



SERIAL NUMBER: **XXXX-XXXX**

CRANE RATING MANUAL

TCC-1400

TELESCOPIC BOOM CRAWLER CRANE

- 195.4' SIX SECTION LATCHING BOOM
- 15' 2.16" GAUGE W/36" SHOES, WITH FULLY EXTENDED SIDE FRAMES AND 23' 4.2" OVERALL LENGTH LOWER

For Replacement, Order Part Number: T3P0004
(081315)

Link-Belt®
CONSTRUCTION EQUIPMENT

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WARNING

READ AND UNDERSTAND THE CRANE OPERATOR'S AND SAFETY MANUALS AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING THE CRANE. OPERATION WHICH DOES NOT FOLLOW THESE INSTRUCTIONS MAY RESULT IN AN ACCIDENT.

Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company (LBCE). Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Crane Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) and American Society of Mechanical Engineers (ASME) safety standards for cranes.
4. All lift crane capacities listed in this Crane Rating Manual are in compliance with ANSI/ASME B30.5, SAE J1063, and SAE J765 in effect at the time of manufacture.

Lift Crane Operation:

1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. Lifted load includes the weight of hook block, hook ball, sling, grapple, load weighing device, etc. Their weights are considered part of the lifted load. Rated lifting capacities include the deduct for the fly stowed on the base of the boom. For deducts with the fly erected, but not used, see "Capacity Deductions For Auxiliary Load Handling Equipment".
2. All capacities for lifting on side frames requires the side frames to be pinned at equal extension; fully extended, intermediate extended, or fully retracted.
3. Rated lifting capacities at rated radii shall not be exceeded. Do not tip the crane to determine allowable loads. Rated lifting capacities shall be reduced for repetitive lift applications. For all duty cycle applications (magnet, clamshell, concrete bucket, etc.) refer to Duty Cycle Capacities in this Crane Rating Manual. Lifts with fly erected are prohibited for all duty cycle operation.

4. Do not operate at radii and boom lengths where this Crane Rating Manual lists no capacity. Do not use longer booms or flies than those listed in this Crane Rating Manual. Any of the above can cause a tipping condition, or boom failure.
5. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity Chart, Crane Operator's Manual, and Crane Parts Manual. Rated lifting capacities are based on correct reeving. A deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity Chart) is considered excessive and must be accounted for when making lifts. Use Working Range Diagram to estimate the extra length of rope. See Wire Rope Capacity for the weight to deduct for each extra length of wire rope before attempting to lift a load.
6. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds up to 16 mph and appropriately reduced for wind speeds greater than 16 mph. (See Wind Restrictions Guide.)
7. Rated lifting capacities in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of ground conditions and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account. No attempt shall be made to move a load horizontally on the ground in any direction.
8. The crane capacities in the shaded areas are based on factors other than those that would cause a tipping condition.
9. The maximum loads that can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the applicable load rating chart.
10. Boom extend mode EM5 is for fixed boom lengths only as shown on load rating charts. Rated lifting capacities are based on all sections pinned together. There is a 15,000 lb capacity given for telescoping the boom with rigging to the appropriate lengths for pinning the section(s) only in EM5 boom mode. Do not attempt to extend or retract the boom with more than 15,000 lb of rigging when utilizing EM5 boom mode.



11. For main boom capacities when either boom length or radius or both are between values listed, proceed as follows:
 - a. For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever is smaller.
 - b. For load radii not listed, use rating for next larger radius.
12. The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, traveling with loads, electrical wires, etc. Side load on boom or fly is dangerous and shall be avoided.
13. For cold weather operation rated capacities should be reduced by the following rule: a 1% reduction in rated capacity should be taken for each 1°F below 0°F. Example: if the temperature is -10°F a 10% reduction in rated capacities should be taken, at -40°F a 40% reduction.
14. For auxiliary lifting sheave capacities, use main boom charts minus auxiliary lifting sheave deduct. (See "Capacity Deductions For Auxiliary Load Handling Equipment".) The effective length of the boom increases by 2' when lifting from the auxiliary lifting sheave.
15. The 42.4' boom length structural capacities are based on boom being fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the next boom length.
16. The least stable rated working area is over the side.

17. The loaded boom angle combined with the boom length give only an approximation of the operating radius. The boom angle, before loading, should be greater to account for deflection. (For main boom capacities, the loaded boom angle is for reference only.)

Definitions:

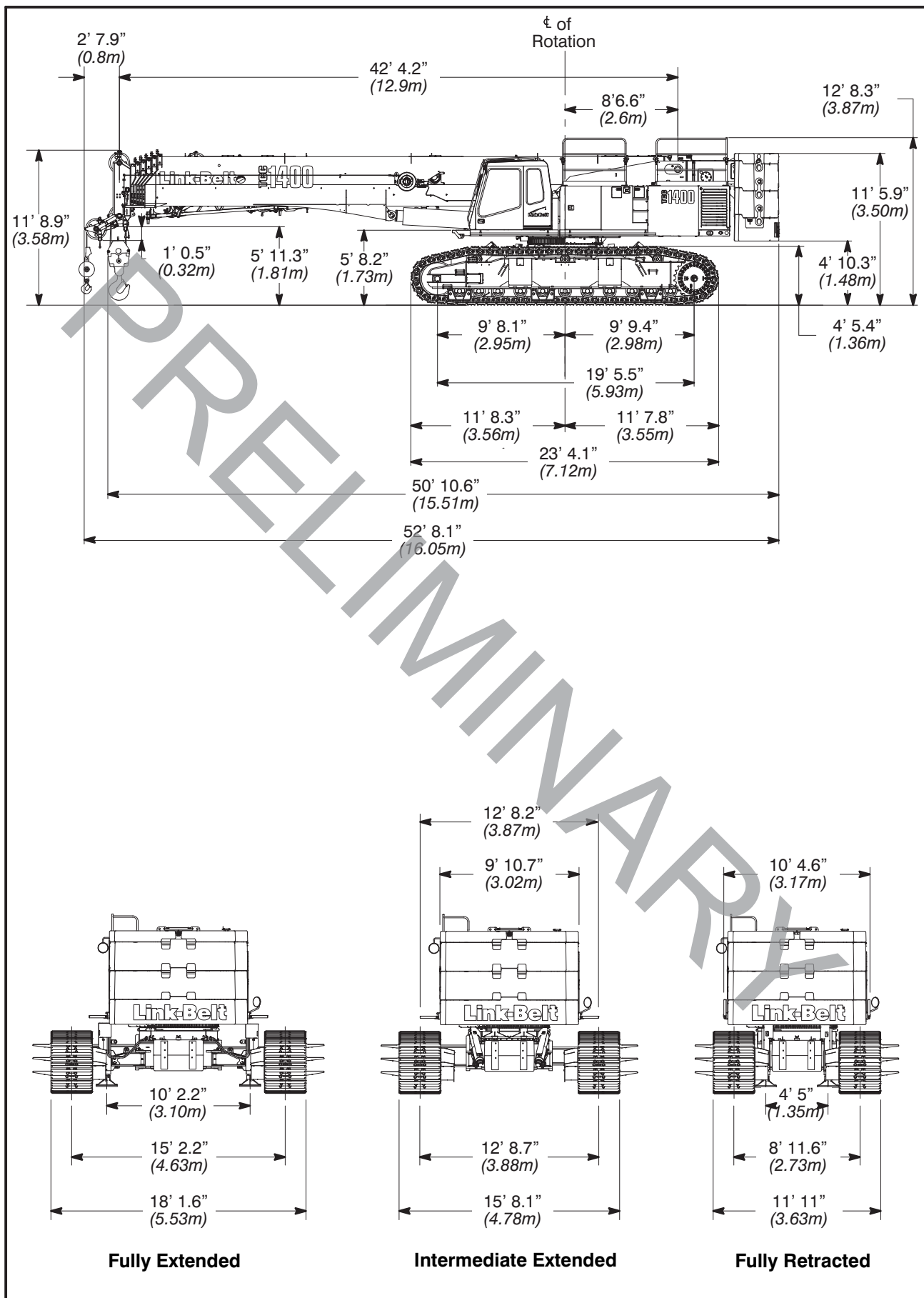
1. Loaded Boom Angle: $\angle^\circ$ The angle between the boom base section and horizontal with freely suspended load at the rated radius.
2. Load Radius: Horizontal distance from a projection of the centerline of rotation to the supporting surface, before loading, to the center of the vertical hoist line or tackle with load applied.
3. Working Area: Area measured in a circular arc about the centerline of rotation as shown on the Working Areas Diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
6. No Load Stability Limit: The radius or boom angle beyond which it is not permitted to position the boom because the crane can overturn without any load on the hook.

Traveling With A Load:

1. All main boom 360° capacities listed in this Crane Rating Manual are pick and carry capacities.
2. Refer to "Traveling With A Load (Pick & Carry)" in the Crane Operator's Manual.



General Dimensions



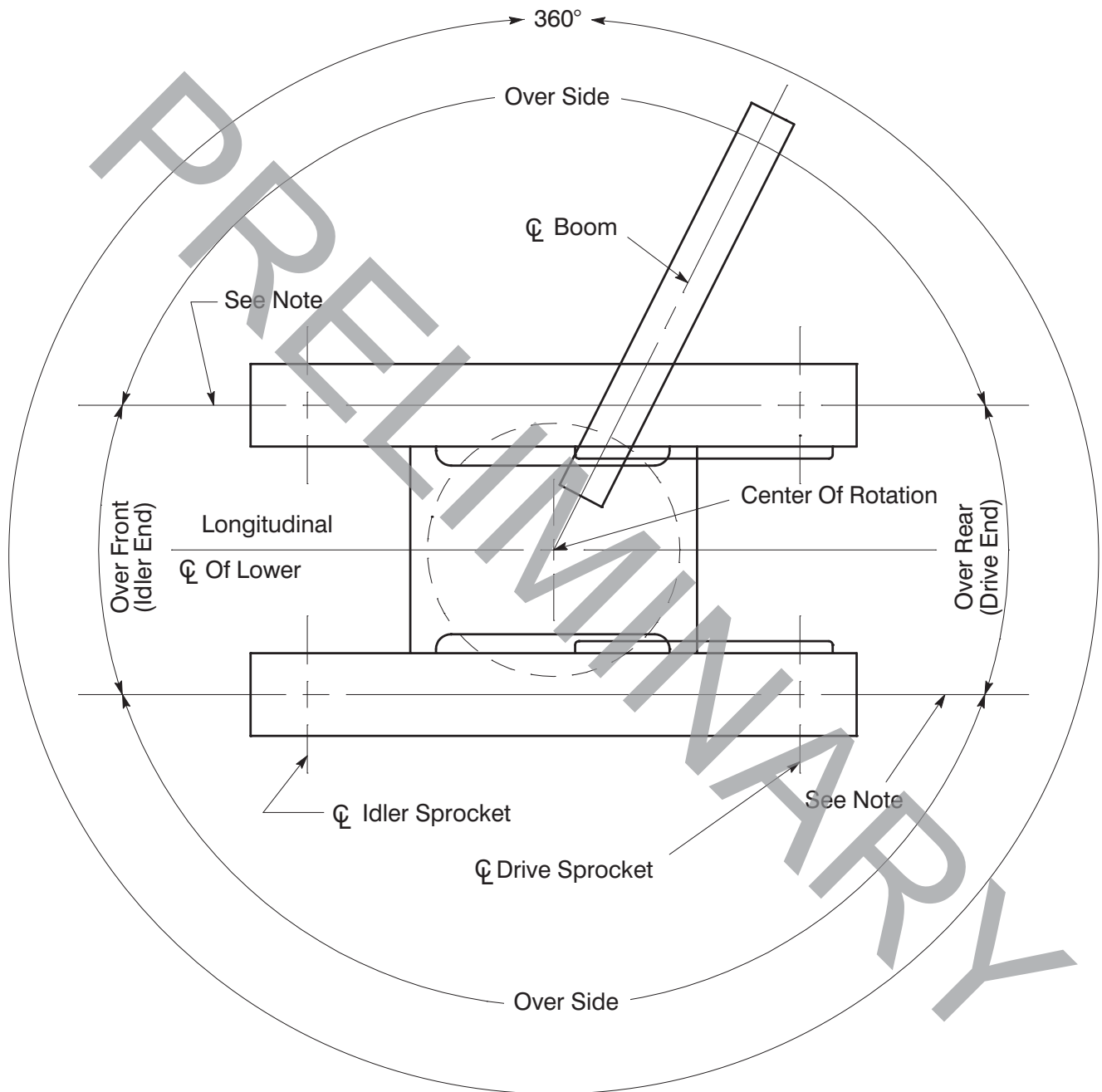
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Working Areas



Note:

1. These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.



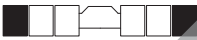
Allowable Crane Configuration

Side Frame Position	Counter-weight	Boom Length (ft)				
		EM 1	EM 2	EM 3	EM 4	EM 5
 Fully Extended	ABCD+A	42.4–195.4	42.4–180.4	42.4–154.9	42.4–129.4	42.4–103.6
	ABC+A					

Notes:

1. Refer to load rating charts for maximum and minimum allowable boom angles for each boom length, side frame, and counterweight configurations.

Maximum Boom Angle

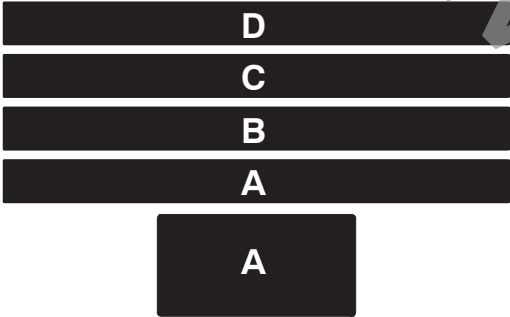
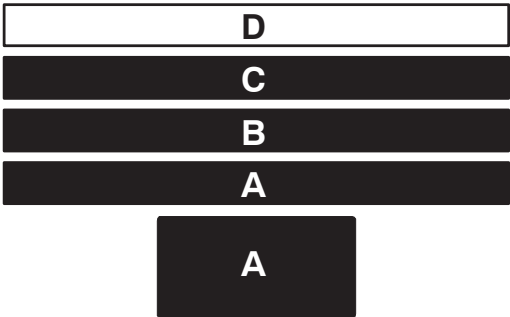
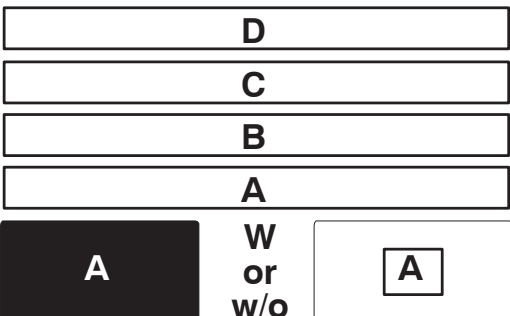
Crawler Position	Counter-weight	Maximum Boom Angle (Deg)				
		EM 1	EM 2	EM 3	EM 4	EM 5
 Fully Extended	ABCD+A	80.0	80.0	80.0	80.0	80.0
	ABC+A					

Notes:

1. 80° is the maximum boom angle allowed due to the boom hoist cylinder. Any maximum boom angle lower than 80° is limited by backward stability.
2. See individual boom length in capacity chart for minimum boom angle due to forward stability.

Allowable Counterweight Combinations

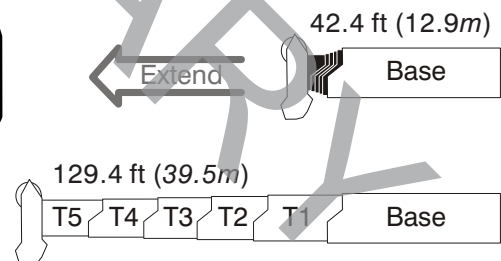
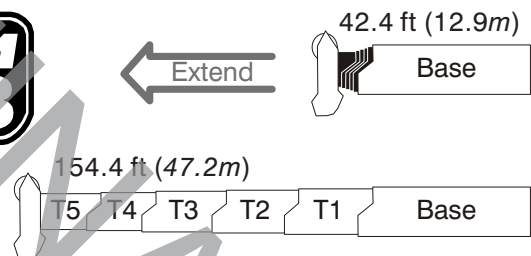
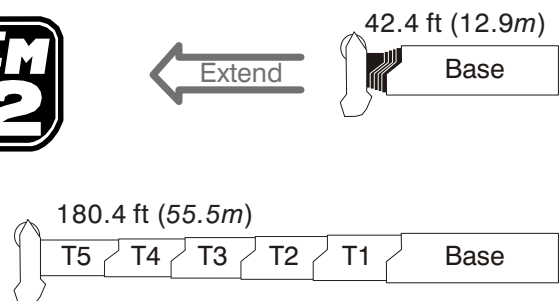
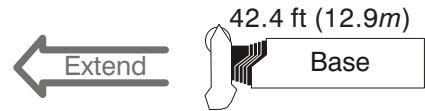
(1 Kip (K) = 1,000 lb)

		ABCD + A 57K + 25K	
		ABC + A 51K + 25K	
		0 + 0 0K + 0K	or 0 + A 0K + 25K

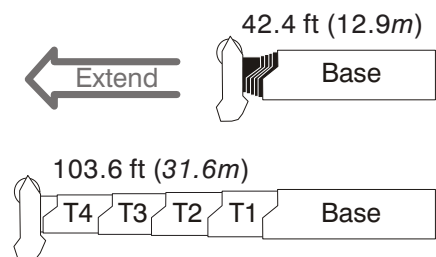


Boom Extend Modes

Boom Length (ft)	Boom Telescope Length (ft)									
	T5	%	T4	%	T3	%	T2	%	T1	%
56.0	13.6	50								
71.3	28.9	100								
86.0	28.9	100	14.7	50						
101.0	28.9	100	29.7	100						
116.0	28.9	100	29.7	100	15.0	50				
131.6	28.9	100	29.7	100	30.6	100				
147.0	28.9	100	29.7	100	30.6	100	15.4	50		
163.1	28.9	100	29.7	100	30.6	100	31.5	100		
179.0	28.9	100	29.7	100	30.6	100	31.5	100	15.9	50
195.4	28.9	100	29.7	100	30.6	100	31.5	100	32.3	100
Boom Length (ft)	Boom Telescope Length (ft)									
	T4	%	T4	%	T3	%	T2	%	T1	%
56.0	13.6	50								
68.3	25.9	90								
82.0	25.9	90	13.7	50						
95.0	25.9	90	26.7	90						
110.0	25.9	90	26.7	90	15.0	50				
122.6	25.9	90	26.7	90	27.6	90				
138.0	25.9	90	26.7	90	27.6	90	15.4	50		
151.1	25.9	90	26.7	90	27.6	90	28.5	90		
166.0	25.9	90	26.7	90	27.6	90	28.5	90	14.9	50
180.4	25.9	90	26.7	90	27.6	90	28.5	90	29.3	90
Boom Length (ft)	Boom Telescope Length (ft)									
	T4	%	T4	%	T3	%	T2	%	T1	%
55.5	13.1	50								
69.5	13.1	50	14.0	50						
84.0	13.1	50	14.0	50	14.5	50				
97.1	13.1	50	14.0	50	27.6	50				
112.0	13.1	50	14.0	50	27.6	50	14.9	50		
125.6	13.1	50	14.0	50	27.6	50	28.5	90		
141.0	13.1	50	14.0	50	27.6	50	28.5	90	15.4	50
154.9	13.1	50	14.0	50	27.6	50	28.5	90	29.3	90
Boom Length (ft)	Boom Telescope Length (ft)									
	T4	%	T4	%	T3	%	T2	%	T1	%
55.5	13.1	50								
69.5	13.1	50	14.0	50						
84.4	13.1	50	14.0	50	14.9	50		30		
100.1	13.1	50	14.0	50	14.9	50	15.7	50		
116.0	13.1	50	14.0	50	14.9	50	15.7	50	15.9	50
129.4	13.1	50	14.0	50	14.9	50	15.7	50	29.3	50
Boom Length (ft)	Boom Fixed Length (ft)									
	T4	%	T4	%	T3	%	T2	%	T1	%
56.4			14.0	50						
71.3			14.0	50	14.9	50				
87.0			14.0	50	14.9	50	15.7	50		
103.6			14.0	50	14.9	50	15.7	50	16.6	50



FIXED





Winch Performance

Wire Rope Layer	Winch Line Pulls		Drum Rope Capacity (ft)	
	Two Speed Winch			
	Low Speed	High Speed	Layer	Total
	Available (lb*)	Available (lb)		
1	22,380	9,980	125	125
2	20,194	9,005	138	263
3	18,397	8,204	152	415
4	16,893	7,533	165	580
5	15,617	6,964	179	759
6	14,520	6,475	192	951

*Maximum lifting capacity: Type RB Rope= 17,520 lb Type ZB Rope= 20,920 lb

Wire Rope Capacity

Parts of Line	0.88"		
	Type RB	Type ZB	Type GC
1	17,520	20,920	30,200
2	35,040	41,840	60,400
3	52,560	62,760	90,600
4	70,080	83,680	120,800
5	87,600	104,600	151,000
6	105,120	125,520	181,200
7	122,640	146,440	211,400
8	140,160	167,360	241,600
9	157,680	188,280	271,800
10	175,200	209,200	302,000
11	192,720	230,120	332,200
12	210,240	251,040	362,400
Rope Wt./Length [lb/ft]	1.50	1.53	1.50
LBCE Type	Description		
RB	19 X 19 Rotation Resistant— Extra Extra Improved Plow Steel — Preformed — Right Lay — Regular Lay. Swaged		
ZB	34 X 7 Non—Rotating — Extra Improved Plow Steel — Right Regular or Right Lang Lay		
GC	4 Strand, Compacted Strand, Swaged, Preformed, Regular Lay		

Notes:

- Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in this Crane Rating Manual or the Wire Rope Capacity whichever is less.
- Study Crane Operator's Manual for wire rope inspection procedures and single part of line applications.



Wind Restrictions Guide



DANGER

Do not exceed operating limitations specified. Failure to follow these wind speed restrictions may result in structural failure of the boom. Death, bodily injury, and/or property damage could result. Operate the crane safely within the limits specified below.

Lifting Capacity Reductions (%) For Lift Crane Operations In Wind Conditions Over 16 mph

Boom Or Boom Plus Fly	Wind Speeds Miles Per Hour (mph)			
	0–16.0 mph	16.1–23.0 mph	23.1–31.0 mph	31.1 mph or Greater
Length (Feet)				
42.4' to 250.4'	Normal	40%	70%	No Operation

Notes:

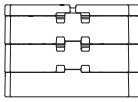
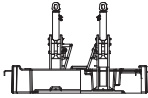
1. Judgment and experience must be used to compensate for the effects of wind acting on the lifted load as the actual load wind sail area is unknown. It is the responsibility of the user to take this into account.
2. Wind speed must include wind gusts.
3. Wind speeds must be monitored at the boom's highest point (boom head or if fly is installed, fly head).
4. During high winds (above 16 mph), the operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.
5. Refer to all notes and instructions in this Crane Rating Manual.
6. No Operation: Fully retract and lower the boom. Cease all crane functions.

Capacity Deductions For Auxiliary Load Handling Equipment

Lifting From Main Boom With:	Deduct (lb)
Auxiliary Lifting Sheave Installed (Not Reeved)	100
12 Ton Hook Ball On Auxiliary Lifting Sheave (See Hook Ball for Actual Weight)	722
35 Ton Hook Block On Auxiliary Lifting Sheave (See Hook Block for Actual Weight)	1099
10 ft, 31 ft, or 55 ft Fly Stowed On Boom Base (See Lift Crane Operation, Note 1)	0
Lifting From Auxiliary Lifting Sheave With:	Deduct (lb)
140 Ton Hook Block On Main Boom (Not Used) (See Hook Block for Actual Weight.)	2850
100 Ton Hook Block On Main Boom (Not Used) (See Hook Block for Actual Weight.)	1750
80 Ton Hook Block On Main Boom (Not Used) (See Hook Block for Actual Weight.)	1411
50 Ton Hook Block On Main Boom (Not Used) (See Hook Block for Actual Weight.)	1195
35 Ton Hook Block On Main Boom (Not Used) (See Hook Block for Actual Weight.)	1099
12 Ton Hook Ball On Main Boom (Not Used) (See Hook Ball for Actual Weight.)	722



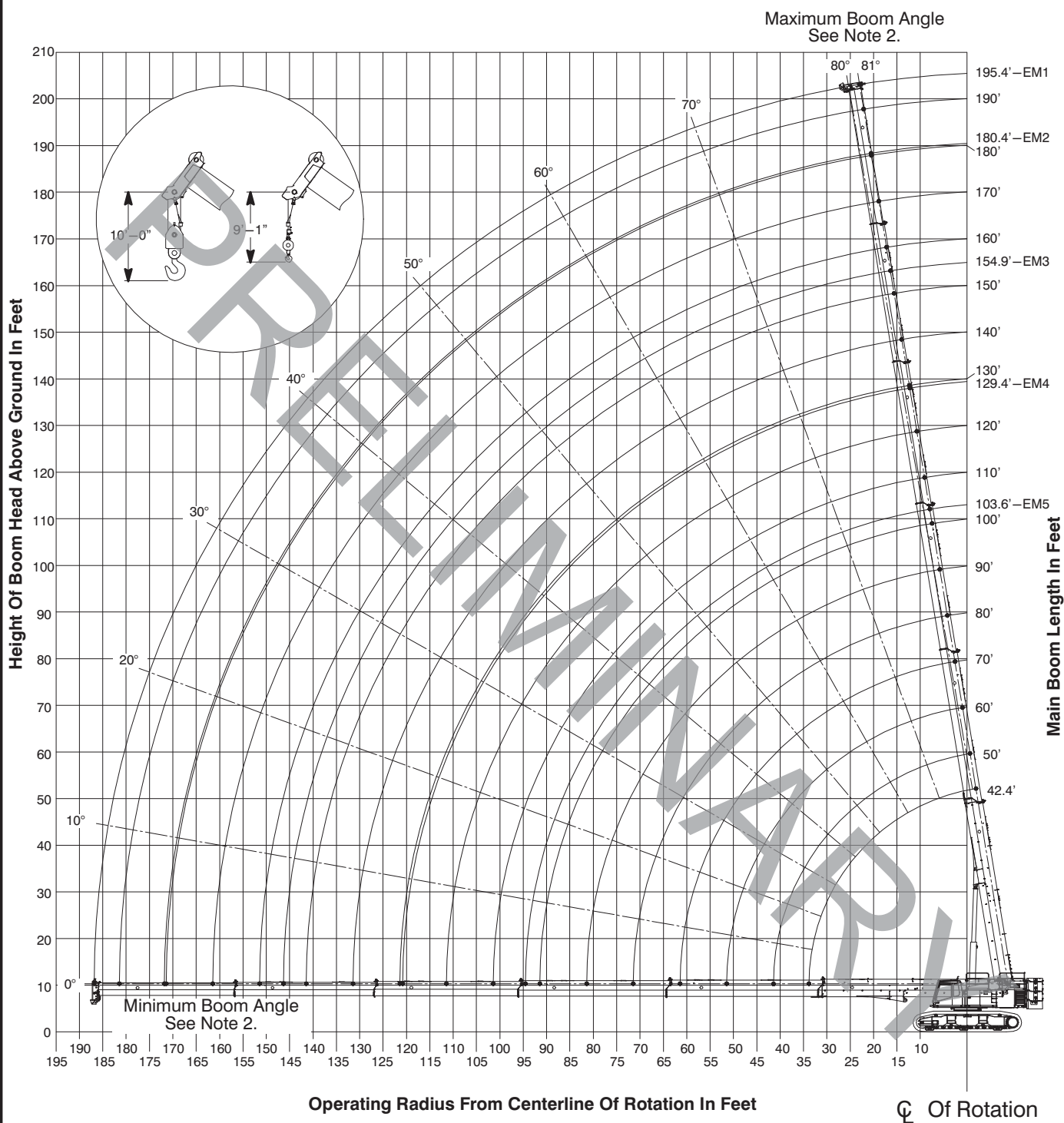
Crane Assembly Component Weights

Component		Weight	
		lb	kg
1. Upper Counterweights			
— “A” Counterweight	 	19,000	8 618
— “B” & “C” Counterweights (each)	 	16,000	7 258
— “D” Counterweight	 	6,000	2 722
2. “A” Lower Counterweights (each)	 	12,500	5 670
3. Side Frames (Each) — With 36" (0.91m) Track Shoes		28,750	13 041



Working Range Diagram

Main Boom



Notes:

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.



Self Assembly Capacity Notes

1. Refer to all applicable procedures in the Crane Operator's Manual.
2. For self assembly of side frames and counterweights only. See Crane Assembly Component Weights chart for weight of components for assembly.
3. No lifting is allowed while on jacks once both side frames are installed. Lower the crane onto the side frames and refer to the capacity charts in this Crane Rating Manual for the crane configuration in use.
4. All capacities are listed in pounds and are not more than 75% of the tipping loads.
5. Rated capacities are for 360° rotation, except with one side frame installed.
6. Due to forward and backward stability limits while on jacks, without the lower counterweights installed, the working area and maximum boom angle with one side frame installed and no load on the hook are extremely limited. Refer to the Self Assembly Procedures in the Crane Operator's Manual.
7. After installation or removal of the first side frame, no lower counterweights installed, and with no load on the hook, the boom must be lowered to 65° or lower boom angle before swinging into the working area, or loss of stability will occur causing a backward tipping condition.
8. Crane must not exceed 1° tilt angle at any time while on jacks.



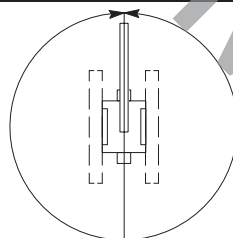
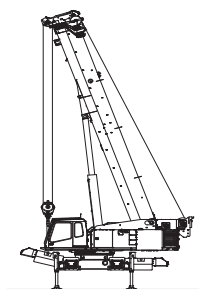
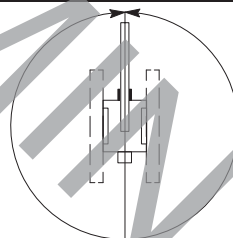
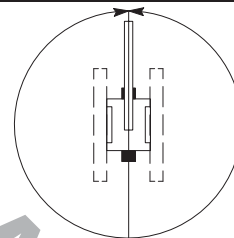
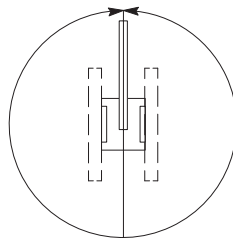
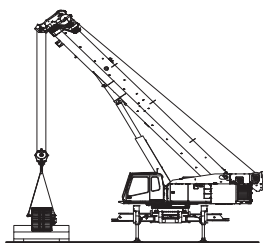
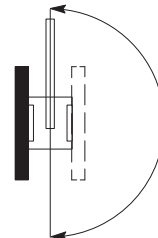
WARNING

Without Lower Counterweights Installed, Do Not Raise The Boom Above 65° Boom Angle With Only One Side Frame Installed And No Load On Hook. Loss Of Backward Stability Will Occur Causing A Tipping Condition.

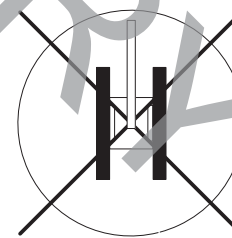
Do Not Raise The Boom Above 73° Boom Angle For Self Assembly On Jacks. Loss Of Backward Stability Will Occur Causing A Tipping Condition.

**Self Assembly Capacities On Jacks With 36" Shoes And 0+0 Counterweight**

Standard Mode Boom Length (ft)	Rated Radius (ft)	Boom Angle (deg)	Rated Capacity (lbs)
42.4	7	73.0	40,000
	8	72.0	40,000
	9	70.5	40,000
	10	69.0	40,000
	11	67.5	40,000
	12	66.0	40,000
	13	64.5	40,000
	14	62.5	40,000
	15	61.0	35,200
	16	59.5	30,700
	17	57.5	26,900
	18	56.0	23,700
	19	54.5	21,000
	20	52.5	18,600
	21	50.5	16,600
	22	49.0	14,800
	23	47.0	13,200
	24	45.0	11,700
	25	42.5	10,400
Min.Bm. Ang./Cap.		0.0	2,500
Radius (ft)		33.9	

For Lower Counterweight Installation:360°
Operation360°
Operation360°
Operation**For Side Frame Installation:**360°
Operation

180° Operation**



No Operation***

9050060

* Once the lower counterweights are installed, refer to the Self Assembly Capacities On Jacks With 0+A Counterweight Chart.

** Refer to Self Assembly Capacity Notes 5, 6, And 7.

*** Refer to Self Assembly Capacity Note 3.

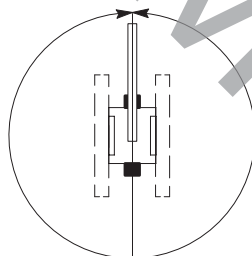
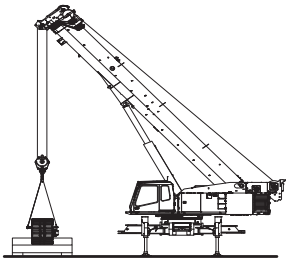
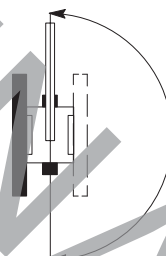
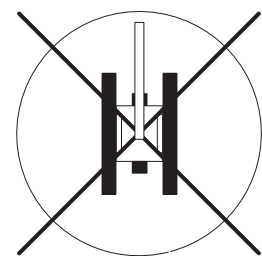
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**Self Assembly Capacities On Jacks With 36" Shoes And 0+A Counterweight**

Standard Mode Boom Length (ft)	Rated Radius (ft)	Boom Angle (deg)	Rated Capacity (lbs)
42.4	7	73.0	40,000
	8	72.0	40,000
	9	70.5	40,000
	10	69.0	40,000
	11	67.5	40,000
	12	66.0	40,000
	13	64.5	40,000
	14	62.5	40,000
	15	61.0	40,000
	16	59.5	38,400
	17	57.5	34,900
	18	56.0	31,100
	19	54.5	27,900
	20	52.5	25,000
	21	50.5	22,600
	22	49.0	20,400
	23	47.0	18,400
	24	45.0	16,800
	25	42.5	15,200
Min.Bm. Ang./Cap.		0.0	5,900
Radius (ft)		33.9	

For Side Frame Installation:360°
Operation180°*
Operation

No Operation**

8050060

* Refer to Self Assembly Capacity Note 5.

** Refer to Self Assembly Capacity Note 3.



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D C B A A Lower EM1 360° Fully Extended										
Main Boom Capacities – 42.4'–195.4' Boom										
Load Radius (ft)	42.4'		56.0'		71.3'		86.0'		101.0'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500	74.5	81,300	78.0	61,800				
12	66.0	227,100	72.5	81,300	77.0	61,800				
15	61.5	181,800	69.5	81,300	74.5	61,800	77.5	79,000		
20	53.0	134,700	63.5	81,300	70.0	61,800	74.5	70,000	77.0	50,900
25	43.0	104,000	57.5	81,300	66.0	61,800	71.0	62,000	74.5	50,900
30	30.0	77,100	50.5	81,300	61.0	59,500	67.0	55,500	71.5	46,100
35			43.0	64,300	56.5	53,900	63.5	50,100	68.5	41,700
40			34.0	52,400	51.0	48,300	59.5	45,700	65.0	38,000
45			21.5	43,900	45.0	43,700	55.5	41,900	62.0	34,900
50					38.5	39,600	51.0	38,700	58.5	32,200
55					31.0	34,400	46.0	35,100	55.0	29,800
60					20.0	30,200	41.0	31,000	51.5	27,800
65							35.0	27,500	47.5	26,000
70							27.5	24,600	43.0	24,400
75							17.5	22,100	38.0	22,600
80									32.5	20,500
85									26.0	18,600
90									16.5	17,100
Min.Bm. Ang./Cap.	0.0	61,100	0.0	25,900	0.0	14,600	0.0	12,700	0.0	11,000
Radius (ft)	33.9		47.5		63		78		93	

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D C B A A Lower		Fully Extended		EM1		360°		
Main Boom Capacities – 42.4'–195.4' Boom								
Load Radius (ft)	116.0'		131.6'		147.0'		163.1'	
	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)
20	79.0	38,500						
25	76.5	38,500	78.5	32,500				
30	74.5	38,500	76.5	32,500	78.5	30,500	80.0	26,700
35	72.0	38,500	74.5	32,500	76.5	30,500	78.5	26,700
40	69.5	38,500	72.5	32,500	75.0	30,500	77.0	26,700
45	66.5	35,600	70.5	31,600	73.0	30,500	75.0	26,700
50	64.0	32,900	68.0	29,200	71.0	29,500	73.5	26,700
55	61.0	30,500	65.5	27,000	69.0	27,400	72.0	24,900
60	58.0	28,400	63.0	25,100	67.0	25,400	70.0	23,100
65	55.0	26,500	60.5	23,400	64.5	23,700	68.0	21,500
70	51.5	24,900	58.0	21,900	62.5	22,200	66.0	20,000
75	48.0	22,500	55.0	20,500	60.0	20,700	64.0	18,700
80	44.5	20,400	52.0	19,300	57.5	19,500	62.0	17,500
85	40.0	18,500	49.0	18,200	55.0	18,000	60.0	16,400
90	35.5	17,000	46.0	17,000	52.5	16,600	57.5	15,400
95	30.5	15,600	42.5	15,500	49.5	15,100	55.5	14,500
100	24.5	14,300	38.5	14,200	46.5	13,800	53.0	13,500
105	15.5	13,100	34.5	13,100	43.5	12,700	50.5	12,300
110			30.0	12,000	40.5	11,600	48.0	11,300
115			24.0	11,100	37.0	10,700	45.5	10,300
120			16.5	10,200	33.0	9,800	42.5	9,500
125					28.5	9,000	39.5	8,700
130					23.5	8,300	36.0	8,000
135					16.5	7,700	32.5	7,300
140							28.5	6,700
145							24.0	6,200
150							17.5	5,600
Min.Bm. Ang./Cap.	0.0	9,400	0.0	7,900	0.0	6,400	0.0	5,000
Radius (ft)	108		123		139		155	

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D C B A A Lower				
Fully Extended				
Main Boom Capacities – 42.4’–195.4’ Boom				
Load Radius (ft)	179.0’		195.4’	
	∠	(lb)	∠	(lb)
35	79.5	24,900		
40	78.5	24,900		21,500
45	77.0	24,900	79.5	21,500
50	75.5	24,900	78.5	
55	74.5	24,900	77.5	21,500
60	73.0	24,700	76.0	21,500
65	71.0	23,100	75.0	21,500
70	69.5	21,600	73.5	21,500
75	67.5	20,200	72.5	21,500
80	65.5	18,700	70.5	20,200
85	63.5	17,200		18,100
90	61.5	15,500	68.5	16,500
95	59.5	14,100	67.0	14,900
100	57.5	12,800	65.5	13,500
105	55.5	11,700	63.5	12,200
110	53.0	10,600	61.5	11,100
115	51.0	9,700	60.0	
120	49.0	8,800	57.5	10,100
125	46.5	8,000	56.0	9,100
130	43.5	7,300	54.0	8,300
135	41.0	6,700	52.0	7,500
140	38.5	6,100	49.5	6,800
145	35.5	5,500	47.5	6,100
150	32.0	5,000	45.5	5,500
155	28.0	4,500	43.0	4,900
160	24.0	4,000	40.5	4,400
165	18.5	3,600	38.0	3,900
170	8.5	3,300	35.0	3,500
175			32.0	3,100
180			28.5	2,700
185			24.5	2,300
190			20.0	2,000
195			12.5	1,700
Min.Bm. Ang./Cap.	0.0	3,300	0.0	1,600
Radius (ft)	171		187	

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C B A A Lower Fully Extended EM1 360°										
Main Boom Capacities – 42.4’–195.4’ Boom										
Load Radius (ft)	42.4’		56.0’		71.3’		86.0’		101.0’	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500	74.5	81,300	78.0	61,800				
12	66.0	221,000	72.5	81,300	77.0	61,800				
15	61.5	176,800	69.5	81,300	74.5	61,800	77.5	79,000		
20	53.0	130,800	63.5	81,300	70.0	61,800	74.5	70,000	77.0	50,900
25	43.0	98,000	57.5	81,300	66.0	61,800	71.0	62,000	74.5	50,900
30	30.0	72,500	50.5	76,800	61.0	59,500	67.0	55,500	71.5	46,100
35			43.0	60,500	56.5	53,900	63.5	50,100	68.5	41,700
40			34.0	49,300	51.0	48,300	59.5	45,700	65.0	38,000
45			21.0	41,100	45.0	43,500	55.5	41,900	62.0	34,900
50					38.5	37,200	51.0	38,000	58.5	32,200
55					30.5	32,300	46.0	33,100	55.0	29,800
60					20.0	28,300	41.0	29,000	51.5	27,800
65							35.0	25,700	47.5	26,000
70							27.5	23,000	43.0	23,500
75							17.5	20,600	38.0	21,100
80									32.5	19,100
85									26.0	17,400
95										
Min.Bm. Ang./Cap.	0.0	59,400	0.0	25,900	0.0	14,600	0.0	12,700	0.0	11,000
Radius (ft)	33.9		47.5		63		78		93	



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C B A A Lower						EM1		360°	
Fully Extended									
Main Boom Capacities — 42.4'—195.4' Boom									
Load Radius (ft)	116.0'		131.6'		147.0'		163.1'		
	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	
20	79.0	38,500							
25	76.5	38,500	78.5	32,500					
30	74.5	38,500	76.5	32,500	78.5	30,500	80.0	26,700	
35	72.0	38,500	74.5	32,500	76.5	30,500	78.5	26,700	
40	69.5	38,500	72.5	32,500	75.0	30,500	77.0	26,700	
45	66.5	35,600	70.5	31,600	73.0	30,500	75.0	26,700	
50	64.0	32,900	68.0	29,200	71.0	29,500	73.5	26,700	
55	61.0	30,500	65.5	27,000	69.0	27,400	72.0	24,900	
60	58.0	28,400	63.0	25,100	67.0	25,400	70.0	23,100	
65	54.5	26,200	60.5	23,400	64.5	23,700	68.0	21,500	
70	51.5	23,400	58.0	21,900	62.5	22,200	66.0	20,000	
75	48.0	21,000	55.0	20,500	59.5	20,500	64.0	18,700	
80	44.0	19,000	52.0	18,900	57.5	18,500	62.0	17,500	
85	40.0	17,300	49.0	17,200	55.0	16,900	60.0	16,400	
90	35.5	15,800	46.0	15,700	52.0	15,300	57.5	15,000	
95	30.5	14,400	42.0	14,300	49.5	13,900	55.0	13,600	
100	24.5	13,200	38.5	13,100	46.5	12,700	53.0	12,400	
105	15.5	12,100	34.5	12,000	43.5	11,600	50.0	11,300	
110			29.5	11,000	40.0	10,600	47.5	10,300	
115			24.0	10,100	37.0	9,700	45.0	9,400	
120			16.0	9,300	33.0	8,900	42.5	8,600	
125					28.5	8,200	39.0	7,800	
130					23.5	7,500	36.0	7,100	
135					16.5	6,900	32.5	6,500	
140							28.5	5,900	
145							23.5	5,400	
150							17.5	4,900	
Min.Bm. Ang./Cap.	0.0	9,400	0.0	7,900	0.0	6,400	0.0	4,600	
Radius (ft)	108		123		139		155		

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C B A A Lower				EM 1		360°	
Fully Extended							
Main Boom Capacities — 42.4'–195.4' Boom							
Load Radius (ft)	179.0'			195.4'			
	∠	(lb)		∠	(lb)		
35	79.5	24,900		79.5			
40	78.5	24,900			21,500		
45	77.0	24,900			21,500		
50	75.5	24,900		77.5	21,500		
55	74.5	24,900		76.0	21,500		
60	73.0	24,700		75.0	21,500		
65	71.0	23,100		73.5	21,500		
70	69.5	21,600		72.0	21,000		
75	67.0	19,300		70.0	18,700		
80	65.5	17,300		68.5	17,000		
85	63.5	15,800		67.0	15,200		
90	61.5	14,300		65.0	13,700		
95	59.5	12,900		63.5	12,300		
100	57.0	11,700		61.0	11,100		
105	55.0	10,600		59.5	10,000		
110	53.0	9,600		57.5	9,100		
115	50.5	8,700		55.5	8,200		
120	48.5	7,900		53.5	7,300		
125	46.0	7,200		51.5	6,600		
130	43.5	6,500		49.5	5,900		
135	41.0	5,900		47.0	5,300		
140	38.0	5,300		45.0	4,700		
145	35.0	4,700		43.0	4,200		
150	31.5	4,300		40.5	3,700		
155	28.0	3,800		37.5	3,200		
160	23.5	3,400		35.0	2,800		
165	18.5	3,000		32.0	2,400		
170	8.0	2,600		28.0	2,000		
175				24.5	1,700		
180				19.5	1,400		
Min.Bm. Ang./Cap.	0.0	2,600		12.0	0		
Radius (ft)	171			185			
⚠ WARNING Do Not Lower Boom Below The Minimum Boom Angle Listed. Loss Of Forward Stability Will Occur Causing a Tipping Condition.							



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D C B A A Lower Fully Extended										
Main Boom Capacities – 42.4'–180.4' Boom										
Load Radius (ft)	42.4'		56.0'		68.3'		82.0'		95.0'	
	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500								
12	66.0	227,100	74.5	81,300	77.5	75,900				
15	61.5	181,800	69.5	81,300	73.5	75,900	77.0	82,900		
20	53.0	134,700	63.5	81,300	69.0	75,900	73.5	74,300	76.0	60,100
25	43.0	104,000	57.5	81,300	64.5	71,200	69.5	65,600	73.0	54,800
30	30.0	77,100	50.5	81,300	59.5	63,800	65.5	58,800	70.0	49,100
35			43.0	64,300	54.5	57,800	61.5	53,100	66.5	44,400
40			34.0	52,400	48.5	52,900	57.5	48,400	63.0	40,500
45			21.5	43,900	42.5	45,900	53.0	44,400	59.5	37,100
50					35.0	39,200	48.0	40,100	56.0	34,300
55					25.5	34,100	43.0	34,800	52.0	31,800
60							37.0	30,700	47.5	29,600
65							30.0	27,200	43.0	27,700
70							20.5	24,300	38.0	24,800
75									32.0	22,300
80									25.0	20,200
85									14.0	18,400
90										
95										
100										
Min.Bm. Ang./Cap.	0.0	61,100	0.0	25,900	0.0	16,200	0.0	14,100	0.0	12,400
Radius (ft)	33.9		47.5		60		74		87	

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D C B A A Lower								
Fully Extended								
Main Boom Capacities – 42.4’–180.4’ Boom								
Load Radius (ft)	110.0’		122.6’		138.0’		151.1’	
	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)
20	78.5	48,100						
25	76.0	48,100	77.5	37,700				
30	73.5	48,100	75.5	37,700	77.5	35,900	79.0	32,000
35	70.5	44,500	73.0	37,700	75.5	35,900	77.0	32,000
40	68.0	40,600	71.0	36,600	73.5	35,900	75.5	32,000
45	65.0	37,300	68.0	33,600	71.5	33,600	73.5	31,000
50	62.0	34,500	65.5	31,000	69.0	31,000	71.5	28,500
55	59.0	31,900	63.0	28,700	67.0	28,700	69.5	26,400
60	55.5	29,700	60.0	26,700	64.5	26,700	67.5	24,500
65	52.0	27,700	57.5	24,900	62.0	24,900	65.5	22,700
70	48.5	24,800	54.5	23,300	59.5	23,200	63.0	21,200
75	44.5	22,300	51.5	21,800	57.0	21,800	61.0	19,800
80	40.0	20,200	48.0	20,100	54.0	19,700	58.5	18,600
85	35.5	18,300	44.5	18,300	51.5	17,800	56.5	17,400
90	30.0	16,800	40.5	16,800	48.5	16,400	53.5	16,100
95	23.5	15,300	36.0	15,300	45.5	14,900	51.0	14,600
100	13.0	14,100	31.5	14,000	42.0	13,600	48.5	13,300
105			26.0	12,900	38.5	12,500	45.5	12,200
110			18.5	11,800	34.5	11,400	42.5	11,100
115					30.0	10,500	39.0	10,200
120					25.0	9,600	36.0	9,300
125					18.5	8,900	32.0	8,600
130							27.5	7,900
135							22.0	7,200
140							14.5	6,600
Min.Bm. Ang./Cap.	0.0	10,500	0.0	9,100	0.0	7,400	0.0	6,100
Radius (ft)	102		114		130		143	

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D C B A A Lower				
Fully Extended				
Main Boom Capacities – 42.4’–180.4’ Boom				
Load Radius (ft)	166.0’		180.4’	
	∠	(lb)	∠	(lb)
35	78.5	30,400	80.0	26,400
40	77.0	30,400	78.5	26,400
45	76.0	30,400	77.5	26,400
50	74.0	30,300	76.0	26,400
55	72.5	28,200	74.5	26,400
60	70.5	26,200	73.5	26,400
65	68.5	24,500	71.5	25,500
70	67.0	23,000	69.5	22,600
75	64.5	20,800	67.5	20,200
80	62.5	18,700	65.5	18,100
85	60.0	17,000	64.0	16,500
90	58.0	15,400	61.5	14,900
95	56.0	14,000	60.0	13,400
100	53.5	12,700	58.0	12,200
105	51.0	11,500	55.5	11,000
110	48.5	10,500	53.5	10,000
115	46.0	9,600	51.5	9,000
120	43.5	8,700	49.0	8,200
125	40.5	7,900	46.5	7,400
130	37.5	7,200	44.0	6,700
135	34.0	6,500	41.5	6,000
140	30.5	5,900	39.0	5,400
145	26.5	5,400	36.0	4,900
150	21.0	4,900	32.5	4,300
155	13.5	4,400	29.0	3,900
160			25.0	3,400
165			20.0	3,000
170			12.5	2,600
Min.Bm. Ang./Cap.	0.0	4,200	0.0	2,500
Radius (ft)	158		172	

2010020



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C B A A Lower Fully Extended										
Main Boom Capacities – 42.4'–180.4' Boom										
Load Radius (ft)	42.4'		56.0'		68.3'		82.0'		95.0'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500	74.5	81,300	77.5	75,900				
12	66.0	221,000	72.5	81,300	76.0	75,900				
15	61.5	176,800	69.5	81,300	73.5	75,900	77.0	82,900		
20	53.0	130,800	63.5	81,300	69.0	75,900	73.5	74,300	76.0	60,100
25	43.0	98,000	57.5	81,300	64.5	71,200	69.5	65,600	73.0	54,800
30	30.0	72,500	50.5	76,800	59.5	63,800	65.5	58,800	70.0	49,100
35			43.0	60,500	54.5	57,800	61.5	53,100	66.5	44,400
40			34.0	49,300	48.5	51,400	57.5	48,400	63.0	40,500
45			21.0	41,100	42.0	43,100	53.0	44,000	59.5	37,100
50					35.0	36,800	48.0	37,700	56.0	34,300
55					25.5	31,900	43.0	32,800	52.0	31,800
60							37.0	28,700	47.5	29,300
65							30.0	25,400	43.0	26,000
70							20.5	22,700	38.0	23,200
75									32.0	20,800
80									25.0	18,800
85									13.5	17,100
90										
95										
100										
Min.Bm. Ang./Cap.	0.0	59,400	0.0	25,900	0.0	16,200	0.0	14,100	0.0	12,400
Radius (ft)	33.9		47.5		60		74		87	

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T3P0004

C B A A Lower						EM 2		360°	
Fully Extended									
Main Boom Capacities — 42.4'—180.4' Boom									
Load Radius (ft)	110.0'		122.6'		138.0'		151.1'		
	⌵ °	(lb)	⌵ °	(lb)	⌵ °	(lb)	⌵ °	(lb)	
20	78.5	48,100							
25	76.0	48,100	77.5	37,700					
30	73.5	48,100	75.5	37,700	77.5	35,900	79.0	32,000	
35	70.5	44,500	73.0	37,700	75.5	35,900	77.0	32,000	
40	68.0	40,600	71.0	36,600	73.5	35,900	75.5	32,000	
45	65.0	37,300	68.0	33,600	71.5	33,600	73.5	31,000	
50	62.0	34,500	65.5	31,000	69.0	31,000	71.5	28,500	
55	59.0	31,900	63.0	28,700	67.0	28,700	69.5	26,400	
60	55.5	29,300	60.0	26,700	64.5	26,700	67.5	24,500	
65	52.0	26,000	57.5	24,900	62.0	24,900	65.5	22,700	
70	48.0	23,200	54.0	23,100	59.5	22,700	63.0	21,200	
75	44.5	20,800	51.0	20,800	57.0	20,300	61.0	19,800	
80	40.0	18,800	48.0	18,700	54.0	18,300	58.5	18,000	
85	35.5	17,100	44.0	17,100	51.0	16,700	56.0	16,400	
90	30.0	15,500	40.5	15,500	48.5	15,100	53.5	14,800	
95	23.5	14,200	36.0	14,100	45.5	13,700	51.0	13,500	
100	13.0	13,000	31.5	12,900	42.0	12,500	48.0	12,200	
105			26.0	11,800	38.5	11,400	45.5	11,100	
110			18.5	10,800	34.5	10,400	42.0	10,100	
115					30.0	9,500	39.0	9,300	
120					25.0	8,700	35.5	8,400	
125					18.0	8,000	31.5	7,700	
130							27.0	7,000	
135							22.0	6,400	
140							14.5	5,800	
Min.Bm. Ang./Cap.	0.0	10,500	0.0	9,100	0.0	7,400	0.0	5,600	
Radius (ft)	102		114		130		143		

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C B A A Lower Fully Extended				
Main Boom Capacities – 42.4’–180.4’ Boom				
Load Radius (ft)	166.0’		180.4’	
	$\angle$ °	(lb)	$\angle$ °	(lb)
35	78.5	30,400	80.0	26,400
40	77.0	30,400	78.5	26,400
45	76.0	30,400	77.5	26,400
50	74.0	30,300	76.0	26,400
55	72.5	28,200	74.5	26,400
60	70.5	26,200	73.5	26,400
65	68.5	24,300	71.5	23,700
70	66.5	21,600	69.0	21,000
75	64.0	19,200	67.5	18,600
80	62.0	17,200	65.5	16,900
85	60.0	15,700	63.5	15,100
90	58.0	14,200	61.5	13,600
95	55.5	12,800	59.5	12,300
100	53.5	11,600	57.5	11,100
105	51.0	10,500	55.5	10,000
110	48.5	9,500	53.0	9,000
115	46.0	8,600	51.0	8,100
120	43.0	7,800	49.0	7,300
125	40.5	7,000	46.5	6,500
130	37.5	6,400	44.0	5,800
135	34.0	5,700	41.5	5,200
140	30.0	5,200	38.5	4,600
145	26.0	4,600	36.0	4,100
150	21.0	4,200	32.5	3,600
155	13.5	3,700	29.0	3,200
160			25.0	2,700
165			19.5	2,300
170			12.0	2,000
Min.Bm. Ang./Cap.	0.0	3,500	0.0	1,900
Radius (ft)	158		172	

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D C B A A Lower						EM 3		360°		
Fully Extended										
Main Boom Capacities – 42.4’–154.9’ Boom										
Load Radius (ft)	42.4’		55.5’		69.5’		84.0’		97.1’	
	⌵ °	(lb)	⌵ °	(lb)	⌵ °	(lb)	⌵ °	(lb)	⌵ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500	74.5	81,200	78.0	80,700				
12	66.0	227,100	72.5	81,200	76.5	80,700				
15	61.5	181,800	69.0	81,200	74.0	80,700	77.0	79,700		
20	53.0	134,700	63.5	81,200	69.5	80,700	74.0	79,700	76.5	70,800
25	43.0	104,000	57.0	81,200	65.0	80,700	70.5	79,700	73.5	62,500
30	30.0	77,100	50.0	81,200	60.0	80,700	66.5	79,700	70.0	55,800
35			42.5	64,200	55.0	65,900	62.5	66,100	67.0	50,300
40			33.0	52,300	49.5	53,900	58.0	54,200	63.5	45,700
45			19.5	43,800	43.0	45,300	54.0	45,700	60.0	41,800
50					36.0	38,700	49.0	39,100	56.5	38,500
55					27.5	33,600	44.0	33,900	52.5	34,200
60					13.5	29,400	38.5	29,700	48.5	29,900
65							32.0	26,300	44.0	26,500
70							24.0	23,400	39.5	23,500
75							9.5	20,900	34.0	21,100
80									27.5	18,900
85									19.0	17,200
Min.Bm. Ang./Cap.	0.0	61,100	0.0	26,600	0.0	22,100	0.0	18,300	0.0	15,300
Radius (ft)	33.9		47		61		76		89	

2010030



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D C B A A Lower				EM3		360°		
Fully Extended								
Main Boom Capacities – 42.4'–154.9' Boom								
Load Radius (ft)	112.0'		125.6'		141.0'		154.9'	
	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)
20	78.5	65,500						
25	76.0	59,700	78.0	53,300				
30	73.5	53,400	76.0	47,700	78.5	50,000	79.5	38,800
35	71.0	48,100	73.5	43,000	76.5	45,500	78.0	38,800
40	68.0	43,700	71.0	39,000	74.0	41,500	76.5	38,800
45	65.0	40,000	68.5	35,600	72.0	38,200	75.0	38,800
50	62.0	36,800	66.0	32,700	70.0	35,300	73.0	36,500
55	59.0	33,800	63.5	30,100	67.5	32,700	70.5	32,000
60	56.0	29,600	61.0	27,900	65.0	28,500	68.0	27,900
65	52.5	26,100	58.0	25,900	62.5	25,100	66.0	24,500
70	49.0	23,200	55.0	23,000	60.0	22,200	64.0	21,600
75	45.0	20,700	52.0	20,500	57.5	19,800	61.5	19,200
80	41.0	18,600	48.5	18,400	55.0	17,700	59.5	17,100
85	36.5	16,900	45.5	16,700	52.5	16,000	57.0	15,500
90	31.5	15,200	42.0	15,000	49.5	14,400	54.5	13,900
95	25.5	13,800	38.0	13,600	46.5	12,900	52.0	12,400
100	17.5	12,500	33.5	12,300	43.5	11,600	49.5	11,100
105			29.0	11,200	40.0	10,500	47.0	10,000
110			22.5	10,100	36.5	9,500	44.0	9,000
115			14.0	9,200	32.5	8,500	41.0	8,000
120					28.0	7,700	38.0	7,200
125					22.0	6,900	34.5	6,400
130					14.0	6,200	30.5	5,700
135							26.0	5,100
140							20.5	4,500
145							11.5	3,900
Min.Bm. Ang./Cap.	0.0	11,800	0.0	8,900	0.0	5,900	0.0	3,800
Radius (ft)	104		117		133		146	

2010030



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C B A A Lower Fully Extended		Main Boom Capacities – 42.4’–154.9’ Boom									
Load Radius (ft)	42.4’		55.5’		69.5’		84.0’		97.1’		
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	
8	72.0	280,000									
9	70.5	270,700									
10	69.0	259,500	74.5	81,200	78.0	80,700					
12	66.0	221,000	72.5	81,200	76.5	80,700					
15	61.5	176,800	69.0	81,200	74.0	80,700	77.0	79,700			
20	53.0	130,800	63.5	81,200	69.5	80,700	74.0	79,700	76.5	70,800	
25	43.0	98,000	57.0	81,200	65.0	80,700	70.5	79,700	73.5	62,500	
30	30.0	72,500	50.0	76,700	60.0	78,300	66.5	78,500	70.0	55,800	
35			42.5	60,400	55.0	62,100	62.0	62,300	67.0	50,300	
40			33.0	49,200	49.5	50,800	58.0	51,200	63.5	45,700	
45			19.5	41,000	43.0	42,600	53.5	42,900	60.0	41,800	
50					36.0	36,300	49.0	36,600	56.5	36,800	
55					27.5	31,400	44.0	31,800	52.5	32,000	
60					13.0	27,400	38.5	27,800	48.5	28,000	
65							32.0	24,500	44.0	24,700	
70							24.0	21,700	39.5	21,900	
75							9.5	19,400	34.0	19,500	
80									27.5	17,500	
85									19.0	15,900	
Min.Bm. Ang./Cap.	0.0	59,400	0.0	26,600	0.0	22,100	0.0	18,300	0.0	14,800	
Radius (ft)	33.9		47		61		76		89		

2020030



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C B A A Lower						EM3		360°	
Fully Extended									
Main Boom Capacities — 42.4'—154.9' Boom									
Load Radius (ft)	112.0'		125.6'		141.0'		154.9'		
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	
20	78.5	65,500							
25	76.0	59,700	78.0	53,300					
30	73.5	53,400	76.0	47,700	78.5	50,000	79.5	38,800	
35	71.0	48,100	73.5	43,000	76.5	45,500	78.0	38,800	
40	68.0	43,700	71.0	39,000	74.0	41,500	76.5	38,800	
45	65.0	40,000	68.5	35,600	72.0	38,200	75.0	38,800	
50	62.0	36,400	66.0	32,700	69.5	35,200	72.5	34,500	
55	59.0	31,600	63.5	30,100	67.5	30,500	70.0	29,900	
60	55.5	27,600	60.5	27,300	65.0	26,500	68.0	25,900	
65	52.5	24,300	58.0	24,100	62.5	23,300	66.0	22,700	
70	48.5	21,600	55.0	21,300	60.0	20,600	63.5	20,000	
75	45.0	19,200	52.0	19,000	57.5	18,200	61.5	17,700	
80	41.0	17,300	48.5	17,100	55.0	16,400	59.0	15,900	
85	36.5	15,500	45.0	15,300	52.0	14,700	57.0	14,200	
90	31.5	14,000	41.5	13,800	49.5	13,100	54.5	12,600	
95	25.5	12,600	38.0	12,400	46.5	11,700	52.0	11,300	
100	17.5	11,400	33.5	11,200	43.0	10,500	49.5	10,000	
105			28.5	10,100	40.0	9,400	46.5	8,900	
110			22.5	9,100	36.5	8,500	44.0	8,000	
115			13.5	8,300	32.0	7,600	40.5	7,100	
120					27.5	6,800	37.5	6,300	
125					22.0	6,000	34.0	5,500	
130					14.0	5,400	30.5	4,900	
135							25.5	4,300	
140							20.0	3,700	
145							11.5	3,200	
Min.Bm. Ang./Cap.	0.0	10,700	0.0	8,000	0.0	5,100	0.0	3,100	
Radius (ft)	104		117		133		146		

2020030



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T3P0004

D C B A A Lower Fully Extended EM 4 360°								
Main Boom Capacities – 42.4'–129.4' Boom								
Load Radius (ft)	42.4'		55.5'		69.5'		84.4'	
	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)
8	72.0	280,000						
9	70.5	270,700						
10	69.0	259,500	74.5	81,200	78.0	80,700		
12	66.0	227,100	72.5	81,200	76.5	80,700		
15	61.5	181,800	69.0	81,200	74.0	80,700	77.0	79,900
20	53.0	134,700	63.5	81,200	69.5	80,700	74.0	79,900
25	43.0	104,000	57.0	81,200	65.0	80,700	70.5	79,900
30	30.0	77,100	50.0	81,200	60.0	80,700	66.5	79,900
35			42.5	64,200	55.0	65,900	62.5	66,100
40			33.0	52,300	49.5	53,900	58.5	54,200
45			19.5	43,800	43.0	45,300	54.0	45,700
50					36.0	38,700	49.5	39,100
55					27.5	33,600	44.5	33,900
60					13.5	29,400	39.0	29,700
65							32.5	26,300
70							24.5	23,400
75							11.5	20,900
Min.Bm. Ang./Cap.	0.0	61,100	0.0	26,600	0.0	22,100	0.0	18,200
Radius (ft)	33.9		47		61		76	

2010040



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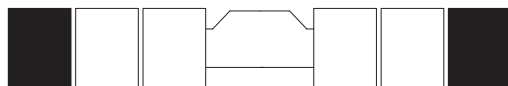
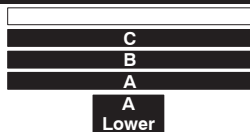
D C B A A Lower						
Fully Extended						
Main Boom Capacities – 42.4’–129.4’ Boom						
Load Radius (ft)	100.1’		116.0’		129.4’	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
20	76.5	79,200	79.0	75,400		
25	74.0	79,200	77.0	75,400	79.0	63,800
30	71.0	77,800	74.5	75,400	77.0	61,300
35	68.0	65,500	72.0	64,300	74.5	55,100
40	64.5	53,700	69.0	52,500	72.0	49,700
45	61.0	45,200	66.0	44,100	69.5	43,400
50	57.5	38,700	63.0	37,600	67.0	36,900
55	53.5	33,600	60.0	32,600	64.5	31,900
60	50.0	29,400	57.0	28,500	61.5	27,800
65	46.0	25,900	54.0	25,000	59.0	24,400
70	41.5	23,000	50.5	22,100	56.0	21,500
75	36.5	20,500	47.0	19,600	53.0	19,100
80	31.0	18,400	43.5	17,500	50.0	17,100
85	24.0	16,700	39.5	15,800	47.0	15,300
90	13.0	15,000	34.5	14,200	44.0	13,600
95			29.5	12,800	40.0	12,200
100			23.5	11,500	36.0	10,900
105			15.0	10,400	32.0	9,800
110					27.0	8,800
115					20.5	7,800
120					10.0	7,000
Min.Bm. Ang./Cap.	0.0	14,400	0.0	9,900	0.0	6,900
Radius (ft)	92		108		121	



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Fully Extended



Main Boom Capacities – 42.4'–129.4' Boom

Load Radius (ft)	42.4'		55.5'		69.5'		84.4'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
8	72.0	280,000						
9	70.5	270,700						
10	69.0	259,500	74.5	81,200	78.0	80,700		
12	66.0	221,000	72.5	81,200	76.5	80,700		
15	61.5	176,800	69.0	81,200	74.0	80,700	77.0	79,900
20	53.0	130,800	63.5	81,200	69.5	80,700	74.0	79,900
25	43.0	98,000	57.0	81,200	65.0	80,700	70.5	79,900
30	30.0	72,500	50.0	76,700	60.0	78,300	66.5	78,500
35			42.5	60,400	55.0	62,100	62.5	62,300
40			33.0	49,200	49.5	50,800	58.5	51,200
45			19.5	41,000	43.0	42,600	54.0	42,900
50					36.0	36,300	49.5	36,600
55					27.5	31,400	44.5	31,800
60					13.0	27,400	39.0	27,800
65							32.5	24,500
70							24.5	21,700
75							11.5	19,400
Min.Bm. Ang./Cap.	0.0	59,400	0.0	26,600	0.0	22,100	0.0	18,200
Radius (ft)		33.9		47		61		76

2020040



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C B A Lower		Fully Extended				EM4		360°	
Main Boom Capacities — 42.4'—129.4' Boom									
Load Radius (ft)	100.1'		116.0'		129.4'		∠ °	(lb)	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)			
20	76.5	79,200	79.0	75,400					
25	74.0	79,200	77.0	75,400	79.0			63,800	
30	71.0	77,800	74.5	75,400	77.0			61,300	
35	67.5	61,700	71.5	60,500	74.5			55,100	
40	64.0	50,600	68.5	49,500	72.0			48,700	
45	61.0	42,500	66.0	41,300	69.5			40,600	
50	57.5	36,200	63.0	35,100	67.0			34,400	
55	53.5	31,400	60.0	30,400	64.0			29,800	
60	49.5	27,400	57.0	26,500	61.5			25,800	
65	45.5	24,100	53.5	23,200	59.0			22,600	
70	41.5	21,400	50.5	20,500	56.0			19,900	
75	36.5	19,000	47.0	18,100	53.0			17,500	
80	30.5	17,100	43.0	16,200	50.0			15,700	
85	24.0	15,300	39.0	14,500	47.0			13,900	
90	13.0	13,800	34.5	12,900	43.5			12,400	
95			29.5	11,600	40.0			11,000	
100			23.5	10,400	36.0			9,800	
105			15.0	9,300	32.0			8,700	
110					27.0			7,800	
115					20.5			6,900	
120					10.0			6,100	
Min.Bm. Ang./Cap.	0.0	13,400	0.0	8,800	0.0			6,000	
Radius (ft)	92		108		121				

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D C B A A Lower										
Fully Extended										
Main Boom Capacities – 42.4’–103.6’ Boom										
Load Radius (ft)	42.4’		56.4’		71.3’		87.0’		103.6’	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500	75.0	168,500	78.5	157,800				
12	66.0	227,100	73.0	168,500	77.0	157,800				
15	61.5	181,800	69.5	168,500	74.5	147,700	78.0	120,000		
20	53.0	134,700	64.0	137,600	70.5	127,300	74.5	110,700	77.5	93,500
25	43.0	104,000	57.5	107,500	65.5	108,400	71.0	97,300	75.0	88,200
30	30.0	77,100	51.0	80,500	61.0	81,400	67.5	81,000	72.0	77,900
35			43.5	63,400	56.0	64,500	63.5	64,100	69.0	62,900
40			34.5	51,700	50.5	52,600	59.5	52,400	65.5	51,400
45			22.5	43,100	45.0	44,100	55.0	44,000	62.0	42,900
50					38.5	37,500	51.0	37,400	59.0	36,400
55					30.5	32,400	46.0	32,300	55.5	31,400
60					19.5	28,200	41.0	28,100	52.0	27,300
65							35.5	24,700	48.0	23,800
70							28.5	21,800	43.5	20,900
75							19.5	19,300	39.5	18,500
80									34.5	16,500
85									28.5	14,700
90									21.0	13,000
Min.Bm. Ang./Cap.	0.0	61,100	0.0	39,200	0.0	26,300	0.0	17,900	0.0	11,600
Radius (ft)	33.9		47.9		63		79		95	

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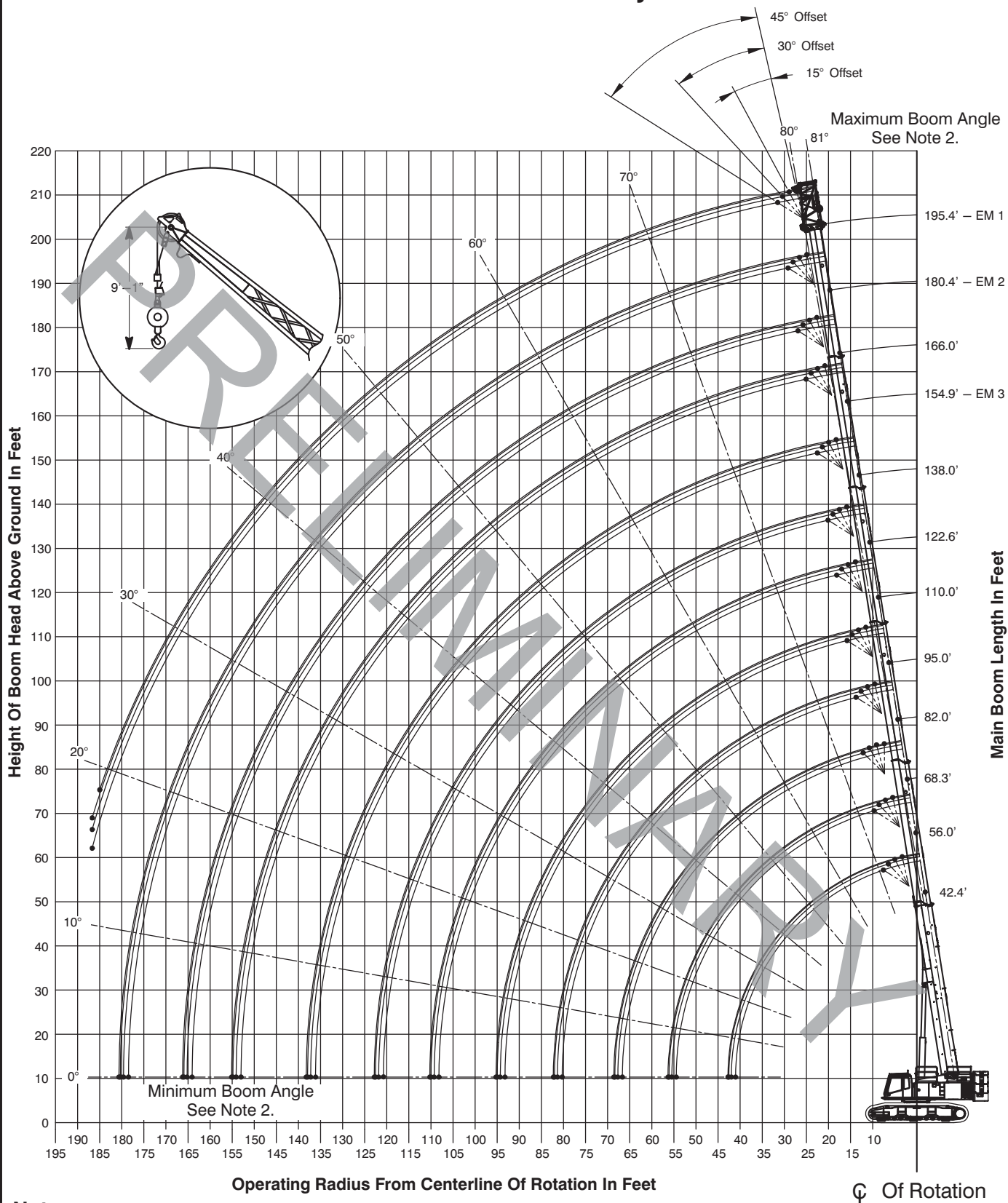
C B A A Lower EM5 360°										
Fully Extended										
Main Boom Capacities – 42.4'–103.6' Boom										
Load Radius (ft)	42.4'		56.4'		71.3'		87.0'		103.6'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
8	72.0	280,000								
9	70.5	270,700								
10	69.0	259,500	75.0	168,500	78.5	157,800				
12	66.0	221,000	73.0	168,500	77.0	157,800				
15	61.5	176,800	69.5	168,500	74.5	147,700	78.0	120,000		
20	53.0	130,800	64.0	133,800	70.5	127,300	74.5	110,700	77.5	93,500
25	43.0	98,000	57.5	101,600	65.5	102,500	71.0	97,300	75.0	88,200
30	30.0	72,500	51.0	75,900	61.0	76,800	67.0	76,400	72.0	75,100
35			43.5	59,700	56.0	60,700	63.5	60,300	68.5	59,100
40			34.5	48,500	50.5	49,500	59.5	49,300	65.5	48,200
45			22.5	40,300	45.0	41,300	55.0	41,200	62.0	40,100
50					38.5	35,000	51.0	34,900	59.0	34,100
55					30.5	30,200	46.0	30,100	55.5	29,300
60					19.5	26,200	41.0	26,100	51.5	25,300
65							35.5	22,900	48.0	22,000
70							28.5	20,100	43.5	19,300
75							19.5	17,800	39.0	17,100
80									34.0	15,100
85									28.5	13,300
90									21.0	11,800
Min. Bm. Ang./Cap.	0.0	59,400	0.0	36,600	0.0	24,400	0.0	16,400	0.0	10,400
Radius (ft)	33.9		47.9		63		79		95	

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Working Range Diagram

Main Boom + 10' Fly



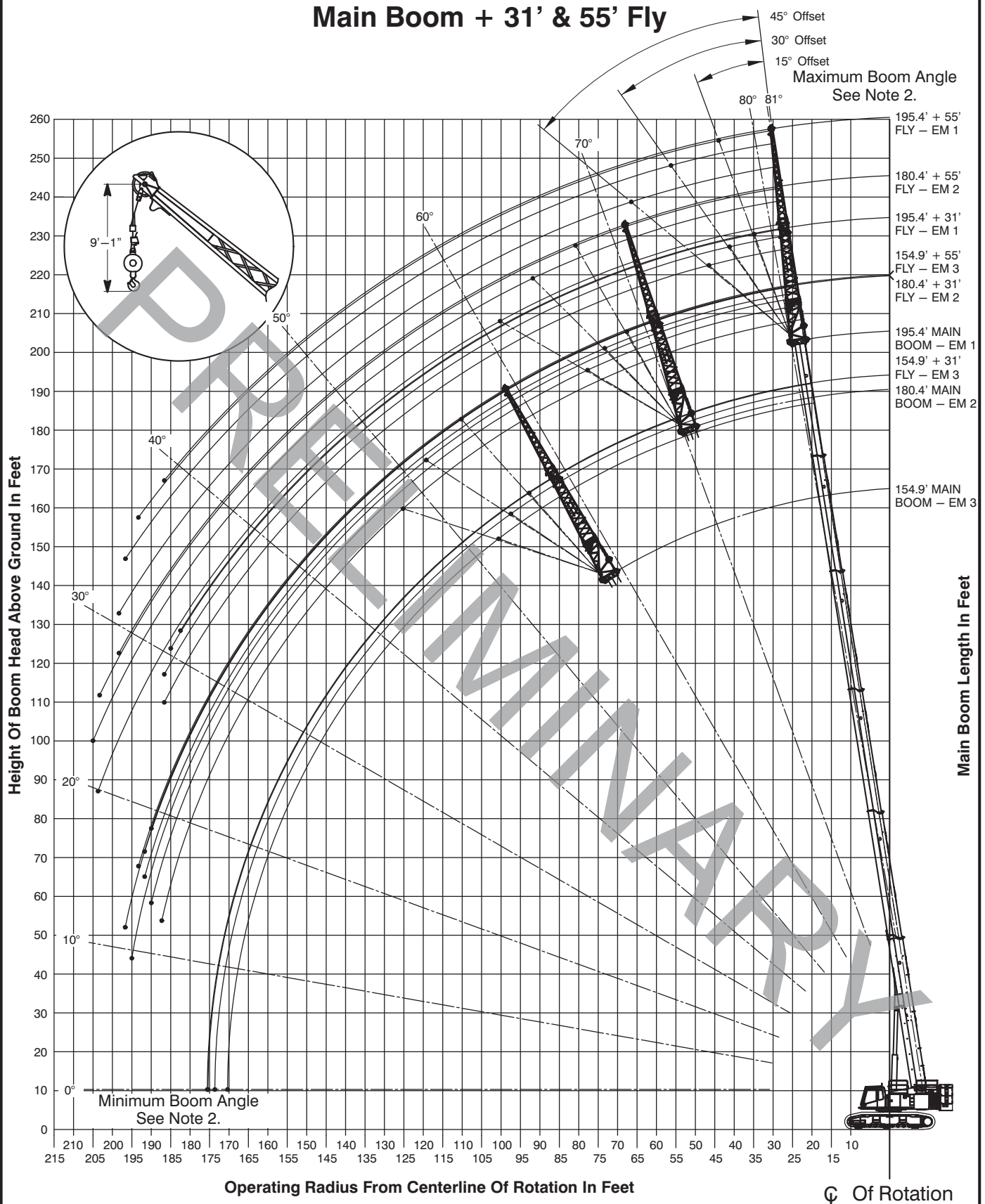
Notes:

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.



Working Range Diagram

Main Boom + 31' & 55' Fly



Notes:

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.



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D C B A A Lower Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								56.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)
10	71.0	71,600	73.5	71,600	76.0	71,600	78.0	62,700	75.5	60,900	77.0	60,900	79.0	60,900		
12	68.5	71,600	71.0	71,600	73.5	70,200	75.5	61,700	73.5	60,900	75.5	60,900	77.5	60,900	79.0	52,300
15	65.0	71,600	67.5	71,600	70.0	66,700	72.0	59,900	71.0	60,900	73.0	60,900	74.5	59,900	76.0	51,200
20	59.0	71,600	61.5	71,600	63.5	62,700	65.5	57,200	66.0	60,900	68.0	57,800	70.0	53,500	71.5	49,700
25	52.0	71,600	55.0	66,600	57.0	60,100	58.5	54,800	61.5	55,700	63.5	51,500	65.0	48,200	66.5	45,800
30	44.5	71,600	47.5	62,700	49.5	57,100	51.0	53,200	56.0	49,700	58.0	46,400	60.0	43,800	61.0	42,000
35	36.0	63,200	38.5	60,600	40.5	55,200			50.5	44,900	52.5	42,300	54.5	40,900	55.5	39,500
40	24.0	51,600	27.5	52,000					44.5	41,400	46.5	39,400	48.5	37,800	49.5	36,800
45									37.5	38,000	40.0	36,400	41.5	35,300		
50									29.5	35,200	32.0	34,000	33.5	33,200		
55									17.5	32,800	20.5	32,000				
Min.Bm. Ang./Cap.	0.0	32,500	0.0	32,200	0.0	32,700	0.0	34,100	0.0	18,000	0.0	17,900	0.0	18,100	0.0	18,600
Radius	43.9		44.3		44.1		43.5		57.5		57.8		57.6		57	

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D C B A A Lower Fully Extended EM 1 360°																
10' Offset Fly Capacities																
Load Radius (ft)	71.3' Boom								86.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
10	78.5	46,300														
12	77.0	46,300	78.5	47,900					79.0	37,700						
15	75.0	46,300	76.5	44,300	78.0	41,900	79.0	40,800	77.5	37,700	79.0	37,800				
20	71.0	41,800	73.0	39,800	74.5	38,000	75.5	36,500	74.5	37,700	76.0	37,800	77.0	36,600	78.0	35,600
25	67.5	37,300	69.0	35,600	70.5	34,100	71.5	33,000	71.5	35,000	73.0	33,900	74.0	33,000	75.0	32,200
30	63.5	33,500	65.0	32,100	66.5	31,000	68.0	30,100	68.5	31,600	69.5	30,700	71.0	29,900	72.0	29,300
35	59.5	30,400	61.0	29,300	62.5	28,300	63.5	27,700	65.0	28,700	66.5	28,000	67.5	27,300	68.5	26,900
40	55.5	27,700	57.0	26,800	58.5	26,100	59.5	25,600	61.5	26,200	63.0	25,600	64.0	25,200	65.0	24,800
45	51.0	25,500	52.5	24,800	54.0	24,200	55.0	23,800	58.0	24,100	59.5	23,600	60.5	23,200	61.5	22,900
50	46.0	23,600	47.5	23,000	49.0	22,500	50.0	22,200	54.5	22,300	56.0	21,900	57.0	21,600	58.0	21,300
55	40.5	21,900	42.5	21,400	43.5	21,100			50.5	20,900	52.0	20,900	53.0	20,600	54.0	20,400
60	34.5	20,900	36.5	20,500	37.5	20,200			46.5	19,800	48.0	19,500	49.0	19,300	50.0	19,100
65	27.5	19,600	29.0	19,300	30.5	19,100			42.0	18,400	43.5	18,200	44.5	18,000	45.5	17,900
70	17.0	18,400	19.5	18,200					37.5	17,300	39.0	17,100	40.0	17,000		
75									31.5	16,200	33.5	16,100	34.5	16,000		
80									25.0	15,300	26.5	15,200				
85									15.0	14,500	17.0	14,400				
Min.Bm. Ang./Cap.	0.0	10,700	0.0	10,700	0.0	10,700	0.0	10,900	0.0	9,300	0.0	9,200	0.0	9,300	0.0	9,500
Radius	72.8		73.1		72.9		72.2		87.5		87.8		87.6		86.8	

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D C B A A Lower																
Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	101.0' Boom								116.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∟ °	(lb)	∟ °	(lb)	∟ °	(lb)	∟ °	(lb)	∟ °	(lb)	∟ °	(lb)	∟ °	(lb)	∟ °	(lb)
15	79.0	26,100														
20	77.0	26,100	78.0	26,100	79.0	26,800			78.5	20,100	79.5	20,300				
25	74.5	26,100	75.5	26,100	76.5	26,800	77.5	26,800	76.0	20,100	77.0	20,300	78.0	20,900	79.0	21,800
30	71.5	25,700	73.0	25,200	74.0	24,800	75.0	24,400	74.0	20,100	75.0	20,300	76.0	20,900	77.0	21,800
35	69.0	23,500	70.0	23,000	71.0	22,700	72.0	22,400	71.5	20,100	73.0	20,300	74.0	20,900	75.0	21,800
40	66.0	21,500	67.5	21,100	68.5	20,900	69.5	20,900	69.5	20,100	70.5	20,300	71.5	20,900	72.5	21,100
45	63.5	20,300	64.5	20,000	65.5	19,700	66.5	19,600	67.0	20,100	68.0	20,200	69.0	20,100	70.0	19,900
50	60.5	18,700	61.5	18,500	62.5	18,300	63.5	18,100	64.5	18,900	66.0	18,700	66.5	18,600	67.5	18,500
55	57.5	17,300	58.5	17,100	59.5	17,000	60.5	16,900	62.0	17,500	63.0	17,400	64.0	17,300	65.0	17,200
60	54.0	16,100	55.5	15,900	56.5	15,800	57.0	15,700	59.5	16,300	60.5	16,200	61.5	16,100	62.0	16,100
65	51.0	15,000	52.0	14,900	53.0	14,800	53.5	14,700	57.0	15,200	58.0	15,100	59.0	15,100	59.5	15,000
70	47.5	14,000	48.5	13,900	49.5	13,800	50.0	13,800	54.0	14,200	55.0	14,200	56.0	14,100	56.5	14,100
75	43.5	13,100	45.0	13,000	45.5	13,000	46.5	12,900	51.0	13,300	52.0	13,300	53.0	13,200	53.5	13,200
80	39.5	12,300	41.0	12,300	41.5	12,200			48.0	12,500	49.0	12,500	50.0	12,400	50.5	12,400
85	35.0	11,600	36.5	11,500	37.0	11,500			44.5	11,700	46.0	11,700	46.5	11,700	47.0	11,700
90	30.0	10,900	31.0	10,900	32.0	10,900			41.0	11,100	42.5	11,000	43.0	11,000		
95	23.5	10,300	25.0	10,300					37.5	10,400	38.5	10,400	39.5	10,400		
100	14.5	9,800	16.5	9,800					33.0	9,800	34.5	9,800	35.0	9,800		
105									28.5	9,300	29.5	9,300	30.5	9,300		
110									22.5	8,800	24.0	8,800				
115									14.0	8,400	15.5	8,400				
Min.Bm. Ang./Cap.	0.0	8,000	0.0	8,000	0.0	8,000	0.0	8,100	0.0	6,700	0.0	6,700	0.0	6,700	0.0	6,800
Radius	102.5		102.8		102.5		101.8		117.5		117.8		117.5		116.8	

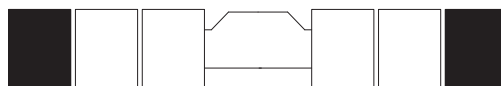
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	131.6' Boom								147.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
25	78.0	15,500	79.0	15,700												
30	76.0	15,500	77.0	15,700	78.0	16,400	78.5	17,500	77.5	12,800	78.5	13,000	79.0	13,500		
35	74.0	15,500	75.0	15,700	76.0	16,400	76.5	17,500	75.5	12,800	76.5	13,000	77.5	13,500	78.0	14,500
40	72.0	15,500	73.0	15,700	74.0	16,400	74.5	17,500	74.0	12,800	75.0	13,000	75.5	13,500	76.5	14,500
45	70.0	15,500	71.0	15,700	72.0	16,400	72.5	17,400	72.0	12,800	73.0	13,000	74.0	13,500	74.5	14,500
50	68.0	15,500	69.0	15,700	70.0	16,100	70.5	16,100	70.5	12,800	71.5	13,000	72.0	13,500	73.0	14,500
55	66.0	15,100	67.0	15,000	67.5	15,000	68.5	14,900	68.5	12,800	69.5	13,000	70.5	13,500	71.0	14,500
60	63.5	14,000	64.5	13,900	65.5	13,900	66.0	13,900	67.0	12,800	67.5	13,000	68.5	13,500	69.0	13,900
65	61.5	13,000	62.5	13,000	63.0	12,900	63.5	12,900	65.0	12,800	65.5	12,900	66.5	12,900	67.0	12,900
70	59.0	12,100	60.0	12,100	61.0	12,100	61.5	12,100	63.0	12,000	63.5	12,000	64.5	12,000	65.0	12,000
75	56.5	11,300	57.5	11,300	58.5	11,300	59.0	11,300	60.5	11,200	61.5	11,200	62.5	11,200	63.0	11,200
80	54.0	10,500	55.0	10,500	56.0	10,500	56.5	10,500	58.5	10,400	59.5	10,500	60.0	10,500	60.5	10,500
85	51.5	9,900	52.5	9,900	53.0	9,900	53.5	9,900	56.5	9,700	57.0	9,800	58.0	9,800	58.5	9,800
90	48.5	9,200	49.5	9,200	50.5	9,200	51.0	9,200	54.0	9,100	55.0	9,100	55.5	9,200	56.0	9,200
95	46.0	8,600	47.0	8,700	47.5	8,700	48.0	8,700	51.5	8,500	52.5	8,500	53.5	8,600	54.0	8,600
100	43.0	8,100	44.0	8,100	44.5	8,100	45.0	8,100	49.5	8,000	50.0	8,000	51.0	8,000	51.5	8,000
105	39.5	7,600	40.5	7,600	41.5	7,600			46.5	7,400	47.5	7,500	48.5	7,500	48.5	7,500
110	36.0	7,100	37.0	7,200	38.0	7,200			44.0	7,000	45.0	7,000	45.5	7,000	46.0	7,000
115	32.0	6,700	33.0	6,700	34.0	6,700			41.0	6,500	42.0	6,600	42.5	6,600		
120	27.5	6,300	29.0	6,300					38.0	6,100	39.0	6,100	39.5	6,100		
125	22.5	5,900	23.5	6,000					35.0	5,700	35.5	5,700	36.5	5,800		
130	15.0	5,600	16.0	5,600					31.0	5,300	32.0	5,400	32.5	5,400		
135									27.0	5,000	28.0	5,000				
140									22.0	4,700	23.0	4,700				
145									15.0	4,400	16.5	4,400				
Min.Bm. Ang./Cap.	0.0	5,500	0.0	5,500	0.0	5,500	0.0	5,500	0.0	4,200	0.0	4,200	0.0	4,200	0.0	4,300
Radius	133.1		133.4		133.1		132.3		148.5		148.8		148.5		147.7	

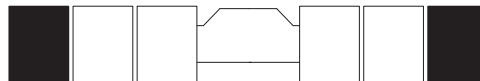
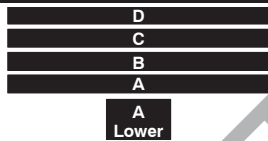
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	163.1' Boom								179.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)
30	79.0	10,500														
35	77.0	10,500														
40	75.5	10,500														
45	74.0	10,500														
50	72.5	10,500														
55	71.0	10,500														
60	69.5	10,500														
65	67.5	10,500														
70	66.0	10,400														
75	64.0	9,600														
80	62.5	8,900														
85	60.5	8,300														
90	58.5	7,700														
95	56.5	7,100														
100	54.5	6,600														
105	52.0	6,100														
110	50.0	5,600														
115	47.5	5,200														
120	45.5	4,800														
125	42.5	4,400														
130	40.0	4,100														
135	37.0	3,700														
140	34.0	3,400														
145	30.5	3,100														
150	27.0	2,900														
155	22.5	2,600														
160	16.5	2,400														
165																
170																
175																
180																
Min. Bm. Ang./Cap.	0.0	2,200	0.0	2,200	0.0	2,200	0.0	2,200	0.0	1,800	0.0	1,800	0.0	1,800	0.0	1,800
Radius	164.6		164.9		164.6		163.8		180.5		180.8		180.5		179.7	

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D C B A A Lower								
Fully Extended								
10' Offset Fly Capacities								
Load Radius (ft)	195.4' Boom							
	2'		15'		30'		45'	
		(lb)		(lb)		(lb)		(lb)
40	78.5	8,100						
45	77.0	8,100	78.0	8,200	78.5	8,600		
50	76.0	8,100	76.5	8,200	77.0	8,600	78.0	9,200
55	74.5	8,100	75.5	8,200	76.0	8,600	76.5	9,200
60	73.5	8,100	74.0	8,200	74.5	8,600	75.0	9,200
65	72.0	8,100	73.0	8,200	73.5	8,600	74.0	9,200
70	71.0	8,100	71.5	8,200	72.0	8,600	72.5	9,200
75	69.5	8,100	70.0	8,200	70.5	8,600	71.5	9,200
80	68.0	8,100	69.0	8,200	69.5	8,600	70.0	9,200
85	67.0	8,100	67.5	8,200	68.0	8,600	68.5	9,200
90	65.5	8,100	66.0	8,200	66.5	8,600	67.0	9,200
95	64.0	8,100	64.5	8,200	65.0	8,600	65.5	8,800
100	62.5	7,900	63.0	8,000	63.5	8,100	64.0	8,100
105	61.0	7,300	61.5	7,400	62.0	7,500	62.5	7,500
110	59.0	6,700	60.0	6,800	60.5	6,900	60.5	6,900
115	57.5	6,100	58.0	6,300	58.5	6,300	59.0	6,400
120	55.5	5,600	56.5	5,700	57.0	5,800	57.0	5,900
125	54.0	5,200	54.5	5,300	55.0	5,300	55.5	5,400
130	52.0	4,700	52.5	4,800	53.0	4,900	53.5	4,900
135	50.0	4,300	50.5	4,400	51.0	4,400	51.5	4,500
140	48.0	3,900	49.0	4,000	49.5	4,000	49.5	4,100
145	46.0	3,500	46.5	3,600	47.0	3,600	47.5	3,700
150	44.0	3,100	44.5	3,200	45.0	3,200	45.5	3,300
155	41.5	2,800	42.5	2,800	43.0	2,900		
160	39.0	2,400	40.0	2,500	40.5	2,500		
165	36.5	2,100	37.5	2,200	38.0	2,200		
170	34.0	1,800	34.5	1,900	35.0	1,900		
175	31.0	1,500	31.5	1,600	32.0	1,600		
180	27.5	1,300	28.5	1,300				
185			24.5	1,100				
Min.Bm. Ang./Cap.	24.0		23.0		23.5		23.5	
Radius	185		186.7		186.7		186.7	

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C B A A Lower Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								56.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)
10	71.0	71,600	73.5	71,600	76.0	71,600	78.0	62,700	75.5	60,900	77.0	60,900	79.0	60,900		
12	68.5	71,600	71.0	71,600	73.5	70,200	75.5	61,700	73.5	60,900	75.5	60,900	77.5	60,900	79.0	52,300
15	65.0	71,600	67.5	71,600	70.0	66,700	72.0	59,900	71.0	60,900	73.0	60,900	74.5	59,900	76.0	51,200
20	59.0	71,600	61.5	71,600	63.5	62,700	65.5	57,200	66.0	60,900	68.0	57,800	70.0	53,500	71.5	49,700
25	52.0	71,600	55.0	66,600	57.0	60,100	58.5	54,800	61.5	55,700	63.5	51,500	65.0	48,200	66.5	45,800
30	44.5	71,600	47.5	62,700	49.5	57,100	51.0	53,200	56.0	49,700	58.0	46,400	60.0	43,800	61.0	42,000
35	36.0	59,400	38.5	60,000	40.5	55,200			50.5	44,900	52.5	42,300	54.5	40,900	55.5	39,500
40	24.0	48,400	27.5	48,800					44.5	41,400	46.5	39,400	48.5	37,800	49.5	36,800
45									37.5	38,000	40.0	36,400	41.5	35,300		
50									29.5	35,200	32.0	34,000	33.5	33,200		
55									17.5	31,400	20.5	31,500				
Min.Bm. Ang./Cap.	0.0	32,500	0.0	32,200	0.0	32,700	0.0	34,100	0.0	18,000	0.0	17,900	0.0	18,100	0.0	18,600
Radius	43.9		44.3		44.1		43.5		57.5		57.8		57.6		57	

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C B A A Lower Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	71.3' Boom								86.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
10	78.5	46,300														
12	77.0	46,300	78.5	47,900					79.0	37,700						
15	75.0	46,300	76.5	44,300	78.0	41,900	79.0	40,800	77.5	37,700	79.0	37,800				
20	71.0	41,800	73.0	39,800	74.5	38,000	75.5	36,500	74.5	37,700	76.0	37,800	77.0	36,600	78.0	35,600
25	67.5	37,300	69.0	35,600	70.5	34,100	71.5	33,000	71.5	35,000	73.0	33,900	74.0	33,000	75.0	32,200
30	63.5	33,500	65.0	32,100	66.5	31,000	68.0	30,100	68.5	31,600	69.5	30,700	71.0	29,900	72.0	29,300
35	59.5	30,400	61.0	29,300	62.5	28,300	63.5	27,700	65.0	28,700	66.5	28,000	67.5	27,300	68.5	26,900
40	55.5	27,700	57.0	26,800	58.5	26,100	59.5	25,600	61.5	26,200	63.0	25,600	64.0	25,200	65.0	24,800
45	51.0	25,500	52.5	24,800	54.0	24,200	55.0	23,800	58.0	24,100	59.5	23,600	60.5	23,200	61.5	22,900
50	46.0	23,600	47.5	23,000	49.0	22,500	50.0	22,200	54.5	22,300	56.0	21,900	57.0	21,600	58.0	21,300
55	40.5	21,900	42.5	21,400	43.5	21,100			50.5	20,900	52.0	20,900	53.0	20,600	54.0	20,400
60	34.5	20,900	36.5	20,500	37.5	20,200			46.5	19,800	48.0	19,500	49.0	19,300	50.0	19,100
65	27.5	19,600	29.0	19,300	30.5	19,100			42.0	18,400	43.5	18,200	44.5	18,000	45.5	17,900
70	17.0	18,400	19.5	18,200					37.5	17,300	39.0	17,100	40.0	17,000		
75									31.5	16,200	33.5	16,100	34.5	16,000		
80									25.0	15,300	26.5	15,200				
85									15.0	14,500	17.0	14,400				
Min.Bm. Ang./Cap.	0.0	10,700	0.0	10,700	0.0	10,700	0.0	10,900	0.0	9,300	0.0	9,200	0.0	9,300	0.0	9,500
Radius	72.8		73.1		72.9		72.2		87.5		87.8		87.6		86.8	

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C B A A Lower Fully Extended EM1 360°																
10' Offset Fly Capacities																
Load Radius (ft)	101.0' Boom								116.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	79.0	26,100														
20	77.0	26,100	78.0	26,100	79.0	26,800			78.5	20,100	79.5	20,300				
25	74.5	26,100	75.5	26,100	76.5	26,800	77.5	26,800	76.0	20,100	77.0	20,300	78.0	20,900	79.0	21,800
30	71.5	25,700	73.0	25,200	74.0	24,800	75.0	24,400	74.0	20,100	75.0	20,300	76.0	20,900	77.0	21,800
35	69.0	23,500	70.0	23,000	71.0	22,700	72.0	22,400	71.5	20,100	73.0	20,300	74.0	20,900	75.0	21,800
40	66.0	21,500	67.5	21,100	68.5	20,900	69.5	20,900	69.5	20,100	70.5	20,300	71.5	20,900	72.5	21,100
45	63.5	20,300	64.5	20,000	65.5	19,700	66.5	19,600	67.0	20,100	68.0	20,200	69.0	20,100	70.0	19,900
50	60.5	18,700	61.5	18,500	62.5	18,300	63.5	18,100	64.5	18,900	66.0	18,700	66.5	18,600	67.5	18,500
55	57.5	17,300	58.5	17,100	59.5	17,000	60.5	16,900	62.0	17,500	63.0	17,400	64.0	17,300	65.0	17,200
60	54.0	16,100	55.5	15,900	56.5	15,800	57.0	15,700	59.5	16,300	60.5	16,200	61.5	16,100	62.0	16,100
65	51.0	15,000	52.0	14,900	53.0	14,800	53.5	14,700	57.0	15,200	58.0	15,100	59.0	15,100	59.5	15,000
70	47.5	14,000	48.5	13,900	49.5	13,800	50.0	13,800	54.0	14,200	55.0	14,200	56.0	14,100	56.5	14,100
75	43.5	13,100	45.0	13,000	45.5	13,000	46.5	12,900	51.0	13,300	52.0	13,300	53.0	13,200	53.5	13,200
80	39.5	12,300	41.0	12,300	41.5	12,200			48.0	12,500	49.0	12,500	50.0	12,400	50.5	12,400
85	35.0	11,600	36.5	11,500	37.0	11,500			44.5	11,700	46.0	11,700	46.5	11,700	47.0	11,700
90	30.0	10,900	31.0	10,900	32.0	10,900			41.0	11,100	42.5	11,000	43.0	11,000		
95	23.5	10,300	25.0	10,300					37.5	10,400	38.5	10,400	39.5	10,400		
100	14.5	9,800	16.5	9,800					33.0	9,800	34.5	9,800	35.0	9,800		
105									28.5	9,300	29.5	9,300	30.5	9,300		
110									22.5	8,800	24.0	8,800				
115									14.0	8,400	15.5	8,400				
Min.Bm. Ang./Cap.	0.0	8,000	0.0	8,000	0.0	8,000	0.0	8,100	0.0	6,700	0.0	6,700	0.0	6,700	0.0	6,800
Radius	102.5		102.8		102.5		101.8		117.5		117.8		117.5		116.8	

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C B A A Lower Fully Extended EM1 360°																
10' Offset Fly Capacities																
Load Radius (ft)	131.6' Boom								147.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
25	78.0	15,500	79.0	15,700												
30	76.0	15,500	77.0	15,700	78.0	16,400	78.5	17,500	77.5	12,800	78.5	13,000	79.0	13,500		
35	74.0	15,500	75.0	15,700	76.0	16,400	76.5	17,500	75.5	12,800	76.5	13,000	77.5	13,500	78.0	14,500
40	72.0	15,500	73.0	15,700	74.0	16,400	74.5	17,500	74.0	12,800	75.0	13,000	75.5	13,500	76.5	14,500
45	70.0	15,500	71.0	15,700	72.0	16,400	72.5	17,400	72.0	12,800	73.0	13,000	74.0	13,500	74.5	14,500
50	68.0	15,500	69.0	15,700	70.0	16,100	70.5	16,100	70.5	12,800	71.5	13,000	72.0	13,500	73.0	14,500
55	66.0	15,100	67.0	15,000	67.5	15,000	68.5	14,900	68.5	12,800	69.5	13,000	70.5	13,500	71.0	14,500
60	63.5	14,000	64.5	13,900	65.5	13,900	66.0	13,900	67.0	12,800	67.5	13,000	68.5	13,500	69.0	13,900
65	61.5	13,000	62.5	13,000	63.0	12,900	63.5	12,900	65.0	12,800	65.5	12,900	66.5	12,900	67.0	12,900
70	59.0	12,100	60.0	12,100	61.0	12,100	61.5	12,100	63.0	12,000	63.5	12,000	64.5	12,000	65.0	12,000
75	56.5	11,300	57.5	11,300	58.5	11,300	59.0	11,300	60.5	11,200	61.5	11,200	62.5	11,200	63.0	11,200
80	54.0	10,500	55.0	10,500	56.0	10,500	56.5	10,500	58.5	10,400	59.5	10,500	60.0	10,500	60.5	10,500
85	51.5	9,900	52.5	9,900	53.0	9,900	53.5	9,900	56.5	9,700	57.0	9,800	58.0	9,800	58.5	9,800
90	48.5	9,200	49.5	9,200	50.5	9,200	51.0	9,200	54.0	9,100	55.0	9,100	55.5	9,200	56.0	9,200
95	46.0	8,600	47.0	8,700	47.5	8,700	48.0	8,700	51.5	8,500	52.5	8,500	53.5	8,600	54.0	8,600
100	43.0	8,100	44.0	8,100	44.5	8,100	45.0	8,100	49.5	8,000	50.0	8,000	51.0	8,000	51.5	8,000
105	39.5	7,600	40.5	7,600	41.5	7,600			46.5	7,400	47.5	7,500	48.5	7,500	48.5	7,500
110	36.0	7,100	37.0	7,200	38.0	7,200			44.0	7,000	45.0	7,000	45.5	7,000	46.0	7,000
115	32.0	6,700	33.0	6,700	34.0	6,700			41.0	6,500	42.0	6,600	42.5	6,600		
120	27.5	6,300	29.0	6,300					38.0	6,100	39.0	6,100	39.5	6,100		
125	22.5	5,900	23.5	6,000					35.0	5,700	35.5	5,700	36.5	5,800		
130	15.0	5,600	16.0	5,600					31.0	5,300	32.0	5,400	32.5	5,400		
135									27.0	5,000	28.0	5,000				
140									22.0	4,700	23.0	4,700				
145									15.0	4,400	16.5	4,400				
Min.Bm. Ang./Cap.	0.0	5,500	0.0	5,500	0.0	5,500	0.0	5,500	0.0	4,200	0.0	4,200	0.0	4,200	0.0	4,300
Radius	133.1		133.4		133.1		132.3		148.5		148.8		148.5		147.7	

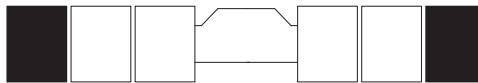
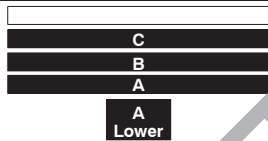
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	163.1' Boom								179.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)	⚡	(lb)
30	79.0	10,500														
35	77.0	10,500														
40	75.5	10,500														
45	74.0	10,500														
50	72.5	10,500														
55	71.0	10,500														
60	69.5	10,500														
65	67.5	10,500														
70	66.0	10,400														
75	64.0	9,600														
80	62.5	8,900														
85	60.5	8,300														
90	58.5	7,700														
95	56.5	7,100														
100	54.5	6,600														
105	52.0	6,100														
110	50.0	5,600														
115	47.5	5,200														
120	45.5	4,800														
125	42.5	4,400														
130	40.0	4,100														
135	37.0	3,700														
140	34.0	3,400														
145	30.5	3,100														
150	27.0	2,900														
155	22.5	2,600														
160	16.5	2,400														
165																
170																
175																
180																
Min. Bm. Ang./Cap.	0.0	2,200	0.0	2,200	0.0	2,200	0.0	2,200	0.0	1,500	0.0	1,500	0.0	1,500	0.0	1,500
Radius	164.6		164.9		164.6		163.8		180.5		180.8		180.5		179.7	

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C B A A Lower Fully Extended EM1 360°								
10' Offset Fly Capacities								
Load Radius (ft)	195.4' Boom							
	2		15		30		45	
	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)
40	78.5	8,100						
45	77.0	8,100						
50	76.0	8,100	78.0	8,200	78.5	8,600	78.0	9,200
55	74.5	8,100	76.5	8,200	77.0	8,600	76.5	9,200
60	73.5	8,100	75.5	8,200	76.0	8,600	75.0	9,200
65	72.0	8,100	74.0	8,200	74.5	8,600	74.0	9,200
70	71.0	8,100	73.0	8,200	73.5	8,600	70.0	9,200
75	69.5	8,100	71.5	8,200	72.0	8,600	72.5	9,200
80	68.0	8,100	70.0	8,200	70.5	8,600	71.5	9,200
85	67.0	8,100	69.0	8,200	69.5	8,600	70.0	9,200
90	65.5	8,100	67.5	8,200	68.0	8,600	68.5	9,200
95	64.0	8,100	66.0	8,200	66.5	8,600	67.0	9,200
100	62.5	7,900	64.5	8,200	65.0	8,600	65.5	8,800
105	61.0	7,300	63.0	8,000	63.5	8,100	64.0	8,100
110	59.0	6,700	61.5	7,400	62.0	7,500	62.5	7,500
115	57.5	6,100	60.0	6,800	60.5	6,900	60.5	6,900
120	55.5	5,600	58.0	6,300	58.5	6,300	59.0	6,400
125	54.0	5,200	56.5	5,700	57.0	5,800	57.0	5,900
130	52.0	4,700	54.5	5,300	55.0	5,300	55.5	5,400
135	50.0	4,300	52.5	4,800	53.0	4,900	53.5	4,900
140	48.0	3,900	50.5	4,400	51.0	4,400	51.5	4,500
145	46.0	3,500	49.0	4,000	49.5	4,000	49.5	4,100
150	44.0	3,100	46.5	3,600	47.0	3,600	47.5	3,700
155	41.5	2,600	44.5	3,200	45.0	3,200	45.5	3,300
160	39.0	2,200	42.0	2,700	42.5	2,800		
165	36.5	1,800	40.0	2,300	40.5	2,300		
170	34.0	1,400	37.0	1,900	37.5	1,900		
175	31.0	1,100	34.5	1,500	35.0	1,600		
175	31.0	1,100	31.5	1,200	32.0	1,200		
Min.Bm. Ang./Cap.	30.0		30.0		29.5		29.5	
Radius	176.7		177.5		178.3		178.3	

2025010



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T3P0004

D C B A A Lower																
Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								56.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	$\angle$ °	(lb)	$\angle$ °	(lb)	$\angle$ °	(lb)	$\angle$ °	(lb)	$\angle$ °	(lb)	$\angle$ °	(lb)	$\angle$ °	(lb)	$\angle$ °	(lb)
10	71.0	71,600	73.5	71,600	76.0	71,600	78.0	62,700	75.5	71,600	77.5	71,600	79.0	71,600		
12	68.5	71,600	71.0	71,600	73.5	70,200	75.5	61,700	73.5	71,600	75.5	71,600	77.5	71,600	79.0	62,700
15	65.0	71,600	67.5	71,600	70.0	66,700	72.0	59,900	71.0	71,600	73.0	71,600	74.5	70,400	76.0	61,700
20	59.0	71,600	61.5	71,600	63.5	62,700	65.5	57,200	66.0	71,600	68.5	71,600	70.0	65,900	71.5	59,400
25	52.0	71,600	55.0	66,600	57.0	60,100	58.5	54,800	61.5	71,600	63.5	71,600	65.0	62,700	66.5	57,200
30	44.5	71,600	47.5	62,700	49.5	57,100	51.0	53,200	56.5	71,600	58.5	68,500	60.0	61,100	61.5	55,200
35	36.0	63,200	38.5	60,600	40.5	55,200			51.0	65,400	53.0	62,800	54.5	58,500	56.0	53,700
40	24.0	51,600	27.5	52,000					44.5	53,700	47.0	54,100	48.5	54,500	50.0	52,700
45									38.0	45,100	40.0	45,500	41.5	45,800		
50									29.5	38,600	32.0	38,900	33.5	39,100		
55									17.5	33,500	20.5	33,700				
Min.Bm. Ang./Cap.	0.0	32,500	0.0	32,200	0.0	32,700	0.0	34,100	0.0	18,000	0.0	17,900	0.0	18,100	0.0	18,600
Radius	43.9		44.3		44.1		43.5		57.5		57.8		57.6		57	

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TCC-1400

D C B A A Lower		Fully Extended		EM 2		360°															
10' Offset Fly Capacities																					
Load Radius (ft)	68.3' Boom								82.0' Boom												
	2°		15°		30°		45°		2°		15°		30°		45°						
	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)					
10	78.0	71,500																			
12	76.5	71,500	78.5	71,500																	
15	74.5	71,500	76.0	71,500	77.5	71,500	79.0	62,500	77.5	71,400	79.0	71,400									
20	71.0	71,500	72.5	67,700	74.0	63,800	75.5	60,500	74.5	70,000	76.0	66,700	77.0	63,900	78.0	61,100					
25	67.0	63,100	68.5	60,000	70.0	57,000	71.5	54,700	71.0	61,700	72.5	59,200	74.0	57,000	75.0	55,300					
30	63.0	56,200	64.5	53,400	66.0	51,100	67.0	49,400	68.0	54,600	69.0	52,600	70.5	51,000	71.5	49,600					
35	58.5	50,300	60.5	48,100	61.5	46,300	63.0	45,000	64.5	48,900	66.0	47,300	67.0	46,000	68.0	45,000					
40	54.0	45,500	56.0	43,800	57.0	42,400	58.5	41,800	61.0	44,200	62.0	42,900	63.5	41,900	64.5	41,600					
45	49.0	41,800	51.0	40,500	52.5	39,400	53.5	38,700	57.0	40,800	58.5	39,700	59.5	38,900	60.5	38,300					
50	44.0	38,500	46.0	37,400	47.0	36,600	48.0	36,000	53.0	37,400	54.5	36,500	56.0	35,800	56.5	35,400					
55	38.0	34,600	40.0	34,700	41.5	34,100			49.0	34,500	50.5	33,800	51.5	33,200	52.5	32,900					
60	31.0	30,400	33.0	30,600	34.5	30,800			44.5	30,800	46.0	31,100	47.0	31,000	48.0	30,700					
65	22.5	27,000	24.5	27,100					39.5	27,300	41.0	27,500	42.0	27,700							
70									34.0	24,400	35.5	24,600	36.5	24,700							
75									27.0	22,000	29.0	22,100	30.0	22,200							
80									18.0	19,900	20.0	20,000									
Min.Bm. Ang./Cap.	0.0	11,800	0.0	11,700	0.0	11,800	0.0	12,000	0.0	10,300	0.0	10,200	0.0	10,300	0.0	10,500					
Radius	69.8		70.1		69.9		69.2		83.5		83.8		83.6		82.8						

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T3P0004

D C B A A Lower																
Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	95.0' Boom								110.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
20	77.0	59,700	78.0	57,600	79.5	55,700			78.5	48,100						
25	74.0	52,400	75.5	50,800	76.5	49,300	77.5	48,200	77.0	48,100	77.5	48,100	79.0	48,100		
30	71.0	46,600	72.5	45,300	73.5	44,200	74.5	43,300	74.5	47,300	75.5	46,300	76.5	45,400	77.5	44,700
35	68.5	41,800	69.5	41,200	70.5	40,300	71.5	39,600	72.0	42,600	73.0	41,800	74.0	41,400	75.0	40,800
40	65.5	38,200	66.5	37,400	67.5	36,700	68.5	36,100	69.5	39,000	70.5	38,300	71.5	37,800	72.0	37,300
45	62.0	34,800	63.5	34,100	64.5	33,600	65.5	33,100	66.5	35,600	68.0	35,100	69.0	34,600	69.5	34,200
50	59.0	31,900	60.5	31,400	61.5	30,900	62.0	30,600	64.0	32,700	65.0	32,200	66.0	31,900	67.0	31,600
55	55.5	29,400	57.0	29,000	58.0	28,600	59.0	28,300	61.5	30,200	62.5	29,800	63.5	29,500	64.0	29,200
60	52.0	27,300	53.5	26,900	54.5	26,600	55.0	26,400	58.5	27,900	59.5	27,600	60.5	27,400	61.0	27,200
65	48.5	25,300	50.0	25,000	51.0	24,800	51.5	24,600	55.5	26,000	56.5	25,700	57.5	25,500	58.0	25,400
70	44.5	23,700	46.0	23,400	47.0	23,200	47.5	23,100	52.5	24,200	53.5	24,000	54.5	23,900	55.0	23,700
75	40.5	22,200	41.5	22,000	42.5	21,800			49.0	22,000	50.0	22,200	51.0	22,300	52.0	22,300
80	35.5	20,100	36.5	20,200	37.5	20,300			45.5	19,900	46.5	20,000	47.5	20,200	48.0	20,300
85	30.0	18,200	31.5	18,400	32.0	18,500			41.5	18,000	43.0	18,200	44.0	18,300		
90	23.0	16,700	24.5	16,800					37.5	16,500	39.0	16,700	39.5	16,800		
95	12.0	15,300							33.5	15,100	34.5	15,200	35.5	15,300		
100									28.0	13,800	29.5	13,900	30.0	14,000		
105									21.5	12,700	23.0	12,800				
110									11.5	11,700						
Min.Bm. Ang./Cap.	0.0	9,000	0.0	9,000	0.0	9,000	0.0	9,200	0.0	7,500	0.0	7,500	0.0	7,500	0.0	7,700
Radius	96.5		96.8		96.5		95.8		111.5		111.8		111.5		110.8	

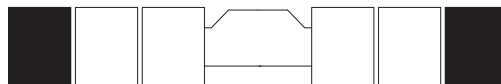
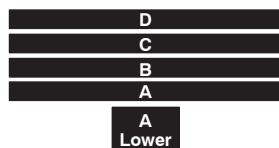
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	122.6' Boom								138.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
25	78.0	37,700														
30	76.5	37,700	77.0	37,700	78.0	37,700	79.0	37,700	78.0	35,800	79.0	35,900				
35	74.0	37,700	75.0	37,700	76.0	37,700	77.0	37,300	76.0	35,800	77.0	35,900	78.0	35,900	79.0	35,900
40	72.0	35,300	73.0	34,800	74.0	34,400	74.5	34,000	74.5	35,500	75.5	35,100	76.0	34,700	77.0	34,500
45	69.5	32,200	70.5	31,800	71.5	31,500	72.5	31,200	72.5	32,400	73.5	32,100	74.0	31,800	75.0	31,600
50	67.5	29,500	68.5	29,200	69.0	28,900	70.0	28,700	70.5	29,800	71.5	29,500	72.0	29,300	73.0	29,100
55	65.0	27,200	66.0	26,900	67.0	26,700	67.5	26,600	68.5	27,400	69.0	27,200	70.0	27,100	70.5	26,900
60	62.5	25,200	63.5	25,000	64.5	24,800	65.0	24,600	66.0	25,400	67.0	25,200	68.0	25,100	68.5	25,000
65	60.0	23,400	61.0	23,200	61.5	23,000	62.5	22,900	64.0	23,500	65.0	23,400	65.5	23,300	66.5	23,200
70	57.0	21,700	58.5	21,600	59.0	21,500	59.5	21,400	62.0	21,900	62.5	21,800	63.5	21,700	64.0	21,700
75	54.5	20,600	55.5	20,500	56.5	20,400	57.0	20,300	59.5	20,700	60.5	20,600	61.0	20,600	61.5	20,500
80	51.5	19,300	52.5	19,200	53.5	19,100	54.0	19,100	57.0	19,100	58.0	19,300	59.0	19,300	59.5	19,200
85	48.5	17,800	50.0	18,000	50.5	18,000	51.0	17,900	54.5	17,500	55.5	17,700	56.0	17,600	56.5	17,800
90	45.5	16,400	46.5	16,500	47.0	16,700	47.5	16,700	52.0	15,900	53.0	16,000	53.5	16,200	54.0	16,300
95	42.0	14,900	43.0	15,100	44.0	15,200			49.0	14,400	50.0	14,600	51.0	14,700	51.5	14,800
100	38.5	13,700	39.5	13,800	40.5	13,900			46.0	13,200	47.0	13,300	48.0	13,400	48.5	13,500
105	34.5	12,500	35.5	12,600	36.0	12,700			43.5	12,000	44.0	12,200	45.0	12,300	45.5	12,300
110	30.0	11,500	31.0	11,600	31.5	11,600			40.0	11,000	41.0	11,100	42.0	11,200		
115	24.5	10,600	25.5	10,600					36.5	10,100	38.0	10,200	38.5	10,200		
120	17.0	9,700	19.0	9,800					33.0	9,200	34.0	9,300	34.5	9,400		
125									28.5	8,400	30.0	8,500	30.5	8,600		
130									24.0	7,700	25.0	7,800				
135									17.0	7,100	18.5	7,200				
Min.Bm. Ang./Cap.	0.0	6,400	0.0	6,400	0.0	6,500	0.0	6,600	0.0	5,000	0.0	5,000	0.0	5,100	0.0	5,100
Radius	124.1		124.4		124.1		123.3		139.5		139.8		139.5		138.7	

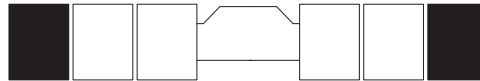
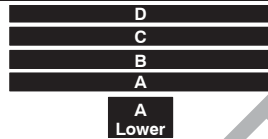
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	151.1' Boom								166.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
30	79.0	30,100	80.0	30,600					79.0	26,700	79.5	27,100				
35	77.5	30,100	78.5	30,600	79.5	32,000										
40	76.0	30,100	77.0	30,600	78.0	32,000	78.5	32,000	77.5	26,700	78.5	27,100	79.0	28,500	80.0	29,000
45	74.5	29,900	75.5	29,700	76.0	29,500	76.5	29,400	76.0	26,700	77.0	27,100	78.0	28,500	78.5	29,000
50	72.5	27,400	73.5	27,300	74.0	27,100	75.0	27,000	74.5	26,700	75.5	27,100	76.5	28,500	77.0	28,400
55	70.5	25,200	71.5	25,100	72.5	25,000	73.0	24,900	73.5	26,700	74.0	26,700	75.0	26,500	75.5	26,300
60	69.0	23,300	69.5	23,200	70.5	23,100	71.0	23,100	71.5	25,000	72.5	24,800	73.0	24,600	73.5	24,500
65	67.0	21,500	67.5	21,500	68.5	21,400	69.0	21,400	70.0	23,200	70.5	23,100	71.5	23,000	72.0	22,800
70	65.0	20,300	65.5	20,200	66.5	20,200	67.0	20,100	68.0	21,600	69.0	21,500	69.5	21,400	70.0	21,300
75	63.0	18,900	63.5	18,800	64.5	18,800	65.0	18,800	66.0	20,000	67.0	20,300	67.5	20,200	68.0	20,200
80	60.5	17,600	61.5	17,600	62.0	17,500	62.5	17,500	64.0	17,900	65.0	18,200	65.5	18,400	66.0	18,600
85	58.5	16,400	59.5	16,400	60.0	16,400	60.5	16,400	62.0	16,400	63.0	16,600	63.5	16,800	64.0	17,000
90	56.5	15,400	57.0	15,400	58.0	15,400	58.5	15,400	60.0	14,800	61.0	15,000	61.5	15,200	62.0	15,300
95	54.0	14,100	54.5	14,200	55.5	14,400	56.0	14,400	58.0	13,300	59.0	13,500	59.5	13,700	60.0	13,800
100	51.5	12,800	52.5	13,000	53.0	13,100	53.5	13,200	56.0	12,100	57.0	12,300	57.5	12,400	58.0	12,500
105	49.0	11,700	50.0	11,800	50.5	11,900	51.0	12,000	53.5	10,900	54.5	11,100	55.5	11,300	56.0	11,400
110	46.0	10,600	47.5	10,800	48.0	10,900	48.5	11,000	51.5	9,900	52.5	10,100	53.0	10,200	53.5	10,300
115	43.5	9,700	44.5	9,800	45.0	9,900	45.5	10,000	49.5	9,000	50.0	9,100	50.5	9,300	51.0	9,300
120	40.5	8,900	41.5	9,000	42.0	9,100			46.5	8,200	48.0	8,300	48.5	8,400	48.5	8,500
125	37.5	8,100	38.5	8,200	39.0	8,300			44.5	7,400	45.0	7,500	45.5	7,600	46.0	7,700
130	34.0	7,400	35.0	7,500	36.0	7,500			42.0	6,700	42.5	6,800	43.0	6,900		
135	30.5	6,700	31.5	6,800	32.0	6,900			39.0	6,000	40.0	6,100	40.5	6,200		
140	26.0	6,100	27.0	6,200					36.0	5,400	37.0	5,500	37.5	5,600		
145	21.0	5,600	22.0	5,600					33.0	4,900	33.5	5,000	34.0	5,000		
150	13.5	5,100							29.5	4,400	30.0	4,400	30.5	4,500		
155									25.0	3,900	26.0	4,000				
160									20.0	3,500	21.0	3,500				
165									13.0	3,100						
Min.Bm. Ang./Cap.	0.0	4,000	0.0	4,000	0.0	4,000	0.0	4,000	0.0	2,600	0.0	2,600	0.0	2,600	0.0	2,700
Radius	152.6		152.9		152.6		151.8		167.5		167.8		167.5		166.7	

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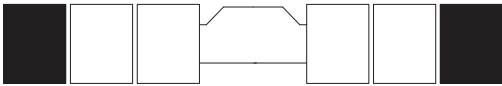
D C B A A Lower Fully Extended EM2 360°								
10' Offset Fly Capacities								
Load Radius (ft)	180.4' Boom							
	2		15		30		45	
	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)
35	80.0	23,500						
40	79.0	23,500	79.5	24,000				
45	77.5	23,500	78.5	24,000	79.0	25,200	80.0	25,900
50	76.5	23,500	77.0	24,000	78.0	25,200	79.0	25,900
55	75.0	23,500	76.0	24,000	77.0	25,200	77.5	25,900
60	74.0	23,500	74.5	24,000	75.5	25,200	76.0	25,600
65	72.5	23,500	73.5	24,000	74.0	24,100	74.5	24,000
70	70.5	21,800	71.5	22,200	72.0	22,400	73.0	22,500
75	69.0	19,400	69.5	19,700	70.5	20,000	71.0	20,200
80	67.0	17,600	67.5	17,600	68.5	17,800	69.0	18,000
85	65.5	15,800	66.0	16,000	66.5	16,200	67.0	16,400
90	63.5	14,200	64.5	14,400	65.0	14,600	65.5	14,700
95	61.5	12,700	62.5	13,000	63.0	13,100	63.0	13,300
100	60.0	11,500	60.5	11,700	61.0	11,800	61.5	12,000
105	57.5	10,300	58.5	10,500	59.5	10,700	59.5	10,800
110	56.0	9,300	56.5	9,500	57.0	9,600	57.5	9,800
115	54.0	8,400	54.5	8,600	55.0	8,700	55.5	8,800
120	52.0	7,600	52.5	7,700	53.0	7,800	53.5	7,900
125	49.5	6,800	50.0	6,900	51.0	7,100	51.0	7,100
130	47.5	6,100	48.0	6,200	48.5	6,300	49.0	6,400
135	45.0	5,500	46.0	5,600	46.5	5,700	47.0	5,700
140	42.5	4,900	43.5	5,000	44.0	5,100		
145	40.0	4,300	41.0	4,400	41.5	4,500		
150	37.5	3,800	38.5	3,900	39.0	4,000		
155	35.0	3,300	35.5	3,400	36.0	3,500		
160	31.5	2,900	32.5	2,900	32.5	3,000		
165	28.0	2,500	29.0	2,500				
170	24.0	2,100	25.0	2,100				
175	19.0	1,700	20.0	1,800				
180	12.0	1,400						
Min Bm. Ang./Cap.	0.0	1,400	0.0	1,400	0.0	1,400	0.0	1,400
Radius	181.9		182.2		181.9		181.1	

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C B A A Lower    Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								56.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
10	71.0	71,600	73.5	71,600	76.0	71,600	78.0	62,700	75.5	71,600	77.5	71,600	79.0	71,600		
12	68.5	71,600	71.0	71,600	73.5	70,200	75.5	61,700	73.5	71,600	75.5	71,600	77.5	71,600	79.0	62,700
15	65.0	71,600	67.5	71,600	70.0	66,700	72.0	59,900	71.0	71,600	73.0	71,600	74.5	70,400	76.0	61,700
20	59.0	71,600	61.5	71,600	63.5	62,700	65.5	57,200	66.0	71,600	68.5	71,600	70.0	65,900	71.5	59,400
25	52.0	71,600	55.0	66,600	57.0	60,100	58.5	54,800	61.5	71,600	63.5	71,600	65.0	62,700	66.5	57,200
30	44.5	71,600	47.5	62,700	49.5	57,100	51.0	53,200	56.5	71,600	58.5	68,500	60.0	61,100	61.5	55,200
35	35.5	59,400	38.5	60,000	40.5	55,200			51.0	61,600	53.0	62,200	54.5	58,500	56.0	53,700
40	24.0	48,400	27.5	48,800					44.5	50,500	47.0	51,000	48.5	51,400	49.5	51,700
45									37.5	42,400	40.0	42,700	41.5	43,000		
50									29.5	36,100	32.0	36,400	33.5	36,600		
55									17.5	31,400	20.5	31,500				
Min.Bm. Ang./Cap.	0.0	32,500	0.0	32,200	0.0	32,700	0.0	34,100	0.0	18,000	0.0	17,900	0.0	18,100	0.0	18,600
Radius	43.9		44.3		44.1		43.5		57.5		57.8		57.6		57	

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C B A A Lower				Fully Extended		EM 2		360°								
10' Offset Fly Capacities																
Load Radius (ft)	68.3' Boom								82.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	↘ °	(lb)	↘ °	(lb)	↘ °	(lb)	↘ °	(lb)	↘ °	(lb)	↘ °	(lb)	↘ °	(lb)	↘ °	(lb)
10	78.0	71,500														
12	76.5	71,500	78.5	71,500												
15	74.5	71,500	76.0	71,500	77.5	71,500	79.0	62,500	77.5	71,400	79.0	71,400				
20	71.0	71,500	72.5	67,700	74.0	63,800	75.5	60,500	74.5	70,000	76.0	66,700	77.0	63,900	78.0	61,100
25	67.0	63,100	68.5	60,000	70.0	57,000	71.5	54,700	71.0	61,700	72.5	59,200	74.0	57,000	75.0	55,300
30	63.0	56,200	64.5	53,400	66.0	51,100	67.0	49,400	68.0	54,600	69.0	52,600	70.5	51,000	71.5	49,600
35	58.5	50,300	60.5	48,100	61.5	46,300	63.0	45,000	64.5	48,900	66.0	47,300	67.0	46,000	68.0	45,000
40	54.0	45,500	56.0	43,800	57.0	42,400	58.5	41,800	61.0	44,200	62.0	42,900	63.5	41,900	64.5	41,600
45	49.0	41,800	51.0	40,500	52.5	39,400	53.5	38,700	57.0	40,800	58.5	39,700	59.5	38,900	60.5	38,300
50	44.0	37,300	46.0	37,400	47.0	36,600	48.0	36,000	53.0	37,400	54.5	36,500	56.0	35,800	56.5	35,400
55	38.0	32,400	40.0	32,700	41.0	32,900			49.0	32,800	50.5	33,100	51.5	33,200	52.5	32,900
60	31.0	28,500	33.0	28,700	34.5	28,800			44.5	28,800	46.0	29,100	47.0	29,300	48.0	29,400
65	22.5	25,200	24.5	25,400					39.5	25,500	41.0	25,800	42.0	25,900		
70									34.0	22,800	35.5	23,000	36.5	23,100		
75									27.0	20,500	28.5	20,600	30.0	20,700		
80									18.0	18,500	20.0	18,600				
Min.Bm. Ang./Cap.	0.0	11,800	0.0	11,700	0.0	11,800	0.0	12,000	0.0	10,300	0.0	10,200	0.0	10,300	0.0	10,500
Radius	69.8		70.1		69.9		69.2		83.5		83.8		83.6		82.8	

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C B A A Lower Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	95.0' Boom								110.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
20	77.0	59,700	78.0	57,600	79.5	55,700			78.5	48,100						
25	74.0	52,400	75.5	50,800	76.5	49,300	77.5	48,200	77.0	48,100	77.5	48,100	79.0	48,100		
30	71.0	46,600	72.5	45,300	73.5	44,200	74.5	43,300	74.5	47,300	75.5	46,300	76.5	45,400	77.5	44,700
35	68.5	41,800	69.5	41,200	70.5	40,300	71.5	39,600	72.0	42,600	73.0	41,800	74.0	41,400	75.0	40,800
40	65.5	38,200	66.5	37,400	67.5	36,700	68.5	36,100	69.5	39,000	70.5	38,300	71.5	37,800	72.0	37,300
45	62.0	34,800	63.5	34,100	64.5	33,600	65.5	33,100	66.5	35,600	68.0	35,100	69.0	34,600	69.5	34,200
50	59.0	31,900	60.5	31,400	61.5	30,900	62.0	30,600	64.0	32,700	65.0	32,200	66.0	31,900	67.0	31,600
55	55.5	29,400	57.0	29,000	58.0	28,600	59.0	28,300	61.5	30,200	62.5	29,800	63.5	29,500	64.0	29,200
60	52.0	27,300	53.5	26,900	54.5	26,600	55.0	26,400	58.5	27,900	59.5	27,600	60.5	27,400	61.0	27,200
65	48.5	25,300	50.0	25,000	51.0	24,800	51.5	24,600	55.5	25,500	56.5	25,700	57.5	25,500	58.0	25,400
70	44.5	23,000	45.5	23,200	47.0	23,200	47.5	23,100	52.0	22,800	53.5	23,000	54.0	23,200	55.0	23,300
75	40.0	20,700	41.5	20,900	42.5	21,000			49.0	20,400	50.0	20,600	51.0	20,800	51.5	20,900
80	35.0	18,700	36.5	18,800	37.5	18,900			45.5	18,400	46.5	18,600	47.5	18,800	48.0	18,800
85	29.5	17,000	31.0	17,100	32.0	17,200			41.5	16,800	43.0	17,000	43.5	17,100		
90	23.0	15,500	24.5	15,600					37.5	15,300	39.0	15,400	39.5	15,500		
95	12.0	14,200							33.0	13,900	34.5	14,000	35.0	14,100		
100									28.0	12,700	29.0	12,800	30.0	12,900		
105									21.5	11,600	23.0	11,700				
110									11.5	10,700						
Min.Bm. Ang./Cap.	0.0	9,000	0.0	9,000	0.0	9,000	0.0	9,200	0.0	7,500	0.0	7,500	0.0	7,500	0.0	7,700
Radius	96.5		96.8		96.5		95.8		111.5		111.8		111.5		110.8	

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C B A A Lower Fully Extended																	
10' Offset Fly Capacities																	
Load Radius (ft)	122.6' Boom								138.0' Boom								
	2°		15°		30°		45°		2°		15°		30°		45°		
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	
25	78.0	37,700															
30	76.5	37,700	77.0	37,700	78.0	37,700	79.0	37,700	78.0	35,800	79.0	35,900					
35	74.0	37,700	75.0	37,700	76.0	37,700	77.0	37,300	76.0	35,800	77.0	35,900	78.0	35,900	79.0	35,900	
40	72.0	35,300	73.0	34,800	74.0	34,400	74.5	34,000	74.5	35,500	75.5	35,100	76.0	34,700	77.0	34,500	
45	69.5	32,200	70.5	31,800	71.5	31,500	72.5	31,200	72.5	32,400	73.5	32,100	74.0	31,800	75.0	31,600	
50	67.5	29,500	68.5	29,200	69.0	28,900	70.0	28,700	70.5	29,800	71.5	29,500	72.0	29,300	73.0	29,100	
55	65.0	27,200	66.0	26,900	67.0	26,700	67.5	26,600	68.5	27,400	69.0	27,200	70.0	27,100	70.5	26,900	
60	62.5	25,200	63.5	25,000	64.5	24,800	65.0	24,600	66.0	25,400	67.0	25,200	68.0	25,100	68.5	25,000	
65	60.0	23,400	61.0	23,200	61.5	23,000	62.5	22,900	64.0	23,500	65.0	23,400	65.5	23,300	66.5	23,200	
70	57.0	21,700	58.5	21,600	59.0	21,500	59.5	21,400	62.0	21,900	62.5	21,800	63.5	21,700	64.0	21,700	
75	54.5	20,300	55.5	20,500	56.5	20,400	57.0	20,300	59.0	19,700	60.0	19,900	61.0	20,100	61.5	20,300	
80	51.5	18,300	52.5	18,500	53.5	18,600	54.0	18,700	57.0	17,700	57.5	17,900	58.5	18,100	59.0	18,200	
85	48.5	16,700	49.5	16,800	50.5	17,000	51.0	17,100	54.0	16,100	55.5	16,300	56.0	16,500	56.5	16,600	
90	45.0	15,100	46.5	15,300	47.0	15,400	47.5	15,500	51.5	14,600	52.5	14,800	53.0	14,900	53.5	15,000	
95	42.0	13,800	43.0	13,900	43.5	14,000			49.0	13,300	50.0	13,400	50.5	13,600	51.0	13,600	
100	38.0	12,600	39.5	12,700	40.0	12,800			46.0	12,100	47.0	12,200	48.0	12,300	48.5	12,400	
105	34.5	11,500	35.5	11,600	36.0	11,700			43.0	11,000	44.0	11,100	44.5	11,200	45.0	11,300	
110	29.5	10,500	30.5	10,600	31.5	10,600			40.0	10,000	41.0	10,100	41.5	10,200			
115	24.5	9,600	25.5	9,700					36.5	9,100	37.5	9,200	38.0	9,300			
120	17.0	8,800	18.5	8,900					32.5	8,300	33.5	8,400	34.5	8,500			
125									28.5	7,600	29.5	7,700	30.0	7,700			
130									23.5	6,900	24.5	7,000					
135									17.0	6,300	18.5	6,400					
Min.Bm. Ang./Cap.	0.0	6,400	0.0	6,400	0.0	6,500	0.0	6,600	0.0	5,000	0.0	5,000	0.0	5,100	0.0	5,100	
Radius	124.1		124.4		124.1		123.3		139.5		139.8		139.5		138.7		

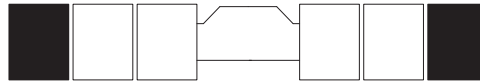
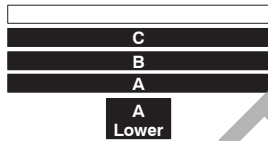
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	151.1' Boom								166.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
30	79.0	30,100	80.0	30,600					79.0	26,700	79.5	27,100				
35	77.5	30,100	78.5	30,600	79.5	32,000										
40	76.0	30,100	77.0	30,600	78.0	32,000	78.5	32,000	77.5	26,700	78.5	27,100	79.0	28,500	80.0	29,000
45	74.5	29,900	75.5	29,700	76.0	29,500	76.5	29,400	76.0	26,700	77.0	27,100	78.0	28,500	78.5	29,000
50	72.5	27,400	73.5	27,300	74.0	27,100	75.0	27,000	74.5	26,700	75.5	27,100	76.5	28,500	77.0	28,400
55	70.5	25,200	71.5	25,100	72.5	25,000	73.0	24,900	73.5	26,700	74.0	26,700	75.0	26,500	75.5	26,300
60	69.0	23,300	69.5	23,200	70.5	23,100	71.0	23,100	71.5	25,000	72.5	24,800	73.0	24,600	73.5	24,500
65	67.0	21,500	67.5	21,500	68.5	21,400	69.0	21,400	70.0	23,200	70.5	23,100	71.5	23,000	72.0	22,800
70	65.0	20,300	65.5	20,200	66.5	20,200	67.0	20,100	67.5	20,800	68.5	21,100	69.0	21,400	70.0	21,300
75	63.0	18,900	63.5	18,800	64.5	18,800	65.0	18,800	66.0	18,500	66.5	18,800	67.5	19,000	68.0	19,200
80	60.5	17,500	61.5	17,600	62.0	17,500	62.5	17,500	64.0	16,800	64.5	17,000	65.5	17,200	66.0	17,400
85	58.5	15,800	59.0	16,000	60.0	16,200	60.5	16,300	62.0	15,000	62.5	15,300	63.5	15,500	64.0	15,600
90	56.0	14,200	57.0	14,400	57.5	14,600	58.0	14,700	60.0	13,500	61.0	13,700	61.5	13,900	62.0	14,100
95	53.5	12,900	54.5	13,100	55.5	13,200	56.0	13,300	57.5	12,200	58.5	12,400	59.0	12,500	60.0	12,700
100	51.0	11,700	52.0	11,900	52.5	12,000	53.0	12,100	55.5	11,000	56.5	11,100	57.0	11,300	57.5	11,400
105	48.5	10,600	49.5	10,800	50.5	10,900	50.5	11,000	53.5	9,900	54.5	10,100	55.0	10,200	55.5	10,300
110	46.0	9,600	47.0	9,800	47.5	9,900	48.0	10,000	51.5	8,900	52.0	9,100	52.5	9,200	53.5	9,300
115	43.5	8,700	44.0	8,900	45.0	9,000	45.5	9,000	49.0	8,000	50.0	8,200	50.5	8,300	51.0	8,400
120	40.5	7,900	41.5	8,100	42.0	8,100			46.5	7,200	47.5	7,400	48.0	7,500	48.5	7,600
125	37.5	7,200	38.5	7,300	39.0	7,400			44.0	6,500	45.0	6,600	45.5	6,700	46.0	6,800
130	34.0	6,500	35.0	6,600	35.5	6,700			41.5	5,800	42.5	6,000	43.0	6,000		
135	30.0	5,900	31.0	6,000	31.5	6,100			39.0	5,200	39.5	5,300	40.0	5,400		
140	26.0	5,400	27.0	5,400					35.5	4,700	37.0	4,800	37.5	4,800		
145	21.0	4,800	22.0	4,900					32.5	4,100	33.5	4,200	34.0	4,300		
150	13.5	4,400							29.0	3,600	30.0	3,700	30.5	3,800		
155									25.0	3,200	26.0	3,300				
160									20.0	2,800	21.0	2,800				
165									13.0	2,400						
Min.Bm. Ang./Cap.	0.0	4,000	0.0	4,000	0.0	4,000	0.0	4,000	0.0	2,300	0.0	2,300	0.0	2,300	0.0	2,300
Radius	152.6		152.9		152.6		151.8		167.5		167.8		167.5		166.7	

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C B A A Lower Fully Extended								
10' Offset Fly Capacities								
Load Radius (ft)	180.4' Boom							
	2'		15'		30'		45'	
	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)
35	80.0	23,500						
40	79.0	23,500	79.5	24,000				
45	77.5	23,500	78.5	24,000	79.0	25,200	80.0	25,900
50	76.5	23,500	77.0	24,000	78.0	25,200	79.0	25,900
55	75.0	23,500	76.0	24,000	77.0	25,200	77.5	25,900
60	74.0	23,500	74.5	24,000	75.5	25,200	76.0	25,600
65	72.0	22,900	73.0	23,300	73.5	23,600	74.0	23,800
70	70.0	20,200	71.5	20,500	72.0	20,800	72.5	21,000
75	68.5	17,900	69.5	18,200	70.0	18,400	70.5	18,600
80	67.0	16,200	67.5	16,400	68.0	16,700	68.5	16,900
85	65.0	14,400	65.5	14,700	66.0	14,900	67.0	15,100
90	63.5	12,900	64.0	13,100	64.5	13,300	65.0	13,500
95	61.0	11,600	62.0	11,800	63.0	12,000	63.0	12,100
100	59.5	10,400	60.0	10,600	60.5	10,700	61.0	10,900
105	57.5	9,300	58.5	9,500	59.0	9,600	59.5	9,800
110	55.5	8,300	56.0	8,500	57.0	8,600	57.5	8,800
115	53.5	7,500	54.0	7,600	55.0	7,700	55.0	7,800
120	51.5	6,700	52.5	6,800	53.0	6,900	53.0	7,000
125	49.5	5,900	50.0	6,100	51.0	6,200	51.0	6,300
130	47.0	5,300	48.0	5,400	48.5	5,500	48.5	5,600
135	45.0	4,700	45.5	4,800	46.0	4,900	46.5	4,900
140	42.5	4,100	43.5	4,200	44.0	4,300		
145	40.0	3,600	40.5	3,700	41.5	3,700		
150	37.5	3,100	38.0	3,200	38.5	3,200		
155	34.5	2,600	35.5	2,700	36.0	2,800		
160	31.5	2,200	32.5	2,300	32.5	2,300		
165	28.0	1,800	28.5	1,900				
170	24.0	1,500	25.0	1,500				
175	19.0	1,100	20.0	1,200				
Min.Bm. Ang./Cap.	16.5		15.0		15.5		16.0	
Radius	176.7		178.3		178.3		177.5	

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D C B A A Lower																
Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								55.5' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)		(lb)
10	71.0	71,600	73.5	71,600	76.0	71,600	78.0	62,700	75.0	71,600	77.0	71,600	79.0	71,600		
12	68.5	71,600	71.0	71,600	73.5	70,200	75.5	61,700	73.5	71,600	75.5	71,600	77.5	71,600	79.0	62,700
15	65.0	71,600	67.5	71,600	70.0	66,700	72.0	59,900	70.5	71,600	72.5	71,600	74.5	70,300	76.0	61,600
20	59.0	71,600	61.5	71,600	63.5	62,700	65.5	57,200	66.0	71,600	68.0	71,600	70.0	65,800	71.5	59,300
25	52.0	71,600	55.0	66,600	57.0	60,100	58.5	54,800	61.0	71,600	63.0	71,600	65.0	62,700	66.5	57,100
30	44.5	71,600	47.5	62,700	49.5	57,100	51.0	53,200	56.0	71,600	58.0	68,200	60.0	61,000	61.0	55,100
35	36.0	63,200	38.5	60,600	40.5	55,200			50.5	65,300	52.5	63,700	54.5	58,300	55.5	53,600
40	24.0	51,600	27.5	52,000					44.0	53,700	46.5	54,100	48.0	54,400	49.5	52,700
45									37.0	45,100	39.5	45,400	41.0	45,700		
50									28.5	38,500	31.0	38,800	32.5	39,000		
55									16.0	33,500	19.0	33,600				
Min.Bm. Ang./Cap.	0.0	32,500	0.0	32,200	0.0	32,700	0.0	34,100	0.0	18,400	0.0	18,300	0.0	18,500	0.0	19,000
Radius	43.9		44.3		44.1		43.5		57		57.3		57.1		56.5	

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D C B A A Lower		Fully Extended		EM 3		360°															
10' Offset Fly Capacities																					
Load Radius (ft)	69.5' Boom								84.0' Boom												
	2°		15°		30°		45°		2°		15°		30°		45°						
	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)					
10	78.0	71,500																			
12	76.5	71,500	78.5	71,500	80.0	71,500			79.0	71,400											
15	74.5	71,500	76.0	71,500	77.5	71,500	79.0	62,700	77.0	71,400	78.5	71,400									
20	71.0	71,500	72.5	71,500	74.0	68,400	75.5	60,600	74.0	71,400	75.5	71,400	77.0	69,700	78.0	61,400					
25	67.0	71,500	69.0	71,500	70.5	64,900	71.5	58,900	71.0	71,400	72.5	71,400	74.0	66,600	75.0	59,800					
30	63.0	71,500	65.0	71,500	66.5	62,700	67.5	57,000	68.0	71,400	69.5	71,400	71.0	63,900	71.5	58,300					
35	59.0	66,000	61.0	66,700	62.0	61,400	63.0	55,300	64.5	65,900	66.5	66,500	67.5	62,700	68.5	56,600					
40	54.5	54,200	56.5	54,700	58.0	55,200	59.0	53,900	61.5	54,100	62.5	54,600	64.0	55,100	65.0	55,200					
45	50.0	45,700	51.5	46,200	53.0	46,500	54.0	46,800	57.5	45,600	59.0	46,000	60.0	46,400	61.0	46,700					
50	44.5	39,200	46.5	39,500	48.0	39,800	48.5	40,000	53.5	39,000	55.0	39,400	56.5	39,700	57.0	40,000					
55	39.0	34,100	40.5	34,400	42.0	34,600			49.5	34,000	51.0	34,300	52.0	34,600	53.0	34,800					
60	32.5	29,900	34.5	30,200	35.5	30,300			45.0	29,900	46.5	30,100	48.0	30,400	48.5	30,500					
65	24.0	26,500	26.0	26,700					40.5	26,400	42.0	26,700	43.0	26,800							
70	11.0	23,700							35.0	23,500	37.0	23,700	38.0	23,900							
75									29.0	21,100	31.0	21,200	32.0	21,400							
80									21.5	19,000	23.5	19,100									
85									7.5	17,300											
Min.Bm. Ang./Cap.	0.0	15,600	0.0	15,500	0.0	15,700	0.0	16,100	0.0	13,000	0.0	12,900	0.0	13,000	0.0	13,300					
Radius	71		71.3		71.1		70.4		85.5		85.8		85.6		84.8						

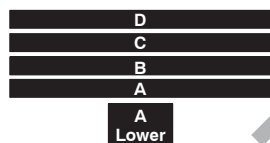
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Fully Extended



10' Offset Fly Capacities

Load Radius (ft)	97.1' Boom								112.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)
15	79.5	71,300														
20	77.0	67,800	78.0	65,600	79.5	63,600			79.0	60,900						
25	74.0	59,700	75.5	58,000	76.5	56,500	77.5	55,300	76.5	57,500	78.0	56,200	79.0	55,100	79.5	54,200
30	71.5	53,000	72.5	51,600	74.0	50,400	74.5	49,500	74.5	51,200	75.5	50,200	76.5	49,300	77.0	48,600
35	68.5	47,400	70.0	46,400	71.0	45,500	72.0	44,700	72.0	45,900	73.0	45,100	74.0	44,400	75.0	43,900
40	65.5	42,800	67.0	42,000	68.0	41,700	69.0	41,100	69.5	41,800	70.5	41,200	71.5	40,700	72.0	40,300
45	62.5	39,400	64.0	38,700	65.0	38,100	66.0	37,600	67.0	38,100	68.0	37,600	69.0	37,200	69.5	36,800
50	59.5	36,000	60.5	35,500	62.0	35,000	62.5	34,600	64.0	34,900	65.5	34,500	66.0	34,100	67.0	33,900
55	56.0	33,200	57.5	32,700	58.5	32,300	59.5	32,000	61.5	32,100	62.5	31,700	63.5	31,500	64.5	31,300
60	52.5	29,800	54.0	30,100	55.0	30,000	56.0	29,700	58.5	29,200	60.0	29,400	61.0	29,100	61.5	29,000
65	49.0	26,300	50.5	26,600	51.5	26,800	52.0	27,000	55.5	25,800	57.0	26,100	57.5	26,300	58.5	26,500
70	45.0	23,500	46.5	23,700	47.5	23,900	48.5	24,000	52.5	22,900	54.0	23,200	54.5	23,400	55.5	23,500
75	41.0	21,000	42.5	21,200	43.5	21,400			49.5	20,500	50.5	20,700	51.5	20,900	52.0	21,000
80	36.5	18,900	38.0	19,100	39.0	19,200			46.0	18,400	47.0	18,600	48.0	18,800	48.5	18,900
85	31.5	17,200	32.5	17,300	34.0	17,400			42.5	16,700	43.5	16,900	44.5	17,000	45.0	17,100
90	25.5	15,600	27.0	15,700					38.5	15,100	39.5	15,200	40.5	15,400		
95	17.0	14,200	18.5	14,200					34.5	13,600	35.5	13,800	36.5	13,900		
100									29.5	12,400	31.0	12,500	31.5	12,600		
105									23.5	11,300	25.0	11,400				
110									16.0	10,300	17.5	10,300				
Min.Bm. Ang./Cap.	0.0	11,000	0.0	10,900	0.0	11,000	0.0	11,200	0.0	8,800	0.0	8,700	0.0	8,800	0.0	9,000
Radius	98.6		98.9		98.6		97.9		113.5		113.8		113.5		112.8	

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D C B A A Lower		Fully Extended								EM 3		360°				
10' Offset Fly Capacities																
Load Radius (ft)	125.6' Boom								141.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)
25	78.5	48,700	79.5	49,100												
30	76.5	45,800	77.5	45,100	78.5	44,500	79.0	44,000	78.0	40,600	79.0	41,200				
35	74.5	41,400	75.0	40,900	76.0	40,400	77.0	40,000	76.5	40,600	77.5	41,200	78.5	42,000	79.0	41,600
40	72.0	37,400	73.0	37,000	74.0	36,700	74.5	36,400	75.0	39,700	75.5	39,100	76.5	38,600	77.0	38,100
45	70.0	34,000	71.0	33,700	71.5	33,400	72.5	33,200	73.0	36,400	74.0	35,900	74.5	35,400	75.0	35,100
50	67.5	31,100	68.5	30,800	69.5	30,600	70.0	30,500	71.0	33,500	72.0	33,100	72.5	32,700	73.0	32,400
55	65.0	28,500	66.0	28,300	67.0	28,200	67.5	28,000	69.0	30,900	70.0	30,600	70.5	30,300	71.0	30,000
60	63.0	26,300	64.0	26,100	64.5	26,000	65.5	25,900	66.5	27,900	67.5	28,300	68.5	28,100	69.0	27,900
65	60.5	24,300	61.5	24,200	62.0	24,100	63.0	24,000	64.5	24,500	65.5	24,800	66.0	25,200	66.5	25,400
70	57.5	22,500	59.0	22,400	59.5	22,400	60.0	22,300	62.0	21,600	63.0	22,000	64.0	22,200	64.5	22,500
75	55.0	20,100	56.0	20,300	56.5	20,500	57.5	20,700	60.0	19,200	60.5	19,500	61.5	19,800	62.0	19,900
80	52.0	18,000	53.0	18,200	54.0	18,400	54.5	18,500	57.0	17,300	58.5	17,600	59.0	17,600	59.5	17,800
85	49.0	16,300	50.0	16,500	51.0	16,700	51.5	16,800	55.0	15,500	56.0	15,800	56.5	16,000	57.0	16,100
90	46.0	14,700	47.0	14,900	48.0	15,100	48.5	15,200	52.5	13,900	53.5	14,100	54.0	14,300	54.5	14,400
95	43.0	13,300	44.0	13,500	45.0	13,600	45.5	13,700	49.5	12,500	51.0	12,700	51.5	12,900	52.0	13,000
100	39.5	12,000	40.5	12,200	41.5	12,300			47.0	11,300	48.0	11,400	48.5	11,600	49.0	11,700
105	36.0	10,900	37.0	11,000	37.5	11,100			44.5	10,100	45.0	10,300	46.0	10,400	46.5	10,500
110	31.5	9,900	33.0	10,000	33.5	10,100			41.0	9,100	42.5	9,300	43.0	9,400		
115	27.0	9,000	28.0	9,100					38.0	8,200	39.0	8,300	39.5	8,400		
120	21.0	8,100	22.5	8,200					34.5	7,400	35.5	7,500	36.0	7,600		
125	12.5	7,400							31.0	6,600	31.5	6,700	32.5	6,800		
130									26.0	5,900	27.0	6,000				
135									21.0	5,300	22.0	5,300				
140									13.0	4,700						
Min.Bm. Ang./Cap.	0.0	7,100	0.0	7,000	0.0	7,100	0.0	7,200	0.0	4,500	0.0	4,500	0.0	4,500	0.0	4,500
Radius	127.1		127.4		127.1		126.3		142.5		142.8		142.5		141.7	

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T3P0004

D C B A A Lower Fully Extended								
10' Offset Fly Capacities								
Load Radius (ft)	154.9' Boom							
	2'		15'		30'		45'	
		(lb)		(lb)		(lb)		(lb)
30	79.5	34,800						
35	78.0	34,800						
40	76.5	34,800						
45	75.5	34,800	79.0	35,500	80.0	36,900	79.0	37,500
50	74.0	34,800	77.5	35,500	78.5	36,900	77.5	36,000
55	71.5	31,400	76.0	35,500	77.0	36,500	76.0	33,500
60	69.5	27,200	74.5	34,400	75.0	33,900	74.0	31,200
65	67.5	23,800	72.5	31,800	73.5	31,600		
70	65.5	21,000	70.5	27,700	71.0	28,000	72.0	28,300
75	63.0	18,600	68.5	24,200	69.0	24,600	70.0	24,800
80	61.0	16,700	66.5	21,300	67.0	21,600	67.5	21,900
85	59.0	14,900	64.0	18,900	65.0	19,200	65.5	19,400
90	57.0	13,300	62.0	17,000	62.5	17,300	63.0	17,400
95	54.5	11,900	60.0	15,200	60.5	15,400	61.0	15,600
100	52.5	10,700	58.0	13,600	58.5	13,800	59.0	13,900
105	50.0	9,600	55.5	12,100	56.0	12,300	56.5	12,500
110	47.5	8,500	53.0	10,900	54.0	11,000	54.5	11,200
115	45.0	7,600	51.0	9,700	51.5	9,900	52.0	10,000
120	42.0	6,800	48.0	8,700	49.0	8,800	49.5	8,900
125	39.5	6,000	45.5	7,800	46.5	7,900	46.5	8,000
130	36.0	5,300	43.0	6,900	43.5	7,000		
135	32.5	4,700	40.0	6,200	41.0	6,200		
140	29.0	4,100	37.0	5,400	37.5	5,500		
145	24.5	3,600	33.5	4,800	34.0	4,900		
150	19.0	3,100	30.0	4,200	30.5	4,200		
155	10.5	2,600	25.5	3,600				
155			20.0	3,100				
Min.Bm. Ang./Cap.	0.0	2,500	0.0	2,500	0.0	2,500	0.0	2,600
Radius	156.4		156.7		156.4		155.6	

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TCC-1400

C B A A Lower Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								55.5' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)	⤵°	(lb)
10	71.0	71,600	73.5	71,600	76.0	71,600	78.0	62,700	75.0	71,600	77.0	71,600	79.0	71,600		
12	68.5	71,600	71.0	71,600	73.5	70,200	75.5	61,700	73.5	71,600	75.5	71,600	77.5	71,600	79.0	62,700
15	65.0	71,600	67.5	71,600	70.0	66,700	72.0	59,900	70.5	71,600	72.5	71,600	74.5	70,300	76.0	61,600
20	59.0	71,600	61.5	71,600	63.5	62,700	65.5	57,200	66.0	71,600	68.0	71,600	70.0	65,800	71.5	59,300
25	52.0	71,600	55.0	66,600	57.0	60,100	58.5	54,800	61.0	71,600	63.0	71,600	65.0	62,700	66.5	57,100
30	44.5	71,600	47.5	62,700	49.5	57,100	51.0	53,200	56.0	71,600	58.0	68,200	60.0	61,000	61.0	55,100
35	36.0	59,400	38.5	60,000	40.5	55,200			50.5	61,500	52.5	62,100	54.5	58,300	55.5	53,600
40	24.0	48,400	27.5	48,800					44.0	50,500	46.5	51,000	48.0	51,300	49.0	51,600
45									37.0	42,300	39.5	42,700	41.0	43,000		
50									28.5	36,100	31.0	36,400	32.5	36,600		
55									16.0	31,300	19.0	31,500				
Min.Bm. Ang./Cap.	0.0	32,500	0.0	32,200	0.0	32,700	0.0	34,100	0.0	18,400	0.0	18,300	0.0	18,500	0.0	19,000
Radius	43.9		44.3		44.1		43.5		57		57.3		57.1		56.5	

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T3P0004

C B A A Lower									EM 3		360°					
Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	69.5' Boom								84.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
10	78.0	71,500														
12	76.5	71,500	78.5	71,500	80.0	71,500			79.0	71,400						
15	74.5	71,500	76.0	71,500	77.5	71,500	79.0	62,700	77.0	71,400	78.5	71,400				
20	71.0	71,500	72.5	71,500	74.0	68,400	75.5	60,600	74.0	71,400	75.5	71,400	77.0	69,700	78.0	61,400
25	67.0	71,500	69.0	71,500	70.5	64,900	71.5	58,900	71.0	71,400	72.5	71,400	74.0	66,600	75.0	59,800
30	63.0	71,500	65.0	71,500	66.5	62,700	67.5	57,000	68.0	71,400	69.5	71,400	71.0	63,900	71.5	58,300
35	59.0	62,300	61.0	62,900	62.0	61,400	63.0	55,300	64.5	62,100	66.0	62,700	67.5	62,700	68.5	56,600
40	54.5	51,200	56.0	51,700	57.5	52,100	58.5	52,400	61.0	51,000	62.5	51,600	64.0	52,000	65.0	52,400
45	49.5	43,000	51.5	43,400	53.0	43,700	54.0	44,000	57.5	42,800	59.0	43,300	60.0	43,700	61.0	44,000
50	44.5	36,800	46.5	37,100	47.5	37,400	48.5	37,600	53.5	36,600	55.0	37,000	56.0	37,300	57.0	37,600
55	39.0	31,900	40.5	32,200	42.0	32,500			49.5	31,800	51.0	32,200	52.0	32,400	53.0	32,600
60	32.5	28,000	34.0	28,200	35.5	28,400			45.0	27,900	46.5	28,200	47.5	28,400	48.5	28,500
65	24.0	24,700	26.0	24,900					40.5	24,600	42.0	24,900	43.0	25,100		
70	10.5	22,100							35.0	21,900	37.0	22,100	38.0	22,200		
75									29.0	19,600	30.5	19,700	32.0	19,800		
80									21.5	17,700	23.0	17,800				
85									7.5	16,000						
Min.Bm. Ang./Cap.	0.0	15,600	0.0	15,500	0.0	15,700	0.0	16,100	0.0	13,000	0.0	12,900	0.0	13,000	0.0	13,300
Radius	71		71.3		71.1		70.4		85.5		85.8		85.6		84.8	

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C B A A Lower Fully Extended																
10' Offset Fly Capacities																
Load Radius (ft)	97.1' Boom								112.0' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	79.5	71,300														
20	77.0	67,800	78.0	65,600	79.5	63,600			79.0	60,900						
25	74.0	59,700	75.5	58,000	76.5	56,500	77.5	55,300	76.5	57,500	78.0	56,200	79.0	55,100	79.5	54,200
30	71.5	53,000	72.5	51,600	74.0	50,400	74.5	49,500	74.5	51,200	75.5	50,200	76.5	49,300	77.0	48,600
35	68.5	47,400	70.0	46,400	71.0	45,500	72.0	44,700	72.0	45,900	73.0	45,100	74.0	44,400	75.0	43,900
40	65.5	42,800	67.0	42,000	68.0	41,700	69.0	41,100	69.5	41,800	70.5	41,200	71.5	40,700	72.0	40,300
45	62.5	39,400	64.0	38,700	65.0	38,100	66.0	37,600	67.0	38,100	68.0	37,600	69.0	37,200	69.5	36,800
50	59.5	36,000	60.5	35,500	62.0	35,000	62.5	34,600	64.0	34,900	65.5	34,500	66.0	34,100	67.0	33,900
55	56.0	31,800	57.5	32,100	58.5	32,300	59.5	32,000	61.5	31,200	62.5	31,600	63.5	31,500	64.5	31,300
60	52.5	27,800	54.0	28,100	55.0	28,400	55.5	28,500	58.5	27,200	59.5	27,600	60.5	27,900	61.0	28,100
65	49.0	24,500	50.0	24,800	51.5	25,000	52.0	25,200	55.5	24,000	56.5	24,300	57.5	24,500	58.5	24,700
70	45.0	21,800	46.5	22,000	47.5	22,200	48.0	22,400	52.5	21,300	53.5	21,500	54.5	21,700	55.0	21,900
75	41.0	19,500	42.5	19,700	43.5	19,800			49.0	18,900	50.5	19,200	51.5	19,400	52.0	19,500
80	36.5	17,600	38.0	17,800	38.5	17,800			46.0	17,100	47.0	17,300	48.0	17,500	48.5	17,600
85	31.5	15,800	32.5	16,000	33.5	16,100			42.5	15,400	43.5	15,500	44.5	15,700	45.0	15,800
90	25.0	14,300	26.5	14,400					38.5	13,800	39.5	14,000	40.5	14,100		
95	17.0	13,000	18.5	13,100					34.0	12,500	35.5	12,600	36.0	12,700		
100									29.5	11,300	30.5	11,400	31.5	11,500		
105									23.5	10,200	25.0	10,300				
110									16.0	9,300	17.5	9,300				
Min.Bm. Ang./Cap.	0.0	11,000	0.0	10,900	0.0	11,000	0.0	11,200	0.0	8,700	0.0	8,700	0.0	8,700	0.0	8,800
Radius	98.6		98.9		98.6		97.9		113.5		113.8		113.5		112.8	

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C B A A Lower				Fully Extended				EM 3		360°						
10' Offset Fly Capacities																
Load Radius (ft)	125.6' Boom								141.0' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	⏏	(lb)	⏏	(lb)	⏏	(lb)	⏏	(lb)	⏏	(lb)	⏏	(lb)	⏏	(lb)	⏏	(lb)
25	78.5	48,700	79.5	49,100												
30	76.5	45,800	77.5	45,100	78.5	44,500	79.0	44,000	78.0	40,600	79.0	41,200				
35	74.5	41,400	75.0	40,900	76.0	40,400	77.0	40,000	76.5	40,600	77.5	41,200	78.5	42,000	79.0	41,600
40	72.0	37,400	73.0	37,000	74.0	36,700	74.5	36,400	75.0	39,700	75.5	39,100	76.5	38,600	77.0	38,100
45	70.0	34,000	71.0	33,700	71.5	33,400	72.5	33,200	73.0	36,400	74.0	35,900	74.5	35,400	75.0	35,100
50	67.5	31,100	68.5	30,800	69.5	30,600	70.0	30,500	71.0	33,500	72.0	33,100	72.5	32,700	73.0	32,400
55	65.0	28,500	66.0	28,300	67.0	28,200	67.5	28,000	68.5	29,900	69.5	30,300	70.5	30,300	71.0	30,000
60	63.0	26,300	64.0	26,100	64.5	26,000	65.5	25,900	66.5	25,900	67.5	26,300	68.0	26,700	69.0	27,000
65	60.0	23,600	61.0	23,900	62.0	24,100	63.0	24,000	64.0	22,700	65.0	23,100	66.0	23,400	66.5	23,600
70	57.5	20,900	58.5	21,100	59.5	21,400	60.0	21,600	62.0	20,000	63.0	20,300	63.5	20,600	64.0	20,800
75	54.5	18,500	56.0	18,800	56.5	19,000	57.5	19,200	59.5	17,700	60.5	18,000	61.0	18,200	62.0	18,400
80	52.0	16,700	53.0	17,000	54.0	17,200	54.5	17,300	57.0	15,900	58.0	16,200	59.0	16,400	59.5	16,600
85	49.0	15,000	50.0	15,200	51.0	15,400	51.5	15,500	54.5	14,200	56.0	14,400	56.5	14,600	57.0	14,800
90	46.0	13,500	47.0	13,700	48.0	13,800	48.5	13,900	52.0	12,700	53.0	12,900	54.0	13,100	54.5	13,200
95	43.0	12,100	44.0	12,300	44.5	12,400	45.0	12,500	49.5	11,300	50.5	11,500	51.5	11,700	51.5	11,800
100	39.5	10,900	40.5	11,100	41.5	11,200			47.0	10,200	48.0	10,300	48.5	10,500	49.0	10,600
105	35.5	9,800	37.0	10,000	37.5	10,100			44.0	9,100	45.0	9,200	45.5	9,400	46.0	9,500
110	31.5	8,900	32.5	9,000	33.5	9,100			41.0	8,100	42.0	8,300	42.5	8,400		
115	27.0	8,000	28.0	8,100					38.0	7,200	39.0	7,400	39.5	7,500		
120	21.0	7,200	22.5	7,300					34.5	6,400	35.5	6,600	36.0	6,600		
125	12.5	6,500							30.5	5,700	31.5	5,800	32.0	5,900		
130									26.0	5,100	27.0	5,200				
135									20.5	4,500	22.0	4,500				
140									13.0	3,900						
Min.Bm. Ang./Cap.	0.0	6,300	0.0	6,300	0.0	6,300	0.0	6,400	0.0	3,700	0.0	3,700	0.0	3,700	0.0	3,800
Radius	127.1		127.4		127.1		126.3		142.5		142.8		142.5		141.7	

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C B A A Lower Fully Extended EM3 360°								
10' Offset Fly Capacities								
Load Radius (ft)	154.9' Boom							
	2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
30	79.5	34,800						
35	78.0	34,800	79.0	35,500	80.0	36,900		
40	76.5	34,800	77.5	35,500	78.5	36,900	79.0	37,500
45	75.5	34,800	76.0	35,500	77.0	36,500	77.5	36,000
50	73.5	34,000	74.5	34,400	75.0	33,900	76.0	33,500
55	71.5	29,200	72.5	29,700	73.0	30,100	73.5	30,400
60	69.5	25,300	70.0	25,700	71.0	26,100	72.0	26,400
65	67.5	22,100	68.5	22,400	69.0	22,800	69.5	23,000
70	65.0	19,400	66.0	19,700	66.5	20,000	67.0	20,200
75	63.0	17,300	64.0	17,600	64.5	17,600	65.5	17,900
80	61.0	15,300	62.0	15,600	62.5	15,800	63.0	16,000
85	59.0	13,600	59.5	13,900	60.5	14,100	61.0	14,200
90	57.0	12,100	57.5	12,300	58.5	12,500	58.5	12,700
95	54.5	10,800	55.5	11,000	56.0	11,200	56.5	11,300
100	52.0	9,600	53.0	9,800	53.5	9,900	54.0	10,000
105	50.0	8,500	50.5	8,700	51.0	8,800	51.5	8,900
110	47.5	7,500	48.0	7,700	49.0	7,800	49.0	7,900
115	44.5	6,700	45.5	6,800	46.5	7,000	46.5	7,000
120	42.0	5,900	43.0	6,000	43.5	6,100		
125	39.0	5,100	40.0	5,300	40.5	5,400		
130	36.0	4,500	37.0	4,600	37.5	4,700		
135	32.5	3,900	33.5	4,000	34.0	4,100		
140	29.0	3,300	29.5	3,400	30.0	3,500		
145	24.5	2,800	25.5	2,900				
150	19.0	2,300	20.0	2,400				
155	10.5	1,900						
Min.Bm. Ang./Cap.	0.0	1,900	0.0	1,900	0.0	1,900	0.0	1,900
Radius	156.4		156.7		156.4		155.6	

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D C B A A Lower Fully Extended								
31' Offset Fly Capacities								
Load Radius (ft)	195.4' Boom							
	2'		15'		30'		45'	
	$\angle$	(lb)	$\angle$	(lb)	$\angle$	(lb)	$\angle$	(lb)
45	78.5	6,000						
50	77.5	6,000	79.5	6,100				
55	76.5	6,000	78.5	6,100				
60	75.0	6,000	77.0	6,100	79.0	6,500		
65	74.0	6,000	76.0	6,100	78.0	6,500	79.5	7,300
70	73.0	6,000	75.0	6,100	76.5	6,500	78.0	7,300
75	72.0	6,000	73.5	6,100	75.5	6,500	77.0	7,300
80	70.5	6,000	72.5	6,100	74.0	6,500	75.5	7,300
85	69.5	6,000	71.5	6,100	73.0	6,500	74.5	7,300
90	68.0	6,000	70.0	6,100	72.0	6,500	73.0	7,300
95	67.0	6,000	69.0	6,100	70.5	6,500	72.0	7,300
100	66.0	6,000	67.5	6,100	69.5	6,500	70.5	7,300
105	64.5	6,000	66.5	6,100	68.0	6,500	69.5	7,200
110	63.0	6,000	65.0	6,100	67.0	6,500	68.0	6,800
115	62.0	5,900	64.0	6,100	65.5	6,300	66.5	6,400
120	60.5	5,400	62.5	5,800	64.0	5,900	65.0	6,000
125	59.0	5,000	60.5	5,300	62.0	5,500	63.0	5,600
130	57.0	4,500	59.0	4,800	60.5	5,000	61.5	5,200
135	55.5	4,100	57.5	4,400	59.0	4,600	60.0	4,700
140	54.0	3,700	56.0	4,000	57.0	4,200	58.0	4,300
145	52.0	3,300	54.0	3,600	55.5	3,800	56.5	3,900
150	50.5	2,900	52.5	3,200	53.5	3,400	54.5	3,500
155	48.5	2,600	50.5	2,800	52.0	3,000	52.5	3,100
160	46.5	2,300	48.5	2,500	50.0	2,700	50.5	2,700
165	45.0	2,000	46.5	2,200	48.0	2,300	48.5	2,400
170	43.0	1,700	44.5	1,900	46.0	2,000	46.0	2,100
175	40.5	1,400	42.5	1,600	43.5	1,700		
180	38.5	1,100	40.0	1,300	41.5	1,400		
185					39.0	1,100		
Min. Bm. Ang./Cap.	37.5		38.0		38.0		38.0	
Radius	182.5		185		186.7		186.7	

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C B A A Lower Fully Extended EM1 360°								
31' Offset Fly Capacities								
Load Radius (ft)	195.4' Boom							
	2		15		30		45	
	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)
45	78.5	6,000						
50	77.5	6,000	79.5	6,100				
55	76.5	6,000	78.5	6,100				
60	75.0	6,000	77.0	6,100	79.0	6,500		
65	74.0	6,000	76.0	6,100	78.0	6,500	79.5	7,300
70	73.0	6,000	75.0	6,100	76.5	6,500	78.0	7,300
75	72.0	6,000	73.5	6,100	75.5	6,500	77.0	7,300
80	70.5	6,000	72.5	6,100	74.0	6,500	75.5	7,300
85	69.5	6,000	71.5	6,100	73.0	6,500	74.5	7,300
90	68.0	6,000	70.0	6,100	72.0	6,500	73.0	7,300
95	67.0	6,000	69.0	6,100	70.5	6,500	72.0	7,300
100	66.0	6,000	67.5	6,100	69.5	6,500	70.5	7,300
105	64.5	6,000	66.5	6,100	68.0	6,500	69.5	7,200
110	63.0	6,000	65.0	6,100	67.0	6,500	68.0	6,800
115	62.0	5,900	64.0	6,100	65.5	6,300	66.5	6,400
120	60.5	5,400	62.5	5,800	64.0	5,900	65.0	6,000
125	59.0	5,000	60.5	5,300	62.0	5,500	63.0	5,600
130	57.0	4,500	59.0	4,800	60.5	5,000	61.5	5,200
135	55.5	4,100	57.5	4,400	59.0	4,600	60.0	4,700
140	54.0	3,700	56.0	4,000	57.0	4,200	58.0	4,300
145	52.0	3,300	54.0	3,600	55.5	3,800	56.5	3,900
150	50.5	2,900	52.5	3,200	53.5	3,400	54.5	3,500
155	48.5	2,600	50.5	2,800	52.0	3,000	52.5	3,100
160	46.5	2,300	48.5	2,500	50.0	2,700	50.5	2,700
165	44.5	1,900	46.5	2,200	48.0	2,300	48.5	2,400
170	42.5	1,600	44.5	1,800	46.0	2,000	46.0	2,100
175	40.5	1,200	42.5	1,400	43.5	1,600		
180			40.0	1,100	41.0	1,200		
Min.Bm. Ang./Cap.	39.0		39.0		39.5		39.5	
Radius	178.3		181.7		183.3		183.7	

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T3P0004

D C B A A Lower																
Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								68.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	72.5	35,800	79.0	32,100					78.0	35,700						
20	68.5	35,800	74.5	29,300					75.0	35,700	79.5	31,000				
25	64.5	32,500	70.5	27,000	76.0	23,400			72.0	35,700	76.5	29,200				
30	60.0	29,500	66.0	25,100	71.5	22,100	76.0	20,100	69.5	34,100	73.5	27,600	77.5	23,400		
35	55.5	27,000	61.5	23,500	66.5	21,000	71.0	19,400	66.5	31,800	70.5	26,100	74.5	22,500	77.5	20,200
40	50.5	24,900	56.5	22,100	61.5	20,200	65.5	18,900	63.0	29,800	67.5	24,800	71.0	21,600	74.0	19,700
45	45.0	23,100	51.0	20,900	55.5	19,400	59.5	18,500	60.0	28,000	64.0	23,700	68.0	20,900	70.5	19,300
50	39.0	21,500	45.0	19,900	49.5	18,800	52.5	18,100	56.5	26,400	60.5	22,700	64.0	20,400	67.0	18,900
55	32.0	20,200	38.0	19,100	42.0	18,400			53.0	24,900	57.0	21,800	60.5	19,800	63.0	18,600
60	23.0	19,100	29.0	18,500	32.0	18,000			49.0	23,600	53.5	21,000	56.5	19,300	59.0	18,300
65									45.0	22,400	49.0	20,300	52.5	18,900	54.5	18,100
70									40.5	21,400	44.5	19,700	48.0	18,600	49.5	18,000
75									35.5	20,500	39.5	19,100	42.5	18,300		
80									29.5	19,700	34.0	18,700	36.5	18,000		
85									22.5	18,900	26.5	18,300				
90									9.5	17,600						
Min.Bm. Ang./Cap.	0.0	15,800	0.0	16,000	0.0	17,100	0.0	18,100	0.0	7,100	0.0	7,200	0.0	7,500	0.0	8,100
Radius	64.9		65		63.8		61.5		90.8		90.7		89.2		86.4	

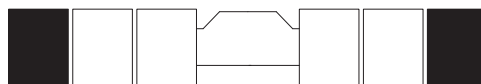
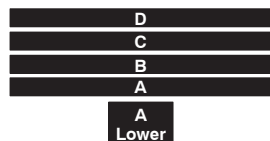
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Fully Extended



31' Offset Fly Capacities

Load Radius (ft)	95.0' Boom								122.6' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
20	79.0	33,700														
25	77.0	33,100														
30	75.0	32,500	78.5	28,200					78.5	28,600						
35	72.5	32,000	76.0	27,100	79.0	23,100			77.0	28,400	79.5	26,600				
40	70.5	31,400	74.0	26,100	76.5	22,400	79.0	20,200	75.0	28,200	78.0	25,900				
45	68.0	30,400	71.5	25,200	74.5	21,800	76.5	19,800	73.5	27,900	76.0	25,300	78.5	22,100		
50	66.0	28,500	69.0	24,300	72.0	21,300	74.0	19,500	71.5	27,500	74.5	24,700	76.5	21,600	78.5	19,800
55	63.0	26,200	66.5	23,500	69.0	20,900	71.5	19,200	69.5	25,200	72.5	24,100	75.0	21,200	76.5	19,500
60	60.5	24,200	64.0	22,800	66.5	20,400	68.5	18,900	67.5	23,300	70.5	22,800	73.0	20,900	74.5	19,300
65	58.0	22,400	61.5	21,800	64.0	20,000	66.0	18,700	65.5	21,600	68.5	21,200	71.0	20,600	72.5	19,100
70	55.0	20,900	58.5	20,700	61.0	19,600	63.0	18,500	63.5	20,400	66.5	20,100	68.5	19,800	70.5	18,900
75	52.0	19,900	55.5	19,400	58.0	19,000	60.0	18,300	61.0	19,000	64.0	18,800	66.5	18,600	68.0	18,400
80	49.0	18,600	52.5	18,200	55.0	17,900	56.5	17,700	59.0	17,800	62.0	17,600	64.0	17,400	66.0	17,300
85	45.5	17,500	49.0	17,200	51.5	16,900	53.0	16,800	56.5	16,600	59.5	16,500	62.0	16,400	63.5	16,300
90	42.0	16,500	45.5	16,200	48.0	16,000	49.0	15,900	54.5	15,600	57.0	15,500	59.5	15,400	61.0	15,300
95	38.5	15,500	41.5	15,300	44.0	15,200			52.0	14,700	54.5	14,600	57.0	14,500	58.0	14,500
100	34.0	14,700	37.5	14,500	39.5	14,400			49.5	13,800	52.0	13,800	54.0	13,700	55.5	13,700
105	29.0	13,600	32.5	13,800	34.0	13,700			46.5	13,000	49.5	13,000	51.5	13,000	52.5	12,900
110	23.0	12,600	26.5	12,800					43.5	11,900	46.5	12,300	48.5	12,300	49.0	12,200
115	14.5	11,700	17.5	11,800					40.5	11,000	43.0	11,300	45.0	11,500	46.0	11,600
120									37.0	10,200	40.0	10,400	41.5	10,600		
125									33.5	9,400	36.5	9,600	37.5	9,700		
130									29.5	8,700	32.0	8,900	33.5	9,000		
135									24.5	8,000	27.0	8,200				
140									18.5	7,400	21.0	7,500				
145									5.0	5,700						
Min.Bm. Ang./Cap.	0.0	5,500	0.0	5,500	0.0	5,800	0.0	6,200	0.0	3,800	0.0	3,800	0.0	4,000	0.0	4,300
Radius	117.5		117.3		115.6		112.5		145.1		144.9		143		139.7	

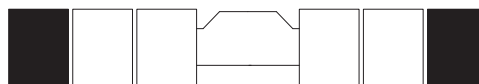
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Fully Extended



31' Offset Fly Capacities

Load Radius (ft)	151.1' Boom								180.4' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
35	78.5	17,300														
40	77.5	17,300														
45	76.5	17,300	78.5	17,800					78.5	14,400						
50	75.0	17,300	78.0	17,800	79.5	18,200			77.5	14,400						
55	74.0	17,300	76.5	17,800	78.5	18,200			76.5	14,400	78.5	14,500				
60	72.5	17,300	75.0	17,800	77.0	18,200	78.5	19,400	75.5	14,400	78.0	14,500				
65	71.0	17,300	73.5	17,800	75.5	18,200	77.0	19,300	74.5	14,400	76.5	14,500	78.0	15,000		
70	69.0	17,300	71.5	17,800	73.5	18,200	75.5	19,000	73.5	14,400	75.5	14,500	78.0	15,000	78.5	15,800
75	67.5	17,300	70.0	17,800	72.0	17,700	73.5	17,700	72.0	14,400	74.5	14,500	76.5	15,000	78.0	15,800
80	65.5	16,600	68.0	16,600	70.0	16,600	71.5	16,600	71.0	14,400	73.5	14,500	75.5	15,000	76.5	15,800
85	63.5	15,400	66.0	15,500	68.0	15,500	69.5	15,500	69.5	14,400	71.5	14,500	74.0	15,000	75.0	15,800
90	62.0	14,400	64.5	14,500	66.5	14,500	67.5	14,600	67.5	14,400	70.0	14,500	71.5	15,000	73.5	15,800
95	60.0	13,500	62.5	13,600	64.5	13,600	65.5	13,700	66.0	13,000	68.0	13,700	70.0	14,300	71.5	14,800
100	58.0	12,600	60.5	12,700	62.5	12,800	63.5	12,800	64.0	11,800	66.5	12,400	68.0	13,000	70.0	13,400
105	56.0	11,800	58.5	11,900	60.5	12,000	61.5	12,100	62.5	10,600	65.0	11,200	66.5	11,700	68.0	12,100
110	54.0	10,900	56.5	11,200	58.5	11,300	59.5	11,300	61.0	9,600	63.0	10,200	65.0	10,600	66.0	11,000
115	51.5	10,000	54.0	10,400	56.0	10,600	57.0	10,700	59.0	8,700	61.5	9,200	63.0	9,600	64.5	9,900
120	49.5	9,200	52.0	9,500	53.5	9,800	54.5	10,000	57.5	7,800	59.5	8,300	61.5	8,700	62.5	9,000
125	47.0	8,400	49.5	8,700	51.0	9,000	52.0	9,200	55.5	7,000	57.5	7,500	59.5	7,900	60.5	8,100
130	44.5	7,700	47.0	8,000	49.0	8,200	49.5	8,400	53.5	6,300	56.0	6,800	57.5	7,100	58.5	7,300
135	42.0	7,000	44.5	7,300	46.0	7,500	46.5	7,600	52.0	5,700	54.0	6,100	55.5	6,400	56.5	6,600
140	39.5	6,400	42.0	6,700	43.0	6,900			50.0	5,100	52.0	5,500	53.5	5,700	54.5	5,900
145	36.5	5,900	39.0	6,100	40.0	6,200			48.0	4,500	50.0	4,900	51.5	5,100	52.0	5,300
150	33.5	5,300	36.0	5,500	37.0	5,700			46.0	4,000	48.0	4,300	49.5	4,600	50.0	4,700
155	30.0	4,900	32.0	5,000	33.0	5,100			44.0	3,500	46.5	3,800	47.0	4,000	48.0	4,100
160	26.0	4,400	28.5	4,600					41.5	3,100	43.5	3,400	45.0	3,500	45.0	3,600
165	21.5	4,000	23.5	4,100					39.0	2,700	41.5	2,900	42.5	3,100		
170	15.0	3,600	17.0	3,700					36.5	2,300	38.5	2,500	39.5	2,600		
175									34.0	1,900	36.0	2,100	37.0	2,200		
180									31.0	1,600	33.0	1,700	34.0	1,800		
185									28.0	1,300	30.0	1,400	30.5	1,500		
190											26.0	1,100				
Min. Bm. Ang./Cap.	0.0	2,100	0.0	2,100	0.0	2,200	0.0	2,300	24.5		24.5		25.0		25.0	
Radius	173.6		173.3		171.4		167.9		190		191.7		191.7		190	

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C B A A Lower EM2 360° Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								68.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	72.5	35,800	79.0	32,100					78.0	35,700						
20	68.5	35,800	74.5	29,300					75.0	35,700	79.5	31,000				
25	64.5	32,500	70.5	27,000	76.0	23,400			72.0	35,700	76.5	29,200				
30	60.0	29,500	66.0	25,100	71.5	22,100	76.0	20,100	69.5	34,100	73.5	27,600	77.5	23,400		
35	55.5	27,000	61.5	23,500	66.5	21,000	71.0	19,400	66.5	31,800	70.5	26,100	74.5	22,500	77.5	20,200
40	50.5	24,900	56.5	22,100	61.5	20,200	65.5	18,900	63.0	29,800	67.5	24,800	71.0	21,600	74.0	19,700
45	45.0	23,100	51.0	20,900	55.5	19,400	59.5	18,500	60.0	28,000	64.0	23,700	68.0	20,900	70.5	19,300
50	39.0	21,500	45.0	19,900	49.5	18,800	52.5	18,100	56.5	26,400	60.5	22,700	64.0	20,400	67.0	18,900
55	32.0	20,200	38.0	19,100	42.0	18,400			53.0	24,900	57.0	21,800	60.5	19,800	63.0	18,600
60	23.0	19,100	29.0	18,500	32.0	18,000			49.0	23,600	53.5	21,000	56.5	19,300	59.0	18,300
65									45.0	22,400	49.0	20,300	52.5	18,900	54.5	18,100
70									40.5	21,400	44.5	19,700	48.0	18,600	49.5	18,000
75									35.5	20,500	39.5	19,100	42.5	18,300		
80									29.5	19,500	34.0	18,700	36.5	18,000		
85									22.0	17,900	25.5	18,000				
90									9.5	16,400						
Min.Bm. Ang./Cap.	0.0	15,800	0.0	16,000	0.0	17,100	0.0	18,100	0.0	7,100	0.0	7,200	0.0	7,500	0.0	8,100
Radius	64.9		65		63.8		61.5		90.8		90.7		89.2		86.4	

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C B A A Lower Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	95.0' Boom								122.6' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
20	79.0	33,700														
25	77.0	33,100														
30	75.0	32,500	78.5	28,200					78.5	28,600						
35	72.5	32,000	76.0	27,100	79.0	23,100			77.0	28,400	79.5	26,600				
40	70.5	31,400	74.0	26,100	76.5	22,400	79.0	20,200	75.0	28,200	78.0	25,900				
45	68.0	30,400	71.5	25,200	74.5	21,800	76.5	19,800	73.5	27,900	76.0	25,300	78.5	22,100		
50	66.0	28,500	69.0	24,300	72.0	21,300	74.0	19,500	71.5	27,500	74.5	24,700	76.5	21,600	78.5	19,800
55	63.0	26,200	66.5	23,500	69.0	20,900	71.5	19,200	69.5	25,200	72.5	24,100	75.0	21,200	76.5	19,500
60	60.5	24,200	64.0	22,800	66.5	20,400	68.5	18,900	67.5	23,300	70.5	22,800	73.0	20,900	74.5	19,300
65	58.0	22,400	61.5	21,800	64.0	20,000	66.0	18,700	65.5	21,600	68.5	21,200	71.0	20,600	72.5	19,100
70	55.0	20,900	58.5	20,700	61.0	19,600	63.0	18,500	63.5	20,400	66.5	20,100	68.5	19,800	70.5	18,900
75	52.0	19,900	55.5	19,400	58.0	19,000	60.0	18,300	61.0	19,000	64.0	18,800	66.5	18,600	68.0	18,400
80	49.0	18,600	52.5	18,200	55.0	17,900	56.5	17,700	59.0	17,800	62.0	17,600	64.0	17,400	66.0	17,300
85	45.5	17,500	49.0	17,200	51.5	16,900	53.0	16,800	56.5	16,600	59.5	16,500	62.0	16,400	63.5	16,300
90	42.0	16,200	45.5	16,200	48.0	16,000	49.0	15,900	54.5	15,600	57.0	15,500	59.5	15,400	61.0	15,300
95	38.0	14,900	41.5	15,200	44.0	15,200			51.5	14,200	54.5	14,600	57.0	14,500	58.0	14,500
100	34.0	13,700	37.0	13,900	39.0	14,100			49.0	13,000	51.5	13,400	54.0	13,700	55.5	13,700
105	29.0	12,600	32.0	12,800	34.0	12,900			46.5	11,900	49.0	12,300	51.0	12,600	52.0	12,800
110	23.0	11,600	26.0	11,800					43.0	10,900	46.0	11,300	48.0	11,500	49.0	11,700
115	14.5	10,700	17.5	10,800					40.0	10,000	43.0	10,400	45.0	10,600	45.5	10,700
120									37.0	9,200	39.5	9,500	41.5	9,700		
125									33.5	8,500	36.0	8,700	37.5	8,900		
130									29.0	7,800	32.0	8,000	33.0	8,100		
135									24.5	7,200	27.0	7,400				
140									18.0	6,700	20.5	6,800				
145									5.0	5,700						
Min.Bm. Ang./Cap. Radius	0.0	5,500	0.0	5,500	0.0	5,800	0.0	6,200	0.0	3,800	0.0	3,800	0.0	4,000	0.0	4,300
	117.5		117.3		115.6		112.5		145.1		144.9		143		139.7	

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C B A A Lower																
Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	151.1' Boom								180.4' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
35	78.5	17,300														
40	77.5	17,300														
45	76.5	17,300	78.5	17,800					78.5	14,400						
50	75.0	17,300	78.0	17,800	79.5	18,200			77.5	14,400						
55	74.0	17,300	76.5	17,800	78.5	18,200			76.5	14,400	78.5	14,500				
60	72.5	17,300	75.0	17,800	77.0	18,200	78.5	19,400	75.5	14,400	78.0	14,500				
65	71.0	17,300	73.5	17,800	75.5	18,200	77.0	19,300	74.5	14,400	76.5	14,500	78.0	15,000		
70	69.0	17,300	71.5	17,800	73.5	18,200	75.5	19,000	73.5	14,400	75.5	14,500	78.0	15,000	78.5	15,800
75	67.5	17,300	70.0	17,800	72.0	17,700	73.5	17,700	72.0	14,400	74.5	14,500	76.5	15,000	78.0	15,800
80	65.5	16,600	68.0	16,600	70.0	16,600	71.5	16,600	70.5	14,400	73.0	14,500	75.0	15,000	76.5	15,800
85	63.5	15,400	66.0	15,500	68.0	15,500	69.5	15,500	69.0	14,400	71.0	14,500	73.5	15,000	74.5	15,800
90	62.0	14,400	64.5	14,500	66.5	14,500	67.5	14,600	67.0	13,200	69.5	14,000	71.5	14,600	73.0	15,100
95	59.5	13,200	62.5	13,600	64.5	13,600	65.5	13,700	65.5	11,900	68.0	12,600	70.0	13,200	71.0	13,600
100	57.5	12,000	60.0	12,600	62.5	12,800	63.5	12,800	64.0	10,700	66.0	11,300	68.0	11,900	69.5	12,300
105	56.0	10,900	58.0	11,400	60.0	11,800	61.5	12,100	62.0	9,600	64.5	10,200	66.0	10,700	68.0	11,100
110	53.5	9,900	56.0	10,400	58.0	10,800	59.0	11,000	60.5	8,600	62.5	9,200	64.5	9,600	65.5	10,000
115	51.5	9,100	54.0	9,500	56.0	9,800	57.0	10,000	59.0	7,700	61.0	8,200	62.5	8,700	64.0	9,000
120	49.0	8,300	51.5	8,600	53.0	8,900	54.5	9,100	57.0	6,900	59.5	7,400	61.0	7,800	62.0	8,100
125	47.0	7,500	49.5	7,900	51.0	8,100	51.5	8,300	55.5	6,200	57.5	6,600	59.0	7,000	60.0	7,200
130	44.5	6,800	47.0	7,200	48.5	7,400	49.0	7,500	53.5	5,500	55.5	5,900	57.0	6,300	58.5	6,500
135	42.0	6,200	44.0	6,500	46.0	6,700	46.5	6,800	51.5	4,900	54.0	5,300	55.5	5,600	56.0	5,800
140	39.0	5,600	41.5	5,900	43.0	6,100			49.5	4,300	51.5	4,700	53.5	5,000	54.0	5,100
145	36.5	5,100	38.5	5,300	40.0	5,500			48.0	3,800	49.5	4,100	51.0	4,400	52.0	4,500
150	33.0	4,600	35.5	4,800	37.0	4,900			45.5	3,300	48.0	3,600	49.0	3,800	49.5	4,000
155	30.0	4,200	32.0	4,300	33.0	4,400			43.5	2,800	45.5	3,100	47.0	3,300	47.5	3,400
160	26.0	3,700	28.0	3,900					41.5	2,400	43.5	2,700	44.5	2,900	45.0	2,900
165	21.0	3,400	23.5	3,500					39.0	2,000	41.0	2,300	42.0	2,400		
170	15.0	3,000	17.0	3,100					36.5	1,600	38.5	1,900	39.5	2,000		
175									34.0	1,300	35.5	1,500	36.5	1,600		
180											33.0	1,200	34.0	1,200		
Min Bm. Ang./Cap.	0.0	2,100	0.0	2,100	0.0	2,200	0.0	2,300	31.0		31.5		31.5		31.5	
Radius	173.6		173.3		171.4		167.9		180		182.5		183.3		182.5	

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D C B A A Lower								EM 3		360°						
Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								55.5' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	↗	(lb)	↗	(lb)	↗	(lb)	↗	(lb)	↗	(lb)	↗	(lb)	↗	(lb)	↗	(lb)
15	72.5	35,800	79.0	32,100					76.0	35,700						
20	68.5	35,800	74.5	29,300					72.0	35,700	77.5	30,500				
25	64.5	32,500	70.5	27,000	76.0	23,400			69.0	35,300	74.0	28,400	78.5	24,000		
30	60.0	29,500	66.0	25,100	71.5	22,100	76.0	20,100	65.5	32,400	70.5	26,600	75.0	22,900	78.5	20,500
35	55.5	27,000	61.5	23,500	66.5	21,000	71.0	19,400	61.5	29,800	66.5	25,000	71.0	21,900	74.5	19,900
40	50.5	24,900	56.5	22,100	61.5	20,200	65.5	18,900	58.0	27,700	63.0	23,700	67.0	21,000	70.5	19,400
45	45.0	23,100	51.0	20,900	55.5	19,400	59.5	18,500	54.0	25,800	58.5	22,500	63.0	20,300	66.0	18,900
50	39.0	21,500	45.0	19,900	49.5	18,800	52.5	18,100	49.5	24,200	54.5	21,400	58.5	19,700	61.5	18,600
55	32.0	20,200	38.0	19,100	42.0	18,400			45.0	22,800	49.5	20,600	53.5	19,100	56.5	18,300
60	23.0	19,100	29.0	18,500	32.0	18,000			39.5	21,500	44.5	19,800	48.5	18,700	50.5	18,100
65									34.0	20,500	39.0	19,100	42.5	18,400		
70									27.0	19,500	32.0	18,600	35.0	18,000		
75									17.0	18,600	22.0	18,100				
Min.Bm. Ang./Cap.	0.0	15,800	0.0	16,000	0.0	17,100	0.0	18,100	0.0	10,400	0.0	10,500	0.0	11,000	0.0	12,100
Radius	64.9		65		63.8		61.5		78		78		76.6		74	

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D C B A A Lower									EM3		360°					
Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	69.5' Boom								97.1' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)
15	78.0	35,700														
20	75.0	35,700	79.5	31,100					79.0	34,900						
25	72.0	35,700	76.5	29,300					77.0	34,200						
30	69.5	34,500	73.5	27,700	77.5	23,400			74.5	33,500	78.0	28,600				
35	66.5	32,100	70.5	26,300	74.5	22,500	77.5	20,200	72.5	32,900	76.0	27,500	79.0	23,200		
40	63.0	30,100	67.5	25,000	71.0	21,700	74.0	19,700	70.5	32,300	73.5	26,400	76.5	22,600	79.0	20,200
45	60.0	28,200	64.0	23,800	68.0	21,000	70.5	19,300	68.0	31,000	71.0	25,500	74.0	21,900	76.5	19,800
50	56.5	26,600	61.0	22,800	64.5	20,500	67.0	18,900	65.5	29,600	69.0	24,600	71.5	21,400	74.0	19,500
55	53.0	25,200	57.0	21,900	60.5	19,900	63.0	18,700	63.5	28,400	66.5	23,800	69.0	20,900	71.0	19,200
60	49.5	23,800	53.5	21,100	57.0	19,400	59.0	18,400	60.5	27,100	64.0	23,000	66.5	20,500	68.5	19,000
65	45.5	22,700	49.5	20,400	52.5	19,000	55.0	18,200	58.0	25,600	61.5	22,300	64.0	20,100	66.0	18,700
70	41.0	21,600	45.0	19,800	48.0	18,600	50.0	18,000	55.5	23,800	58.5	21,600	61.0	19,700	63.0	18,500
75	36.0	20,700	40.5	19,200	43.0	18,400			52.0	21,900	56.0	21,000	58.0	19,300	60.0	18,300
80	30.5	19,800	35.0	18,700	37.5	18,100			49.0	19,800	52.5	20,400	55.0	19,000	57.0	18,100
85	23.5	18,700	28.0	18,400	30.0	17,900			46.0	18,000	49.0	18,500	52.0	18,800	53.5	18,000
90	13.5	17,200	17.5	17,300					42.5	16,500	46.0	17,000	48.5	17,300	49.5	17,500
95									39.0	15,100	42.0	15,500	44.5	15,700	45.5	15,900
100									35.0	13,800	38.0	14,100	40.0	14,300		
105									30.0	12,600	33.5	12,900	35.5	13,100		
110									25.0	11,600	28.0	11,800				
115									18.0	10,700	21.0	10,800				
Min.Bm. Ang./Cap.	0.0	9,100	0.0	9,200	0.0	9,600	0.0	10,500	0.0	6,500	0.0	6,600	0.0	6,900	0.0	7,400
Radius	92		91.9		90.4		87.5		119.6		119.4		117.7		114.5	

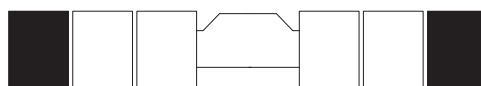
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Fully Extended



31' Offset Fly Capacities

Load Radius (ft)	125.6' Boom								154.9' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
30	78.5	30,000														
35	76.5	29,700														
40	75.0	29,400	79.5	27,300					78.5	24,700						
45	73.5	29,100	76.0	25,800	78.0	22,800			77.0	24,700	79.5	25,200				
50	71.5	28,900	74.0	25,200	76.5	21,800	78.0	19,900	75.5	24,700	78.0	24,900				
55	69.5	26,800	72.5	24,500	74.5	21,400	76.0	19,600	74.5	24,700	77.0	24,400	78.5	21,600		
60	67.5	24,700	70.5	23,900	72.5	21,000	74.5	19,300	73.0	24,700	75.5	24,000	77.0	21,200	78.5	19,600
65	65.5	22,800	68.5	22,600	70.5	20,800	72.5	19,100	71.5	24,500	74.0	23,600	75.5	20,900	77.0	19,400
70	63.5	21,100	66.5	20,900	68.5	20,500	70.0	18,900	69.5	21,600	72.0	22,700	74.0	20,900	75.5	19,200
75	61.5	19,900	64.0	19,800	66.5	19,700	68.0	18,800	68.0	19,200	70.5	20,200	72.5	20,600	74.0	19,100
80	59.0	18,500	62.0	18,500	64.5	18,400	66.0	18,300	66.0	17,300	68.5	18,000	70.5	18,800	72.5	18,900
85	56.5	17,000	60.0	17,200	62.0	17,200	63.5	17,200	64.0	15,500	66.5	16,300	68.5	17,100	70.0	17,600
90	54.5	15,400	57.0	16,000	59.5	16,100	61.0	16,100	62.0	13,900	64.5	14,700	67.0	15,300	68.0	15,800
95	52.0	14,000	55.0	14,500	57.0	15,000	58.5	15,100	60.5	12,500	62.5	13,200	64.5	13,800	66.0	14,200
100	49.5	12,700	52.5	13,200	54.5	13,600	55.5	13,900	58.0	11,200	61.0	11,900	62.5	12,400	64.0	12,800
105	47.0	11,600	49.5	12,000	51.5	12,400	52.5	12,600	56.5	10,100	58.5	10,700	61.0	11,200	62.0	11,500
110	44.0	10,500	47.0	10,900	48.5	11,200	49.5	11,400	54.5	9,100	56.5	9,600	58.5	10,100	60.0	10,400
115	41.0	9,600	44.0	10,000	45.5	10,200	46.5	10,400	52.5	8,100	54.5	8,700	56.5	9,100	57.5	9,300
120	38.0	8,700	41.0	9,100	42.5	9,300			50.0	7,300	52.5	7,800	54.5	8,100	55.0	8,400
125	34.5	8,000	37.0	8,300	39.0	8,400			48.0	6,500	50.0	7,000	51.5	7,300	53.0	7,500
130	31.0	7,300	33.5	7,500	35.0	7,700			45.5	5,800	48.0	6,200	49.5	6,500	50.0	6,700
135	26.5	6,600	29.0	6,800	30.0	6,900			43.5	5,200	45.5	5,500	47.0	5,800	47.5	5,900
140	21.5	6,000	24.0	6,200					40.5	4,600	43.0	4,900	44.5	5,100	45.0	5,200
145	14.5	5,500	16.5	5,600					38.0	4,000	40.0	4,300	41.5	4,500		
150									35.0	3,500	37.5	3,800	38.5	3,900		
155									32.0	3,000	34.5	3,300	35.5	3,400		
160									28.5	2,600	30.5	2,800	31.5	2,900		
165									24.5	2,200	26.5	2,400				
170									19.5	1,800	21.5	1,900				
175									12.5	1,500						
Min Bm. Ang./Cap.	0.0	4,100	0.0	4,100	0.0	4,300	0.0	4,600	0.0	1,400	0.0	1,400	0.0	1,400	0.0	1,500
Radius	148.1		147.9		146		142.7		177.4		177.1		175.2		171.7	

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C B A A Lower EM3 360°																
Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								55.5' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	72.5	35,800	79.0	32,100					76.0	35,700						
20	68.5	35,800	74.5	29,300					72.0	35,700	77.5	30,500				
25	64.5	32,500	70.5	27,000	76.0	23,400			69.0	35,300	74.0	28,400	78.5	24,000		
30	60.0	29,500	66.0	25,100	71.5	22,100	76.0	20,100	65.5	32,400	70.5	26,600	75.0	22,900	78.5	20,500
35	55.5	27,000	61.5	23,500	66.5	21,000	71.0	19,400	61.5	29,800	66.5	25,000	71.0	21,900	74.5	19,900
40	50.5	24,900	56.5	22,100	61.5	20,200	66.5	18,900	58.0	27,700	63.0	23,700	67.0	21,000	70.5	19,400
45	45.0	23,100	51.0	20,900	55.5	19,400	59.5	18,500	54.0	25,800	58.5	22,500	63.0	20,300	66.0	18,900
50	39.0	21,500	45.0	19,900	49.5	18,800	52.5	18,100	49.5	24,200	54.5	21,400	58.5	19,700	61.5	18,600
55	32.0	20,200	38.0	19,100	42.0	18,400			45.0	22,800	49.5	20,600	53.5	19,100	56.5	18,300
60	23.0	19,100	29.0	18,500	32.0	18,000			39.5	21,500	44.5	19,800	48.5	18,700	50.5	18,100
65									34.0	20,500	39.0	19,100	42.5	18,400		
70									27.0	19,500	32.0	18,600	35.0	18,000		
75									17.0	18,600	22.0	18,100				
Min.Bm. Ang./Cap.	0.0	15,800	0.0	16,000	0.0	17,100	0.0	18,100	0.0	10,400	0.0	10,500	0.0	11,000	0.0	12,100
Radius	64.9		65		63.8		61.5		78		78		76.6		74	

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C B A A Lower								EM3				360°				
Fully Extended																
31' Offset Fly Capacities																
Load Radius (ft)	69.5' Boom								97.1' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	78.0	35,700														
20	75.0	35,700	79.5	31,100					79.0	34,900						
25	72.0	35,700	76.5	29,300					77.0	34,200						
30	69.5	34,500	73.5	27,700	77.5	23,400			74.5	33,500	78.0	28,600				
35	66.5	32,100	70.5	26,300	74.5	22,500	77.5	20,200	72.5	32,900	76.0	27,500	79.0	23,200		
40	63.0	30,100	67.5	25,000	71.0	21,700	74.0	19,700	70.5	32,300	73.5	26,400	76.5	22,600	79.0	20,200
45	60.0	28,200	64.0	23,800	68.0	21,000	70.5	19,300	68.0	31,000	71.0	25,500	74.0	21,900	76.5	19,800
50	56.5	26,600	61.0	22,800	64.5	20,500	67.0	18,900	65.5	29,600	69.0	24,600	71.5	21,400	74.0	19,500
55	53.0	25,200	57.0	21,900	60.5	19,900	63.0	18,700	63.5	28,400	66.5	23,800	69.0	20,900	71.0	19,200
60	49.5	23,800	53.5	21,100	57.0	19,400	59.0	18,400	60.5	27,100	64.0	23,000	66.5	20,500	68.5	19,000
65	45.5	22,700	49.5	20,400	52.5	19,000	55.0	18,200	58.0	25,500	61.5	22,300	64.0	20,100	66.0	18,700
70	41.0	21,600	45.0	19,800	48.0	18,600	50.0	18,000	55.0	22,800	58.5	21,600	61.0	19,700	63.0	18,500
75	36.0	20,700	40.5	19,200	43.0	18,400			52.0	20,400	56.0	21,000	58.0	19,300	60.0	18,300
80	30.5	19,100	35.0	18,700	37.5	18,100			49.0	18,400	52.5	19,000	55.0	19,000	57.0	18,100
85	23.5	17,500	28.0	17,700					46.0	16,800	49.0	17,300	52.0	17,700	53.0	17,900
90	13.5	16,000	17.5	16,100					42.5	15,300	46.0	15,700	48.0	16,100	49.5	16,300
95									38.5	13,900	42.0	14,300	44.0	14,600	45.0	14,700
100									34.5	12,700	38.0	13,000	40.0	13,200		
105									30.0	11,600	33.5	11,900	35.0	12,000		
110									25.0	10,600	28.0	10,800				
115									17.5	9,800	21.0	9,900				
Min.Bm. Ang./Cap.	0.0	9,100	0.0	9,200	0.0	9,600	0.0	10,500	0.0	6,500	0.0	6,600	0.0	6,900	0.0	7,400
Radius	92		91.9		90.4		87.5		119.6		119.4		117.7		114.5	

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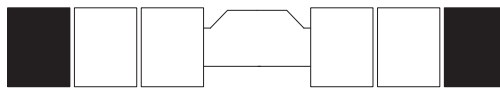
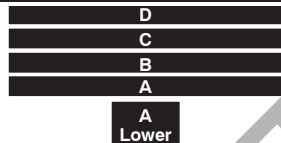
TCC-1400

C B A A Lower EM3 360°																				
Fully Extended																				
31' Offset Fly Capacities																				
Load Radius (ft)	125.6' Boom								154.9' Boom											
	2'		15'		30'		45'		2'		15'		30'		45'					
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)				
30	78.5	30,000	79.5	27,300	78.0	22,300	78.0	19,900	77.0	24,700	79.5	25,200	78.5	21,600	78.5	19,600				
35	76.5	29,700																		
40	75.0	29,400																		
45	73.5	29,100	76.0	25,800	76.5	21,800	78.0	19,900	75.5	24,700	78.0	24,900	77.0	20,900	77.0	19,400				
50	71.5	28,900	74.0	25,200	74.5	21,400	76.0	19,600	74.5	24,700	77.0	24,400								
55	69.5	26,800	72.5	24,500	74.5	20,500	76.0	18,900	74.5	20,000	72.0	21,100								
60	67.5	24,700	70.5	23,900	72.5	21,000	74.5	19,300	73.0	24,700	75.5	24,000	77.0	21,200	78.5	19,600				
65	65.5	22,800	68.5	22,600	70.5	20,800	72.5	19,100	71.0	22,700	74.0	23,600	75.5	20,900	77.0	19,400				
70	63.5	21,100	66.5	20,900	68.5	20,500	70.0	18,900	69.5	20,000	72.0	21,100	74.0	20,900	75.5	19,200				
75	61.0	19,200	64.0	19,800	66.5	19,700	68.0	18,800	67.5	17,700	70.0	18,600	72.0	19,500	74.0	19,100				
80	59.0	17,400	61.5	18,000	64.5	18,400	66.0	18,300	65.5	15,900	68.5	16,800	70.0	17,600	72.0	18,000				
85	56.5	15,700	59.5	16,400	61.5	16,900	63.5	17,200	64.0	14,200	66.5	15,000	68.5	15,700	70.0	16,300				
90	54.0	14,200	57.0	14,800	59.5	15,300	61.0	15,600	62.0	12,700	64.5	13,400	66.5	14,100	68.0	14,600				
95	52.0	12,800	54.5	13,400	57.0	13,800	58.0	14,100	60.0	11,300	62.5	12,000	64.5	12,600	66.0	13,000				
100	49.5	11,600	52.0	12,100	54.0	12,500	55.5	12,800	59.0	10,100	60.5	10,800	62.5	11,300	64.0	11,700				
105	46.5	10,500	49.5	11,000	51.5	11,300	52.5	11,500	56.0	9,000	58.5	9,600	60.5	10,100	61.5	10,500				
110	44.0	9,500	46.5	9,900	48.5	10,200	49.5	10,400	54.0	8,100	56.5	8,600	58.5	9,100	59.5	9,400				
115	41.0	8,600	43.5	9,000	45.5	9,300	46.0	9,400	52.0	7,200	54.5	7,700	56.0	8,100	57.0	8,400				
120	38.0	7,800	40.5	8,200	42.0	8,400	38.5	7,600	45.5	5,000	52.5	6,900	54.0	7,200	55.0	7,500				
125	34.5	7,100	37.0	7,400	38.5	7,600					50.0	6,100	51.5	6,400	52.5	6,600				
130	30.5	6,400	33.5	6,700	34.5	6,800					47.5	5,400	49.0	5,700	50.0	5,800				
135	26.5	5,800	29.0	6,000	30.0	6,100	43.0	4,400	40.5	3,800	45.0	4,700	46.5	5,000	47.5	5,100				
140	21.0	5,300	24.0	5,400	43.0	4,400					43.0	4,100	44.0	4,400	41.5	3,800				
145	14.0	4,800	16.5	4,800							40.0	3,600	41.5	3,800						
150								35.0	2,800	37.0	3,100	38.5	3,200							
155									31.5	2,300	34.0	2,600	35.0	2,700						
160									28.5	1,900	30.5	2,100	31.5	2,200						
165									24.5	1,500	26.5	1,700								
170									19.5	1,200	21.5	1,300								
Min Bm. Ang./Cap.	0.0	4,100	0.0	4,100	0.0	4,300	0.0	4,600	15.0		16.0		13.5		17.5					
Radius	148.1		147.9		146		142.7		173.3		173.7		173.7		170					

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TCC-1400



Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	195.4' Boom							
	2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
50	79.0	4,300						
55	78.0	4,300						
60	77.0	4,300						
65	76.0	4,300	79.0	4,400				
70	75.0	4,300	78.0	4,400				
75	74.0	4,300	77.0	4,400				
80	73.0	4,300	76.0	4,400	78.5	4,900		
85	72.0	4,300	75.0	4,400	77.5	4,900		
90	70.5	4,300	74.0	4,400	76.5	4,900	79.0	5,900
95	69.5	4,300	72.5	4,400	75.5	4,900	78.0	5,900
100	68.5	4,300	71.5	4,400	74.5	4,900	77.0	5,900
105	67.5	4,300	70.5	4,400	73.5	4,900	75.5	5,900
110	66.5	4,300	69.5	4,400	72.0	4,900	74.5	5,900
115	65.5	4,300	68.5	4,400	71.0	4,900	73.5	5,900
120	64.0	4,300	67.0	4,400	70.0	4,900	72.0	5,900
125	63.0	4,300	66.0	4,400	68.5	4,900	70.5	5,600
130	62.0	4,300	65.0	4,400	67.5	4,900	69.5	5,200
135	60.5	4,300	63.5	4,400	66.0	4,800	68.0	4,900
140	59.0	3,900	62.0	4,300	64.5	4,500	66.5	4,600
145	57.5	3,500	61.0	4,000	63.0	4,200	65.0	4,300
150	56.0	3,100	59.5	3,600	61.5	3,900	63.0	4,000
155	54.5	2,800	58.0	3,200	60.0	3,600	61.5	3,700
160	53.0	2,500	56.0	2,900	58.5	3,200	60.0	3,400
165	51.5	2,200	54.5	2,600	57.0	2,900	58.0	3,100
170	50.0	1,900	53.0	2,300	55.0	2,600	56.5	2,700
175	48.0	1,600	51.0	2,000	53.5	2,300	54.5	2,400
180	46.5	1,300	49.5	1,700	51.5	2,000	52.5	2,100
185	44.5	1,100	47.5	1,400	49.5	1,700	50.5	1,800
190			45.5	1,200	47.5	1,400	48.5	1,500
195					45.5	1,100	46.0	1,200
Min. Bm. Ang./Cap.	44.0		44.5		45.0		44.5	
Radius	186.7		193.3		196.7		198.3	

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C B A A Lower Fully Extended								
55' Offset Fly Capacities								
Load Radius (ft)	195.4' Boom							
	2'		15'		30'		45'	
	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)
50	79.0	4,300						
55	78.0	4,300						
60	77.0	4,300						
65	76.0	4,300	79.0	4,400				
70	75.0	4,300	78.0	4,400				
75	74.0	4,300	77.0	4,400				
80	73.0	4,300	76.0	4,400	78.5	4,900		
85	72.0	4,300	75.0	4,400	77.5	4,900		
90	70.5	4,300	74.0	4,400	76.5	4,900	79.0	5,900
95	69.5	4,300	72.5	4,400	75.5	4,900	78.0	5,900
100	68.5	4,300	71.5	4,400	74.5	4,900	77.0	5,900
105	67.5	4,300	70.5	4,400	73.5	4,900	75.5	5,900
110	66.5	4,300	69.5	4,400	72.0	4,900	74.5	5,900
115	65.5	4,300	68.5	4,400	71.0	4,900	73.5	5,900
120	64.0	4,300	67.0	4,400	70.0	4,900	72.0	5,900
125	63.0	4,300	66.0	4,400	68.5	4,900	70.5	5,600
130	62.0	4,300	65.0	4,400	67.5	4,900	69.5	5,200
135	60.5	4,300	63.5	4,400	66.0	4,800	68.0	4,900
140	59.0	3,900	62.0	4,300	64.5	4,500	66.5	4,600
145	57.5	3,500	61.0	4,000	63.0	4,200	65.0	4,300
150	56.0	3,100	59.5	3,600	61.5	3,900	63.0	4,000
155	54.5	2,800	58.0	3,200	60.0	3,600	61.5	3,700
160	53.0	2,500	56.0	2,900	58.5	3,200	60.0	3,400
165	51.5	2,200	54.5	2,600	57.0	2,900	58.0	3,100
170	50.0	1,900	53.0	2,300	55.0	2,600	56.5	2,700
175	48.0	1,600	51.0	2,000	53.5	2,300	54.5	2,400
180	46.5	1,300	49.5	1,700	51.5	2,000	52.5	2,100
185			47.5	1,400	49.5	1,700	50.5	1,800
190			45.5	1,100	47.5	1,400	48.5	1,500
195					45.5	1,100	46.0	1,200
Min Bm. Ang./Cap.	44.5		45.0		45.0		45.0	
Radius	185		191.7		196.7		197.5	

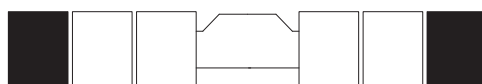
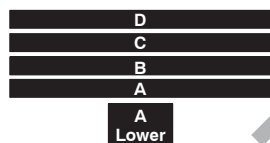
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Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	42.4' Boom								68.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	77.5	23,100														
20	74.5	20,800							78.5	21,400						
25	71.5	18,600	79.5	15,200					76.0	20,300						
30	68.0	16,800	76.5	14,000					73.5	19,000						
35	65.0	15,300	73.0	13,000					71.5	17,600	77.5	14,000				
40	61.5	14,100	70.0	12,100	77.5	10,600			69.0	16,400	75.0	13,200				
45	58.0	13,000	66.5	11,300	74.0	10,100			66.5	15,300	72.5	12,500	78.5	10,600		
50	54.5	12,100	62.5	10,700	70.0	9,600	76.5	8,800	64.0	14,300	70.0	11,900	76.0	10,200		
55	51.0	11,300	59.0	10,100	66.0	9,200	72.5	8,500	61.0	13,400	67.5	11,300	73.0	9,800	78.0	8,800
60	47.0	10,500	55.0	9,600	62.0	8,800	68.0	8,200	58.5	12,600	64.5	10,800	70.5	9,500	75.0	8,600
65	42.5	9,900	50.5	9,100	57.5	8,500	63.0	8,000	55.5	12,000	62.0	10,300	67.5	9,200	72.0	8,400
70	38.0	9,400	46.0	8,700	52.5	8,200	57.5	7,900	53.0	11,300	59.0	9,900	64.5	8,900	68.5	8,200
75	32.5	8,900	40.5	8,400	47.0	8,000	51.0	7,800	49.5	10,800	56.0	9,500	61.0	8,600	65.5	8,000
80	26.5	8,400	34.5	8,100	40.0	7,800			46.5	10,300	52.5	9,200	58.0	8,400	61.5	7,900
85	18.0	8,000	26.0	7,900					43.0	9,800	49.5	8,900	54.0	8,200	57.5	7,800
90									39.5	9,400	45.5	8,600	50.5	8,000	53.5	7,800
95									35.5	9,000	41.5	8,300	46.0	7,900	48.5	7,800
100									31.0	8,600	37.0	8,100	41.0	7,800		
105									25.5	8,300	31.5	7,900	35.0	7,800		
110									18.5	8,000	24.5	7,800				
Min.Bm. Ang./Cap.	0.0	7,800	0.0	7,900	0.0	7,800	0.0	7,800	0.0	4,600	0.0	4,700	0.0	5,100	0.0	5,700
Radius	88.9		88.8		87		83.6		114.8		114.4		112		107.6	

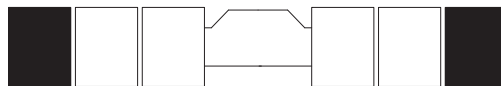
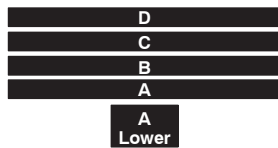
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Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	95.0' Boom								122.6' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
25	79.0	19,400														
30	77.5	18,700														
35	75.5	18,000							78.0	15,500						
40	73.5	17,400	78.5	13,800					77.0	15,500						
45	71.5	16,700	77.0	13,200					75.5	15,500						
50	70.0	15,800	75.0	12,600	79.5	10,600			74.0	15,500	78.0	13,000				
55	68.0	15,000	73.0	12,100	77.5	10,300			72.5	15,400	76.5	12,600				
60	66.0	14,300	71.0	11,700	75.0	9,900	79.0	8,800	71.0	15,100	75.0	12,200	78.5	10,200		
65	63.5	13,600	68.5	11,200	73.0	9,700	77.0	8,600	69.5	14,600	73.5	11,800	77.0	10,000		
70	61.5	13,000	66.5	10,800	71.0	9,400	74.5	8,400	67.5	14,100	71.5	11,500	75.5	9,700	78.5	8,600
75	59.5	12,400	64.5	10,500	68.5	9,200	72.0	8,300	66.0	13,500	70.0	11,100	73.5	9,500	76.5	8,500
80	57.0	11,900	62.0	10,100	66.5	8,900	69.5	8,200	64.0	13,000	68.0	10,800	71.5	9,300	74.5	8,400
85	54.5	11,400	59.5	9,800	64.0	8,700	67.0	8,100	62.5	12,600	66.5	10,500	70.0	9,100	72.5	8,300
90	52.5	10,900	57.0	9,500	61.5	8,500	64.5	8,000	60.5	12,200	64.5	10,200	68.0	8,900	70.5	8,100
95	50.0	10,500	54.5	9,200	58.5	8,400	61.5	7,900	58.5	11,700	62.5	9,900	66.0	8,800	68.5	8,100
100	47.0	10,100	52.0	9,000	56.0	8,200	58.5	7,800	57.0	11,300	61.0	9,700	64.0	8,600	66.5	8,000
105	44.5	9,700	49.0	8,700	53.0	8,100	55.5	7,800	55.0	11,000	59.0	9,500	62.0	8,500	64.5	7,900
110	41.5	9,400	46.5	8,500	50.0	8,000	52.0	7,700	53.0	10,600	57.0	9,200	60.0	8,300	62.0	7,800
115	38.0	9,100	43.0	8,300	46.5	7,900	48.0	7,700	50.5	10,300	54.5	9,000	57.5	8,200	60.0	7,800
120	34.5	8,800	39.5	8,200	42.5	7,800			48.5	10,000	52.5	8,800	55.5	8,100	57.5	7,800
125	31.0	8,500	35.5	8,000	38.5	7,800			46.0	9,700	50.0	8,700	53.0	8,000	54.5	7,700
130	26.5	8,300	31.0	7,900	33.0	7,700			43.0	9,300	47.5	8,500	50.5	7,900	52.0	7,700
135	20.5	8,000	25.0	7,800					40.5	8,700	45.0	8,300	48.0	7,900	49.0	7,700
140	12.0	7,900	15.5	7,800					37.5	8,000	42.5	8,200	45.0	7,800	45.5	7,700
145									35.0	7,500	38.5	7,800	41.5	7,800		
150									31.0	7,000	35.5	7,200	37.5	7,400		
155									27.0	6,500	31.5	6,700	33.0	6,800		
160									22.5	6,000	26.5	6,200				
165									16.5	5,600	20.0	5,300				
Min Bm. Ang./Cap.	0.0	3,500	0.0	3,600	0.0	3,900	0.0	4,300	0.0	2,300	0.0	2,400	0.0	2,500	0.0	2,800
Radius	141.5		141		138.1		133		169.1		168.4		165.3		159.6	

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D C B A A Lower				Fully Extended		EM2		360°								
55' Offset Fly Capacities																
Load Radius (ft)	151.1' Boom								180.4' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)	⌵	(lb)
45	77.5	12,400														
50	77.0	12,400							79.0	10,700						
55	75.5	12,400	79.5	12,600					78.0	10,700						
60	74.5	12,400	78.0	12,400					77.0	10,700						
65	73.0	12,400	77.0	12,100					76.0	10,700						
70	72.0	12,400	75.5	11,800	78.5	10,000			75.0	10,700	78.5	10,900				
75	70.5	12,400	74.0	11,500	77.0	9,800			74.0	10,700	77.5	10,900				
80	69.5	12,400	72.5	11,200	75.5	9,600	78.0	8,500	73.0	10,700	76.5	10,900	79.0	9,800		
85	68.0	12,400	71.5	11,000	74.0	9,400	76.5	8,400	72.0	10,700	75.0	10,900	77.5	9,600		
90	66.5	12,400	70.0	10,700	72.5	9,200	75.0	8,300	71.0	10,700	74.0	10,900	76.5	9,500	78.5	8,400
95	65.0	12,400	68.5	10,500	71.0	9,100	73.5	8,200	70.0	10,700	73.0	10,800	75.5	9,300	77.0	8,300
100	63.5	12,200	67.0	10,200	69.5	8,900	72.0	8,100	68.5	10,700	71.5	10,600	74.0	9,200	76.0	8,200
105	62.0	11,500	65.5	10,000	68.0	8,800	70.0	8,000	67.5	10,700	70.5	10,400	73.0	9,000	74.5	8,200
110	60.5	10,800	64.0	9,800	66.5	8,700	68.5	8,000	65.5	10,200	69.5	10,200	71.5	8,900	73.0	8,100
115	58.5	10,100	62.0	9,600	65.0	8,500	66.5	7,900	64.0	9,300	68.0	10,000	70.5	8,800	72.0	8,000
120	57.0	9,500	60.5	9,400	63.0	8,400	65.0	7,900	62.5	8,400	66.0	9,300	69.0	8,700	70.5	8,000
125	55.0	9,000	59.0	9,200	61.5	8,300	63.0	7,800	61.0	7,600	64.5	8,500	67.5	8,600	69.0	7,900
130	52.5	8,300	57.0	8,600	59.5	8,200	61.0	7,800	59.0	6,900	63.5	7,700	65.5	8,400	67.5	7,900
135	50.5	7,600	55.0	8,100	57.5	8,100	59.0	7,700	57.5	6,300	61.5	7,000	64.5	7,600	66.0	7,800
140	49.0	7,000	52.5	7,500	55.5	7,800	57.0	7,700	56.5	5,600	59.5	6,300	62.5	6,900	64.5	7,300
145	46.5	6,400	50.5	6,900	53.0	7,300	55.0	7,500	54.5	5,100	58.0	5,700	60.5	6,300	62.5	6,600
150	44.5	5,900	48.5	6,400	51.0	6,700	52.0	6,900	53.0	4,600	56.5	5,200	58.5	5,700	60.5	6,000
155	42.0	5,400	46.0	5,800	48.5	6,100	49.5	6,300	51.0	4,100	54.5	4,600	57.0	5,100	58.5	5,400
160	39.5	5,000	43.5	5,300	46.0	5,600	46.5	5,700	49.0	3,600	52.5	4,200	55.5	4,600	56.5	4,800
165	37.5	4,500	41.0	4,900	43.0	5,100			47.5	3,200	51.0	3,700	53.0	4,100	54.5	4,300
170	34.5	4,100	38.0	4,500	40.0	4,700			45.5	2,800	49.0	3,300	51.0	3,600	52.0	3,800
175	31.5	3,800	35.0	4,000	37.0	4,200			43.5	2,400	47.0	2,900	49.0	3,200	50.0	3,300
180	28.5	3,400	31.5	3,700	33.0	3,800			41.5	2,100	45.0	2,500	47.0	2,800	47.5	2,900
185	24.5	3,100	28.0	3,300					39.5	1,800	42.5	2,100	44.5	2,400	45.0	2,500
190	19.5	2,800	23.0	3,000					37.0	1,500	40.5	1,800	42.0	2,000		
195									35.0	1,200	38.0	1,500	39.5	1,700		
200											35.5	1,200	36.5	1,300		
Min Bn. Ang./Cap.	13.0		15.5		0.0	1,100	0.0	1,300	33.5		33.5		33.5		33.5	
Radius	195		195		193.4		187.5		198.3		203.3		205		203.7	

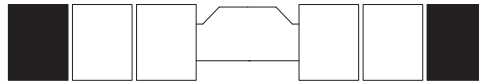
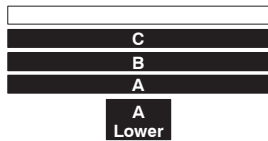
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Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	42.4' Boom								68.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)	∠°	(lb)
15	77.5	23,100														
20	74.5	20,800							78.5	21,400						
25	71.5	18,600	79.5	15,200					76.0	20,300						
30	68.0	16,800	76.5	14,000					73.5	19,000						
35	65.0	15,300	73.0	13,000					71.5	17,600	77.5	14,000				
40	61.5	14,100	70.0	12,100	77.5	10,600			69.0	16,400	75.0	13,200				
45	58.0	13,000	66.5	11,300	74.0	10,100			66.5	15,300	72.5	12,500	78.5	10,600		
50	54.5	12,100	62.5	10,700	70.0	9,600	76.5	8,800	64.0	14,300	70.0	11,900	76.0	10,200		
55	51.0	11,300	59.0	10,100	66.0	9,200	72.5	8,500	61.0	13,400	67.5	11,300	73.0	9,800	78.0	8,800
60	47.0	10,500	55.0	9,600	62.0	8,800	68.0	8,200	58.5	12,600	64.5	10,800	70.5	9,500	75.0	8,600
65	42.5	9,900	50.5	9,100	57.5	8,500	63.0	8,000	55.5	12,000	62.0	10,300	67.5	9,200	72.0	8,400
70	38.0	9,400	46.0	8,700	52.5	8,200	57.5	7,900	53.0	11,300	59.0	9,900	64.5	8,900	68.5	8,200
75	32.5	8,900	40.5	8,400	47.0	8,000	51.0	7,800	49.5	10,800	56.0	9,500	61.0	8,600	65.5	8,000
80	26.5	8,400	34.5	8,100	40.0	7,800			46.5	10,300	52.5	9,200	58.0	8,400	61.5	7,900
85	18.0	8,000	26.0	7,900					43.0	9,800	49.5	8,900	54.0	8,200	57.5	7,800
90									39.5	9,400	46.5	8,600	50.5	8,000	53.5	7,800
95									35.5	9,000	41.5	8,300	46.0	7,900	48.5	7,800
100									31.0	8,600	37.0	8,100	41.0	7,800		
105									25.5	8,300	31.5	7,900	35.0	7,800		
110									18.5	8,000	24.5	7,800				
Min.Bm. Ang./Cap.	0.0	7,800	0.0	7,900	0.0	7,800	0.0	7,800	0.0	4,600	0.0	4,700	0.0	5,100	0.0	5,700
Radius	88.9		88.8		87		83.6		114.8		114.4		112		107.6	

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T3P0004

C B A A Lower Fully Extended																
55' Offset Fly Capacities																
Load Radius (ft)	95.0' Boom								122.6' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
25	79.0	19,400														
30	77.5	18,700														
35	75.5	18,000							78.0	15,500						
40	73.5	17,400	78.5	13,800					77.0	15,500						
45	71.5	16,700	77.0	13,200					75.5	15,500						
50	70.0	15,800	75.0	12,600	79.5	10,600			74.0	15,500	78.0	13,000				
55	68.0	15,000	73.0	12,100	77.5	10,300			72.5	15,400	76.5	12,600				
60	66.0	14,300	71.0	11,700	75.0	9,900	79.0	8,800	71.0	15,100	75.0	12,200	78.5	10,200		
65	63.5	13,600	68.5	11,200	73.0	9,700	77.0	8,600	69.5	14,600	73.5	11,800	77.0	10,000		
70	61.5	13,000	66.5	10,800	71.0	9,400	74.5	8,400	67.5	14,100	71.5	11,500	75.5	9,700	78.5	8,600
75	59.5	12,400	64.5	10,500	68.5	9,200	72.0	8,300	66.0	13,500	70.0	11,100	73.5	9,500	76.5	8,500
80	57.0	11,900	62.0	10,100	66.5	8,900	69.5	8,200	64.0	13,000	68.0	10,800	71.5	9,300	74.5	8,400
85	54.5	11,400	59.5	9,800	64.0	8,700	67.0	8,100	62.5	12,600	66.5	10,500	70.0	9,100	72.5	8,300
90	52.5	10,900	57.0	9,500	61.5	8,500	64.5	8,000	60.5	12,200	64.5	10,200	68.0	8,900	70.5	8,100
95	50.0	10,500	54.5	9,200	58.5	8,400	61.5	7,900	58.5	11,700	62.5	9,900	66.0	8,800	68.5	8,100
100	47.0	10,100	52.0	9,000	56.0	8,200	58.5	7,800	57.0	11,300	61.0	9,700	64.0	8,600	66.5	8,000
105	44.5	9,700	49.0	8,700	53.0	8,100	55.5	7,800	55.0	11,000	59.0	9,500	62.0	8,500	64.5	7,900
110	41.5	9,400	46.5	8,500	50.0	8,000	52.0	7,700	53.0	10,600	57.0	9,200	60.0	8,300	62.0	7,800
115	38.0	9,100	43.0	8,300	46.5	7,900	48.0	7,700	50.5	10,300	54.5	9,000	57.5	8,200	60.0	7,800
120	34.5	8,800	39.5	8,200	42.5	7,800			48.0	9,900	52.5	8,800	55.5	8,100	57.5	7,800
125	31.0	8,500	35.5	8,000	38.5	7,800			45.5	9,200	50.0	8,700	53.0	8,000	54.5	7,700
130	26.5	8,300	31.0	7,900	33.0	7,700			43.0	8,500	47.5	8,500	50.5	7,900	52.0	7,700
135	20.5	8,000	25.0	7,800					40.5	7,800	44.5	8,300	48.0	7,900	49.0	7,700
140	12.0	7,900	15.5	7,800					37.5	7,300	42.0	7,600	45.0	7,800	45.5	7,700
145									34.5	6,700	38.5	7,100	41.0	7,300		
150									31.0	6,200	35.0	6,500	37.0	6,700		
155									27.0	5,800	31.0	6,000	32.5	6,100		
160									22.5	5,400	26.0	5,500				
165									16.5	5,000	19.5	5,100				
Min Bm. Ang./Cap.	0.0	3,500	0.0	3,600	0.0	3,900	0.0	4,300	0.0	2,300	0.0	2,400	0.0	2,500	0.0	2,800
Radius	141.5		141		138.1		133		169.1		168.4		165.3		159.6	

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C B A A Lower Fully Extended EM2 360°																
55' Offset Fly Capacities																
Load Radius (ft)	151.1' Boom								180.4' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)	⤵	(lb)
45	77.5	12,400														
50	77.0	12,400							79.0	10,700						
55	75.5	12,400	79.5	12,600					78.0	10,700						
60	74.5	12,400	78.0	12,400					77.0	10,700						
65	73.0	12,400	77.0	12,100					76.0	10,700						
70	72.0	12,400	75.5	11,800	78.5	10,900			75.0	10,700	78.5	10,900				
75	70.5	12,400	74.0	11,500	77.0	9,800			74.0	10,700	77.5	10,900				
80	69.5	12,400	72.5	11,200	75.5	9,600	78.0	8,500	73.0	10,700	76.5	10,900	79.0	9,800		
85	68.0	12,400	71.5	11,000	74.0	9,400	76.5	8,400	72.0	10,700	75.0	10,900	77.5	9,600		
90	66.5	12,400	70.0	10,700	72.5	9,200	75.0	8,300	71.0	10,700	74.0	10,900	76.5	9,500	78.5	8,400
95	65.0	12,400	68.5	10,500	71.0	9,100	73.5	8,200	70.0	10,700	73.0	10,800	75.5	9,300	77.0	8,300
100	63.5	12,200	67.0	10,200	69.5	8,900	72.0	8,100	68.5	10,700	71.5	10,600	74.0	9,200	76.0	8,200
105	62.0	11,500	65.5	10,000	68.0	8,800	70.0	8,000	67.0	10,200	70.5	10,400	73.0	9,000	74.5	8,200
110	60.0	10,600	64.0	9,800	66.5	8,700	68.5	8,000	65.0	9,200	69.0	10,200	71.5	8,900	73.0	8,100
115	58.0	9,700	62.0	9,600	65.0	8,500	66.5	7,900	64.0	8,300	67.5	9,200	70.5	8,800	72.0	8,000
120	56.5	8,900	60.5	9,400	63.0	8,400	65.0	7,900	62.0	7,500	65.5	8,400	69.0	8,700	70.5	8,000
125	54.5	8,100	58.0	8,800	61.5	8,300	63.0	7,800	61.0	6,800	64.0	7,600	67.0	8,300	69.0	7,900
130	52.5	7,400	56.5	8,000	59.5	8,200	61.0	7,800	59.0	6,100	63.0	6,900	65.5	7,500	67.5	7,900
135	50.5	6,800	54.5	7,400	57.0	7,800	59.0	7,700	57.5	5,400	61.0	6,200	64.0	6,800	65.5	7,300
140	48.5	6,200	52.0	6,700	55.5	7,200	57.0	7,500	56.0	4,900	59.5	5,600	62.0	6,100	64.0	6,600
145	46.5	5,700	50.0	6,200	52.5	6,600	54.5	6,800	54.5	4,300	57.5	5,000	60.0	5,500	62.0	5,900
150	44.0	5,200	48.0	5,600	50.5	6,000	51.5	6,200	52.5	3,800	56.0	4,500	58.5	4,900	60.0	5,300
155	42.0	4,700	45.5	5,100	48.5	5,500	49.5	5,600	51.0	3,400	54.5	4,000	56.5	4,400	58.0	4,700
160	39.5	4,300	43.0	4,700	45.5	4,900	46.5	5,100	49.0	3,000	52.0	3,500	55.0	3,900	56.0	4,200
165	37.0	3,900	40.5	4,200	43.0	4,500			47.0	2,600	50.5	3,000	52.5	3,400	54.0	3,700
170	34.0	3,500	38.0	3,800	40.0	4,000			45.5	2,200	48.5	2,600	51.0	3,000	52.0	3,200
175	31.0	3,200	34.5	3,400	36.5	3,600			43.0	1,800	46.5	2,200	49.0	2,600	50.0	2,700
180	28.0	2,800	31.5	3,100	32.5	3,200			41.5	1,500	44.5	1,900	46.5	2,200	47.0	2,300
185	24.0	2,500	27.5	2,700					39.0	1,200	42.5	1,600	44.5	1,800	45.0	1,900
190	19.5	2,300	22.5	2,400							40.0	1,200	42.0	1,500		
195													39.5	1,100		
Min Bn. Ang./Cap.	13.0		15.5		0.0	1,100	0.0	1,300	37.5		38.5		38.5		38.0	
Radius	195		195		193.4		187.5		188.3		193.3		196.7		196.7	

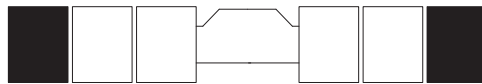
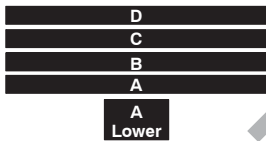
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Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	42.4' Boom								55.5' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
15	77.5	23,100							79.0	23,300						
20	74.5	20,800							76.5	21,600						
25	71.5	18,600	79.5	15,200					74.0	19,900						
30	68.0	16,800	76.5	14,000					71.0	18,100	78.5	14,500				
35	65.0	15,300	73.0	13,000					68.5	16,600	75.5	13,600				
40	61.5	14,100	70.0	12,100	77.5	10,600			65.5	15,400	73.0	12,700	79.5	10,900		
45	58.0	13,000	66.5	11,300	74.0	10,100			63.0	14,300	70.0	12,000	76.5	10,400		
50	54.5	12,100	62.5	10,700	70.0	9,600	76.5	8,800	60.0	13,300	67.0	11,300	73.5	9,900	79.0	8,900
55	51.0	11,300	59.0	10,100	66.0	9,200	72.5	8,500	56.5	12,400	64.0	10,800	70.0	9,500	75.5	8,700
60	47.0	10,500	55.0	9,600	62.0	8,800	68.0	8,200	53.5	11,700	60.5	10,200	67.0	9,200	72.0	8,400
65	42.5	9,900	50.5	9,100	57.5	8,500	63.0	8,000	50.0	11,000	57.0	9,800	63.5	8,900	68.5	8,200
70	38.0	9,400	46.0	8,700	52.5	8,200	57.5	7,900	46.5	10,400	53.5	9,400	59.5	8,600	64.5	8,000
75	32.5	8,900	40.5	8,400	47.0	8,000	51.0	7,800	43.0	9,900	50.0	9,000	55.5	8,300	60.0	7,900
80	26.5	8,400	34.5	8,100	40.0	7,800			38.5	9,400	45.5	8,700	51.5	8,100	55.0	7,800
85	18.0	8,000	26.0	7,900					34.0	8,900	41.0	8,400	46.5	8,000	49.5	7,800
90									29.0	8,500	36.0	8,100	40.5	7,800		
95									22.5	8,200	29.5	7,900	33.0	7,800		
100									13.0	7,900	19.5	7,800				
Min.Bm. Ang./Cap.	0.0	7,800	0.0	7,900	0.0	7,800	0.0	7,800	0.0	6,600	0.0	6,800	0.0	7,300	0.0	7,800
Radius	88.9		88.8		87		83.6		102		101.7		99.6		95.6	

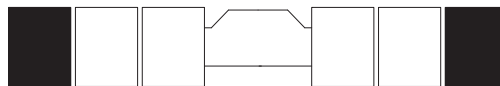
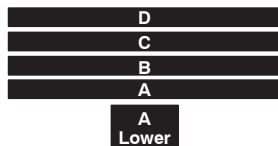
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Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	69.5' Boom								97.1' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)	∠ °	(lb)
20	78.0	21,600														
25	76.0	20,500							79.0	20,000						
30	73.5	19,200							77.0	19,300						
35	71.0	17,800	77.5	14,000					75.5	18,500						
40	69.0	16,500	75.0	13,300					73.5	17,800	78.5	13,900				
45	66.5	15,400	72.5	12,600	78.5	10,700			71.5	17,000	76.5	13,300				
50	64.0	14,400	70.0	11,900	75.5	10,200			69.5	16,100	74.5	12,800	79.0	10,600		
55	61.0	13,500	67.5	11,400	73.0	9,900	78.0	8,800	67.5	15,300	72.5	12,200	77.0	10,300		
60	58.5	12,800	65.0	10,900	70.5	9,500	75.0	8,600	65.5	14,500	70.5	11,800	75.0	10,000	79.0	8,800
65	56.0	12,100	62.0	10,400	67.5	9,200	72.0	8,400	63.5	13,800	68.5	11,300	73.0	9,700	76.5	8,600
70	53.0	11,400	59.0	10,000	64.5	8,900	68.5	8,200	61.5	13,200	66.5	10,900	71.0	9,400	74.5	8,500
75	50.0	10,900	56.0	9,600	61.5	8,700	65.5	8,100	59.5	12,600	64.0	10,500	68.5	9,200	72.0	8,300
80	46.5	10,300	53.0	9,200	58.0	8,400	62.0	7,900	57.0	12,000	62.0	10,200	66.0	9,000	69.5	8,200
85	43.5	9,900	49.5	8,900	54.5	8,200	58.0	7,800	55.0	11,500	59.5	9,900	64.0	8,800	67.0	8,100
90	40.0	9,400	46.0	8,600	50.5	8,100	53.5	7,800	52.5	11,000	57.5	9,600	61.5	8,600	64.5	8,000
95	36.0	9,000	42.0	8,400	46.5	7,900	49.0	7,800	50.0	10,600	55.0	9,300	59.0	8,400	61.5	7,900
100	31.5	8,700	37.5	8,200	41.5	7,800			47.5	10,200	52.0	9,000	56.0	8,300	58.5	7,800
105	26.5	8,400	32.5	8,000	36.0	7,800			44.5	9,800	49.5	8,800	53.5	8,100	55.5	7,800
110	20.0	8,100	26.0	7,800					42.0	9,500	46.5	8,600	50.0	8,000	52.5	7,800
115	9.5	7,900							38.5	9,200	43.5	8,400	47.0	7,900	48.5	7,700
120									35.5	8,900	40.0	8,200	43.5	7,800		
125									31.5	8,600	36.5	8,100	39.5	7,800		
130									27.5	8,400	32.0	7,900	34.5	7,800		
135									22.5	8,100	27.0	7,800				
140									15.5	7,900	20.0	7,800				
Min Bm. Ang./Cap.	0.0	5,800	0.0	6,000	0.0	6,400	0.0	7,300	0.0	4,200	0.0	4,300	0.0	4,600	0.0	5,200
Radius	116		115.6		113.2		108.7		143.6		143.1		140.2		135	

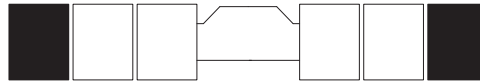
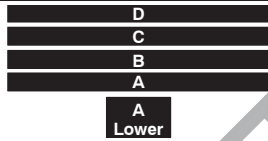
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Fully Extended



55' Offset Fly Capacities

Load Radius (ft)	125.6' Boom								154.9' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
35	78.0	17,100														
40	77.0	17,100														
45	75.5	16,900							78.0	14,300						
50	74.0	16,400	78.0	13,200					77.0	14,300						
55	72.5	16,000	76.5	12,800					76.0	14,300						
60	71.0	15,600	75.0	12,400	78.5	10,300			74.5	14,300	78.0	12,700				
65	69.0	15,000	73.0	12,000	77.0	10,100			73.5	14,300	77.0	12,400				
70	67.5	14,400	71.5	11,600	75.0	9,800	78.0	8,600	72.0	14,300	75.5	12,100	78.5	10,100		
75	66.0	13,800	70.0	11,300	73.5	9,600	76.5	8,500	71.0	14,300	74.0	11,700	77.0	9,900		
80	64.0	13,300	68.0	10,900	71.5	9,400	74.5	8,400	69.5	14,200	73.0	11,500	75.5	9,700	78.0	8,500
85	62.5	12,800	66.5	10,600	70.0	9,200	72.5	8,300	68.5	13,800	71.5	11,200	74.5	9,500	76.5	8,400
90	60.5	12,400	64.5	10,300	68.0	9,000	70.5	8,200	67.0	13,400	70.0	10,900	73.0	9,300	75.0	8,300
95	59.0	11,900	62.5	10,100	66.0	8,800	68.5	8,100	65.5	13,000	68.5	10,600	71.5	9,200	73.5	8,200
100	57.0	11,500	61.0	9,800	64.0	8,700	66.5	8,000	63.5	12,100	67.0	10,400	70.0	9,000	72.0	8,100
105	55.0	11,200	59.0	9,600	62.0	8,500	64.5	7,900	62.0	10,900	65.5	10,200	68.5	8,900	70.5	8,100
110	53.0	10,800	57.0	9,300	60.0	8,400	62.5	7,900	60.5	9,900	64.0	10,000	67.0	8,700	69.0	8,000
115	50.5	10,400	55.0	9,100	58.0	8,300	60.0	7,800	58.5	8,900	62.5	9,700	65.0	8,600	67.0	7,900
120	48.5	9,600	52.5	8,900	55.5	8,200	57.5	7,800	56.5	8,100	60.5	9,000	63.5	8,500	65.5	7,900
125	46.0	8,800	50.5	8,700	53.5	8,000	55.0	7,700	55.0	7,300	58.5	8,100	62.0	8,400	63.5	7,800
130	43.5	8,100	48.0	8,600	51.0	8,000	52.5	7,700	53.0	6,600	57.0	7,400	60.0	8,000	62.0	7,800
135	41.0	7,400	45.0	7,900	48.5	7,900	49.5	7,700	51.0	5,900	55.0	6,700	57.5	7,200	59.5	7,600
140	38.0	6,800	42.5	7,300	45.0	7,600	46.5	7,700	49.0	5,300	53.0	6,000	56.0	6,500	57.0	6,900
145	35.5	6,300	39.5	6,700	42.0	6,900			47.5	4,800	51.0	5,400	53.5	5,900	55.5	6,200
150	32.0	5,700	36.0	6,100	38.5	6,300			45.0	4,300	48.5	4,800	51.0	5,300	52.5	5,500
155	28.5	5,300	32.5	5,600	34.5	5,700			43.0	3,800	46.5	4,300	49.0	4,700	50.0	4,900
160	24.5	4,800	28.5	5,100					40.5	3,300	44.0	3,800	46.5	4,200	47.5	4,300
165	19.5	4,400	23.0	4,600					38.0	2,900	42.0	3,300	44.0	3,700		
170	12.0	4,100	15.0	4,100					35.5	2,500	39.0	2,900	41.5	3,200		
175									33.0	2,200	36.5	2,500	38.5	2,700		
180									30.0	1,800	33.5	2,100	35.0	2,300		
185									26.5	1,500	30.0	1,800	31.0	1,900		
190									23.0	1,200	26.0	1,400				
195											21.0	1,100				
Min. Bm. Ang./Cap.	0.0	2,500	0.0	2,500	0.0	2,700	0.0	3,100	19.5		18.0		19.5		10.5	
Radius	172.1		171.4		168.2		162.6		193.3		196.7		195		187.3	

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C B A A Lower Fully Extended																
55' Offset Fly Capacities																
Load Radius (ft)	42.4' Boom								55.5' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	⌵°	(lb)	⌵°	(lb)	⌵°	(lb)	⌵°	(lb)	⌵°	(lb)	⌵°	(lb)	⌵°	(lb)	⌵°	(lb)
15	77.5	23,100							79.0	23,300						
20	74.5	20,800							76.5	21,600						
25	71.5	18,600	79.5	15,200					74.0	19,900						
30	68.0	16,800	76.5	14,000					71.0	18,100	78.5	14,500				
35	65.0	15,300	73.0	13,000					68.5	16,600	75.5	13,600				
40	61.5	14,100	70.0	12,100	77.5	10,600			65.5	15,400	73.0	12,700	79.5	10,900		
45	58.0	13,000	66.5	11,300	74.0	10,100			63.0	14,300	70.0	12,000	76.5	10,400		
50	54.5	12,100	62.5	10,700	70.0	9,600	76.5	8,800	60.0	13,300	67.0	11,300	73.5	9,900	79.0	8,900
55	51.0	11,300	59.0	10,100	66.0	9,200	72.5	8,500	56.5	12,400	64.0	10,800	70.0	9,500	75.5	8,700
60	47.0	10,500	55.0	9,600	62.0	8,800	68.0	8,200	53.5	11,700	60.5	10,200	67.0	9,200	72.0	8,400
65	42.5	9,900	50.5	9,100	57.5	8,500	63.0	8,000	50.0	11,000	57.0	9,800	63.5	8,900	68.5	8,200
70	38.0	9,400	46.0	8,700	52.5	8,200	57.5	7,900	46.5	10,400	53.5	9,400	59.5	8,600	64.5	8,000
75	32.5	8,900	40.5	8,400	47.0	8,000	51.0	7,800	43.0	9,900	50.0	9,000	55.5	8,300	60.0	7,900
80	26.5	8,400	34.5	8,100	40.0	7,800			38.5	9,400	45.5	8,700	51.5	8,100	55.0	7,800
85	18.0	8,000	26.0	7,900					34.0	8,900	41.0	8,400	46.5	8,000	49.5	7,800
90									29.0	8,500	36.0	8,100	40.5	7,800		
95									22.5	8,200	29.5	7,900	33.0	7,800		
100									13.0	7,900	19.5	7,800				
Min.Bm. Ang./Cap.	0.0	7,800	0.0	7,900	0.0	7,800	0.0	7,800	0.0	6,600	0.0	6,800	0.0	7,300	0.0	7,800
Radius	88.9		88.8		87		83.6		102		101.7		99.6		95.6	

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C B A A Lower Fully Extended																
55' Offset Fly Capacities																
Load Radius (ft)	69.5' Boom								97.1' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)	⤵ °	(lb)
20	78.0	21,600														
25	76.0	20,500							79.0	20,000						
30	73.5	19,200							77.0	19,300						
35	71.0	17,800	77.5	14,000					75.5	18,500						
40	69.0	16,500	75.0	13,300					73.5	17,800	78.5	13,900				
45	66.5	15,400	72.5	12,600	78.5	10,700			71.5	17,000	76.5	13,300				
50	64.0	14,400	70.0	11,900	75.5	10,200			69.5	16,100	74.5	12,800	79.0	10,600		
55	61.0	13,500	67.5	11,400	73.0	9,900	78.0	8,600	67.5	15,300	72.5	12,200	77.0	10,300		
60	58.5	12,800	65.0	10,900	70.5	9,500	75.0	8,600	65.5	14,500	70.5	11,800	75.0	10,000	79.0	8,800
65	56.0	12,100	62.0	10,400	67.5	9,200	72.0	8,400	63.5	13,800	68.5	11,300	73.0	9,700	76.5	8,600
70	53.0	11,400	59.0	10,000	64.5	8,900	68.5	8,200	61.5	13,200	66.5	10,900	71.0	9,400	74.5	8,500
75	50.0	10,900	56.0	9,600	61.5	8,700	65.5	8,100	59.5	12,600	64.0	10,500	68.5	9,200	72.0	8,300
80	46.5	10,300	53.0	9,200	58.0	8,400	62.0	7,900	57.0	12,000	62.0	10,200	66.0	9,000	69.5	8,200
85	43.5	9,900	49.5	8,900	54.5	8,200	58.0	7,800	55.0	11,500	59.5	9,900	64.0	8,800	67.0	8,100
90	40.0	9,400	46.0	8,600	50.5	8,100	53.5	7,800	52.5	11,000	57.5	9,600	61.5	8,600	64.5	8,000
95	36.0	9,000	42.0	8,400	46.5	7,900	49.0	7,800	50.0	10,600	55.0	9,300	59.0	8,400	61.5	7,900
100	31.5	8,700	37.5	8,200	41.5	7,800			47.5	10,200	52.0	9,000	56.0	8,300	58.5	7,800
105	26.5	8,400	32.5	8,000	36.0	7,800			44.5	9,800	49.5	8,800	53.5	8,100	55.5	7,800
110	20.0	8,100	26.0	7,800					42.0	9,500	46.5	8,600	50.0	8,000	52.5	7,800
115	9.5	7,900							38.5	9,200	43.5	8,400	47.0	7,900	48.5	7,700
120									35.5	8,900	40.0	8,200	43.5	7,800		
125									31.5	8,600	36.5	8,100	39.5	7,800		
130									27.5	8,400	32.0	7,900	34.5	7,800		
135									22.0	7,800	27.0	7,800				
140									15.5	7,300	19.5	7,400				
Min.Bm. Ang./Cap.	0.0	5,800	0.0	6,000	0.0	6,400	0.0	7,300	0.0	4,200	0.0	4,300	0.0	4,600	0.0	5,200
Radius	116		115.6		113.2		108.7		143.6		143.1		140.2		135	

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C B A A Lower																
Fully Extended																
55' Offset Fly Capacities																
Load Radius (ft)	125.6' Boom								154.9' Boom							
	2'		15'		30'		45'		2'		15'		30'		45'	
	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)	∠	(lb)
35	78.0	17,100														
40	77.0	17,100														
45	75.5	16,900							78.0	14,300						
50	74.0	16,400	78.0	13,200					77.0	14,300						
55	72.5	16,000	76.5	12,800					76.0	14,300						
60	71.0	15,600	75.0	12,400	78.5	10,300			74.5	14,300	78.0	12,700				
65	69.0	15,000	73.0	12,000	77.0	10,100			73.5	14,300	77.0	12,400				
70	67.5	14,400	71.5	11,600	75.0	9,800	78.0	8,600	72.0	14,300	75.5	12,100	78.5	10,100		
75	66.0	13,800	70.0	11,300	73.5	9,600	76.5	8,500	71.0	14,300	74.0	11,700	77.0	9,900		
80	64.0	13,300	68.0	10,900	71.5	9,400	74.5	8,400	69.5	14,200	73.0	11,500	75.5	9,700	78.0	8,500
85	62.5	12,800	66.5	10,600	70.0	9,200	72.5	8,300	68.5	13,800	71.5	11,200	74.5	9,500	76.5	8,400
90	60.5	12,400	64.5	10,300	68.0	9,000	70.5	8,200	67.0	13,400	70.0	10,900	73.0	9,300	75.0	8,300
95	59.0	11,900	62.5	10,100	66.0	8,800	68.5	8,100	65.0	12,200	68.5	10,600	71.5	9,200	73.5	8,200
100	57.0	11,500	61.0	9,800	64.0	8,700	66.5	8,000	63.0	10,900	67.0	10,400	70.0	9,000	72.0	8,100
105	55.0	11,200	59.0	9,600	62.0	8,500	64.5	7,900	62.0	9,900	65.5	10,200	68.5	8,900	70.5	8,100
110	52.5	10,400	57.0	9,300	60.0	8,400	62.5	7,900	60.0	8,900	63.5	9,900	67.0	8,700	69.0	8,000
115	50.5	9,500	55.0	9,100	58.0	8,300	60.0	7,800	58.0	8,000	62.5	8,900	65.0	8,600	67.0	7,900
120	48.0	8,700	52.5	8,900	55.5	8,200	57.5	7,800	56.5	7,200	60.5	8,000	63.5	8,500	65.5	7,900
125	46.0	7,900	50.0	8,500	53.5	8,000	55.0	7,700	54.5	6,400	58.5	7,300	61.5	7,900	63.5	7,800
130	43.0	7,200	48.0	7,800	51.0	8,000	52.5	7,700	53.0	5,800	56.5	6,500	59.5	7,100	61.5	7,600
135	41.0	6,600	45.0	7,100	48.0	7,500	49.5	7,700	50.5	5,100	54.5	5,800	57.5	6,400	59.0	6,800
140	38.0	6,100	42.0	6,500	45.0	6,800	46.0	7,000	49.0	4,600	52.5	5,200	55.5	5,800	57.0	6,100
145	35.0	5,500	39.0	5,900	42.0	6,200			47.0	4,000	50.5	4,600	53.5	5,100	55.0	5,400
150	31.5	5,000	36.0	5,400	38.0	5,600			45.0	3,500	48.5	4,100	51.0	4,500	52.5	4,800
155	28.5	4,600	32.0	4,900	34.0	5,000			42.5	3,100	46.5	3,600	49.0	4,000	50.0	4,200
160	24.0	4,200	28.0	4,400					40.5	2,700	44.0	3,100	46.5	3,500	47.0	3,600
165	19.0	3,800	23.0	3,900					38.0	2,300	41.5	2,700	43.5	3,000		
170	11.5	3,400							35.5	1,900	39.0	2,300	41.0	2,500		
175									32.5	1,600	36.0	1,900	38.0	2,100		
180									30.0	1,200	33.0	1,500	34.5	1,700		
185											30.0	1,200	31.0	1,300		
Min Bm Ang./Cap.	0.0	2,500	0.0	2,500	0.0	2,700	0.0	3,100	27.5		27.0		27.5		26.0	
Radius	172.1		171.4		168.2		162.6		183.3		188.3		188.7		186.7	

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