



# Load Rating Chart

***Model 50110SHL***



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**NOTE:** Additional copies of this Load Rating Chart can be purchased from your Manitex Distributor. When ordering, use the part number shown in the bottom left corner of this page.

**LMI OPERATING CODES**

| <b>CODE</b> | <b>CRANE CONFIGURATION</b>                          | <b>OUTRIGGER CONFIGURATION</b> | <b>AREA OF OPERATION</b> |
|-------------|-----------------------------------------------------|--------------------------------|--------------------------|
| #1—         | MAIN BOOM — — — — —                                 | FULLY EXTENDED — — — — —       | OVER REAR                |
| #3—         | MAIN BOOM — — — — —                                 | FULLY EXTENDED — — — — —       | FULL 360°                |
| #4—         | MAIN BOOM — — — — —                                 | MID POSITION — — — — —         | FULL 360°                |
| #5—         | MAIN BOOM — — — — —                                 | RETRACTED — — — — —            | FULL 360°                |
| #7—         | RETRACTED JIB 0° OFFSET — — — — —                   | FULLY EXTENDED — — — — —       | OVER REAR                |
| #8—         | RETRACTED JIB 0° OFFSET — — — — —                   | FULLY EXTENDED — — — — —       | FULL 360°                |
| #9—         | RETRACTED JIB 15° OFFSET — — — — —                  | FULLY EXTENDED — — — — —       | OVER REAR                |
| #10—        | RETRACTED JIB 15° OFFSET — — — — —                  | FULLY EXTENDED — — — — —       | FULL 360°                |
| #11—        | RETRACTED JIB 30° OFFSET — — — — —                  | FULLY EXTENDED — — — — —       | OVER REAR                |
| #12—        | RETRACTED JIB 30° OFFSET — — — — —                  | FULLY EXTENDED — — — — —       | FULL 360°                |
| #13—        | EXTENDED JIB 0° OFFSET — — — — —                    | FULLY EXTENDED — — — — —       | OVER REAR                |
| #14—        | EXTENDED JIB 0° OFFSET — — — — —                    | FULLY EXTENDED — — — — —       | FULL 360°                |
| #15—        | EXTENDED JIB 15° OFFSET — — — — —                   | FULLY EXTENDED — — — — —       | OVER REAR                |
| #16—        | EXTENDED JIB 15° OFFSET — — — — —                   | FULLY EXTENDED — — — — —       | FULL 360°                |
| #17—        | EXTENDED JIB 30° OFFSET — — — — —                   | FULLY EXTENDED — — — — —       | OVER REAR                |
| #18—        | EXTENDED JIB 30° OFFSET — — — — —                   | FULLY EXTENDED — — — — —       | FULL 360°                |
| #19—        | RETRACTED JIB 0° OFFSET — — — — —                   | MID POSITION — — — — —         | FULL 360°                |
| #20—        | RETRACTED JIB 15° OFFSET — — — — —                  | MID POSITION — — — — —         | FULL 360°                |
| #21—        | RETRACTED JIB 30° OFFSET — — — — —                  | MID POSITION — — — — —         | FULL 360°                |
| #22—        | EXTENDED JIB 0° OFFSET — — — — —                    | MID POSITION — — — — —         | FULL 360°                |
| #23—        | EXTENDED JIB 15° OFFSET — — — — —                   | MID POSITION — — — — —         | FULL 360°                |
| #24—        | EXTENDED JIB 30° OFFSET — — — — —                   | MID POSITION — — — — —         | FULL 360°                |
| #25—        | PERSONNEL LIFTING MAIN BOOM — — — — —               | FULLY EXTENDED — — — — —       | FULL 360°                |
| #26—        | PERSONNEL LIFTING RETR JIB 0° OFFSET — — — — —      | FULLY EXTENDED — — — — —       | FULL 360°                |
| #27—        | PERSONNEL LIFTING RETR JIB 15° OFFSET — — — — —     | FULLY EXTENDED — — — — —       | FULL 360°                |
| #28—        | PERSONNEL LIFTING RETR JIB 30° OFFSET — — — — —     | FULLY EXTENDED — — — — —       | FULL 360°                |
| #29—        | PERSONNEL LIFTING EXTENDED JIB 0° OFFSET — — — — —  | FULLY EXTENDED — — — — —       | FULL 360°                |
| #30—        | PERSONNEL LIFTING EXTENDED JIB 15° OFFSET — — — — — | FULLY EXTENDED — — — — —       | FULL 360°                |
| #31—        | PERSONNEL LIFTING EXTENDED JIB 30° OFFSET — — — — — | FULLY EXTENDED — — — — —       | FULL 360°                |

**WARNING**

1. THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
4. THE OPERATING RADIUS SHOWN IN THE JIB RATING CHART IS FOR FULLY EXTENDED BOOM ONLY. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIB.
5. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.



## **WARNING (CONTINUED)**

6. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT SHORTER OR LONGER BOOM LENGTH, WHICHEVER IS LESS. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
7. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
8. PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
9. THE MAXIMUM LOAD WHICH MAY BE TELESOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.

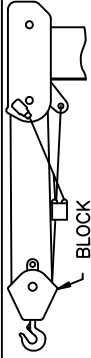
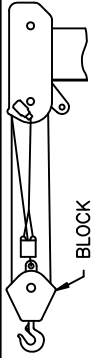
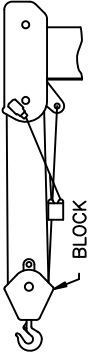
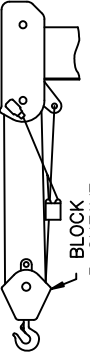
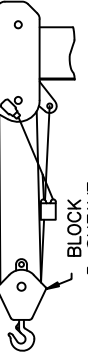
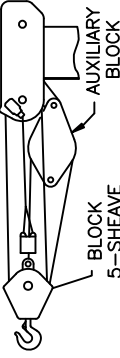
## **INFORMATION**

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOADBLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. LOAD RATINGS ABOVE THE HEAVY LINE ARE STRUCTURALLY LIMITED CAPACITIES. LOAD RATINGS BELOW THE HEAVY LINE ARE STABILITY LIMITED CAPACITIES AND DO NOT EXCEED 85% OF TIPPING.

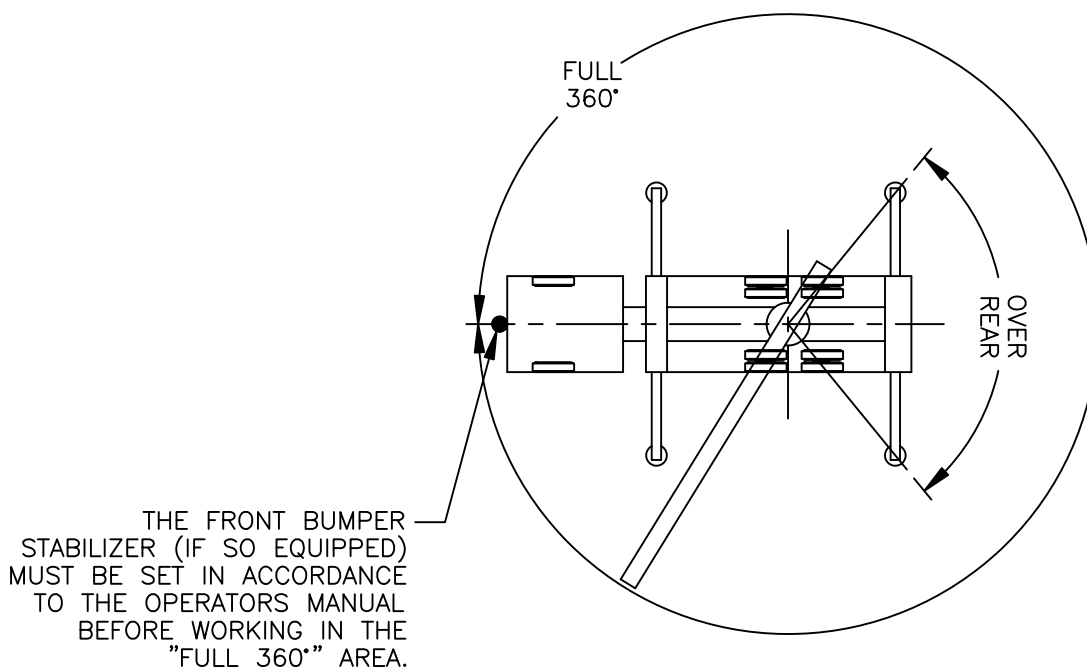
## **DEFINITIONS**

1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
2. LOADED BOOM ANGLE IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.



| ALLOWABLE LINE PULL                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | WARNING |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
| 1 PART LINE                                                                      | 2 PART LINE                                                                       | 3 PART LINE                                                                       | 4 PART LINE                                                                       | 5 PART LINE                                                                       | 6 PART LINE                                                                       | 7 PART LINE                                                                       | 8 PART LINE                                                                       | 9 PART LINE                                                                         | 10 PART LINE                                                                        |         |
|  |  |  |  |  |  |  |  |  |  |         |
| 10000 LBS                                                                        | 20000 LBS                                                                         | 30000 LBS                                                                         | 40000 LBS                                                                         | 50000 LBS                                                                         | 60000 LBS                                                                         | 70000 LBS                                                                         | 80000 LBS                                                                         | 90000 LBS                                                                           | 100000 LBS                                                                          |         |
| 5/8" 6 X 19 CLASS (3.5:1 SF) 35,000 LBS MIN BREAKING STRENGTH                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |         |
| 5/8" ROT RESISTANT (5:1 SF) 50,000 LBS MIN BREAKING STRENGTH                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |         |

## AREA OF OPERATIONS

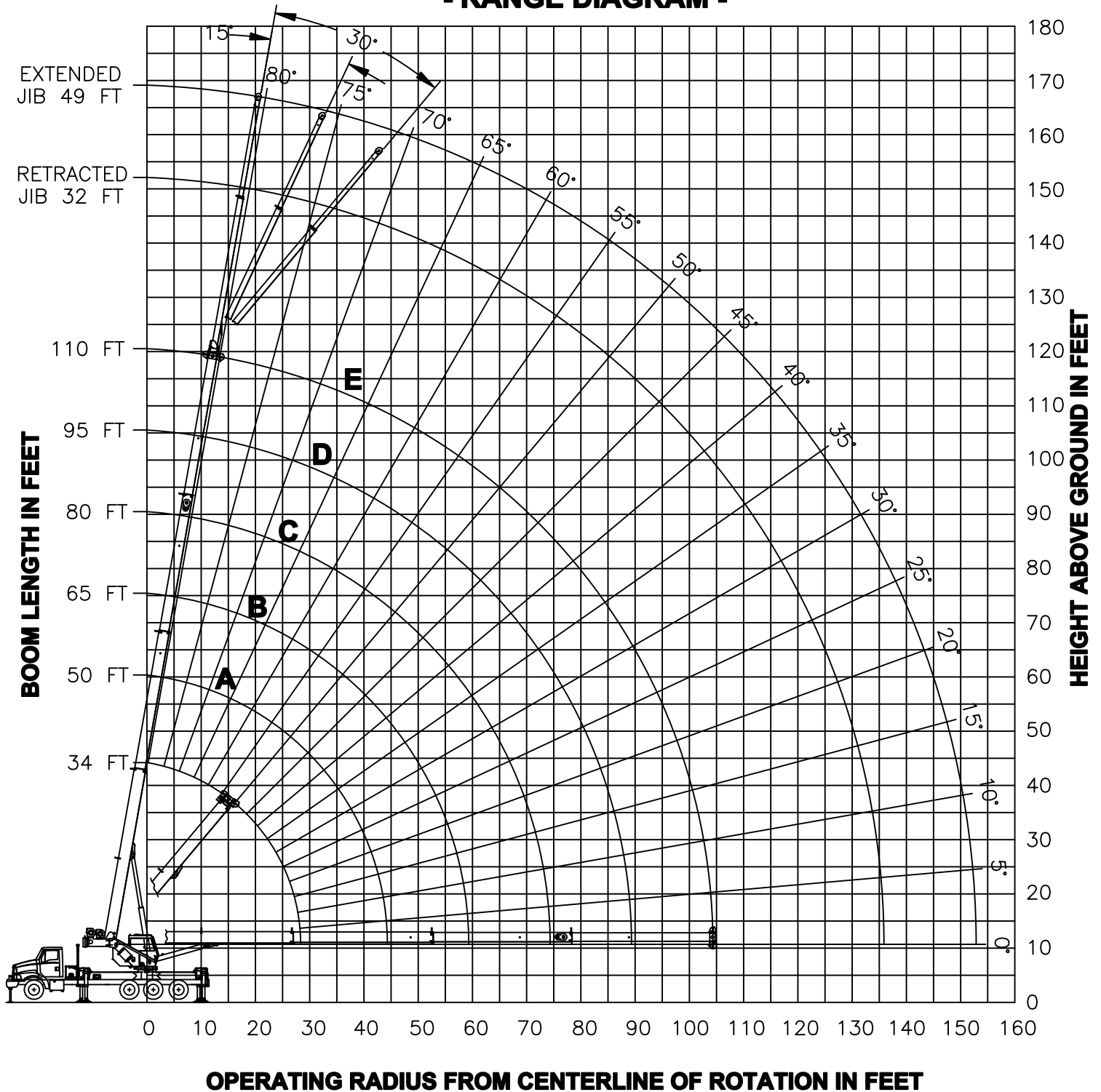


### DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

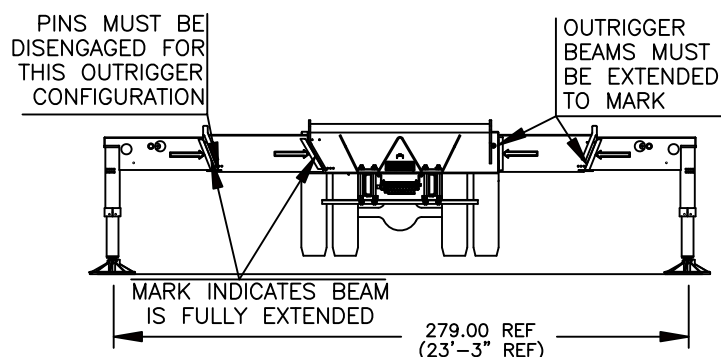
|                                                   |       |                            |
|---------------------------------------------------|-------|----------------------------|
| AUXILIARY BLOCK                                   | ----- | 50 LBS                     |
| ROOSTER SHEAVE                                    | ----- | 70 LBS                     |
| LIFTING FROM MAIN BOOM WITH JIB STOWED OR ERECTED | ----- | SEE LOAD CHART             |
| OVERHAUL BALL                                     | ----- | SEE MANUFACTURER NAMEPLATE |
| LOAD BLOCK                                        | ----- | SEE MANUFACTURER NAMEPLATE |



### - RANGE DIAGRAM -



**USE THIS CHART ONLY**  
**WHEN ALL OUTRIGGER**  
**BEAMS ARE FULLY**  
**EXTENDED**



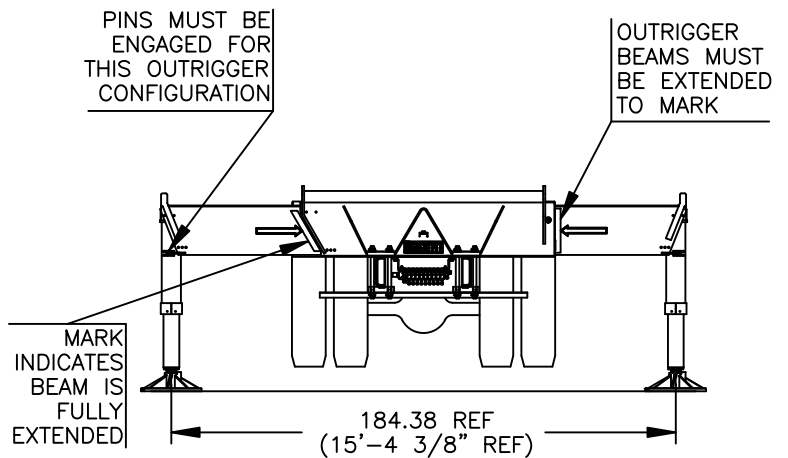
## MAIN BOOM LIFTING CAPACITIES

| LOAD<br>RADIUS<br>(FT) | BOOM LENGTH 34 FT                |                       |                       | BOOM LENGTH 50 FT (A)            |                       |                       | BOOM LENGTH 65 FT (B)            |                       |                       |                         |
|------------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------------------|-------------------------|
|                        | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 1                | CODE 3                | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 1                | CODE 3                | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 1                | CODE 3                |                         |
|                        |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                         |
| 6                      | 71                               | 100000                | 100000                |                                  |                       |                       |                                  |                       |                       |                         |
| 8                      | 67.5                             | 88500                 | 88500                 |                                  |                       |                       |                                  |                       |                       |                         |
| 10                     | 63.5                             | 78200                 | 78200                 | 73                               | 51000                 | 51000                 |                                  |                       |                       |                         |
| 12                     | 60                               | 70200                 | 70200                 | 70.5                             | 51000                 | 51000                 | 76                               | 40000                 | 40000                 |                         |
| 15                     | 53.5                             | 60600                 | 60600                 | 67                               | 51000                 | 51000                 | 73                               | 40000                 | 40000                 |                         |
| 20                     | 42                               | 48400                 | 48400                 | 60.5                             | 46600                 | 46600                 | 68.5                             | 38810                 | 38810                 |                         |
| 25                     | 26.5                             | 37400                 | 37400                 | 53.5                             | 38300                 | 38300                 | 63.5                             | 33150                 | 33150                 |                         |
| 30                     |                                  |                       |                       | 45.5                             | 30700                 | 30700                 | 58.5                             | 29000                 | 29000                 |                         |
| 35                     |                                  |                       |                       | 36.5                             | 25340                 | 24440                 | 53                               | 25470                 | 24960                 |                         |
| 40                     |                                  |                       |                       | 25                               | 21290                 | 19170                 | 47                               | 21710                 | 19680                 |                         |
| 45                     |                                  |                       |                       |                                  |                       |                       | 40.5                             | 18590                 | 15980                 |                         |
| 50                     |                                  |                       |                       |                                  |                       |                       | 32.5                             | 16090                 | 13240                 |                         |
| 55                     |                                  |                       |                       |                                  |                       |                       | 22.5                             | 14040                 | 11110                 |                         |
|                        | 1150 LBS                         |                       |                       | 780 LBS                          |                       |                       | 600 LBS                          |                       |                       | STOWED JIB              |
|                        | 2940 LBS                         |                       |                       | 2650 LBS                         |                       |                       | 2510 LBS                         |                       |                       | ERECTED JIB (RETRACTED) |
|                        | 3320 LBS                         |                       |                       | 2910 LBS                         |                       |                       | 2710 LBS                         |                       |                       | ERECTED JIB (EXTENDED)  |

| LOAD<br>RADIUS<br>(FT) | BOOM LENGTH 80 FT (C)            |                       |                       | BOOM LENGTH 95 FT (D)            |                       |                       | BOOM LENGTH 110 FT (E)           |                       |                       |                         |
|------------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------------------|-------------------------|
|                        | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 1                | CODE 3                | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 1                | CODE 3                | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 1                | CODE 3                |                         |
|                        |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                         |
| 15                     | 77                               | 28230                 | 28230                 |                                  |                       |                       |                                  |                       |                       |                         |
| 20                     | 73.5                             | 28230                 | 28230                 | 76.5                             | 20000                 | 20000                 |                                  |                       |                       |                         |
| 25                     | 69.5                             | 24350                 | 24350                 | 73.5                             | 20000                 | 20000                 | 76.5                             | 15500                 | 15500                 |                         |
| 30                     | 65.5                             | 21280                 | 21280                 | 70.5                             | 18680                 | 18680                 | 74                               | 15500                 | 15500                 |                         |
| 35                     | 61.5                             | 19000                 | 19000                 | 67.5                             | 16580                 | 16580                 | 71.5                             | 14660                 | 14660                 |                         |
| 40                     | 57.5                             | 16870                 | 16870                 | 64                               | 14820                 | 14820                 | 69                               | 13270                 | 13270                 |                         |
| 45                     | 53                               | 15120                 | 15120                 | 60.5                             | 13330                 | 13330                 | 66                               | 11960                 | 11960                 |                         |
| 50                     | 48                               | 13600                 | 13510                 | 57                               | 12050                 | 12050                 | 63                               | 10850                 | 10850                 |                         |
| 55                     | 43                               | 12310                 | 11400                 | 53                               | 10920                 | 10920                 | 60                               | 9950                  | 9950                  |                         |
| 60                     | 37                               | 11200                 | 9720                  | 49                               | 10000                 | 9880                  | 56.5                             | 9210                  | 9210                  |                         |
| 65                     | 30                               | 10240                 | 8340                  | 44.5                             | 9300                  | 8520                  | 53.5                             | 8410                  | 8410                  |                         |
| 70                     | 21                               | 9640                  | 7200                  | 40                               | 8520                  | 7380                  | 50                               | 7700                  | 7490                  |                         |
| 75                     |                                  |                       |                       | 34.5                             | 7800                  | 6420                  | 46                               | 7060                  | 6530                  |                         |
| 80                     |                                  |                       |                       | 28                               | 7180                  | 5590                  | 42                               | 6480                  | 5710                  |                         |
| 85                     |                                  |                       |                       | 20                               | 6620                  | 4880                  | 37.5                             | 5960                  | 5000                  |                         |
| 90                     |                                  |                       |                       |                                  |                       |                       | 33                               | 5490                  | 4380                  |                         |
| 95                     |                                  |                       |                       |                                  |                       |                       | 27                               | 5070                  | 3830                  |                         |
| 100                    |                                  |                       |                       |                                  |                       |                       | 19                               | 4680                  | 3340                  |                         |
|                        | 490 LBS                          |                       |                       | 420 LBS                          |                       |                       | 360 LBS                          |                       |                       | STOWED JIB              |
|                        | 2420 LBS                         |                       |                       | 2360 LBS                         |                       |                       | 2320 LBS                         |                       |                       | ERECTED JIB (RETRACTED) |
|                        | 2580 LBS                         |                       |                       | 2500 LBS                         |                       |                       | 2430 LBS                         |                       |                       | ERECTED JIB (EXTENDED)  |



**USE THIS CHART ONLY  
WHEN ALL OUTRIGGER  
BEAMS ARE IN THE MID  
POSITION**



### MAIN BOOM LIFTING CAPACITIES

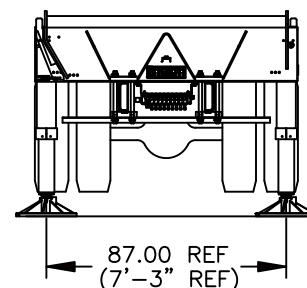
| LMI CODE 4             |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
|------------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|
| LOAD<br>RADIUS<br>(FT) | BOOM LENGTH<br>34 FT             |                       | BOOM LENGTH<br>50 FT (A)         |                       | BOOM LENGTH<br>65 FT (B)         |                       | BOOM LENGTH<br>80 FT (C)         |                       | BOOM LENGTH<br>95 FT (D)         |                       | BOOM LENGTH<br>110 FT (E)        |                       |
|                        | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) |
| 6                      | 71                               | 100000                |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
| 8                      | 67.5                             | 88500                 |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
| 10                     | 63.5                             | 78200                 | 73                               | 51000                 |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
| 12                     | 60                               | 70200                 | 70.5                             | 51000                 | 76                               | 40000                 |                                  |                       |                                  |                       |                                  |                       |
| 15                     | 53.5                             | 58200                 | 67                               | 51000                 | 73                               | 40000                 | 77                               | 28230                 |                                  |                       |                                  |                       |
| 20                     | 42                               | 32130                 | 60.5                             | 33310                 | 68.5                             | 33850                 | 73.5                             | 28230                 | 76.5                             | 20000                 |                                  |                       |
| 25                     | 26.5                             | 21040                 | 53.5                             | 22130                 | 63.5                             | 22610                 | 69.5                             | 22890                 | 73.5                             | 20000                 | 76.5                             | 15500                 |
| 30                     |                                  |                       | 45.5                             | 15950                 | 58.5                             | 16400                 | 65.5                             | 16660                 | 70.5                             | 16830                 | 74                               | 15500                 |
| 35                     |                                  |                       | 36.5                             | 12020                 | 53                               | 12450                 | 61.5                             | 12700                 | 67.5                             | 12860                 | 71.5                             | 12890                 |
| 40                     |                                  |                       | 25                               | 9280                  | 47                               | 9720                  | 57.5                             | 9970                  | 64                               | 10120                 | 69                               | 10230                 |
| 45                     |                                  |                       |                                  |                       | 40.5                             | 7720                  | 53                               | 7660                  | 60.5                             | 8110                  | 66                               | 8220                  |
| 50                     |                                  |                       |                                  |                       | 32.5                             | 6180                  | 48                               | 6430                  | 57                               | 6580                  | 63                               | 6680                  |
| 55                     |                                  |                       |                                  |                       | 22.5                             | 4960                  | 43                               | 5210                  | 53                               | 5360                  | 60                               | 5460                  |
| 60                     |                                  |                       |                                  |                       |                                  |                       | 37                               | 4230                  | 49                               | 4380                  | 56.5                             | 4480                  |
| 65                     |                                  |                       |                                  |                       |                                  |                       | 30                               | 3410                  | 44.5                             | 3570                  | 53.5                             | 3670                  |
| 70                     |                                  |                       |                                  |                       |                                  |                       | 21                               | 2720                  | 40                               | 2880                  | 50                               | 2980                  |
| 75                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       | 34.5                             | 2300                  | 46                               | 2400                  |
| 80                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       | 28                               | 1790                  | 42                               | 1900                  |
| 85                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       | 20                               | 1340                  | 37.5                             | 1460                  |
| 90                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       | 33                               | 1070                  |
| 95                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
|                        | 1150 LBS                         |                       | 780 LBS                          |                       | 600 LBS                          |                       | 490 LBS                          |                       | 420 LBS                          |                       | 360 LBS                          |                       |
|                        | 2940 LBS                         |                       | 2650 LBS                         |                       | 2510 LBS                         |                       | 2420 LBS                         |                       | 2360 LBS                         |                       | 2320 LBS                         |                       |
|                        | 3320 LBS                         |                       | 2910 LBS                         |                       | 2710 LBS                         |                       | 2580 LBS                         |                       | 2500 LBS                         |                       | 2430 LBS                         |                       |

DEDUCTIONS FOR JIB FROM  
MAIN BOOM CAPACITIES

|                         |
|-------------------------|
| STOWED JIB              |
| ERECTED JIB (RETRACTED) |
| ERECTED JIB (EXTENDED)  |



**USE THIS CHART WHEN ALL  
OUTRIGGER BEAMS ARE NOT IN  
EITHER THE MID OR FULLY  
EXTENDED POSITION**



### MAIN BOOM LIFTING CAPACITIES

| LMI CODE 5             |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
|------------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|
| LOAD<br>RADIUS<br>(FT) | BOOM LENGTH<br>34 FT             |                       | BOOM LENGTH<br>50 FT (A)         |                       | BOOM LENGTH<br>65 FT (B)         |                       | BOOM LENGTH<br>80 FT (C)         |                       | BOOM LENGTH<br>95 FT (D)         |                       | BOOM LENGTH<br>110 FT (E)        |                       |
|                        | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | FULL<br>360°<br>(LBS) |
| 6                      | 71                               | 100000                |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
| 8                      | 67.5                             | 58650                 |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
| 10                     | 63.5                             | 38420                 | 73                               | 39680                 |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
| 12                     | 60                               | 27840                 | 70.5                             | 28930                 | 76                               | 29460                 |                                  |                       |                                  |                       |                                  |                       |
| 15                     | 53.5                             | 18930                 | 67                               | 19900                 | 73                               | 20360                 | 77                               | 20640                 |                                  |                       |                                  |                       |
| 20                     | 42                               | 11310                 | 60.5                             | 12190                 | 68.5                             | 12590                 | 73.5                             | 12840                 | 76.5                             | 13000                 |                                  |                       |
| 25                     | 26.5                             | 7200                  | 53.5                             | 8080                  | 63.5                             | 8460                  | 69.5                             | 8680                  | 73.5                             | 8830                  | 76.5                             | 8940                  |
| 30                     |                                  |                       | 45.5                             | 5510                  | 58.5                             | 5880                  | 65.5                             | 6100                  | 70.5                             | 6240                  | 74                               | 6340                  |
| 35                     |                                  |                       | 36.5                             | 3750                  | 53                               | 4130                  | 61.5                             | 4340                  | 67.5                             | 4470                  | 71.5                             | 4570                  |
| 40                     |                                  |                       | 25                               | 2460                  | 47                               | 2850                  | 57.5                             | 3060                  | 64                               | 3190                  | 69                               | 3280                  |
| 45                     |                                  |                       |                                  |                       | 40.5                             | 1870                  | 53                               | 2080                  | 60.5                             | 2210                  | 66                               | 2300                  |
| 50                     |                                  |                       |                                  |                       | 32.5                             | 1100                  | 48                               | 1320                  | 57                               | 1450                  | 63                               | 1540                  |
| 55                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       | 60                               | 920                   |
| 60                     |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |
|                        | 1150 LBS                         |                       | 780 LBS                          |                       | 600 LBS                          |                       | 490 LBS                          |                       | 420 LBS                          |                       | 360 LBS                          |                       |
|                        | STOWED JIB                       |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |                                  |                       |

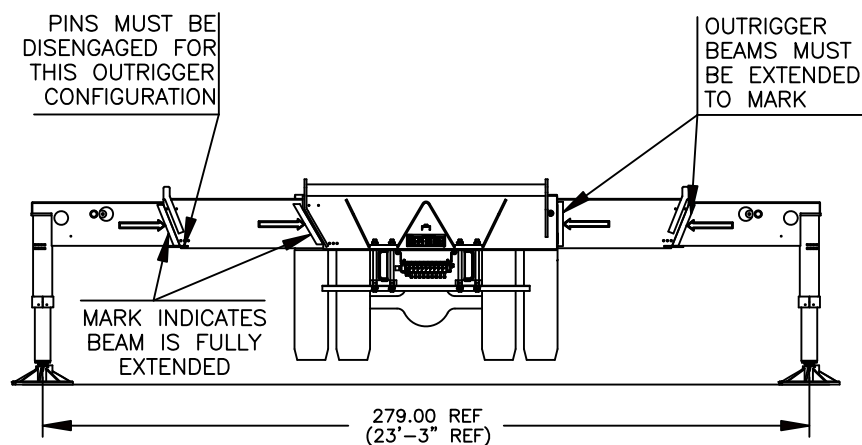
### WARNINGS

1. THE JIB MUST BE IN THE STOWED POSITION, IF SO EQUIPPED, WHEN USING THIS OUTRIGGER CONFIGURATION.





**USE THIS CHART ONLY  
WHEN ALL OUTRIGGER  
BEAMS ARE FULLY  
EXTENDED**

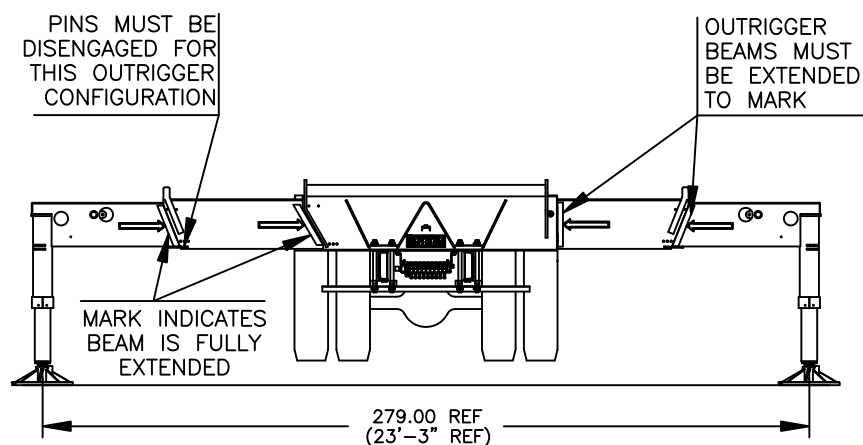


**32 FT RETRACTED JIB LIFTING CAPACITIES**

| LOAD<br>RADIUS<br>(FT) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | 0' OFFSET             |                       | 15' OFFSET                       |        |                       | 30' OFFSET                       |                       |                       |
|------------------------|----------------------------------|-----------------------|-----------------------|----------------------------------|--------|-----------------------|----------------------------------|-----------------------|-----------------------|
|                        |                                  | CODE 7                | CODE 8                | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 9 | FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 11               | CODE 12               |
|                        |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |                                  |        |                       |                                  | OVER<br>REAR<br>(LBS) | FULL<br>360°<br>(LBS) |
| 40                     | 76.5                             | 7300                  | 7300                  |                                  |        |                       |                                  |                       |                       |
| 40                     | 74.5                             | 7300                  | 7300                  |                                  |        |                       |                                  |                       |                       |
| 45                     | 72.5                             | 7300                  | 7300                  | 76                               | 6500   | 6500                  |                                  |                       |                       |
| 50                     | 70.5                             | 7300                  | 7300                  | 73.5                             | 6500   | 6500                  | 76                               | 5800                  | 5800                  |
| 55                     | 68.5                             | 6980                  | 6980                  | 71.5                             | 6500   | 6500                  | 74                               | 5800                  | 5800                  |
| 60                     | 66.5                             | 6600                  | 6600                  | 69.5                             | 6120   | 6120                  | 72                               | 5750                  | 5750                  |
| 65                     | 64                               | 6230                  | 6230                  | 67                               | 5780   | 5780                  | 69.5                             | 5450                  | 5450                  |
| 70                     | 62                               | 5870                  | 5870                  | 65                               | 5450   | 5450                  | 67                               | 5160                  | 5160                  |
| 75                     | 59.5                             | 5530                  | 5530                  | 62.5                             | 5160   | 5160                  | 64.5                             | 4900                  | 4900                  |
| 80                     | 57                               | 5110                  | 5110                  | 60                               | 4880   | 4880                  | 62                               | 4670                  | 4670                  |
| 85                     | 54.5                             | 4690                  | 4690                  | 57.5                             | 4630   | 4630                  | 59.5                             | 4450                  | 4450                  |
| 90                     | 52                               | 4280                  | 4280                  | 54.5                             | 4400   | 4400                  | 56.5                             | 4250                  | 4250                  |
| 95                     | 49                               | 3920                  | 3760                  | 51.5                             | 4070   | 4030                  | 53.5                             | 4070                  | 4070                  |
| 100                    | 46                               | 3570                  | 3270                  | 48.5                             | 3700   | 3510                  | 50.5                             | 3820                  | 3680                  |
| 105                    | 43                               | 3250                  | 2830                  | 45.5                             | 3370   | 3040                  | 47                               | 3480                  | 3180                  |
| 110                    | 39.5                             | 2950                  | 2440                  | 42                               | 3050   | 2620                  | 43.5                             | 3140                  | 2730                  |
| 115                    | 35.5                             | 2670                  | 2080                  | 38                               | 2770   | 2230                  | 39                               | 2830                  | 2320                  |
| 120                    | 31.5                             | 2420                  | 1760                  | 34                               | 2500   | 1880                  | 34.5                             | 2540                  | 1940                  |
| 125                    | 26.5                             | 2180                  | 1460                  | 29                               | 2240   | 1560                  | 29                               | 2260                  | 1580                  |
| 130                    | 20.5                             | 1960                  | 1190                  | 22                               | 2000   | 1250                  | 20                               | 1970                  | 1230                  |
| 135                    | 10                               | 1760                  | 930                   |                                  |        |                       |                                  |                       |                       |
| 140                    |                                  |                       |                       |                                  |        |                       |                                  |                       |                       |



**USE THIS CHART ONLY  
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BEAMS ARE FULLY  
EXTENDED**

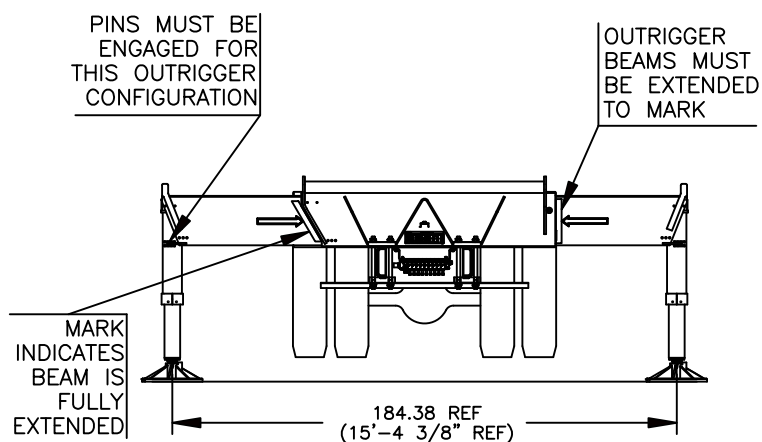


**49 FT EXTENDED JIB LIFTING CAPACITIES**

| LOAD<br>RADIUS<br>(FT) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | 0° OFFSET                        |                                  | 15° OFFSET                       |                                  |                                  | 30° OFFSET                       |                                  |                                  |
|------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                        |                                  | CODE 13<br>OVER<br>REAR<br>(LBS) | CODE 14<br>FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 15<br>OVER<br>REAR<br>(LBS) | CODE 16<br>FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 17<br>OVER<br>REAR<br>(LBS) | CODE 18<br>FULL<br>360°<br>(LBS) |
| 40                     | 77                               | 5400                             | 5400                             |                                  |                                  |                                  |                                  |                                  |                                  |
| 45                     | 75                               | 5400                             | 5400                             |                                  |                                  |                                  |                                  |                                  |                                  |
| 50                     | 73.5                             | 5400                             | 5400                             | 77                               | 4700                             | 4700                             |                                  |                                  |                                  |
| 55                     | 71.5                             | 5400                             | 5400                             | 75                               | 4700                             | 4700                             |                                  |                                  |                                  |
| 60                     | 69.5                             | 5400                             | 5400                             | 73.5                             | 4480                             | 4480                             | 77                               | 3520                             | 3520                             |
| 65                     | 68                               | 5230                             | 5230                             | 71.5                             | 4280                             | 4280                             | 75                               | 3520                             | 3520                             |
| 70                     | 66                               | 4930                             | 4930                             | 69.5                             | 4100                             | 4100                             | 73.5                             | 3410                             | 3410                             |
| 75                     | 64                               | 4660                             | 4660                             | 67.5                             | 3940                             | 3940                             | 71                               | 3310                             | 3310                             |
| 80                     | 62                               | 4410                             | 4410                             | 65.5                             | 3790                             | 3790                             | 69                               | 3210                             | 3210                             |
| 85                     | 60                               | 4170                             | 4170                             | 63.5                             | 3650                             | 3650                             | 67                               | 3130                             | 3130                             |
| 90                     | 57.5                             | 3950                             | 3950                             | 61.5                             | 3520                             | 3520                             | 64.5                             | 3050                             | 3050                             |
| 95                     | 55.5                             | 3750                             | 3750                             | 59                               | 3400                             | 3400                             | 62                               | 2980                             | 2980                             |
| 100                    | 53                               | 3560                             | 3560                             | 57                               | 3290                             | 3290                             | 59.5                             | 2910                             | 2910                             |
| 105                    | 50.5                             | 3380                             | 3380                             | 54.5                             | 3190                             | 3190                             | 57                               | 2860                             | 2860                             |
| 110                    | 48                               | 3220                             | 3020                             | 52                               | 3050                             | 3050                             | 54.5                             | 2810                             | 2810                             |
| 115                    | 45.5                             | 2980                             | 2660                             | 49                               | 2920                             | 2920                             | 51.5                             | 2760                             | 2760                             |
| 120                    | 42.5                             | 2730                             | 2330                             | 46                               | 2800                             | 2580                             | 48.5                             | 2730                             | 2730                             |
| 125                    | 39.5                             | 2500                             | 2030                             | 43                               | 2640                             | 2250                             | 45                               | 2650                             | 2400                             |
| 130                    | 36                               | 2290                             | 1760                             | 39.5                             | 2410                             | 1950                             | 41                               | 2480                             | 2070                             |
| 135                    | 32                               | 2090                             | 1510                             | 35.5                             | 2190                             | 1660                             | 36.5                             | 2240                             | 1750                             |
| 140                    | 28                               | 1890                             | 1270                             | 31                               | 1970                             | 1400                             | 31                               | 2000                             | 1440                             |
| 145                    | 22.5                             | 1720                             | 1060                             | 25                               | 1770                             | 1150                             |                                  |                                  |                                  |
| 150                    | 15                               | 1550                             | 850                              | 15.5                             | 1570                             | 890                              |                                  |                                  |                                  |
| 155                    |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |



**USE THIS CHART ONLY  
WHEN ALL OUTRIGGER  
BEAMS ARE IN THE MID  
POSITION**



### 32 FT RETRACTED JIB LIFTING CAPACITIES

| LOAD<br>RADIUS<br>(FT) | 0° OFFSET                        |                                  | 15° OFFSET                       |                                  | 30° OFFSET                       |                                  |
|------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                        | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 19<br>FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 20<br>FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 21<br>FULL<br>360°<br>(LBS) |
| 35                     | 76.5                             | 7300                             |                                  |                                  |                                  |                                  |
| 40                     | 74.5                             | 7300                             |                                  |                                  |                                  |                                  |
| 45                     | 72.5                             | 7300                             | 76                               | 6500                             |                                  |                                  |
| 50                     | 70.5                             | 6600                             | 73.5                             | 6500                             | 76                               | 5800                             |
| 55                     | 68.5                             | 5360                             | 71.5                             | 5950                             | 74                               | 5800                             |
| 60                     | 66.5                             | 4360                             | 69.5                             | 4880                             | 72                               | 5320                             |
| 65                     | 64                               | 3540                             | 67                               | 4000                             | 69.5                             | 4380                             |
| 70                     | 62                               | 2840                             | 65                               | 3250                             | 67                               | 3600                             |
| 75                     | 59.5                             | 2250                             | 62.5                             | 2620                             | 64.5                             | 2920                             |
| 80                     | 57                               | 1740                             | 60                               | 2070                             | 62                               | 2340                             |
| 85                     | 54.5                             | 1300                             | 57.5                             | 1600                             | 59.5                             | 1830                             |
| 90                     | 52                               | 910                              | 54.5                             | 1180                             | 56.5                             | 1380                             |
| 95                     |                                  |                                  | 51.5                             | 800                              | 53.5                             | 970                              |

### 49 FT EXTENDED JIB LIFTING CAPACITIES

| LOAD<br>RADIUS<br>(FT) | 0° OFFSET                        |                                  | 15° OFFSET                       |                                  | 30° OFFSET                       |                                  |
|------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                        | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 22<br>FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 23<br>FULL<br>360°<br>(LBS) | LOADED<br>BOOM<br>ANGLE<br>(DEG) | CODE 24<br>FULL<br>360°<br>(LBS) |
| 40                     | 77                               | 5400                             |                                  |                                  |                                  |                                  |
| 45                     | 75                               | 5400                             |                                  |                                  |                                  |                                  |
| 50                     | 73.5                             | 5400                             | 77                               | 4700                             |                                  |                                  |
| 55                     | 71.5                             | 5400                             | 75                               | 4700                             |                                  |                                  |
| 60                     | 69.5                             | 5000                             | 73.5                             | 4480                             | 77                               | 3520                             |
| 65                     | 68                               | 4160                             | 71.5                             | 4280                             | 75                               | 3520                             |
| 70                     | 66                               | 3460                             | 69.5                             | 4070                             | 73.5                             | 3410                             |
| 75                     | 64                               | 2860                             | 67.5                             | 3410                             | 71                               | 3310                             |
| 80                     | 62                               | 2340                             | 65.5                             | 2850                             | 69                               | 3210                             |
| 85                     | 60                               | 1890                             | 63.5                             | 2350                             | 67                               | 2740                             |
| 90                     | 57.5                             | 1500                             | 61.5                             | 1910                             | 64.5                             | 2260                             |
| 95                     | 55.5                             | 1150                             | 59                               | 1530                             | 62                               | 1840                             |
| 100                    | 53                               | 840                              | 57                               | 1180                             | 59.5                             | 1460                             |
| 105                    |                                  |                                  | 54.5                             | 870                              | 57                               | 1110                             |
| 110                    |                                  |                                  |                                  |                                  | 54.5                             | 800                              |