LB PLATFORM CAPACITY

NOTE: DIMENSIONS SHOWN REFLECT UNIT FITTED WITH 14 X 17.5 TIRES

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

SECTION 3 - RANGE DIAGRAMS

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

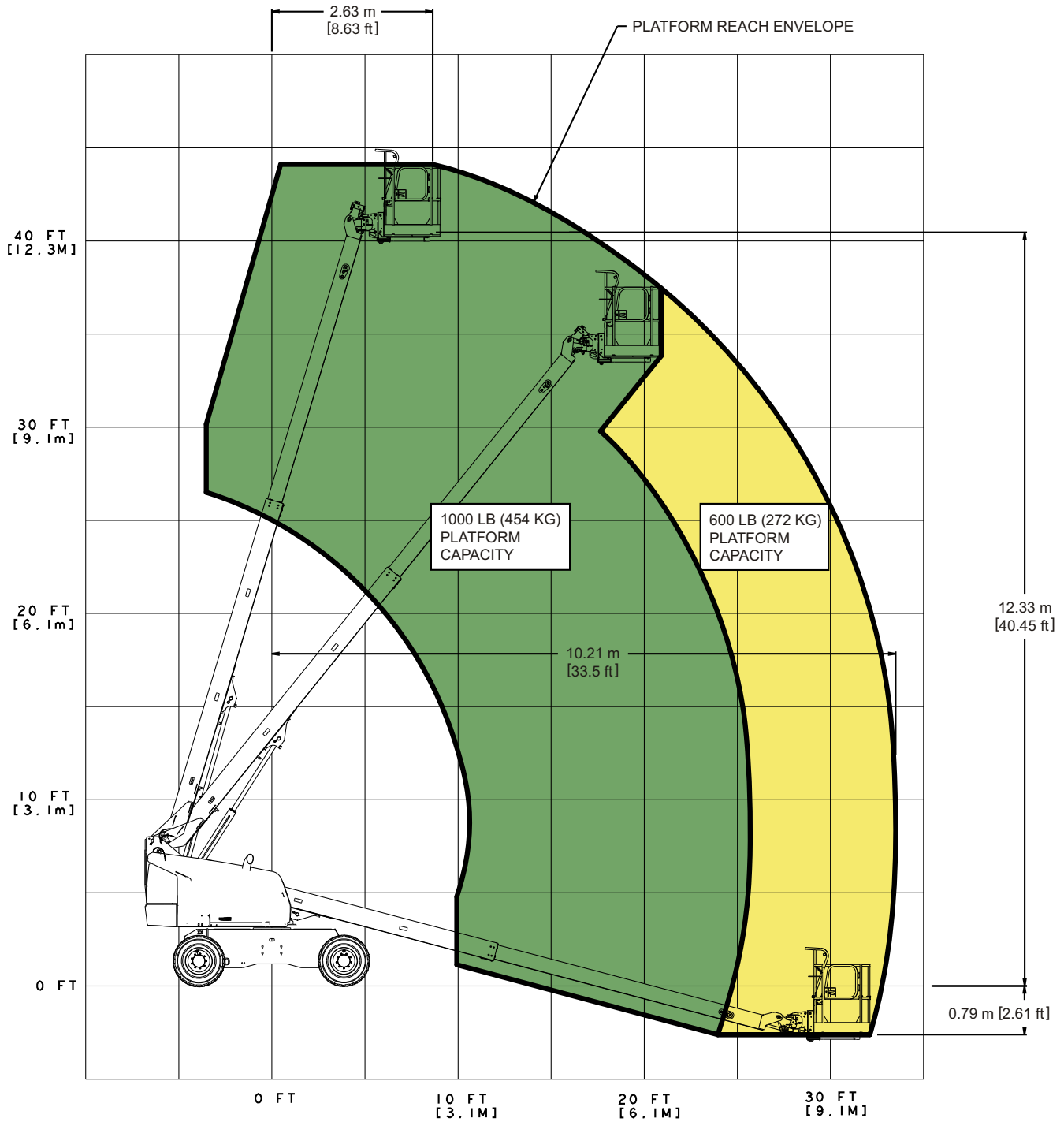


Figure 3-3. 400S Reach Chart (SN 0300203771 to Present)

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

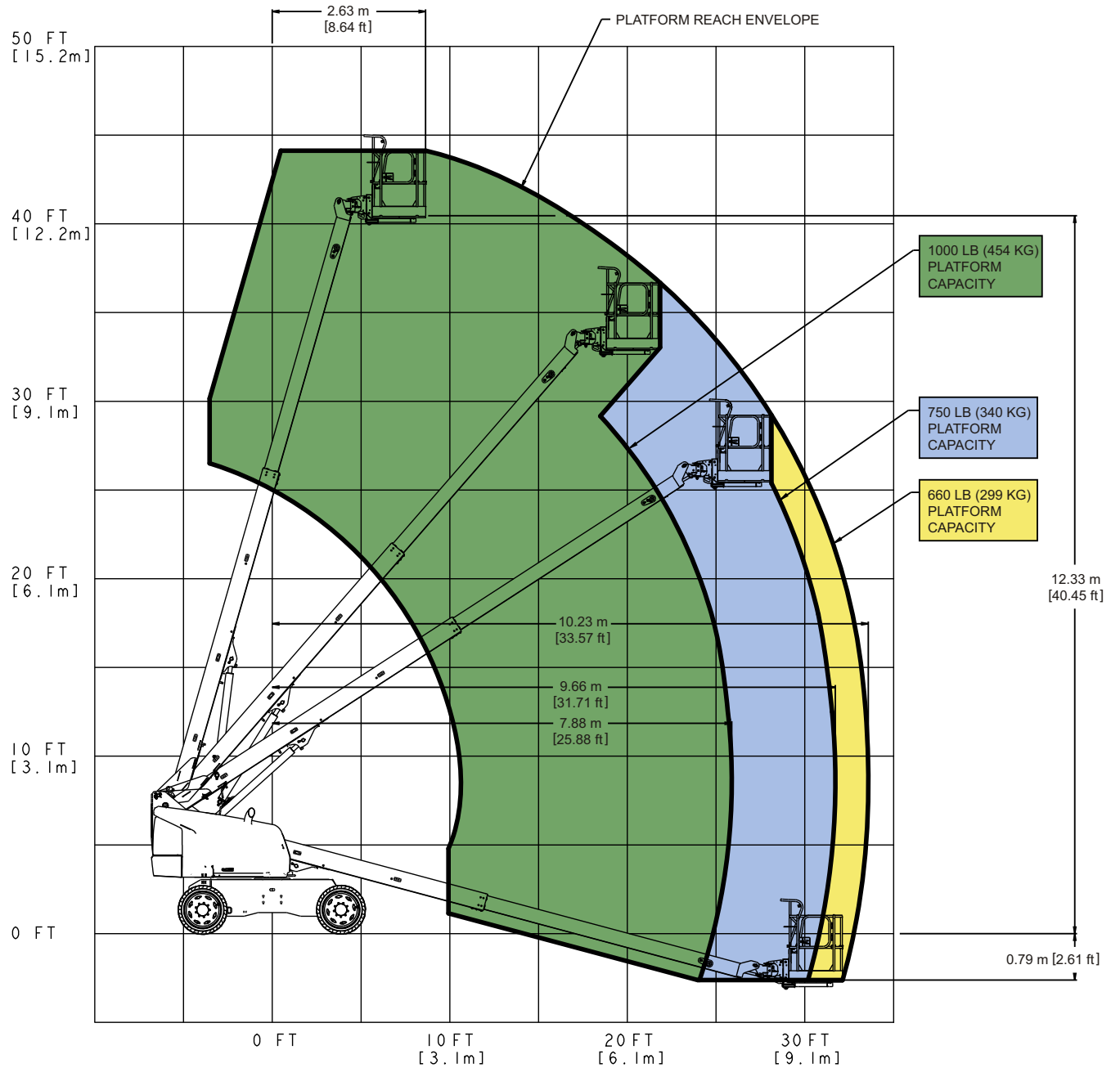


Figure 3-4. 400S HC3 Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

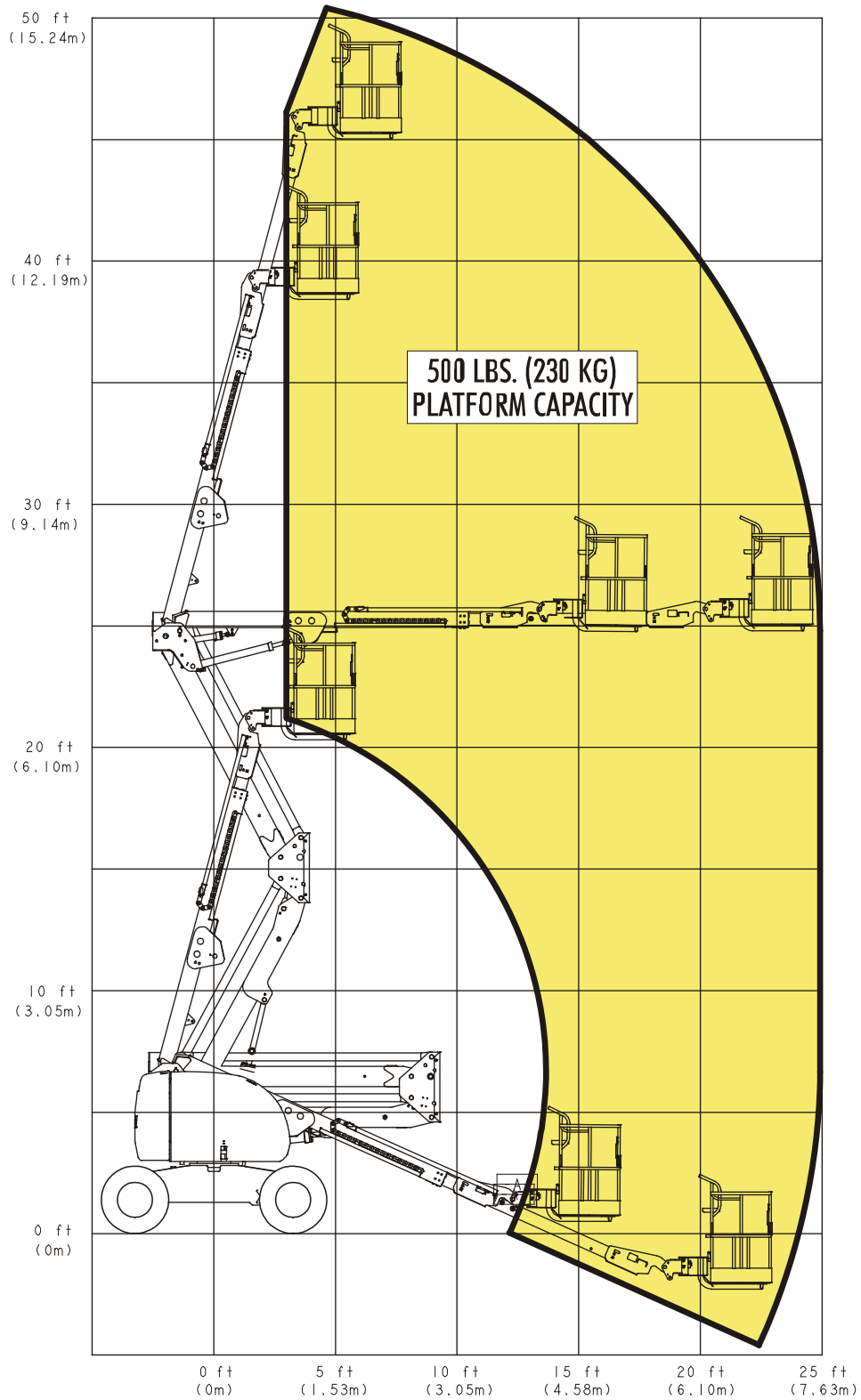


Figure 3-5. 450A Series II Reach Chart (Prior to SN 03000201991, 1300007279, & E300002833)

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

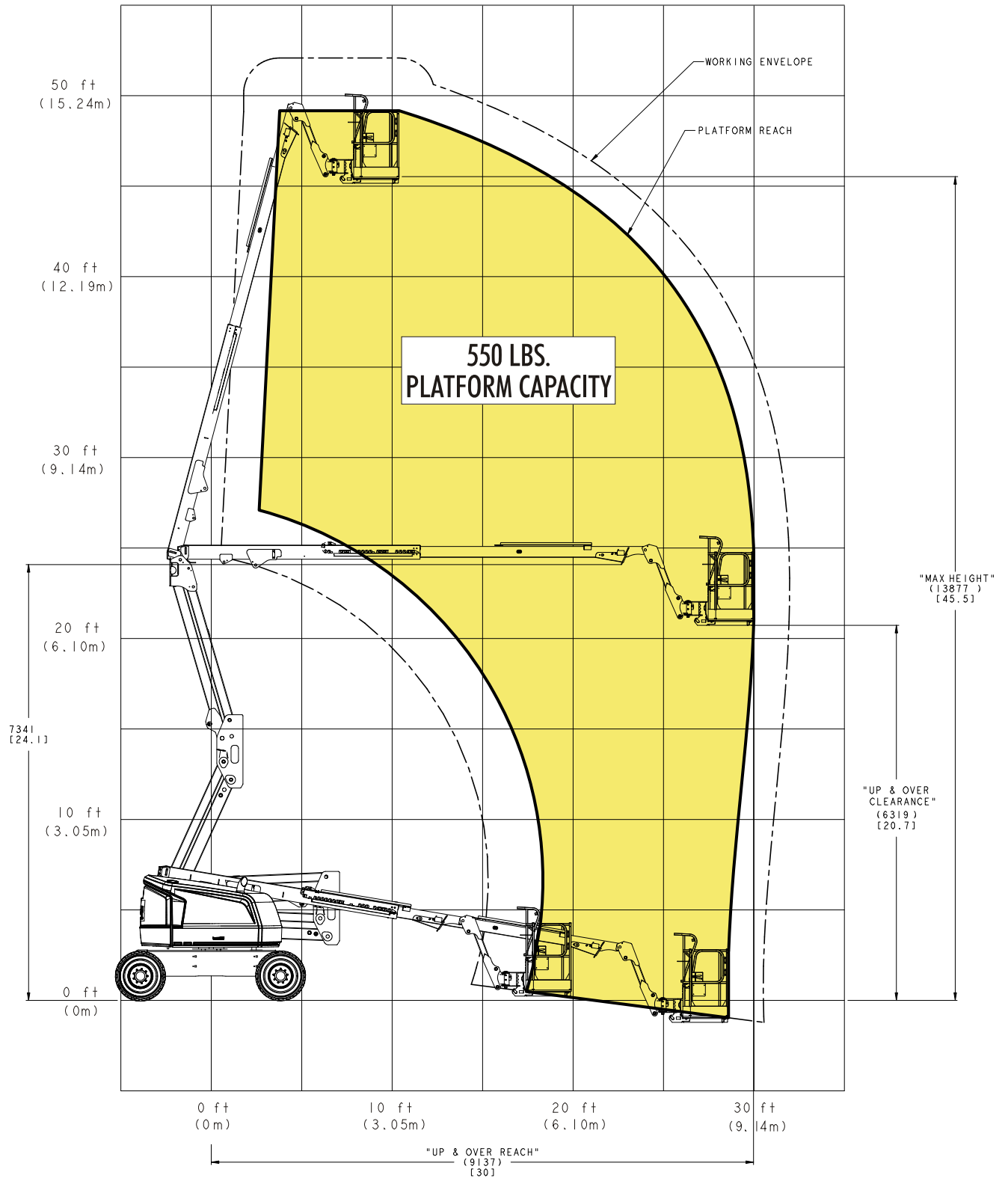


Figure 3-6. 450A Reach Chart (SN 03000201991, 1300007279, & E300002833 to Present)

SECTION 3 - RANGE DIAGRAMS

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

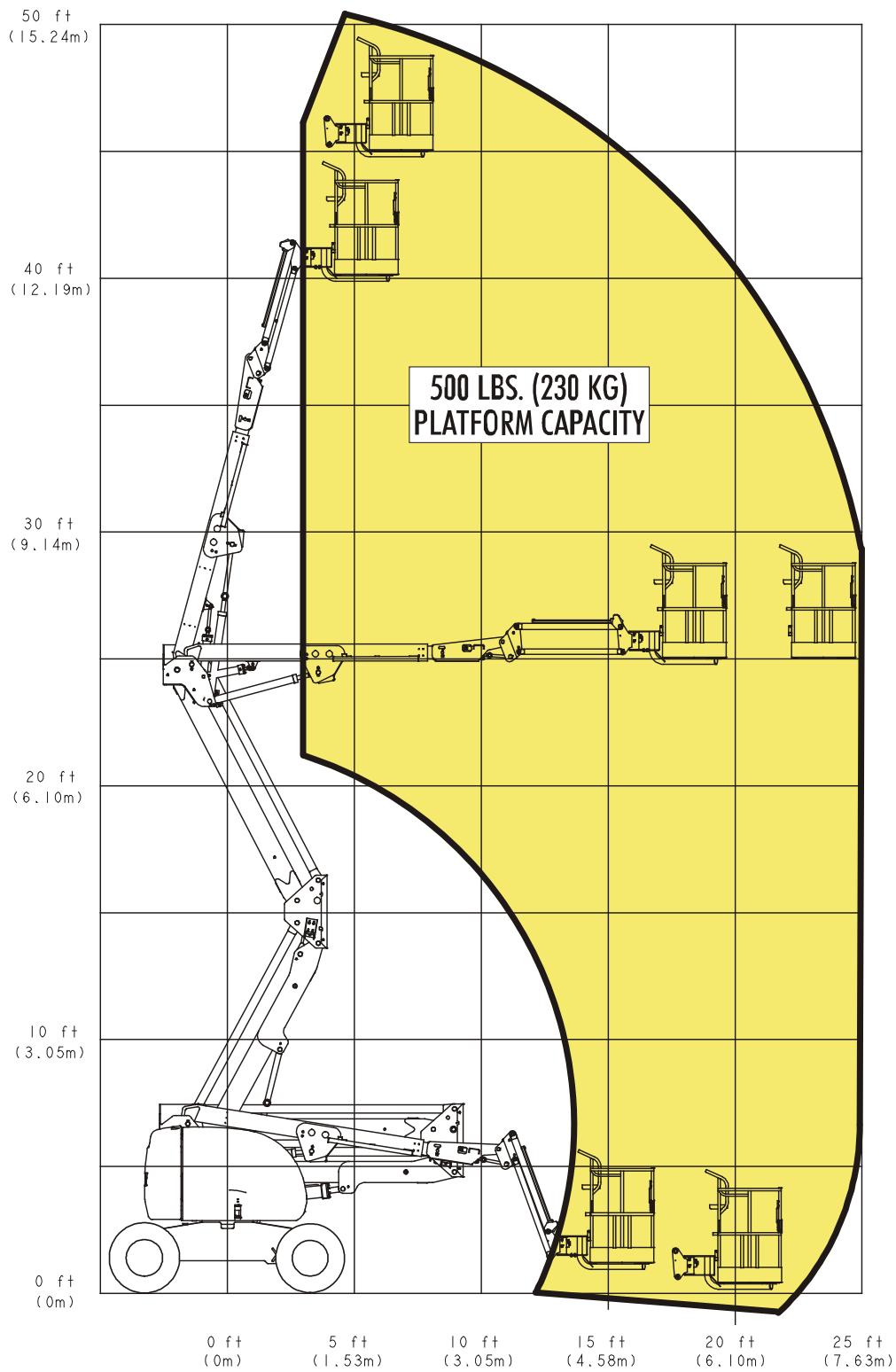


Figure 3-7. 450AJ Series II Reach Chart (Prior to SN 03000201991, 1300007279, & E300002833)

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

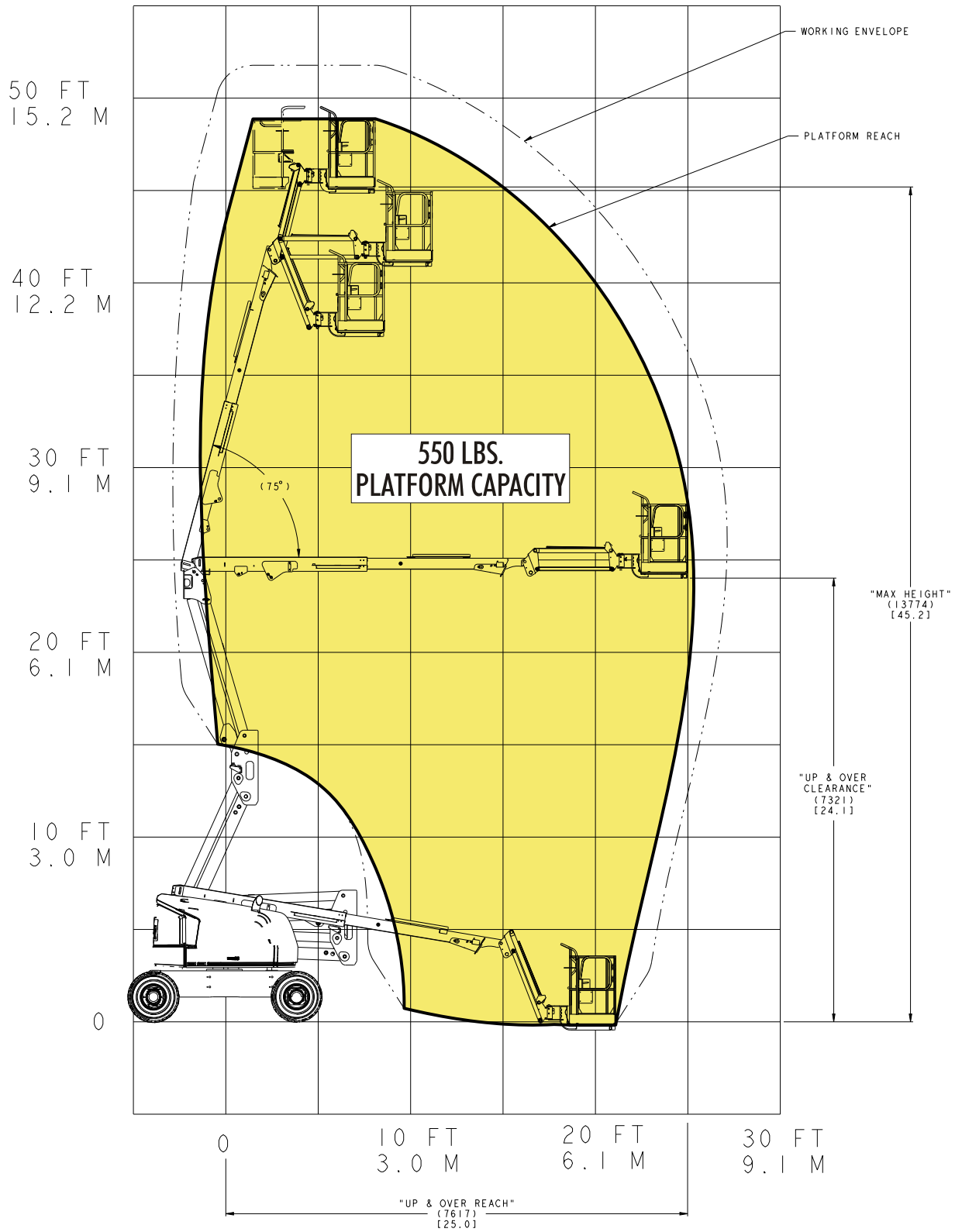


Figure 3-8. 450AJ Reach Chart (SN 03000201991, 1300007279, B00003516 & E300002833 to Present)

SECTION 3 - RANGE DIAGRAMS

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

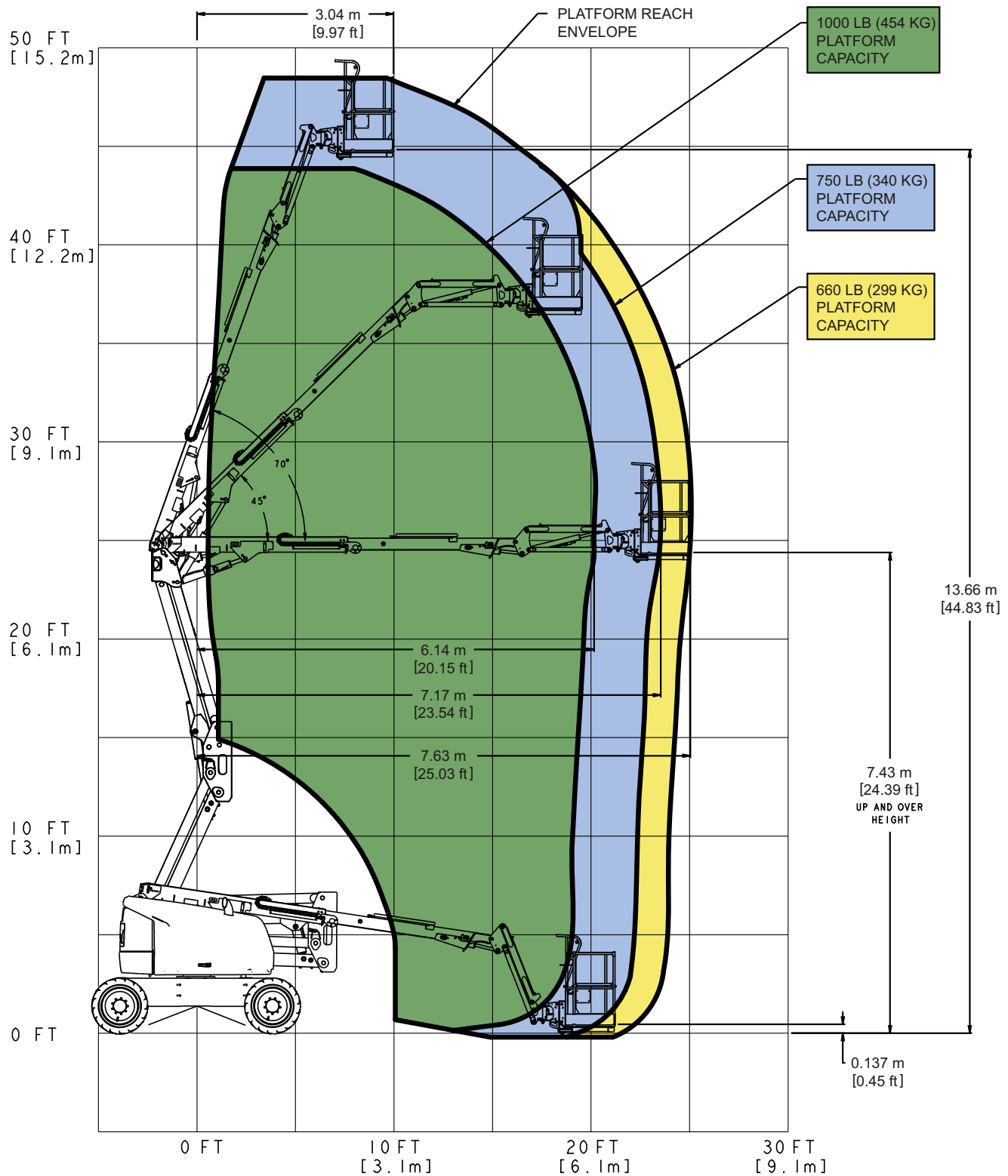


Figure 3-9. 450AJ HC3 Reach Chart

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

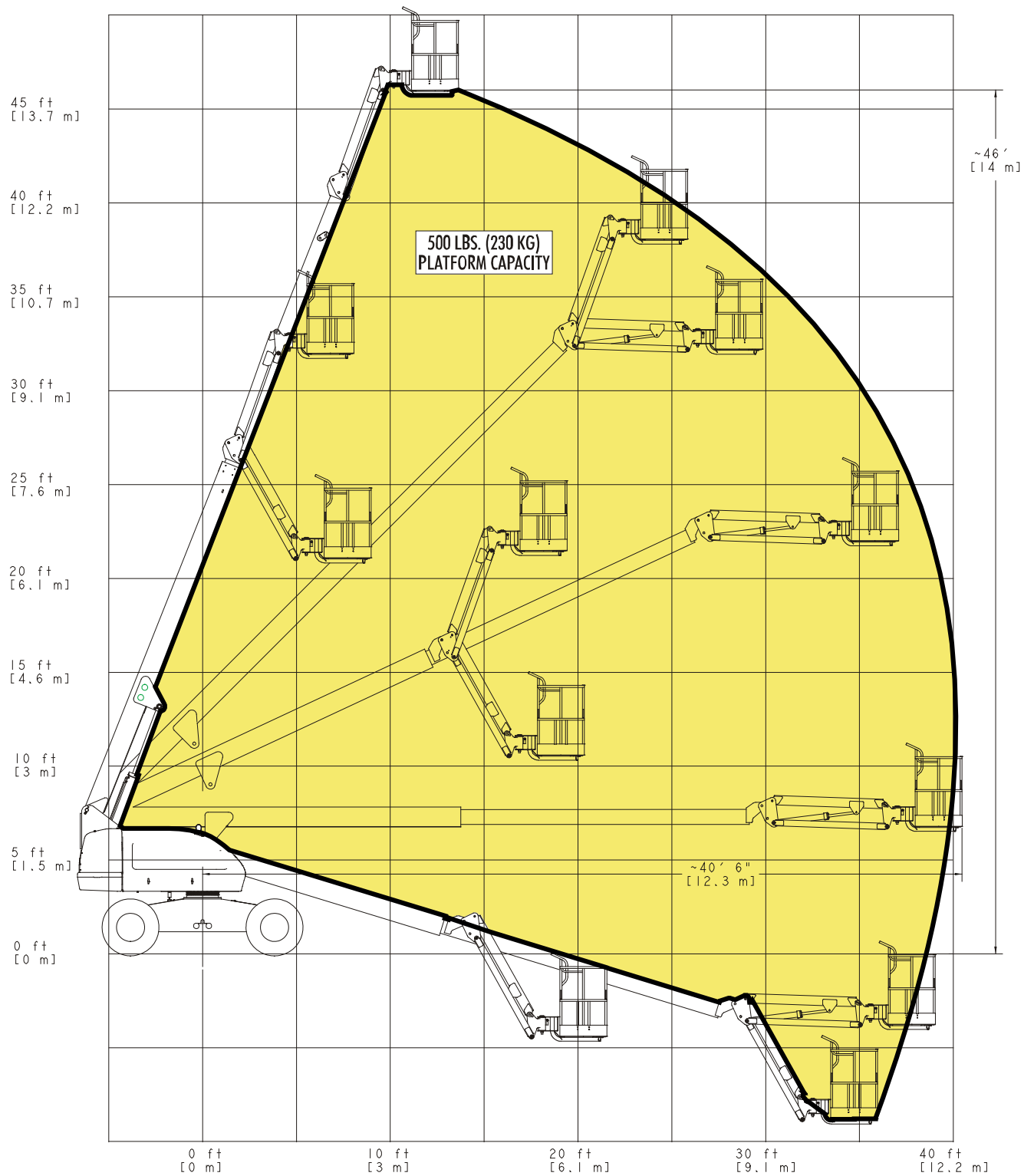


Figure 3-10. 460SJ Reach Chart (Prior to SN 0300203740)

SECTION 3 - RANGE DIAGRAMS

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

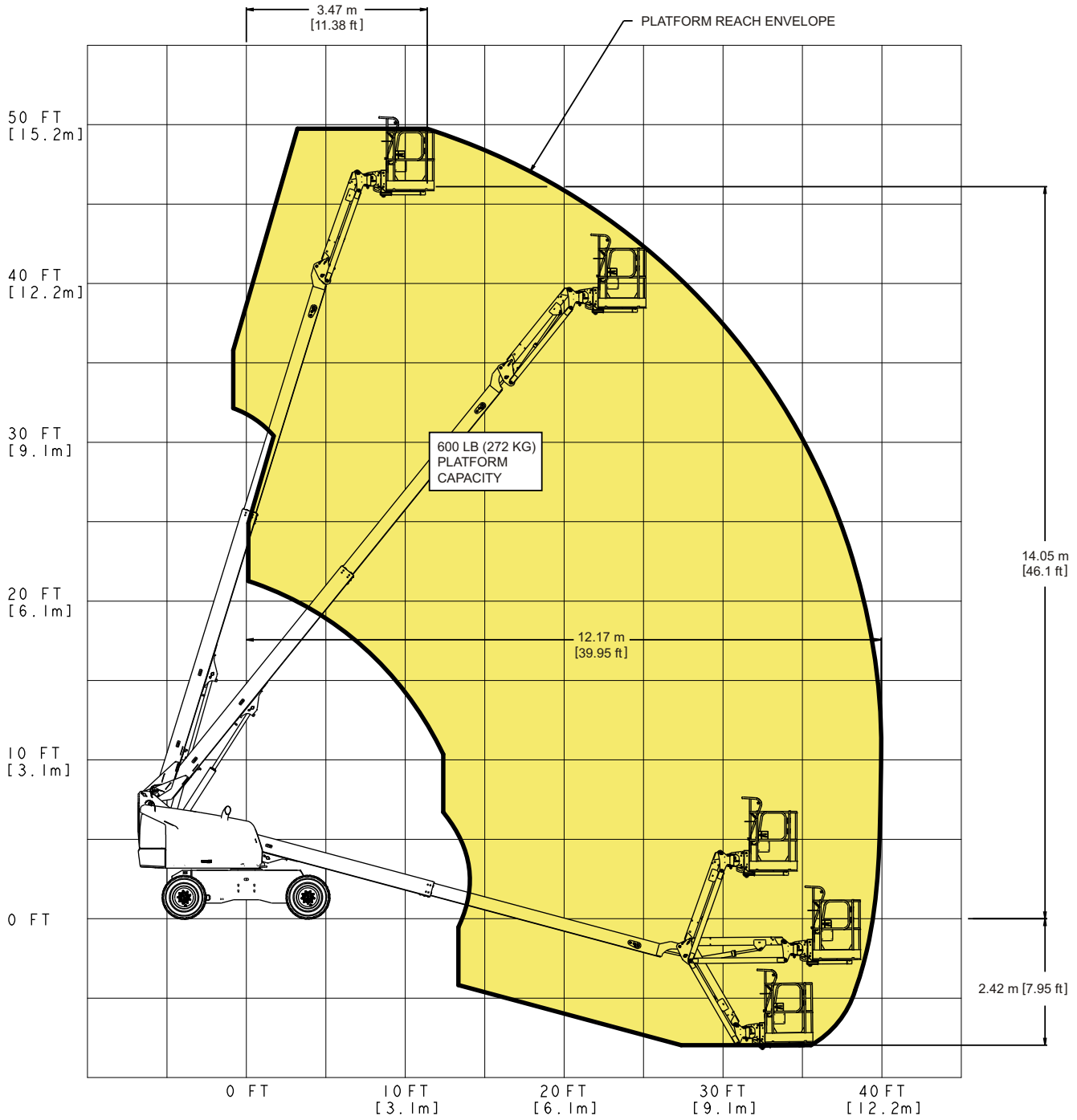


Figure 3-11. 460SJ Reach Chart (SN 0300272174, E300003815 to Present)

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

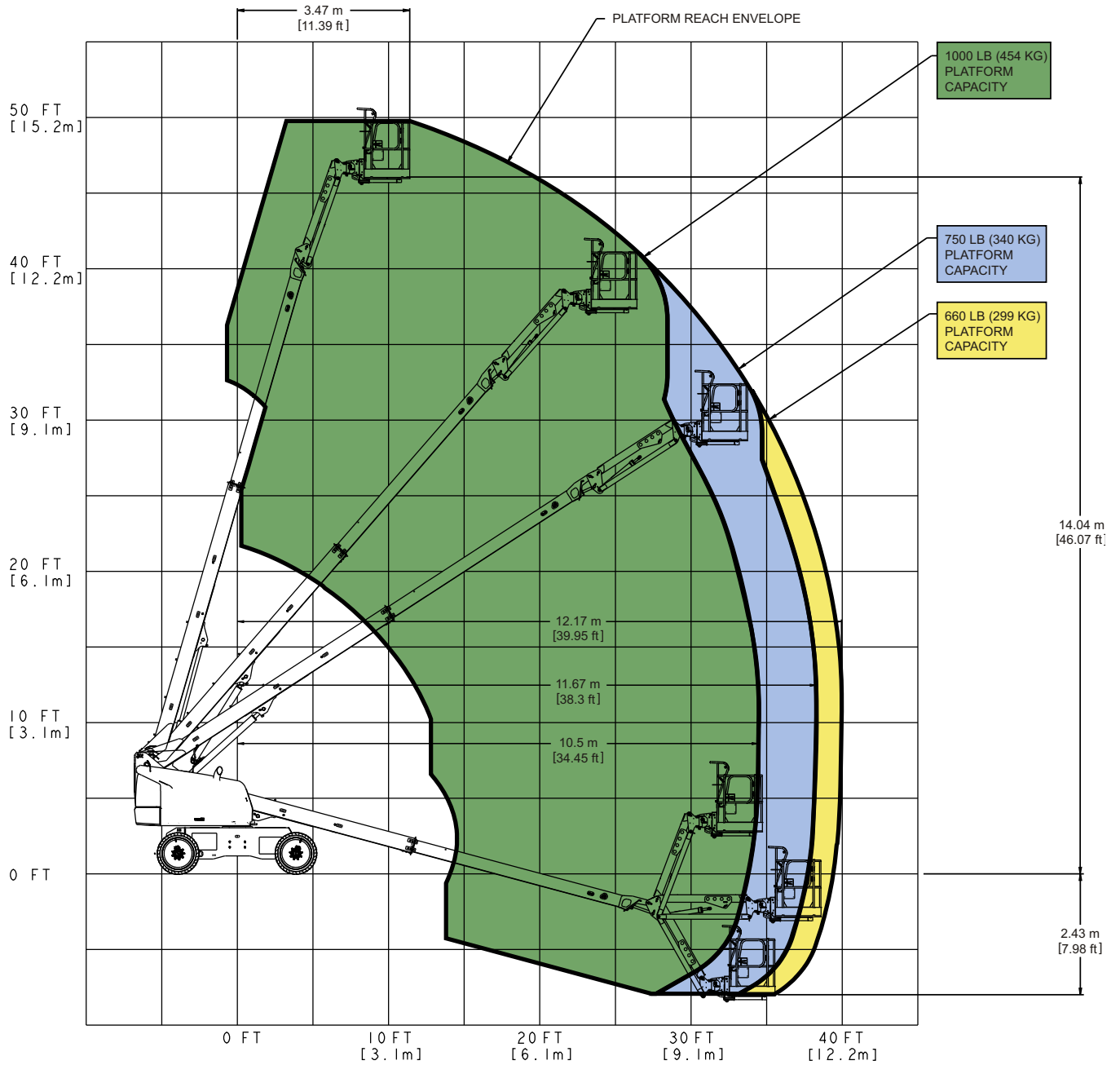


Figure 3-12. 460SJ HC3 Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

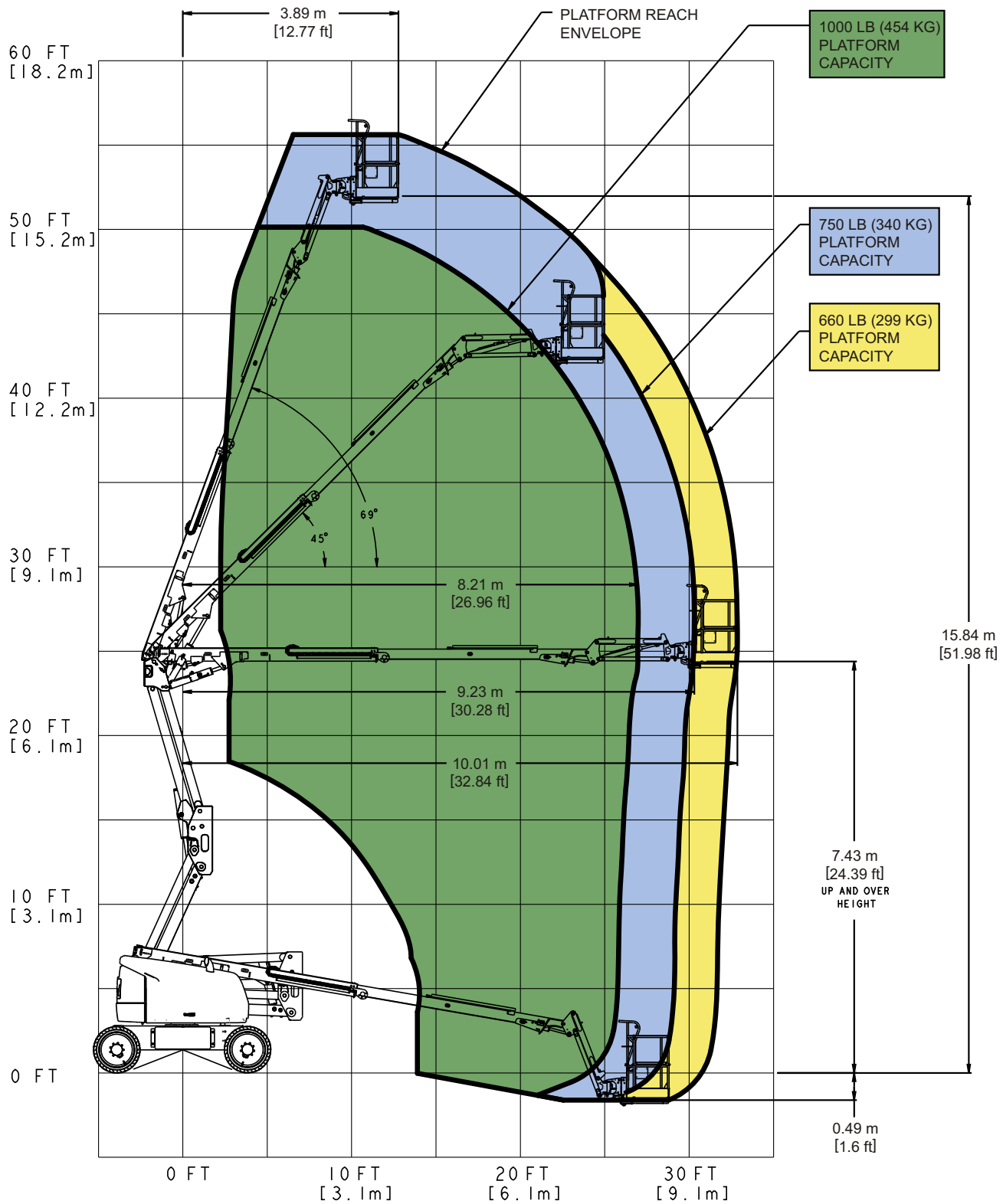


Figure 3-13. 520AJ HC3 Reach Chart

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

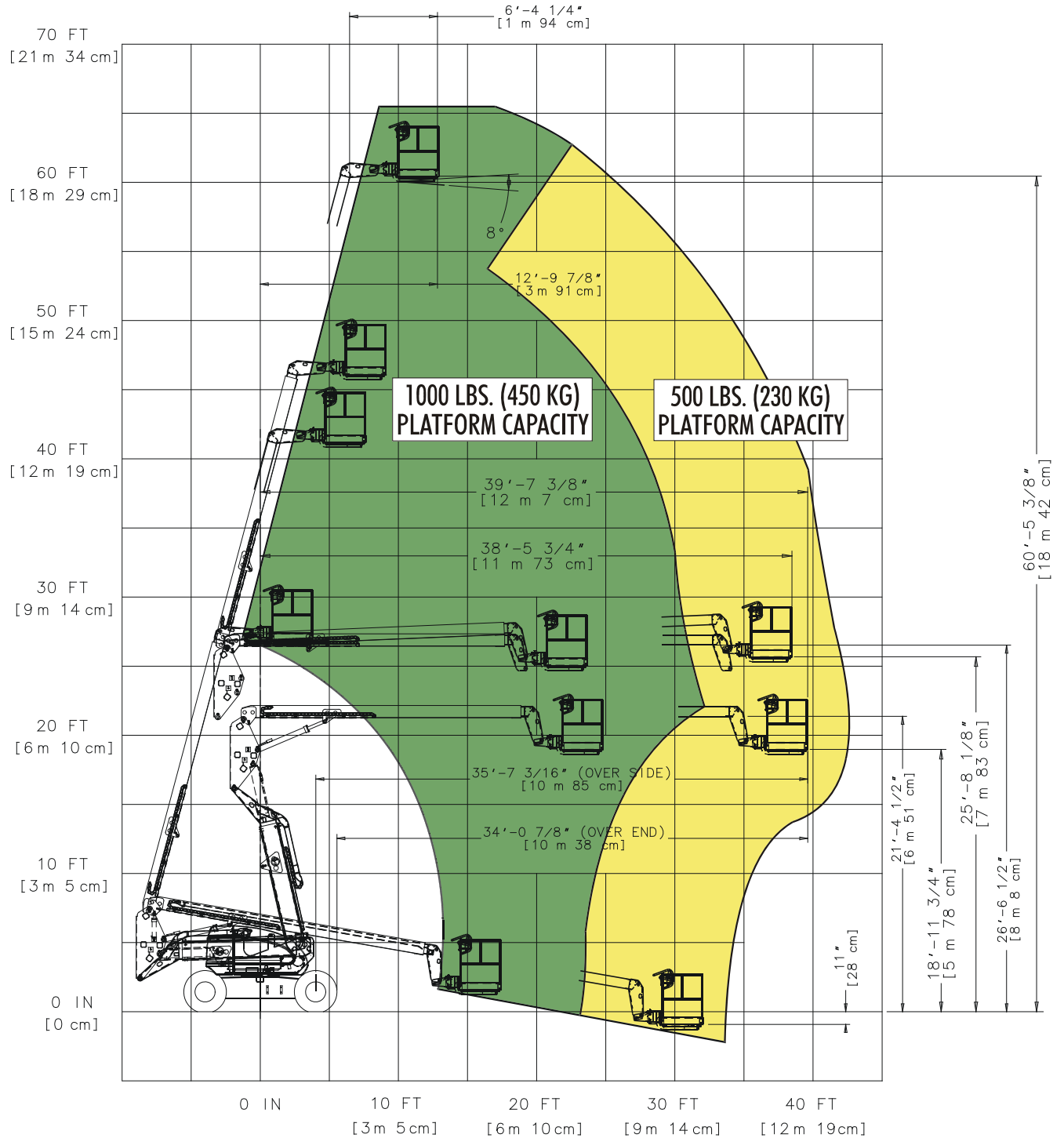


Figure 3-14. 600A Reach Chart (Prior to SN 03000271888)

SECTION 3 - RANGE DIAGRAMS

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

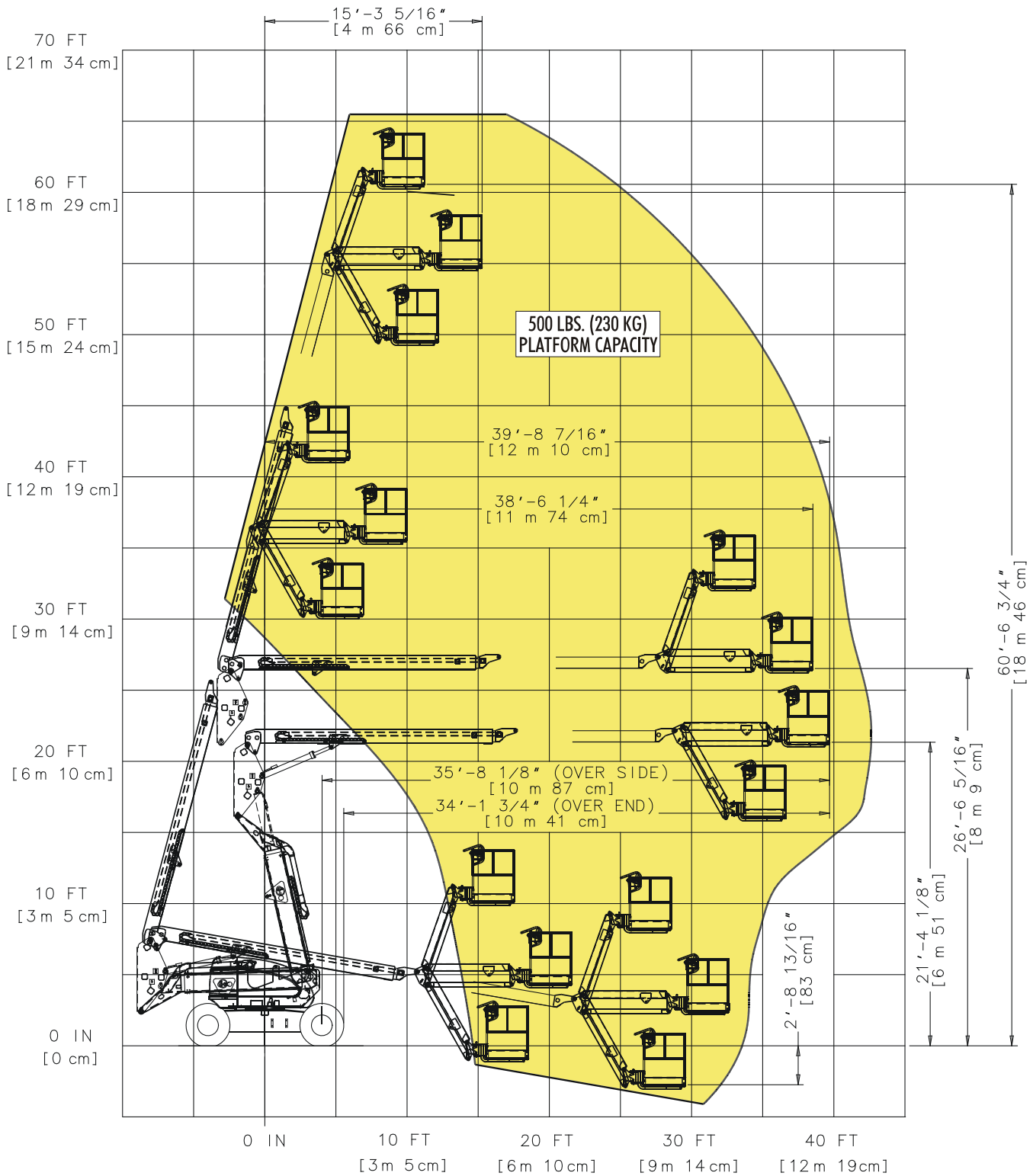


Figure 3-15. 600AJ Reach Chart

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

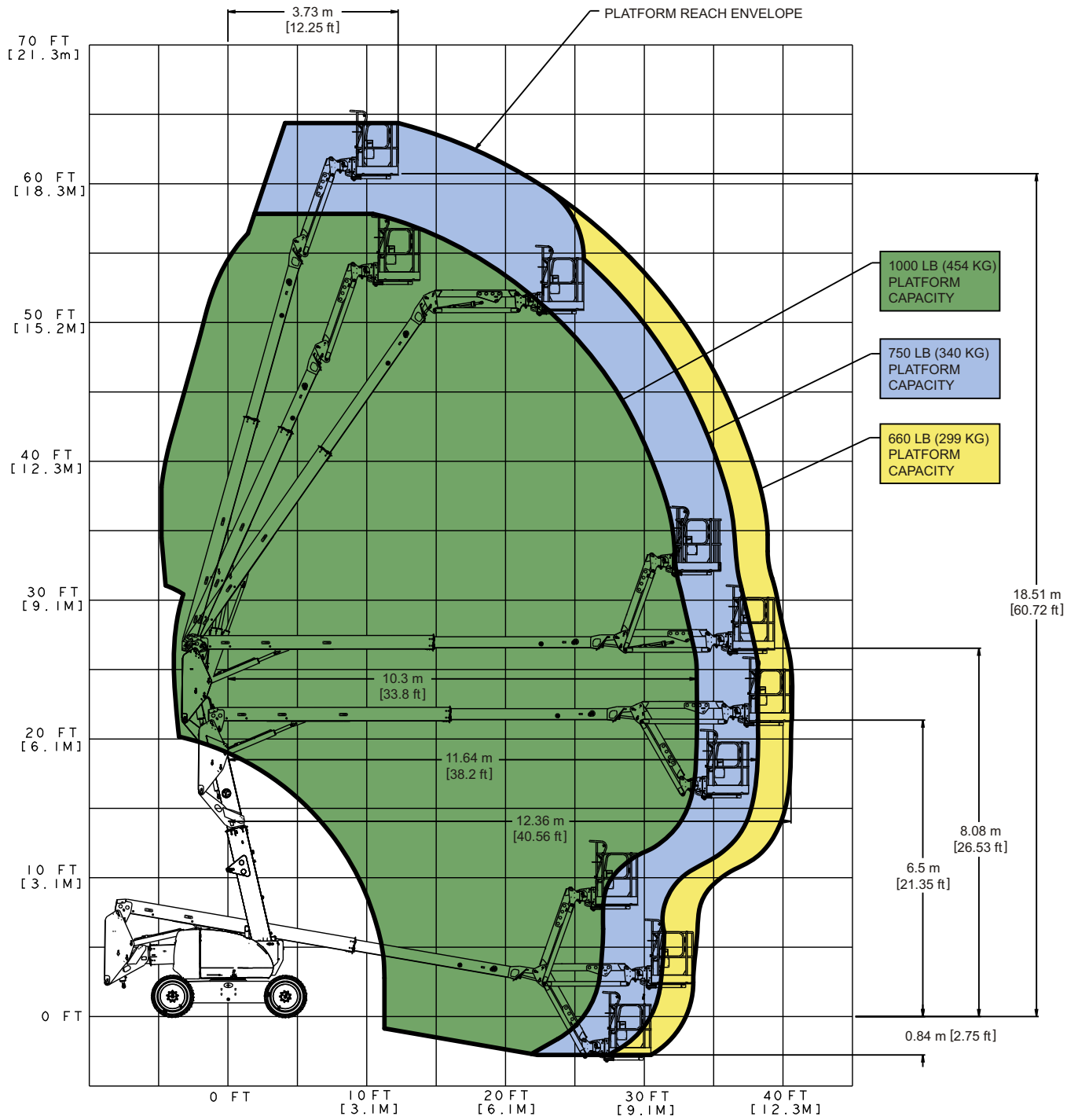


Figure 3-16. 600AJ HC3 Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

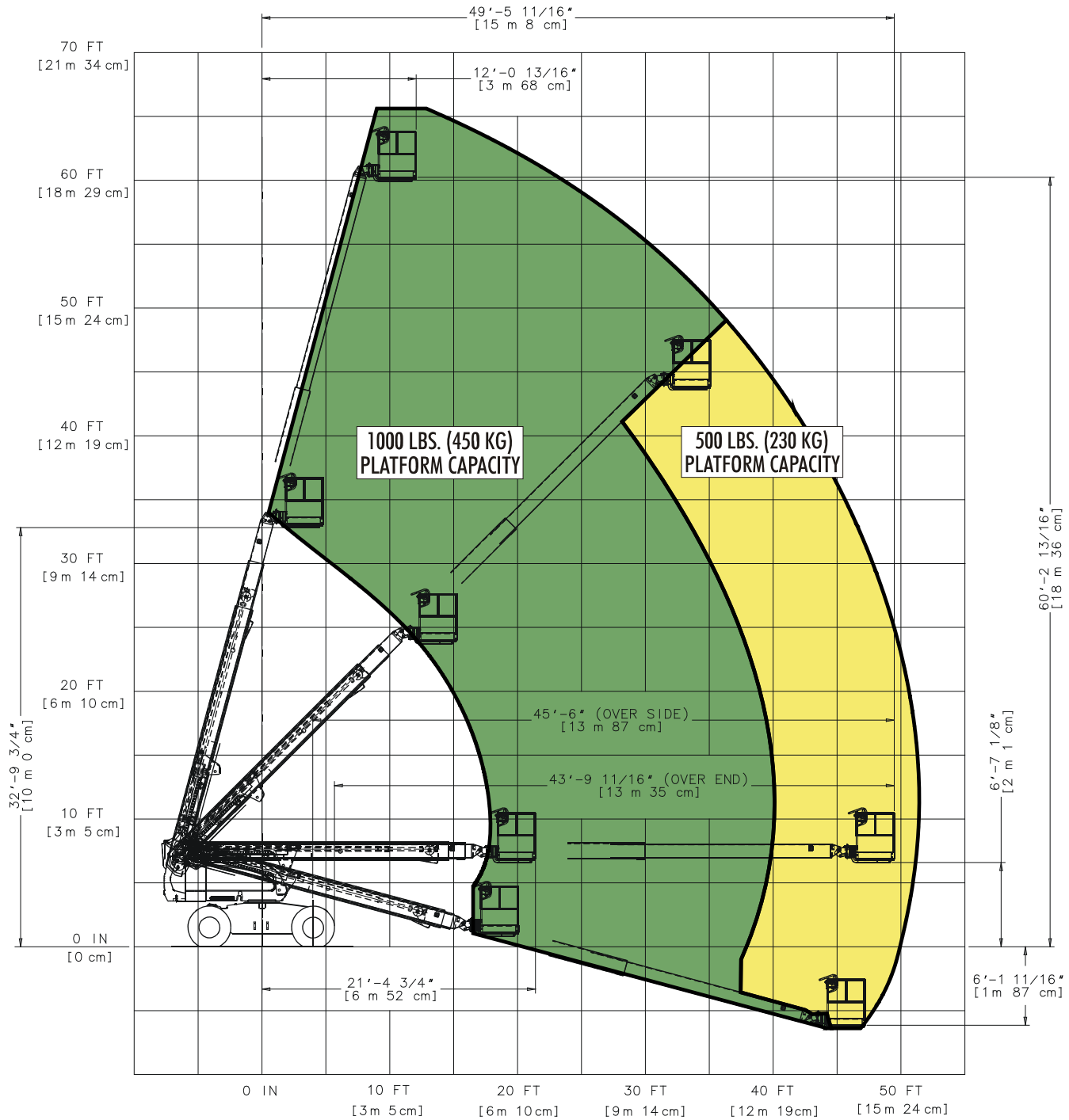


Figure 3-17. 600S Reach Chart (Prior to SN 0300235168)

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

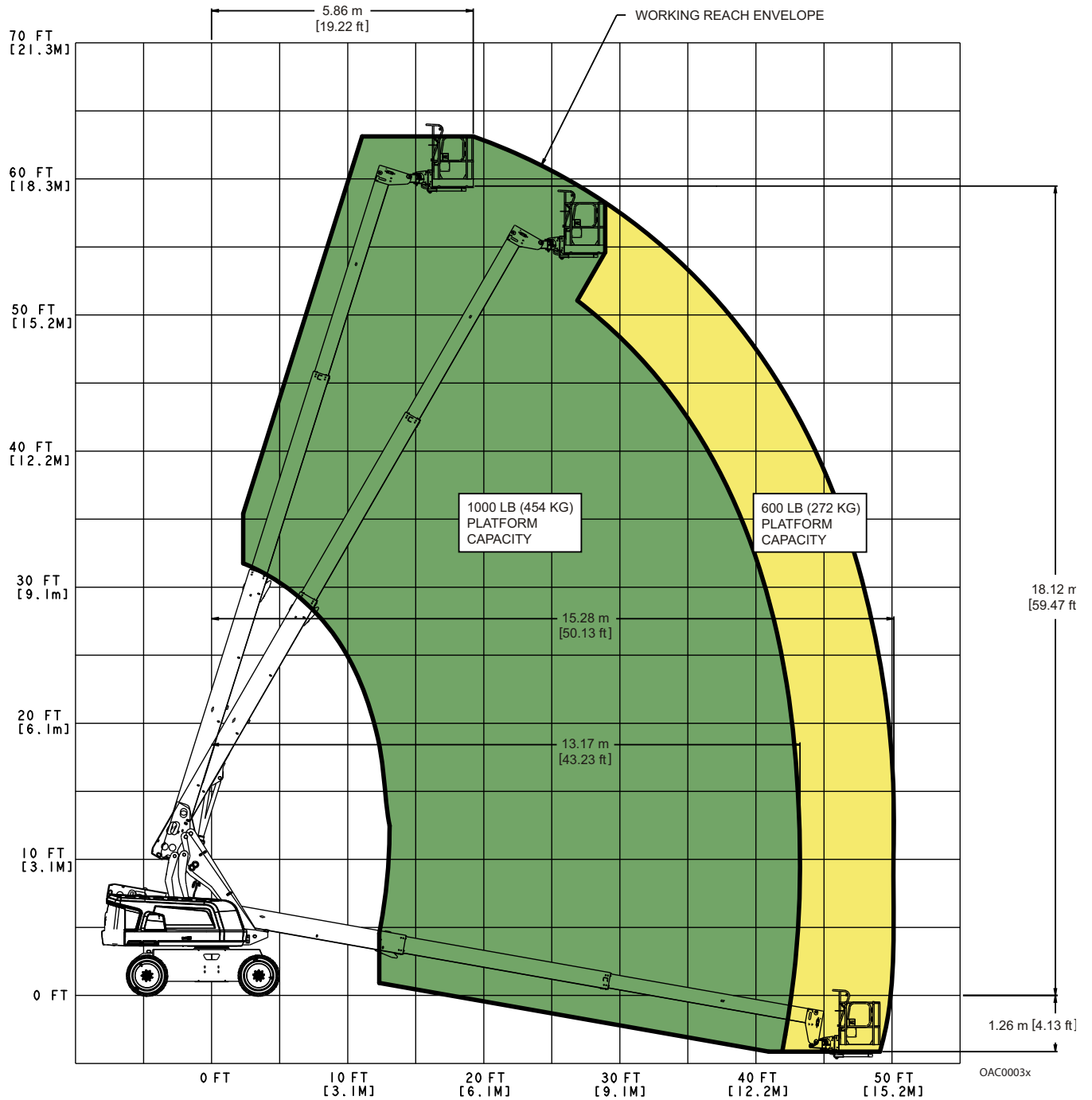


Figure 3-18. 600S Reach Chart (SN 0300235168 & B300002655 to Present)

SECTION 3 - RANGE DIAGRAMS

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

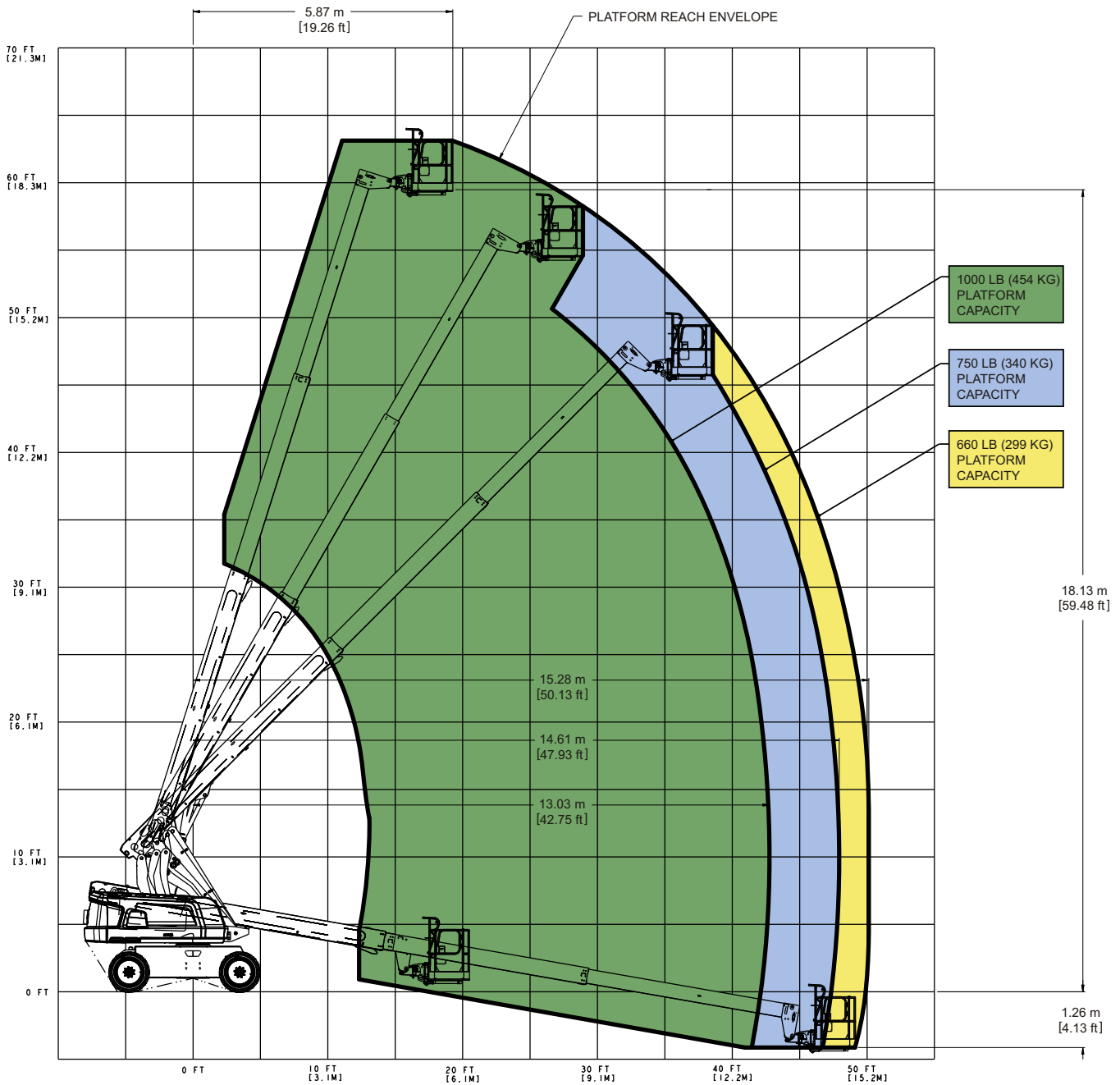


Figure 3-19. 600S HC3 Reach Chart

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

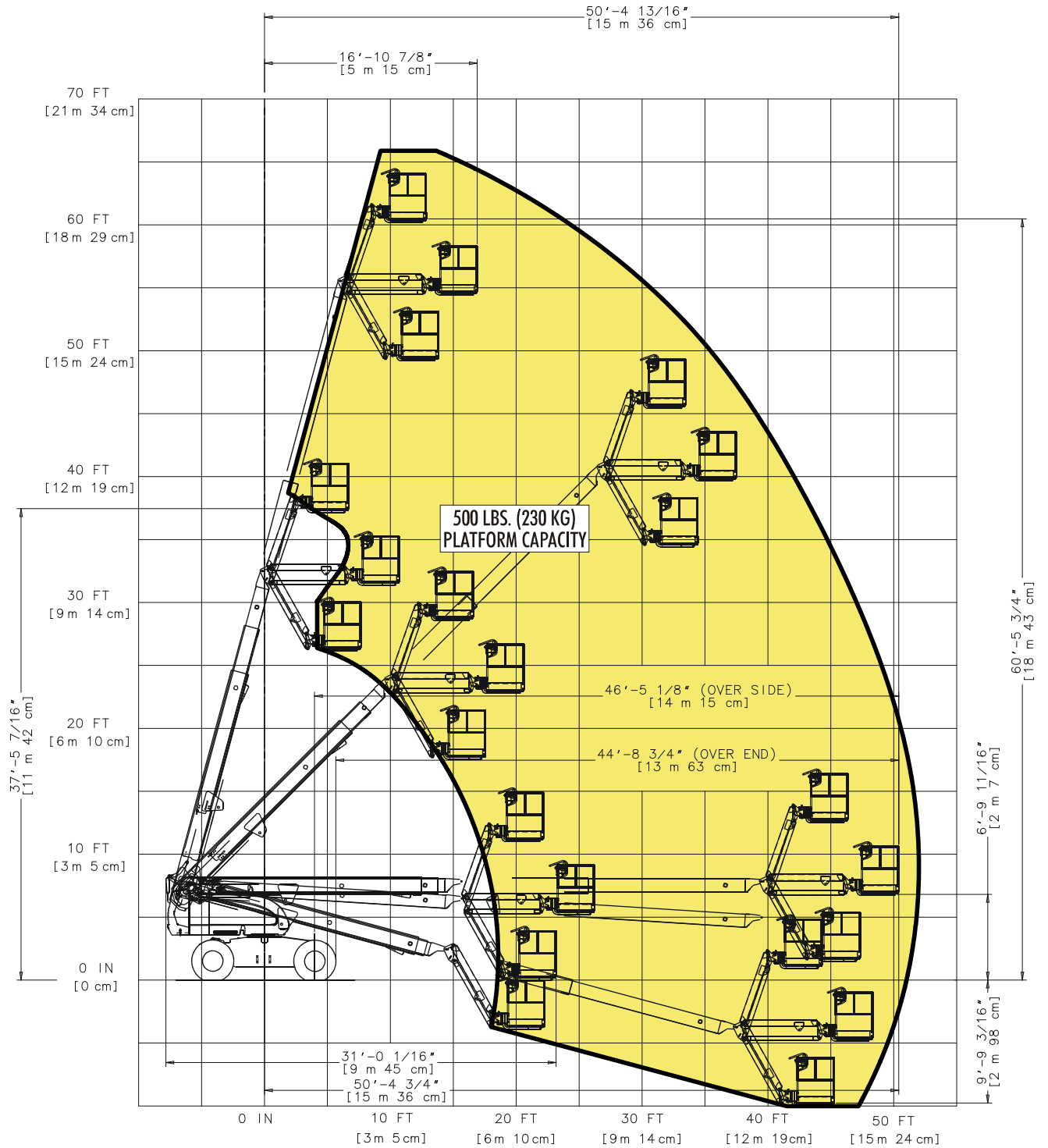


Figure 3-20. 600SJ Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

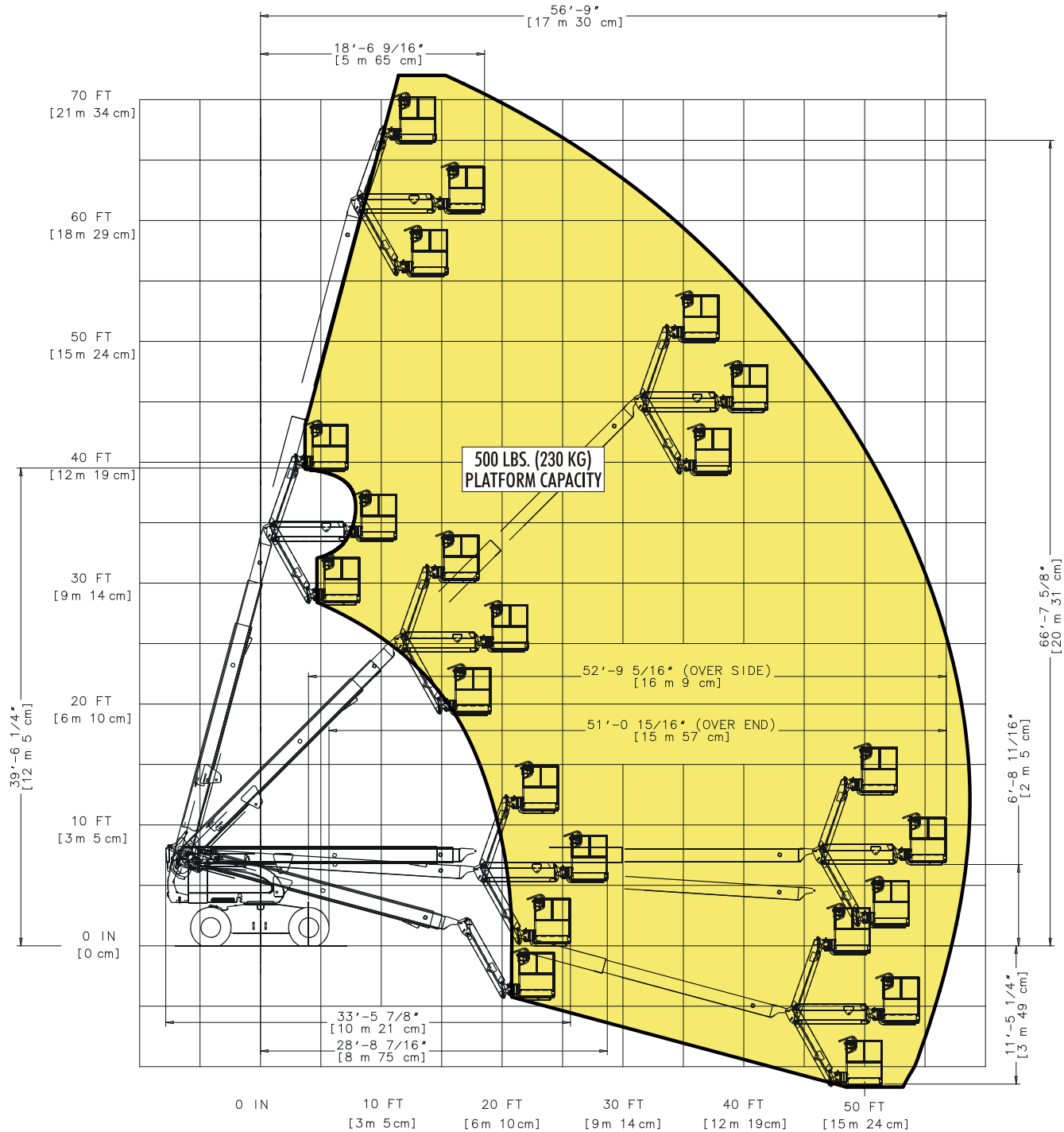


Figure 3-21. 660SJ Reach Chart (Prior to SN 0300235168)

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

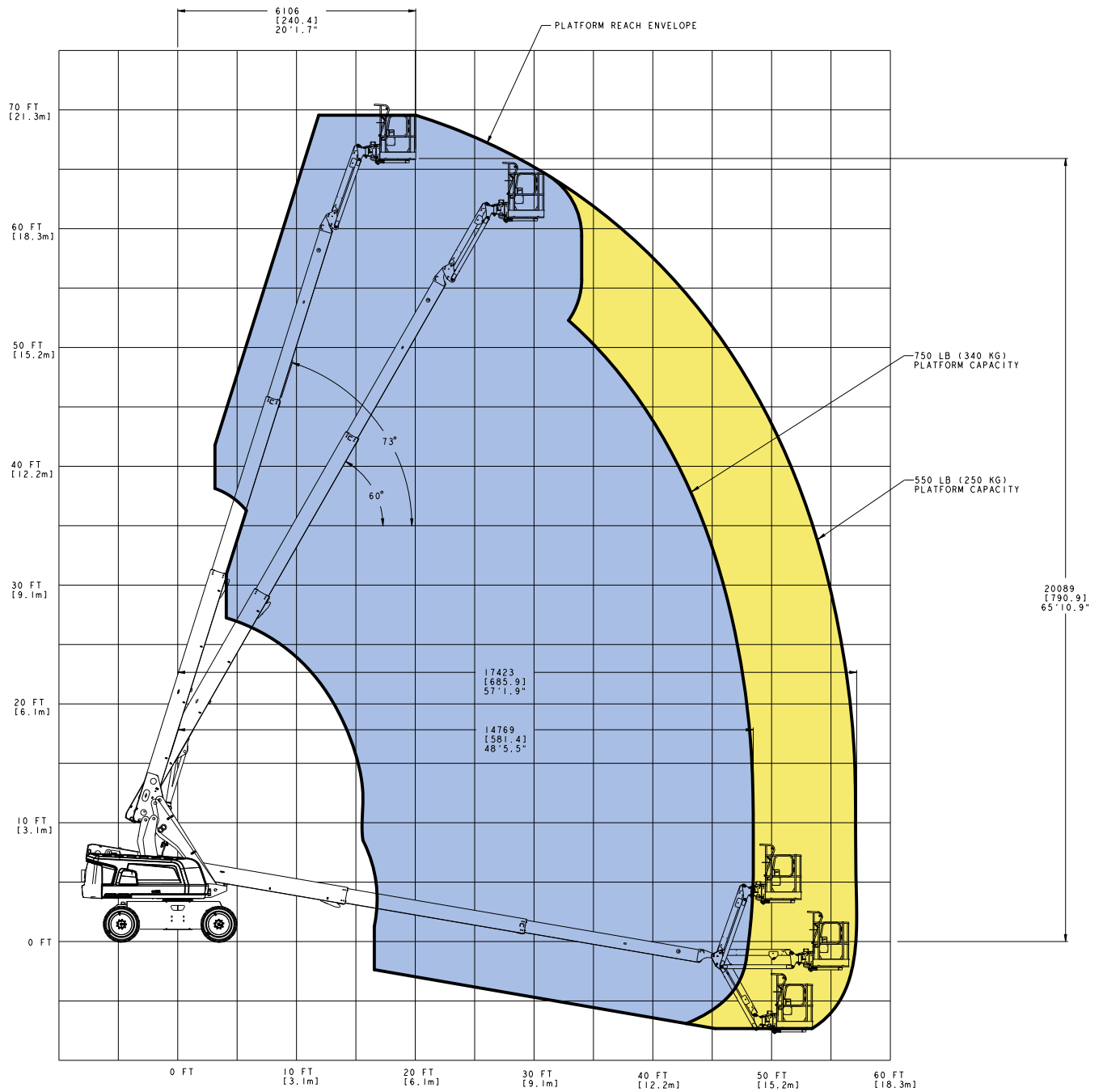


Figure 3-22. 660SJ Reach Chart (SN 0300235168 & B300002655 to Present)

SECTION 3 - RANGE DIAGRAMS

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

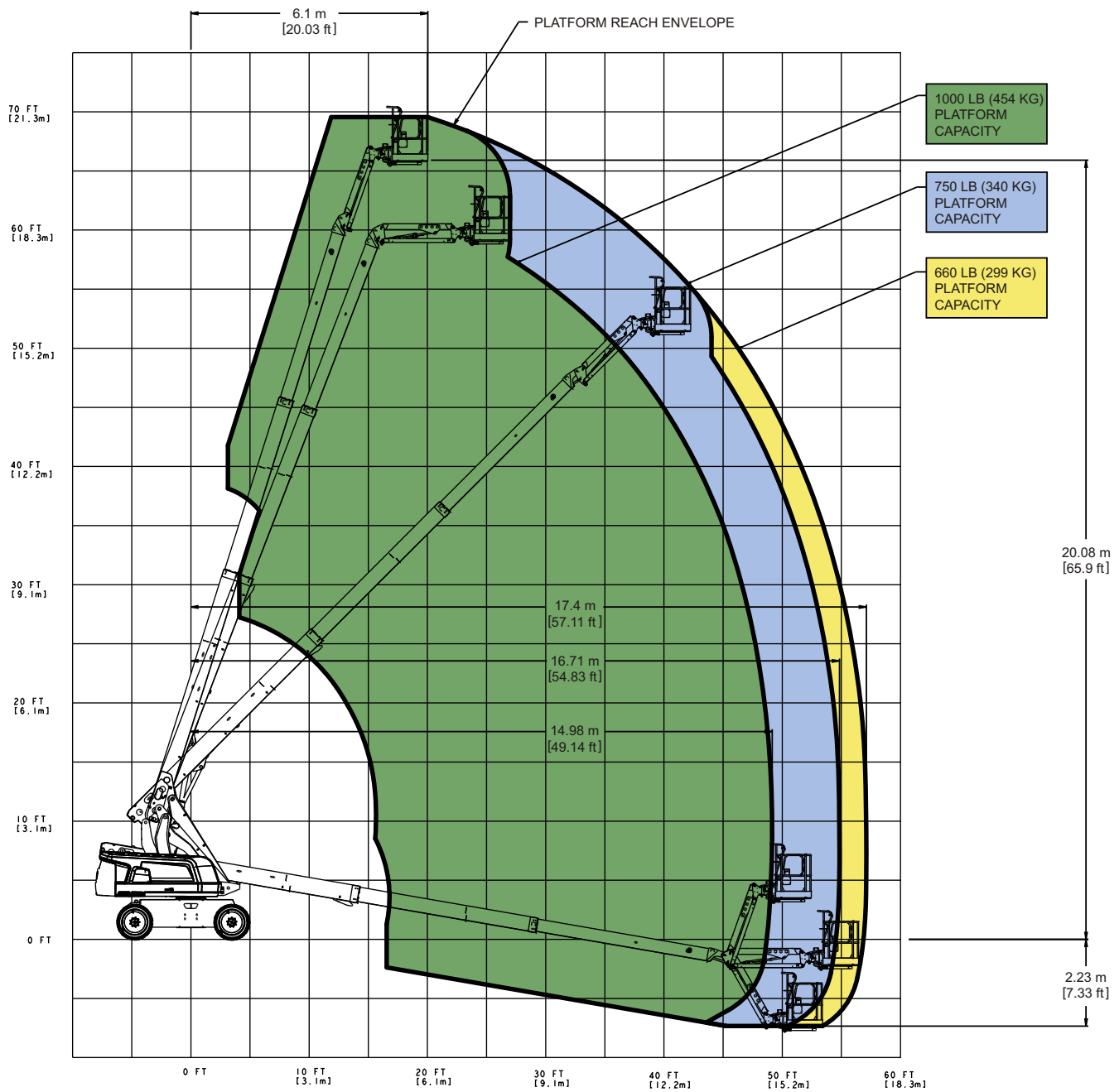


Figure 3-23. 660SJ HC3 Reach Chart

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

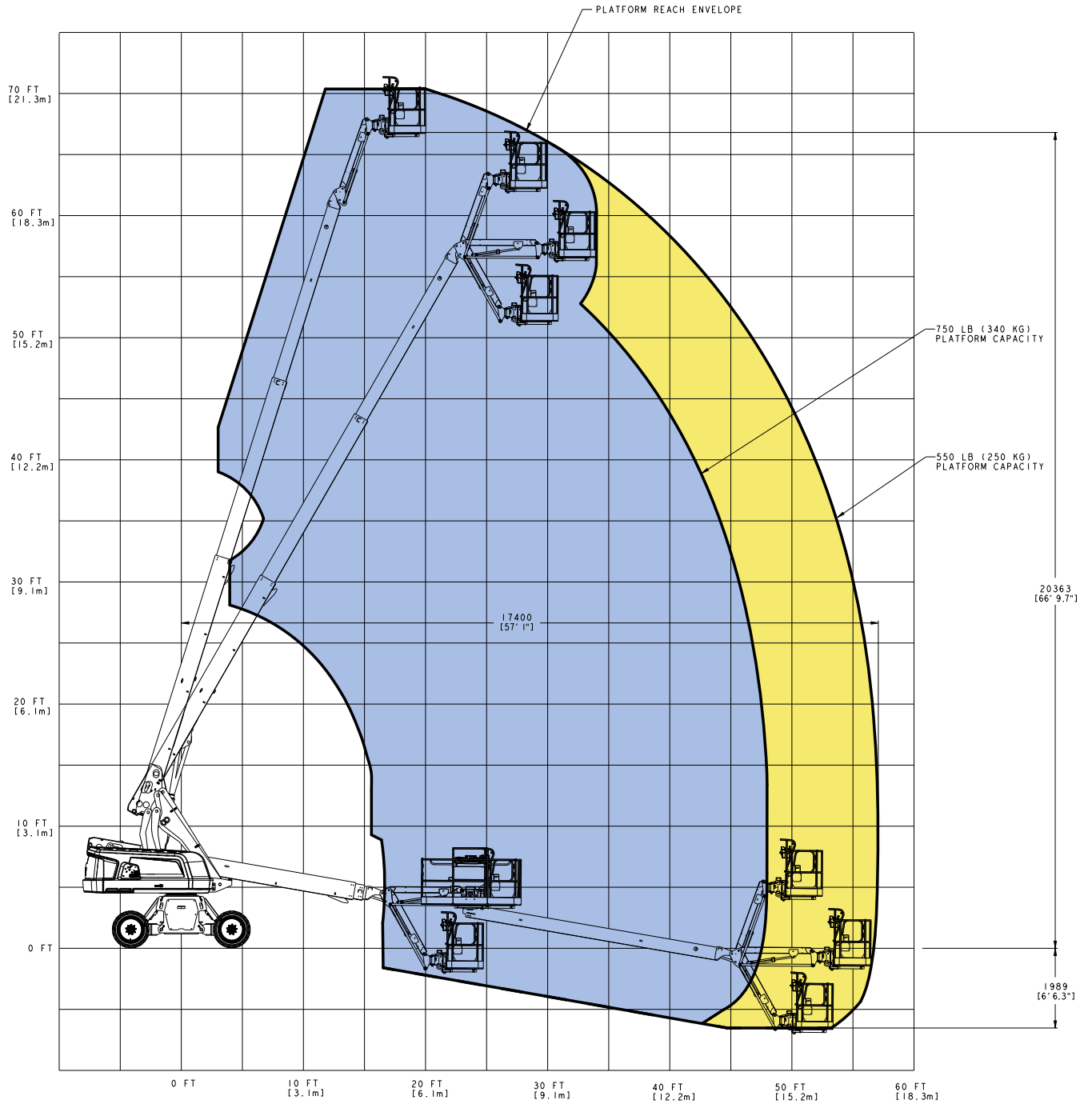


Figure 3-24. 670SJ Self Leveling Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

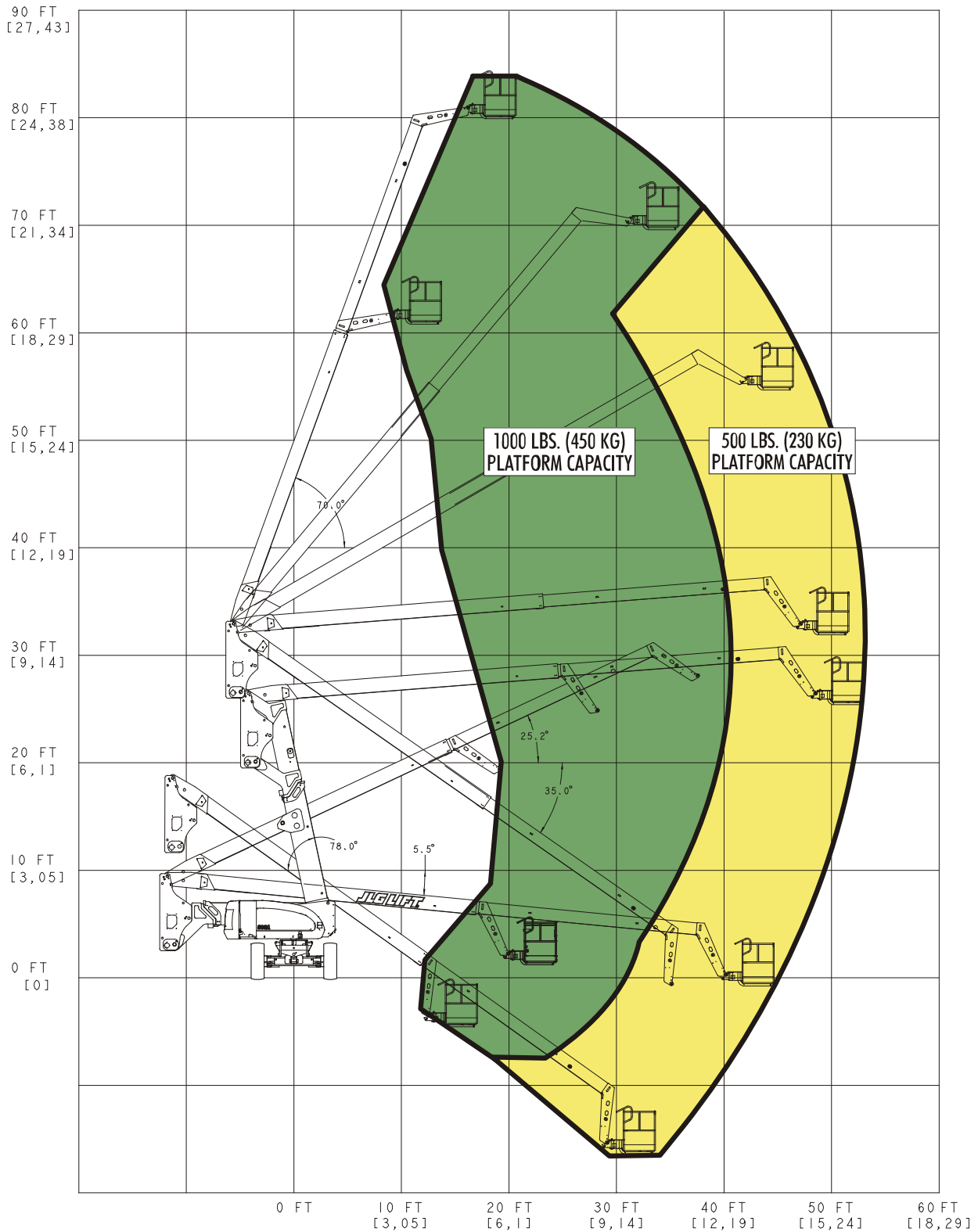


Figure 3-25. 800A Reach Chart

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

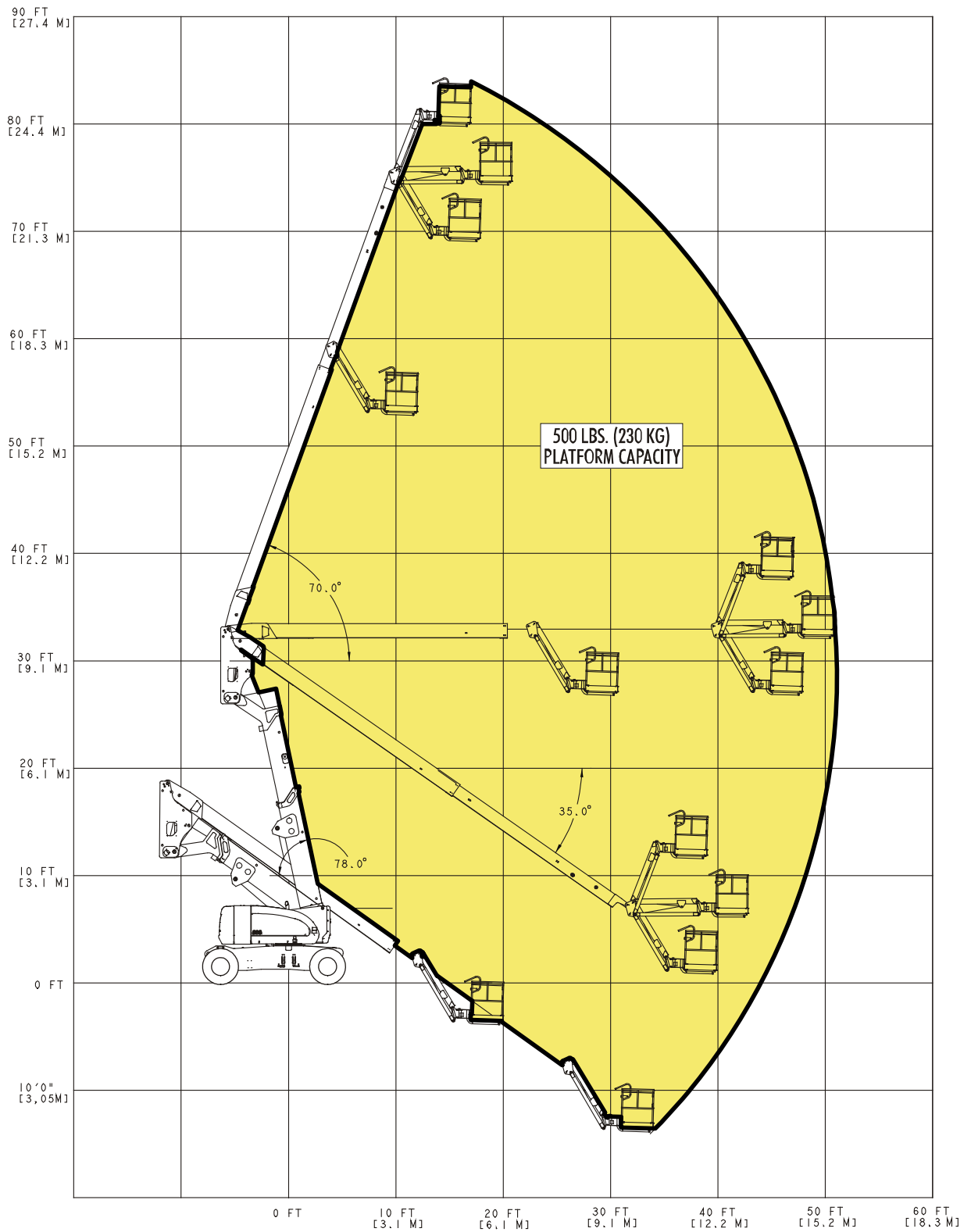


Figure 3-26. 800AJ / H800AJ Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

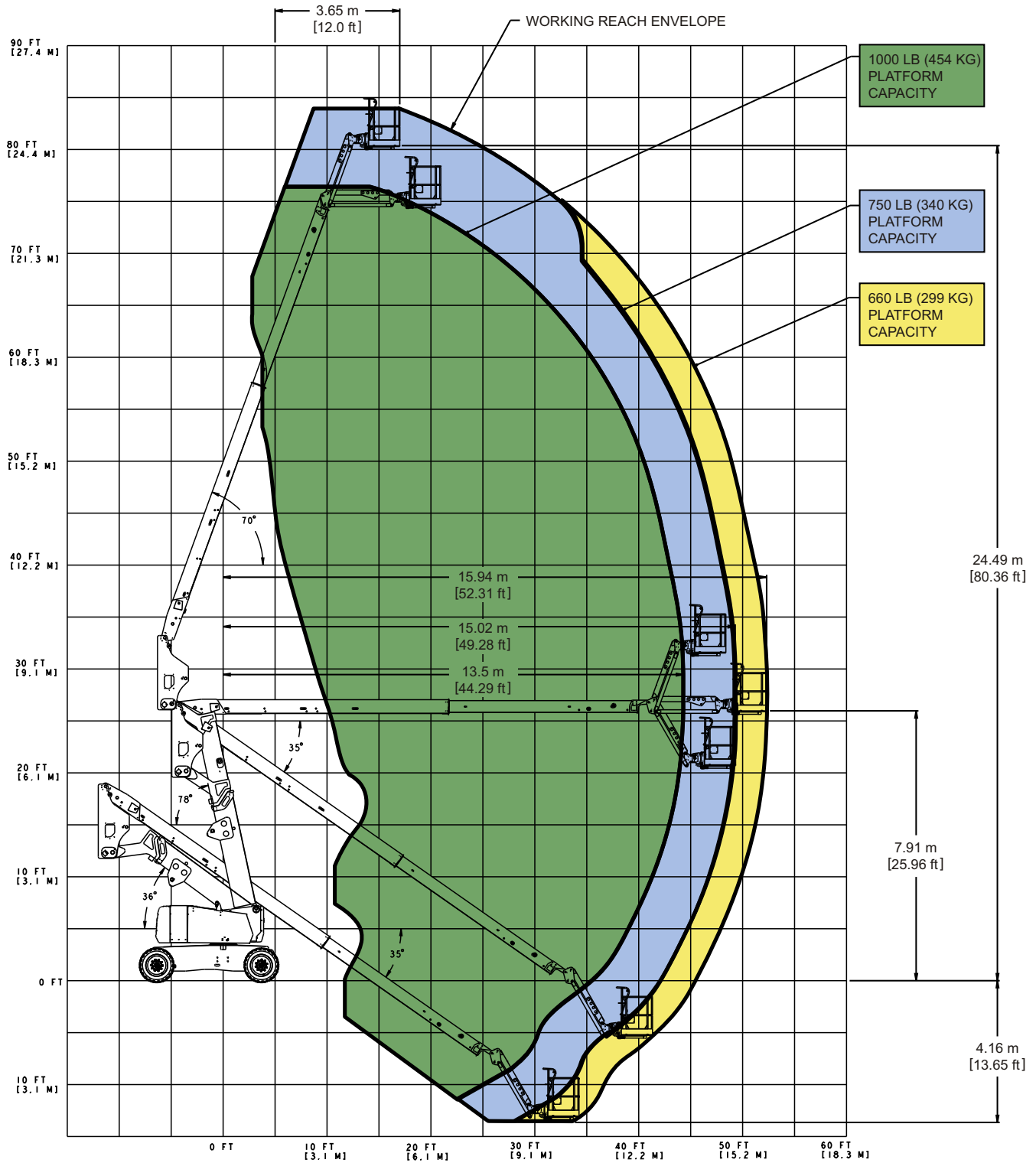


Figure 3-27. 800AJ HC3 Reach Chart

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

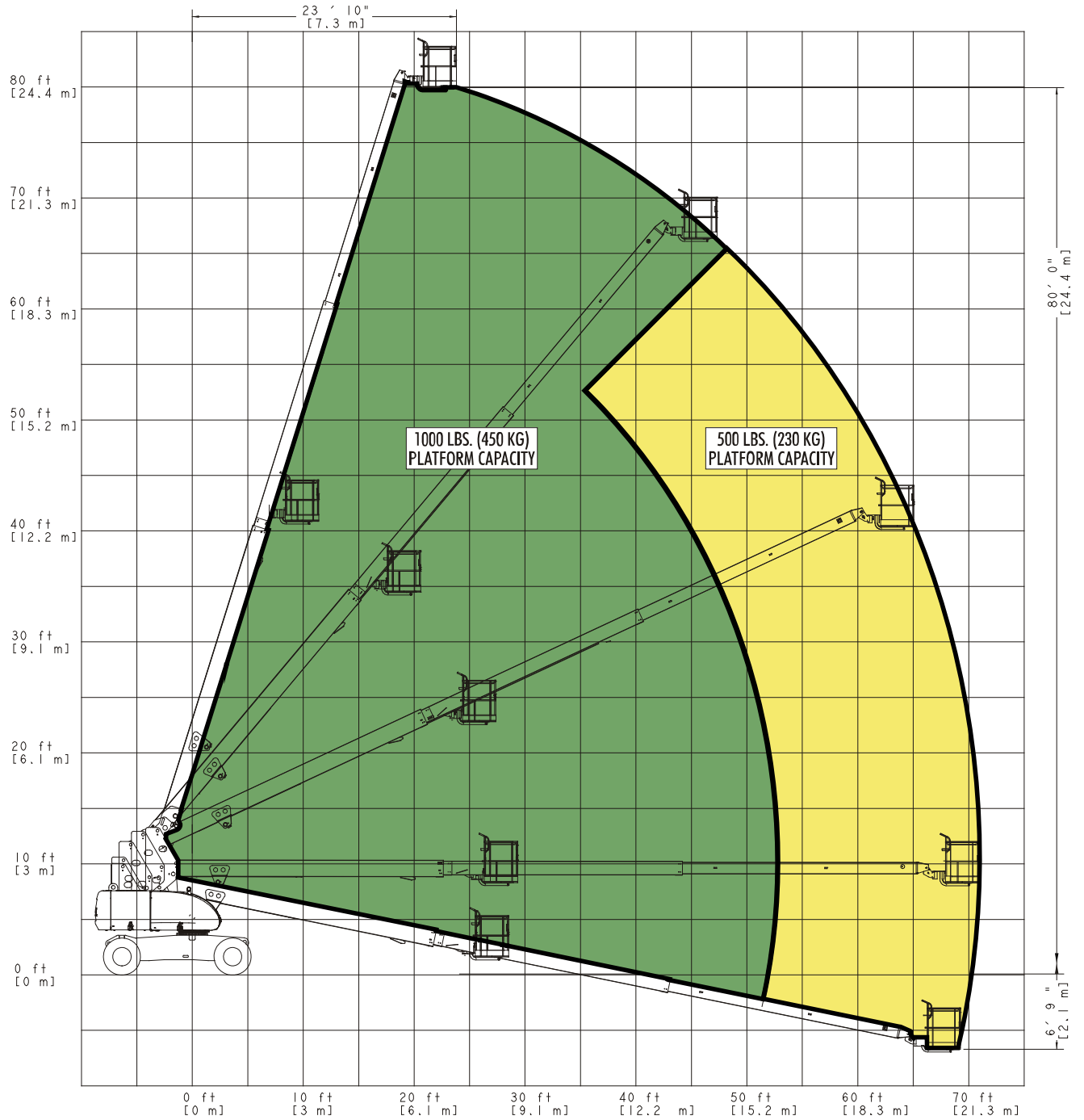


Figure 3-28. 800S Reach Chart (Prior to SN 03000272491)

SECTION 3 - RANGE DIAGRAMS

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

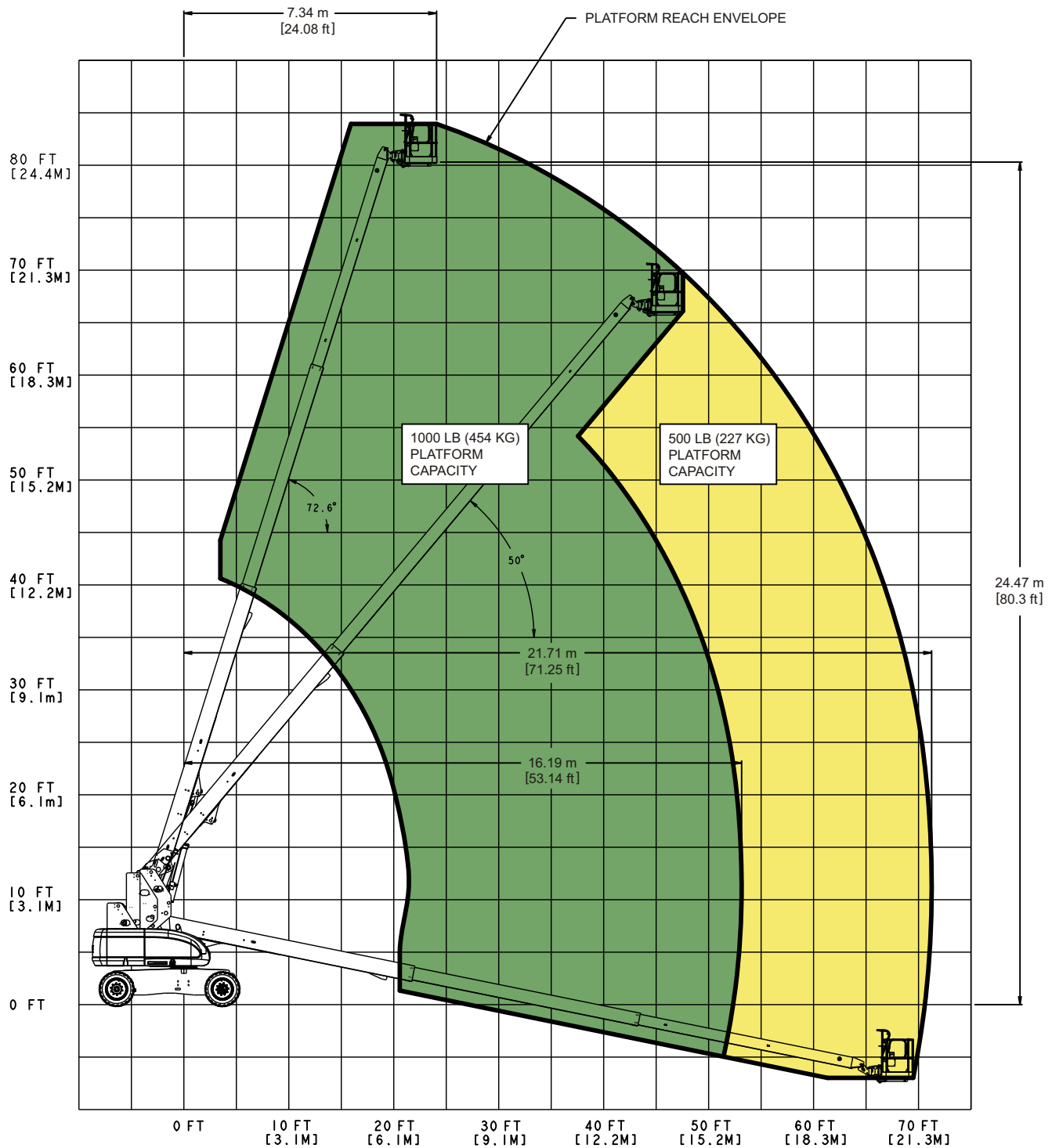


Figure 3-29. 800S Reach Chart (SN 0300273276 to Present)

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

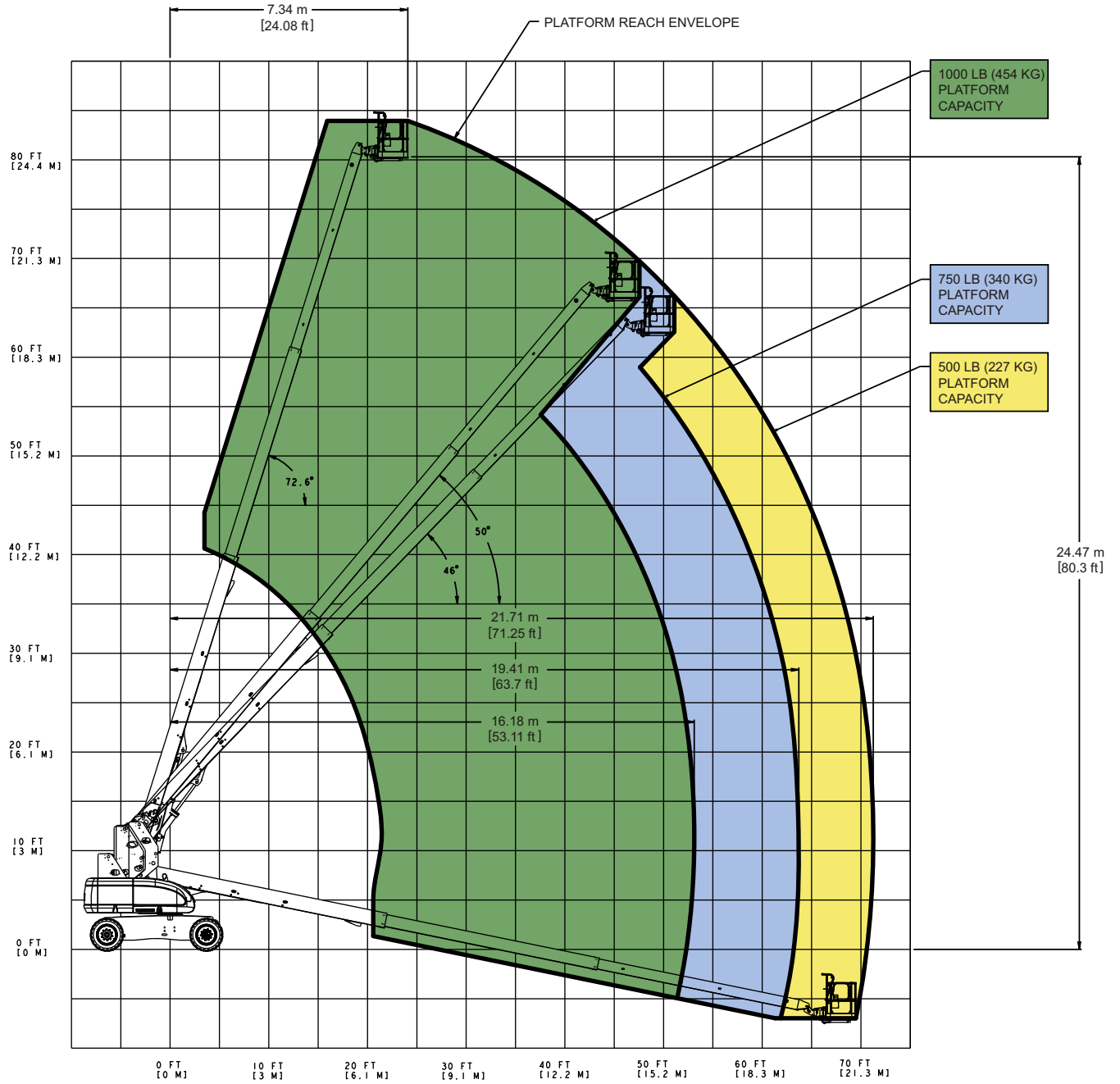


Figure 3-30. 800S HC3 Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

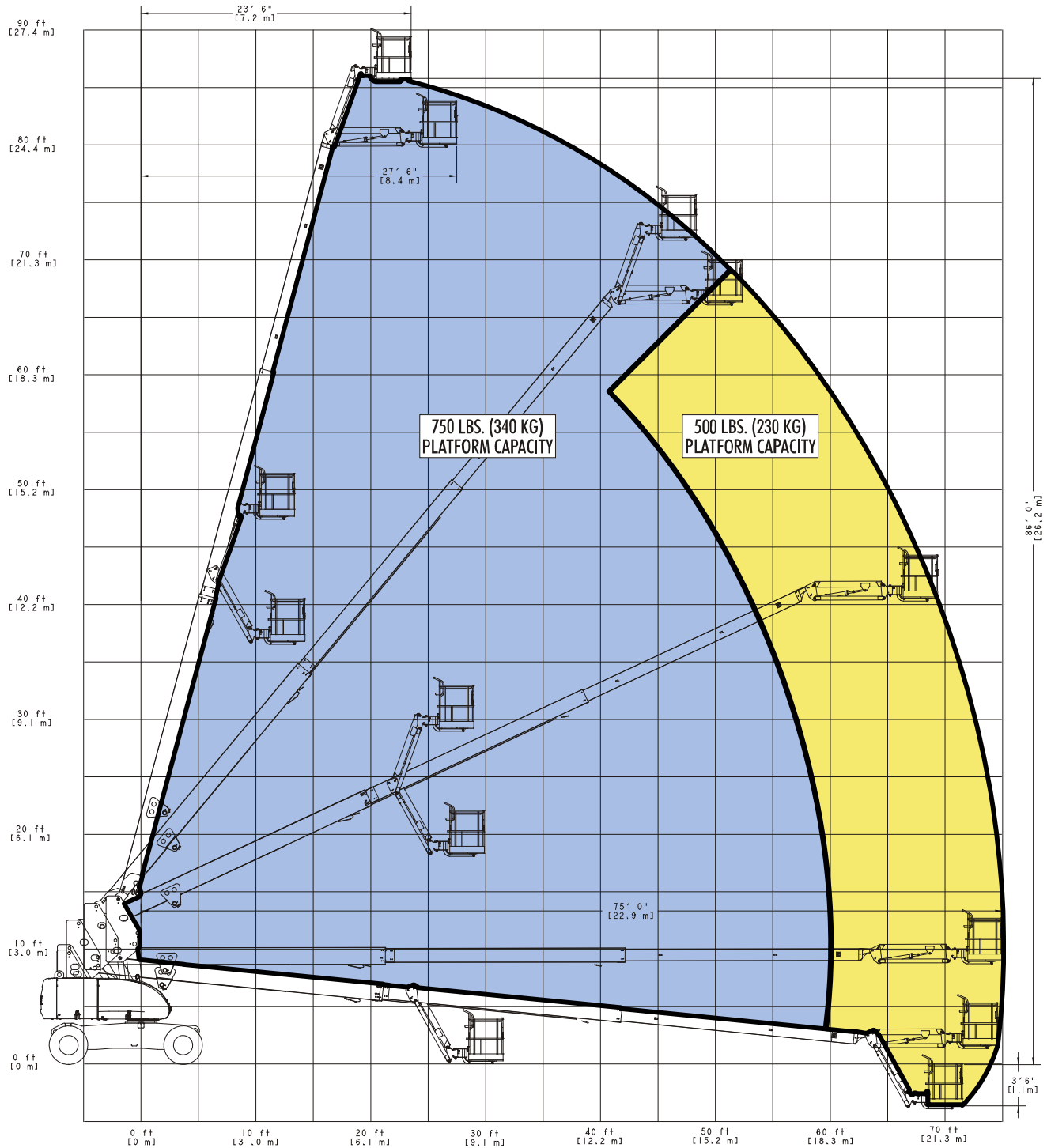


Figure 3-31. 860SJ Reach Chart (Prior to SN 03000272492)

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

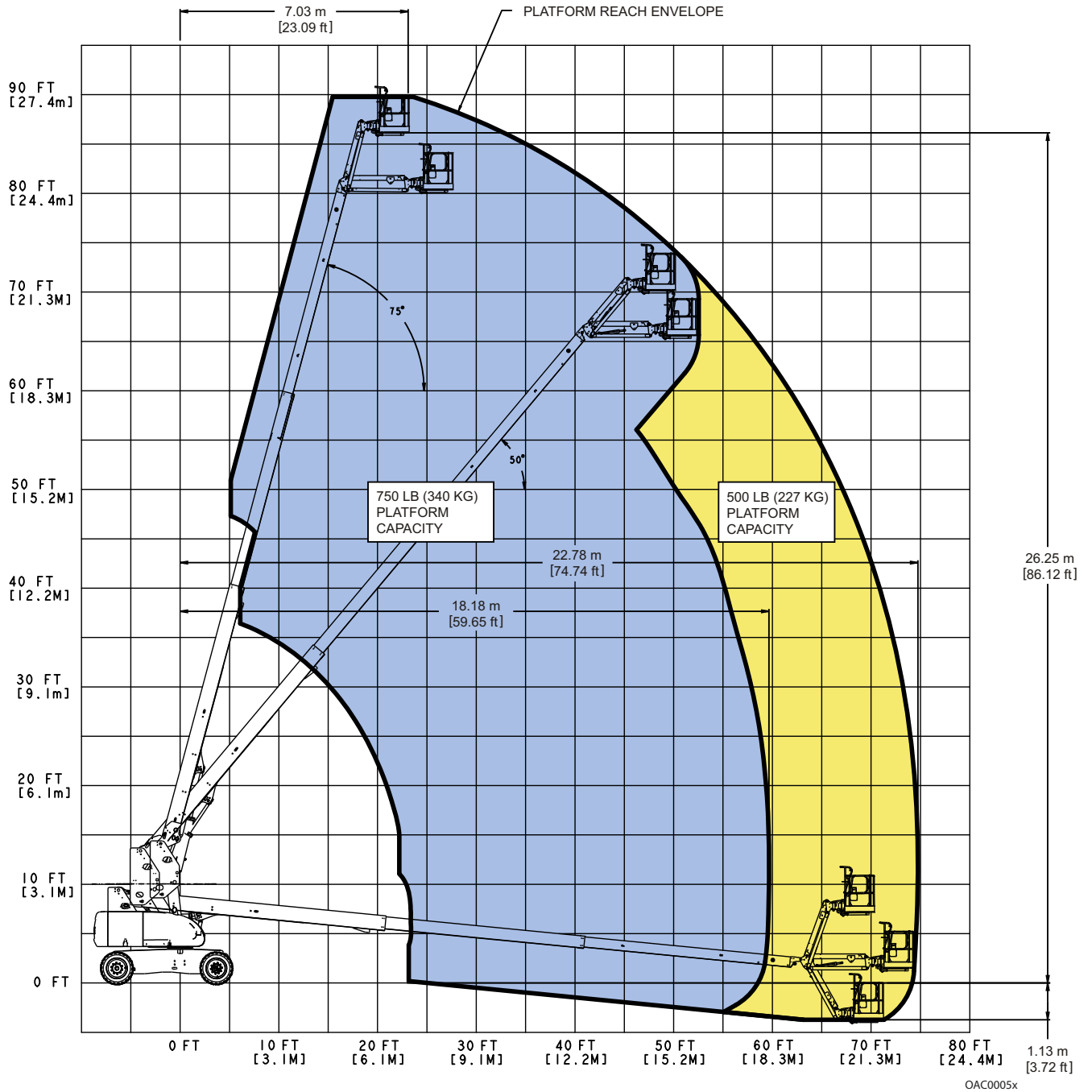


Figure 3-32. 860SJ Reach Chart (SN 0300272449, B300005780 to Present)

SECTION 3 - RANGE DIAGRAMS

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

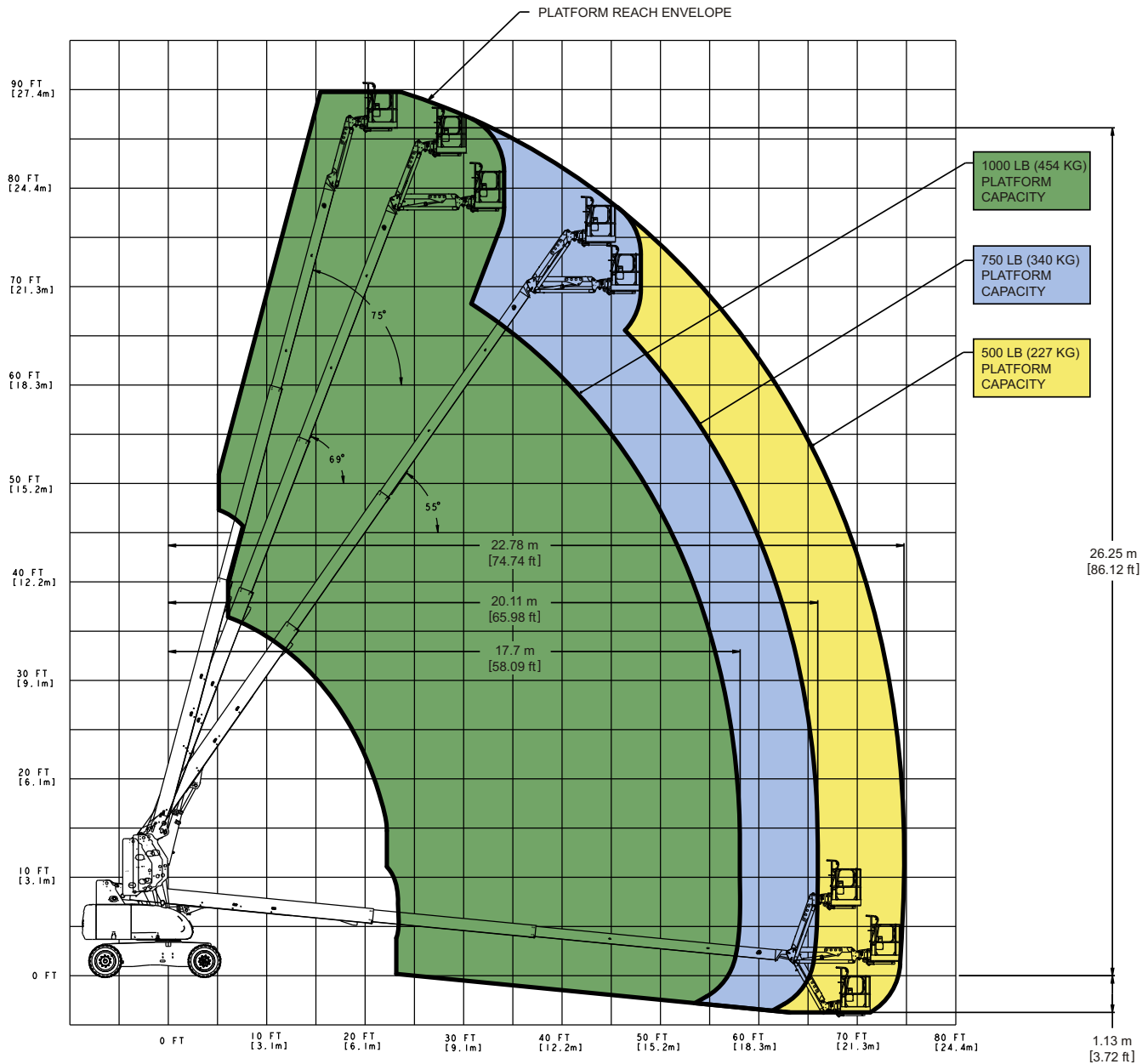


Figure 3-33. 860SJ HC3 Reach Chart

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

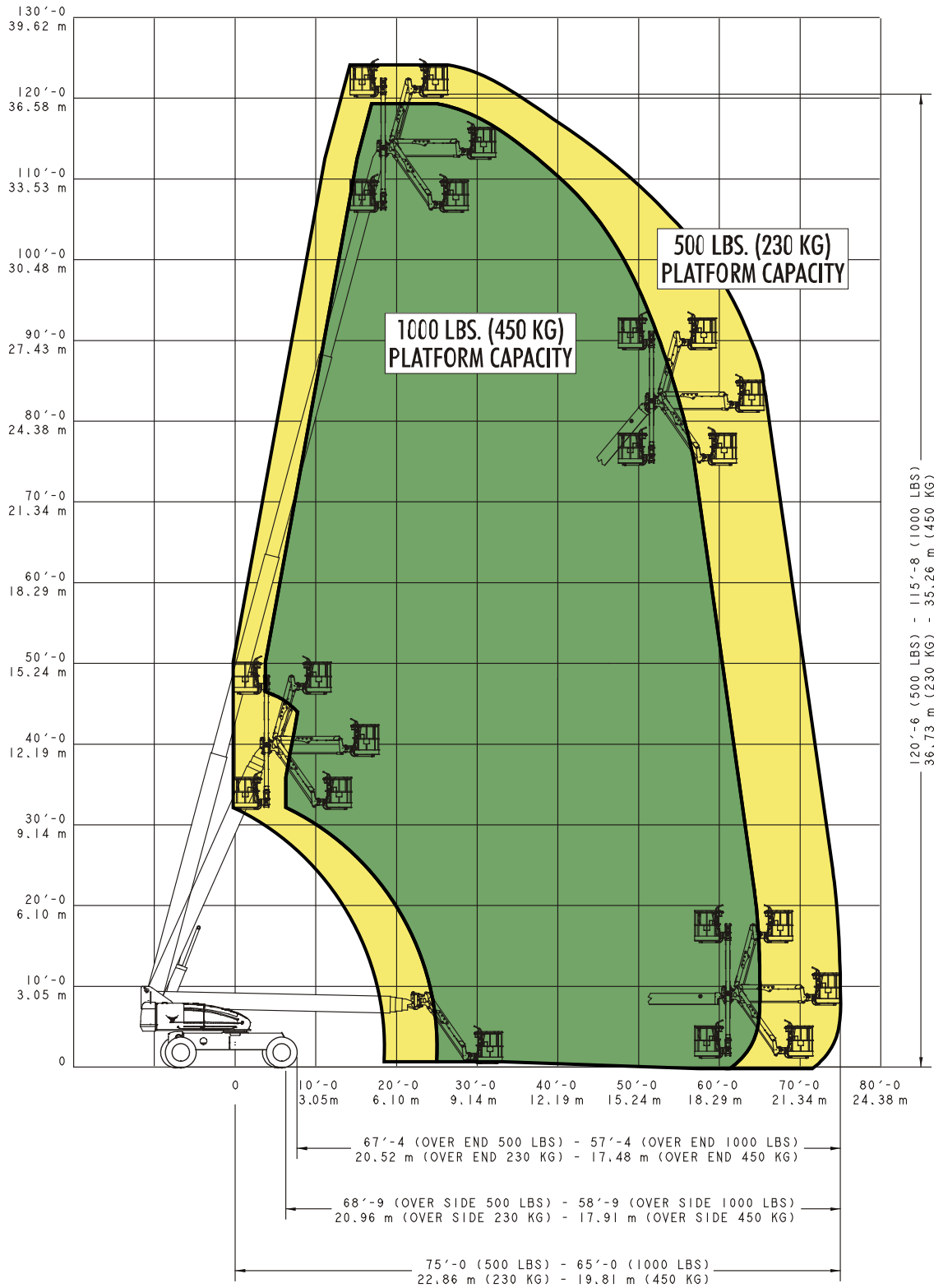


Figure 3-34. 1200SJP Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

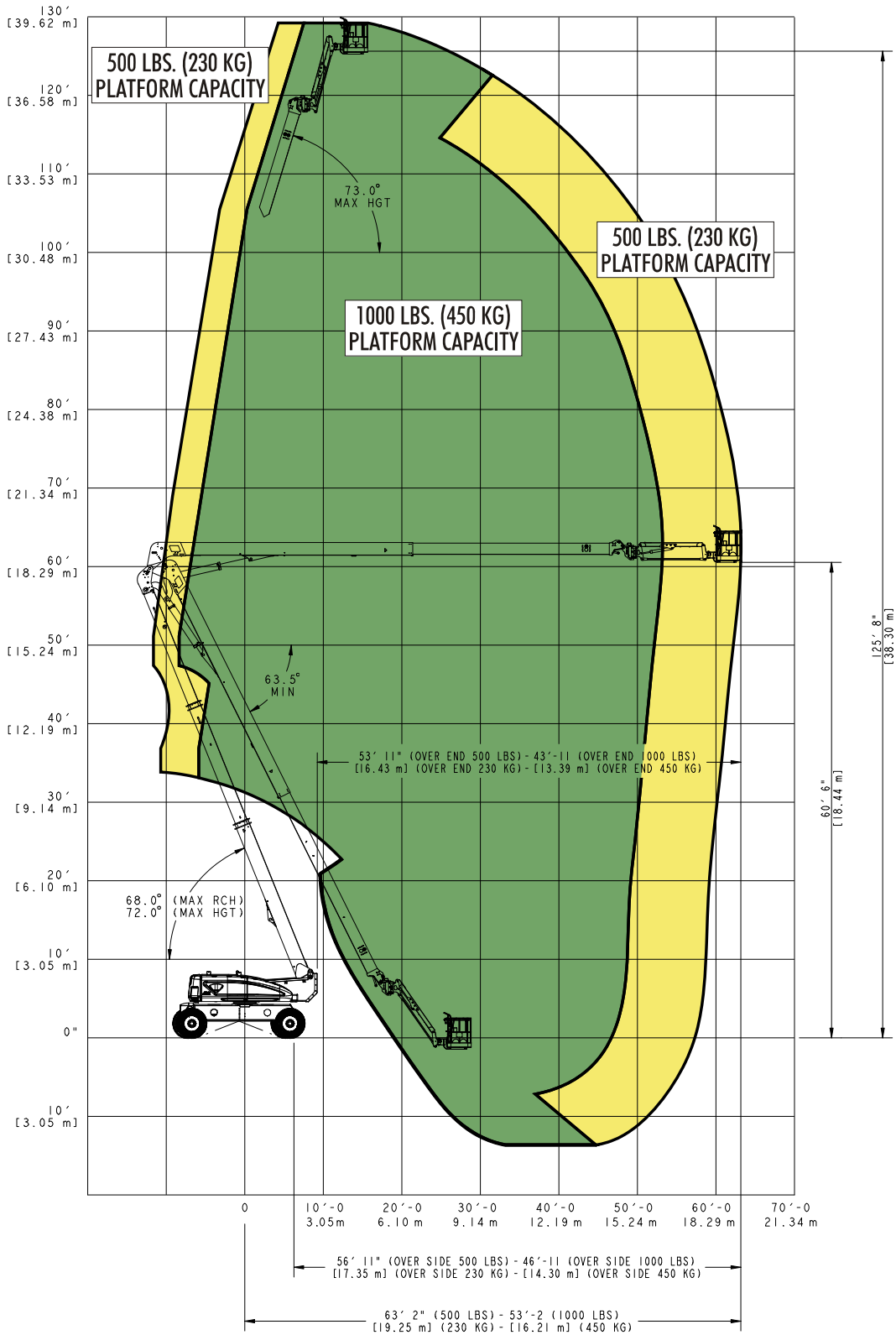


Figure 3-35. 1250AJP Reach Chart (SN 0300144623 to Present)

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

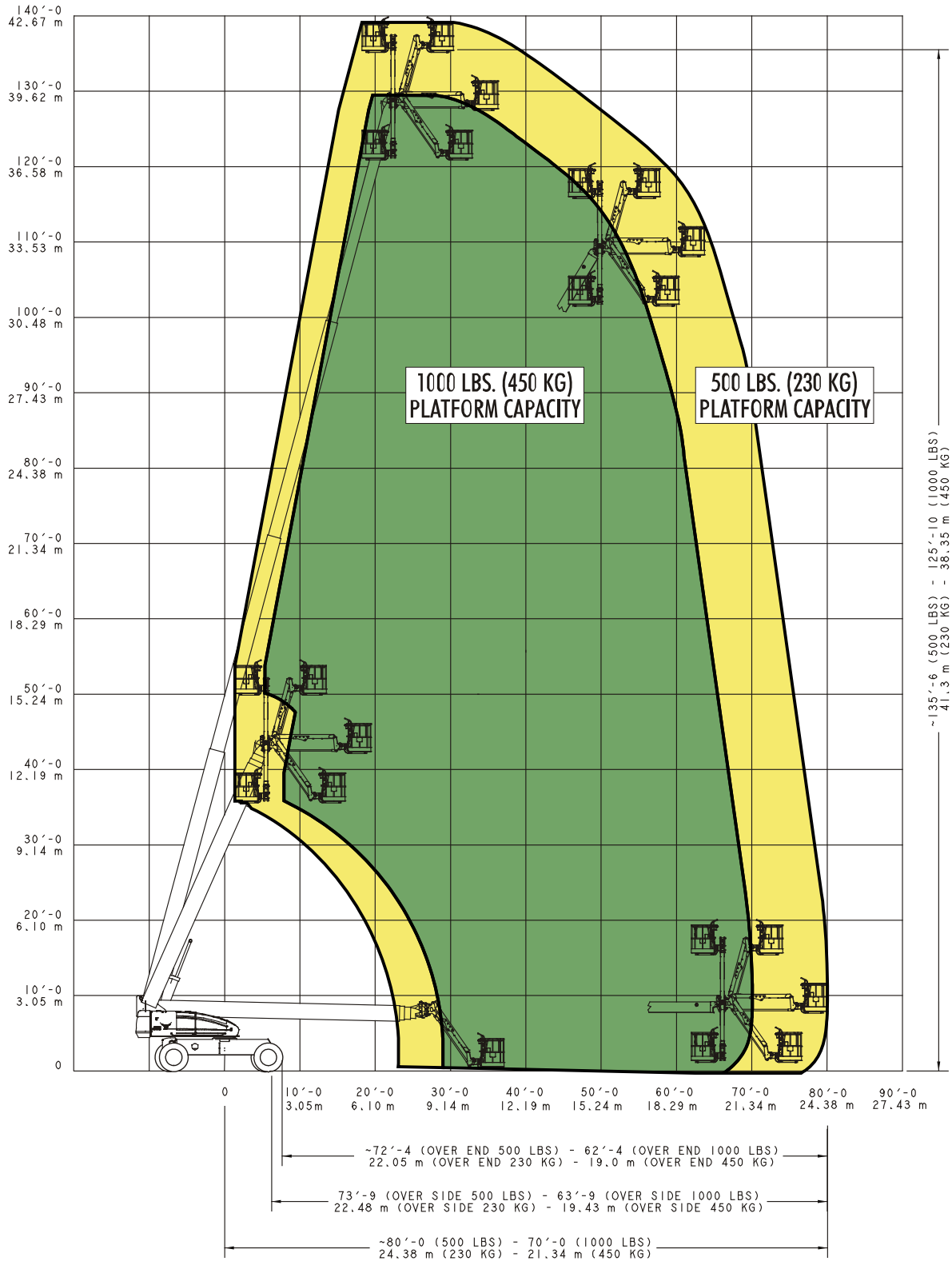


Figure 3-36. 1350JJP Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

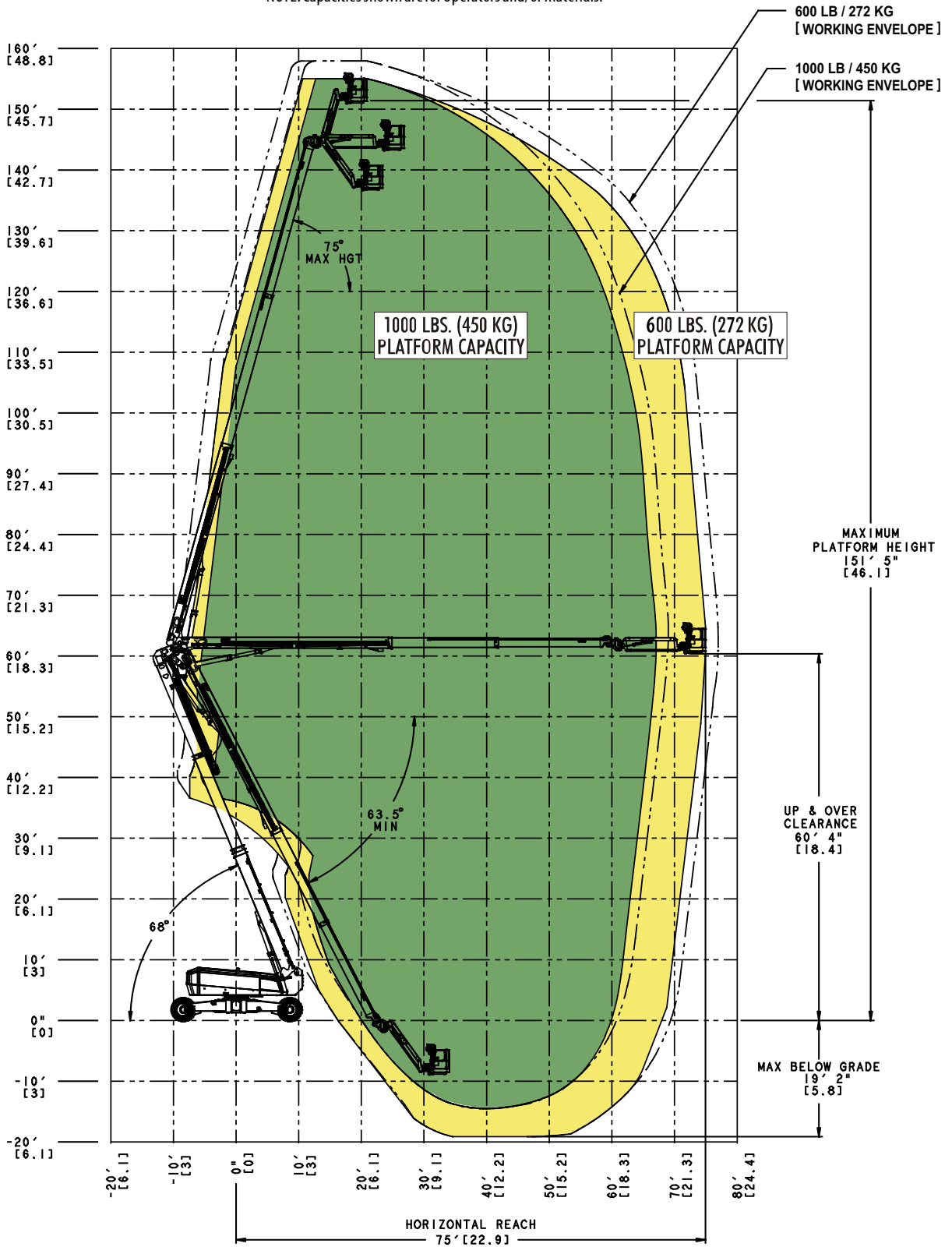


Figure 3-37. 1500AJP Reach Chart

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

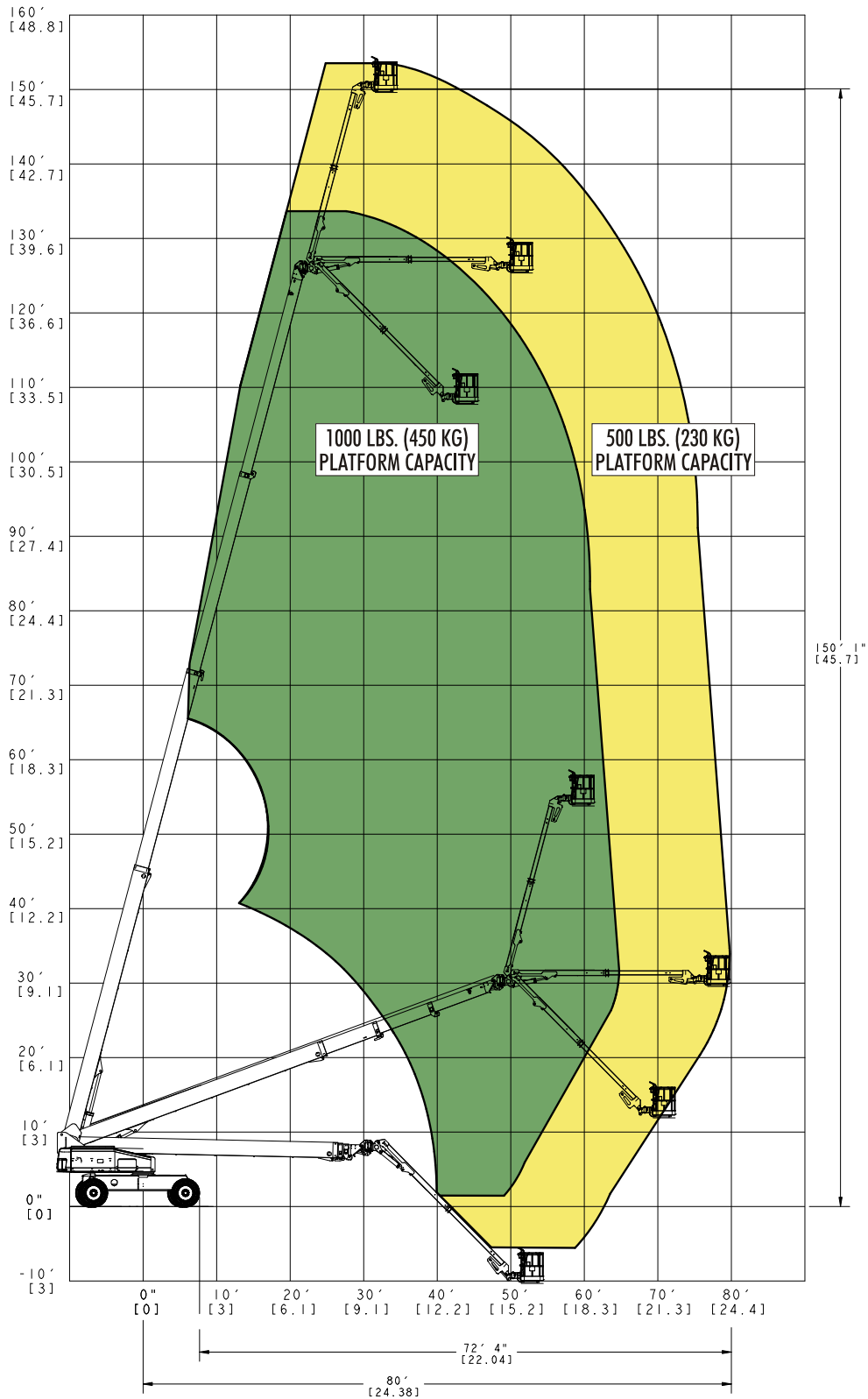


Figure 3-38. 1500SJ Reach Chart

SECTION 3 - RANGE DIAGRAMS

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

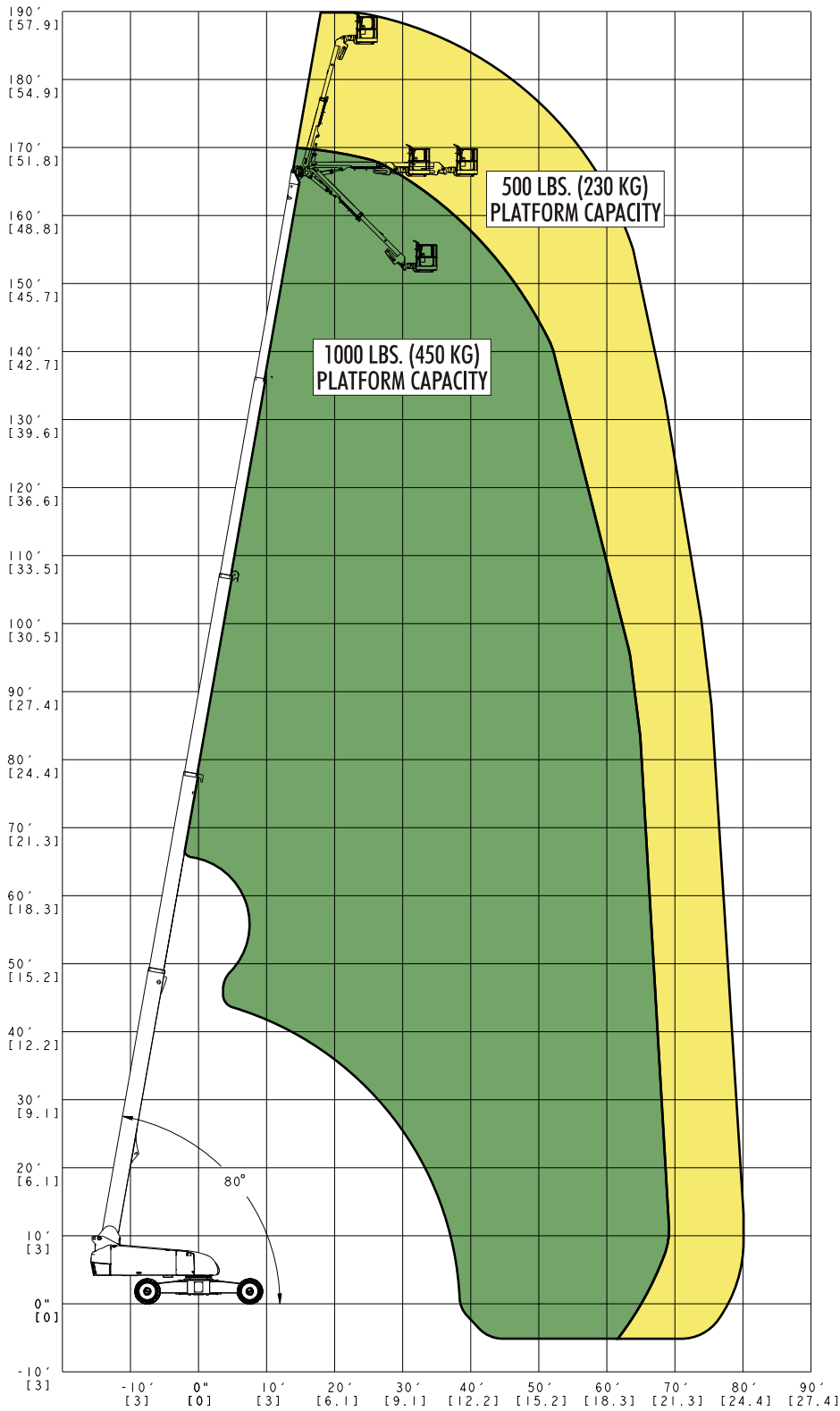


Figure 3-39. 1850SJ Reach Chart



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