# Load capacity charts

These load capacity charts meet the requirements of ANSI B30.5 (incl. SAE J987, SAE J765).

The machine classification acc. ISO 4301/1 and /2 given by the manufacturer is A1 (Q1, U2). Please see also operating manual chapter 1 "Equipment rating" where the state of loading (Q1) and the class of utilization (U2) is explained.

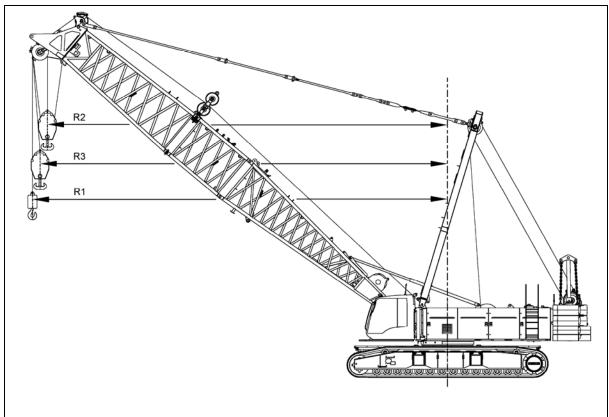
All radii which are allowed show a rated capacity, other length and radii are not approved.

The load capacities are only applicable to machines standing on horizontal (tolerance 1%, 1%), solid and sufficiently supportive subsoil.

Load ratings are based on the freely suspended load.

None of the loads shown exceeds 75% of the tipping load. The values shown on a grey background are load capacities that are limited by the structure of the machine. All values shown with a white background are tilting load values.

The outreach is the radius measured between the centre of the slewing ring and the center of the load hook or the pulley block. Different outreaches at the same boom angle result from different reevings. The LML (load moment limitation) on the machine takes this change into account.



schematic diagram

R3	Triple to n-times reeved hoisting cable
	Double reeved hoisting cable
	Single reeved hoisting cable

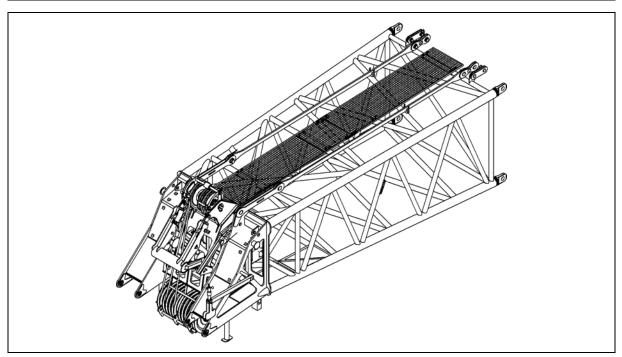
The outreach (radius) in the load capacity chart always refers to R3.



These load capacity charts are only applicable to original LIEBHERR machine and boom components that are new and in perfect condition. Any form of damage, any modification or addition that has not been approved by LIEBHERR invalidates the following load capacities, which in such cases must not be applied.

The suspended hoisting ropes, the load hook/pulley block and the slinging equipment form part of the load. These weights must always be deducted from the value shown in the table. The per-meter weight of the rope is stated in the Rope Certificate.

The rated rope pull of the hoisting winches is 33744lbs (150kN). The reeving should be selected in such a way that this value is not exceeded. The tables below show the reevings and the associated maximum load capacities. The efficiency of the rope drive has been taken into account in these tables.



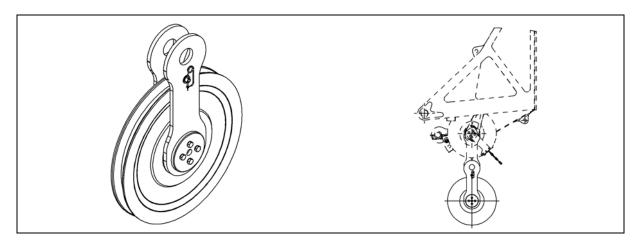
Reeving	1	2	3	4	5	6	7	8	9	10
Load capacity [lbs]	33400	66400	99200	131600	163600	195400	226900	258000	288800	319300
Load capacity [t]	15.2	30.1	45.0	59.7	74.2	88.6	102.9	117.0	131.0	144.8

Reeving	11	12	13	14	15	16	17	18	19	20
Load capacity [lbs]	349500	379400	409000	438300	467300	496000	524500	552600	580500	608100
Load capacity [t]	158.5	172.1	185.5	198.8	212.0	225.0	237.9	250.7	263.3	275.8

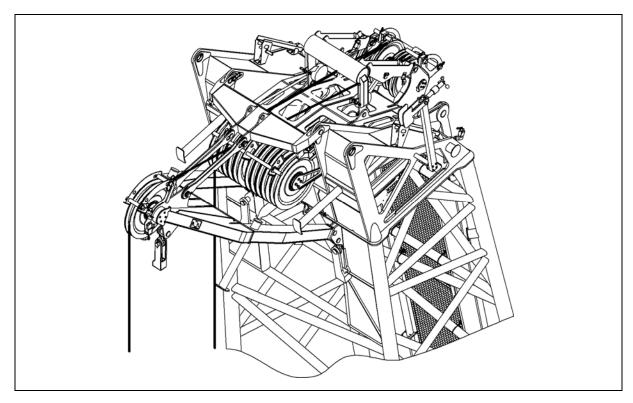




Add. equipment: rope pulley 11 (max. reeving: 22)	Reeving	21	22
	Load capacity [lbs]	628900	661400
	Load capacity [t]	285.3	300.0



Boom head 2821-2 2821.30 25.0ft (7,77m) 1 (2) rope pulleys (maximum reeving: 2 (3))



Reeving	1	2	3
Load capacity [lbs]	33400	66400	79400
Load capacity [t]	15.2	30.1	36.0



The load capacities for the tip boom have been calculated on the assumption that an unloaden pulley block with a dead weight of 6600lbs (3t) is reeved at the load fall point main boom head. Load capacity charts are only provided for self-erecting boom lengths.

The pulley block should be reeved in accordance with the reeving diagrams in chapter 6 of the operating manual.

To ensure that at minimum radius the pulley block can always be lowered to the ground, the maximum possible reeving, which depends on the hoisting rope (rope length) used, must be checked. More details can be found in chapter 6 "Required hoist rope length" of the operating manual.

The machine is approved for use in an outside temperature range from -4°F to +104°F (-20°C to +40°C).

Dynamic effects due to hoisting and lowering of the load, booming, slewing, travelling and wind must be considered by the machine operator. The machine operator shall therefore reduce load ratings in order to take these conditions into account.

Rated load capacities do not account for effects of wind on a suspended load or boom. Judgement and experience of the machine operator, job planners and supervisors must be used to compensate for affect of wind on the lifted load and boom by reducing ratings, reducing speeds or a combination of both. Local conditions have to be considered additionally (e.g. wind effects between and around buildings). As a guideline the following table shows rating reductions [%] which shall be used as a minimum. For changing wind speeds an especially for gusts of wind the maximum wind speed must be used. For wind speeds between given values the maximum wind speed has to be taken. The following table is valid only for this machine and the attached chart.

Main boom length [ft (m)]	all combinations		
Wind speed [mph (m/s)]	Reduction by: [%]		
15 (7)	0		
20 (9)	10		
25 (11)			
30 (13)	20		
35 (16)	30		
over 35 (16)	Operation prohibited		

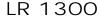
Chapter 5 "Boom park position" of the operating manual describes the permitted park positions of the machine.

If a wind speed in excess of 50mph (22m/s) is expected or has been forecast, then the entire boom must be laid flat on the ground (see chapters 2 and 5 of the operating manual).

The wind load applied in the load capacity calculation is based on 0.84 square inch per lbs (1.2 m²/t) of the load. If this ratio is greater for light loads with a large surface area, then the manufacturer should be asked to provide details of the reduced load capacities in advance.

The reductions of the load capacities and further restrictions for the use with the tip boom must be taken out of chapter 5 "Hoisting a load at the main boom head load position with tip boom fitted" of the operating manual. Following table gives a rough estimation.

	Reduction by: [lbs (kg)]
Tip boom without rope	2645 (1200)
Tip boom with load hook [1323lbs (600kg)]	4409 (2000)
Tip boom with pulley block [3307lbs (1500ka)]	7165 (3250)





If the pendant straps of the luffing jib remain on the main boom, the following values must be deducted from the load capacity for each pendant strap of the luffing jib.

per 9.8ft (3.0m) pendar	t strap per 1	9.7ft (6.0m) pendant s	strap per 3	39.4ft (12m) pendant strap
110lbs (50kg)		200lbs (90kg)		400lbs (180kg)

The pendant straps of the luffing jib must be completely removed in all cases where main booms are between 262ft (80m) and 404ft (123m) in length. The manufacturer recommends that the pendant straps of the luffing jib are always removed.

The machine operator must hold the qualifications stated in chapter 2 "Personal attributes required of the machine operator" of the operating manual. The machine operator and all other personnel who are involved with its operation must have read and understood the latest applicable ANSI code for mobile crane (ANSI B30.5).

Travelling inevitably produces certain dynamic effects on the machine. For this reason a machine's load must always be reduced before the machine starts to travel. The load reduction should be calculated as follows:

Load capacity - 10%
Load capacity - 2200lbs (1000kg)

The lower value must be used.

The machine must only be moved very slowly (less than 0.9mph (0.4m/s)) and only when the subsoil is level and firm. Any dynamic effects must be reduced to the absolute minimum. The load must not be allowed to sway. See also chapter 5 "Moving the machine on ground slope" of the operating manual.

#### Blocked crawlers:

Using the load capacities over the tipping edge tumbler or idler the degree rating is limited ( $\pm$  45° alongside to the crawlers). Travelling is not permitted. See also chapter 4 "Blocked Crawlers" of the operating manual.



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]					
66 ft Main boom, Load fall point Boom, HPT head (2821-1)								
40 45 50 55 60	61.9 56.6 50.9 44.7 37.5	63 60 56 51 44	301.0 260.9 224.9 197.1 174.9					
		36 oom, L PT head	156.8 oad fall l (2821-2)					
35 40 45 50 55 60 65 70	72.8 68 63.1 57.9 52.2 45.8 38.4 28.7	70 67 64 60 55 50 42 32	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4					
76 ft	Main b	oom, L						
40 45 50 55 60 65 70 75	65.9 61.5 57 52.1 46.9 41.1 34.5 26.2	75 72 69 65 60 54 47 37	301.1 261.4 225.3 197.6 175.5 157.5 142.6 129.9					
		oom, Lo PT head	oad fall   (2821-2)					
35 40 45 50 55 60 65 70 75 80	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8	80 78 75 72 68 64 59 52 44 33	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4					
85 ft point B								
35 40 45 50 55	72.5 68.9 65.1 61.3 57.3	88 86 83 80 77	346.3 300.4 261.3 225.3 197.5					
60 65 70 75 80 85	53.1 48.5 43.7 38.3 32 24.2	73 69 64 57 49	175.4 157.5 142.6 130.0 119.2 109.8					

273 125			
Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
85 ft	Main b	oom, L	oad fall
point B	oom, H	PT head	l (2821-2)
			=0.4
30 35	80.2 76.8	92 91	79.4 79.4
40	73.3	89	79.4
45	69.8	86	79.4
50	66.1	84	79.4
55 60	62.3 58.3	81 77	79.4 79.4
65	54	73	79.4
70	49.5	68	79.4
75	44.5	62	79.4
80 85	38.9 32.3	55 46	79.4 79.4
90	23.4	34	79.4
95 ft point B	Main b oom, H		oad fall l (2821-1)
35	74.1	98	66.4
40 45	71.2 67.9	96 94	300.6 261.6
50	64.6	92	225.6
55	61.1	89	197.8
60	57.5	86	175.8
65	53.8	82 78	157.9
70 75	49.8 45.6	73	143.0 130.4
80	41	67	119.7
85	35.9	60	110.4
90 95	29.9 22.5	52 40	102.2
			94.9
95 ft		oom, L	
			l (2821-2)
30	81.2	102	79.4
35 40	78.2 75.1	101 99	79.4 79.4
45	73.1	99	79.4
50	68.7	95	79.4
55	65.4	92	79.4
60 65	62 58.4	89 86	79.4 79.4
70	54.6	82	79.4
75	50.6	77	79.4
	46.3	71	79.4
80		1 0-	70.4
85	41.6	65 58	79.4
		65 58 48	79.4 79.4 79.4

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall   (2821-1)
35 40 45 50 55	75.9 73 70.1 67.1 64.1	108 107 105 103 100	343.1 299.8 261.5 225.4 197.6
60 65 70 75 80	60.9 57.7 54.3 50.8 47 43	97 94 90 86 82	175.6 157.6 142.7 130.2 119.5
85 90 95 100 105	38.7 33.8 28.2 22.7	76 70 63 54 44	110.2 102.0 94.9 88.4 33.4
			oad fall (2821-2)
30 35 40 45 50 55 60 65 70 75	82.1 79.3 76.5 73.7 70.8 67.9 64.9 61.7 58.5 55.1	113 111 110 108 106 103 101 98 94 90	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
80 85 90 95 100	51.5 47.8 43.7 39.2 34.1	86 81 75 68 60	79.4 79.4 79.4 79.4 79.4
105 110	28.1 19.8	50 35	78.1 72.7
			oad fall   (2821-1)
35 40 45 50 55	77.1 74.5 71.9 69.2 66.5	118 117 115 113 111	341.9 299.3 261.4 225.3 197.5
60 65 70 75 80	63.7 60.8 57.9 54.8 51.6	109 106 103 99 95	175.4 157.5 142.6 130.0 119.3
85 90 95 100 105	48.2 44.7 40.9 36.7 32	90 85 80 73 65	110.0 101.9 94.8 88.4 82.7
110 115	26.6 21.4	55 46	77.6 33.4



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
		boom, I	oad fall l (2821-2)
30	82.7	123	79.4
35	80.2	122	79.4
40	77.7	120	79.4
45	75.1	118	79.4
50	72.5	116	79.4
55	69.9	114	79.4
60	67.2	112	79.4
65	64.4	109	79.4
70	61.5	106	79.4
75	58.6	103	79.4
80	55.5	99	79.4
85	52.3	94	79.4
90	48.9	90	79.4
95	45.3	84	79.4
100	41.4	78	79.4
105	37.1	70	78.3
110	32.2	62	73.0
115	26.4	51	68.2
120	18.4	35	63.7
		PT head	oad fall l (2821-1)
30	80.5	130	391.0
35	78.2	129	339.6
40	75.8	127	296.5
45	73.4	126	261.1
50	70.9	124	225.0
55	68.5	122	197.1
60	65.9	120	175.0
65	63.4	117	157.1
70	60.7	114	142.2
75	58	111	129.6
80	55.2	108	118.9
85	52.3	104	109.6
90	49.2	99	101.5
95	46	94	94.4
100	42.6	89	88.1
105	39	83	82.4
110	35	76	77.3
115	30.5	67	72.6

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
125 ft point B			oad fall l (2821-2)
30	83.3	133	79.4
35	81	132	79.4
40	78.7	130 129	79.4 79.4
45 50	76.3 74	129	79.4 79.4
55	71.5	125	79.4
60	69.1	123	79.4
65	66.6	120	79.4
70	64	118	79.4
75	61.4	114	79.4
80	58.6	111	79.4
85 90	55.8 52.9	107 103	79.4 79.4
90 95	52.9 49.8	98	79.4 79.4
100	46.6	93	79.4
105	43.1	87	78.0
110	39.4	81	72.8
115	35.3	73	68.0
120	30.6	64	63.7
125	24.9	52	59.7
130	19.1	40	33.4
_	oom, H	PT head	
point B	81.2	<b>PT head</b>	388.6
30 35	81.2 79	140 139	388.6 338.9
point B	81.2	<b>PT head</b>	388.6
30 35 40	81.2 79 76.9	140 139 138	388.6 338.9 295.3
30 35 40 45 50 55	81.2 79 76.9 74.6 72.4 70.1	140 139 138 136 134 133	388.6 338.9 295.3 261.1 224.9 197.1
30 35 40 45 50 55 60	81.2 79 76.9 74.6 72.4 70.1 67.8	140 139 138 136 134 133 130	388.6 338.9 295.3 261.1 224.9 197.1 175.0
30 35 40 45 50 55 60 65	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5	140 139 138 136 134 133 130 128	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0
30 35 40 45 50 55 60 65 70	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1	140 139 138 136 134 133 130 128 126	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1
30 35 40 45 50 55 60 65 70 75	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6	140 139 138 136 134 133 130 128 126 123	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6
30 35 40 45 50 55 60 65 70	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1	140 139 138 136 134 133 130 128 126 123 120	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1
30 35 40 45 50 55 60 65 70 75 80	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6	140 139 138 136 134 133 130 128 126 123	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9
30 35 40 45 50 55 60 65 70 75 80 85 90 95	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1 55.5 52.8 50	140 139 138 136 134 133 130 128 126 123 120 116 112	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9 109.6 101.5 94.4
30 35 40 45 50 55 60 65 70 75 80 85 90 95	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1 55.5 52.8 50 47.1	140 139 138 136 134 133 130 128 126 123 120 116 112 108	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9 109.6 101.5 94.4 88.0
30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1 55.5 52.8 50 47.1 44	140 139 138 136 134 133 130 128 126 123 120 116 112 108 103	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9 109.6 101.5 94.4 88.0 82.4
30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1 55.5 52.8 50 47.1 44	140 139 138 136 136 134 133 130 128 126 123 120 116 112 108 103 98 92	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9 109.6 101.5 94.4 88.0 82.4 77.3
30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1 55.2.8 50 47.1 44 40.8 37.3	140 139 138 138 136 134 133 130 128 126 123 120 116 112 108 103 98 92 86	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9 109.6 101.5 94.4 88.0 82.4 77.3 72.7
30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	81.2 79 76.9 74.6 72.4 70.1 67.8 65.5 63.1 60.6 58.1 55.5 52.8 50 47.1 44	140 139 138 136 136 134 133 130 128 126 123 120 116 112 108 103 98 92	388.6 338.9 295.3 261.1 224.9 197.1 175.0 157.0 142.1 129.6 118.9 109.6 101.5 94.4 88.0 82.4 77.3

Radius [ft ]:	boom angle	Rope pulley height	Load capacity [1000 lbs
			oad fall (2821-2)
25	85.9	143	79.4
30	83.8	143	79.4
35	81.7	142	79.4
40	79.5	140	79.4
45	77.4	139	79.4
50	75.2	137	79.4
55	72.9	136	79.4
60	70.7	134	79.4
65	68.4	131	79.4
70 75 80 85 90	66.1 63.7 61.2 58.7	129 126 123 120	79.4 79.4 79.4 79.4 79.4
95 100 105 110	56.1 53.4 50.6 47.7 44.6	116 112 107 102 97	79.4 79.4 78.0 72.8
115	41.2	90	68.1
120	37.6	83	63.8
125	33.7	75	59.9
130	29	65	56.2
135	23.4	53	52.8
140 1 <b>44 ft</b> point B			33.4 oad fall l (2821-1)
30	81.8	150	386.3
35	79.8	149	334.5
40	77.8	148	294.2
45	75.7	146	260.1
50	73.6	145	224.6
55	71.5	143	196.7
60	69.4	141	174.6
65	67.3	139	156.6
70	65.1	137	141.7
75	62.8	134	129.2
80	60.5	131	118.4
85	58.2	128	109.2
90	55.8	125	101.1
95	53.3	121	93.9
100	50.7	117	87.6
105	48.1	112	81.9
110	45.3	107	76.8
115	42.3	102	72.2
120	39.2	96	68.0
125	35.8	89	64.2
130	32.1	81	60.7
135	27.9	72	57.4
140	23	60	54.4



Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
144 ft Main boom, Load fall point Boom, HPT head (2821-2)						
25	86	153	79.4			
30 35	84.2 82.2	153 152	79.4 79.4			
40	80.2	151	79.4			
45	78.2	149	79.4			
50 55	76.2 74.1	148 146	79.4 79.4			
60	74.1 72.1	144	79.4			
65	70	142	79.4			
70 75	67.8 65.6	140 137	79.4 79.4			
80	63.4	134	79.4			
85	61.1	131	79.4			
90 95	58.8 56.4	128 124	79.4 79.4			
100	53.9	120	79.4			
105	51.3	116	77.6			
110 115	48.6 45.7	111 106	72.4 67.7			
120	42.7	100	63.5			
125	39.5	93	59.5			
130 135	36 32.1	86 77	55.9 52.6			
140	27.7	67	49.5			
145	22.5	55	46.6			
150	16.9	41	33.4			
			oad fall			
ропп в	oom, n	гт пеас	l (2821-1)			
	-00.4	160	204.4			
30	82.4		384.4			
35	80.5	159	330.8			
35 40 45	80.5 78.6 76.7	159 158 157	330.8 292.9 259.0			
35 40 45 50	80.5 78.6 76.7 74.7	159 158 157 155	330.8 292.9 259.0 224.3			
35 40 45 50 55	80.5 78.6 76.7 74.7 72.8	159 158 157 155 154	330.8 292.9 259.0 224.3 196.4			
35 40 45 50 55 60 65	80.5 78.6 76.7 74.7	159 158 157 155 154 152 150	330.8 292.9 259.0 224.3			
35 40 45 50 55 60 65 70	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8	159 158 157 155 154 152 150 148	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4			
35 40 45 50 55 60 65 70 75	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8 64.7	159 158 157 155 154 152 150 148 145	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8			
35 40 45 50 55 60 65 70	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8	159 158 157 155 154 152 150 148	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4			
35 40 45 50 55 60 65 70 75 80 85 90	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8 64.7 62.6 60.5 58.3	159 158 157 155 154 152 150 148 145 142 140 136	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 108.8 100.7			
35 40 45 50 55 60 65 70 75 80 85 90	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8 64.7 62.6 60.5 58.3 56	159 158 157 155 154 152 150 148 145 142 140 136 133	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 108.8 100.7 93.6			
35 40 45 50 55 60 65 70 75 80 85 90	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8 64.7 62.6 60.5 58.3	159 158 157 155 154 152 150 148 145 142 140 136 133 129	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 108.8 100.7			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	80.5 78.6 76.7 74.7 72.8 70.8 68.8 66.8 64.7 62.6 60.5 58.3 56 53.7 51.3 48.9	159 158 157 155 154 152 150 148 145 142 140 136 133 129 125 121	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 100.7 93.6 87.3 81.6 76.5			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	80.5 78.6 76.7 74.7 72.8 70.8 66.8 66.8 64.7 62.6 60.5 58.3 56 53.7 51.3 48.9 46.3	159 158 157 155 154 152 150 148 145 142 140 136 133 129 125 121 116	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 108.8 100.7 93.6 87.3 81.6 76.5 71.9			
35 40 45 50 55 60 65 70 75 80 95 100 105 110 115 120 125	80.5 78.6 76.7 74.7 72.8 70.8 68.8 64.7 62.6 60.5 58.3 56 53.7 51.3 48.9 46.3 43.6 40.7	159 158 157 155 154 152 150 148 145 142 140 136 133 129 125 121	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 100.7 93.6 87.3 81.6 76.5			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 125 130	80.5 78.6 76.7 74.7 72.8 70.8 68.8 64.7 62.6 60.5 58.3 56 53.7 51.3 48.9 46.3 43.4 40.7 37.7	159 158 157 155 154 152 150 148 145 142 140 136 133 129 125 121 116 111 105 99	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 100.7 93.6 87.3 81.6 76.5 71.9 67.7 63.9			
35 40 45 50 55 60 65 70 75 80 85 100 105 110 115 120 125 130 135	80.5 78.6 76.7 74.7 72.8 70.8 66.8 64.7 62.6 60.5 58.3 56 53.7 51.3 48.9 46.3 43.6 40.7 37.7 37.7	159 158 157 155 154 152 150 148 145 142 140 136 133 129 125 121 116 111 105 99 91	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 108.8 100.7 93.6 87.3 81.6 76.5 71.9 67.7 63.9			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 125 130	80.5 78.6 76.7 74.7 72.8 70.8 68.8 64.7 62.6 60.5 58.3 56 53.7 51.3 48.9 46.3 43.4 40.7 37.7	159 158 157 155 154 152 150 148 145 142 140 136 133 129 125 121 116 111 105 99	330.8 292.9 259.0 224.3 196.4 174.3 156.3 141.4 128.8 118.1 100.7 93.6 87.3 81.6 76.5 71.9 67.7 63.9			

125	.7		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
26	86	163	79.4
30	84.6	163	79.4
35	82.7	162	79.4
40	80.9	161	79.4
45	79	159	79.4
50	77.1	158	79.4
55 60 65	75.2 73.2 71.3	156 155 153	79.4 79.4 79.4 79.4
70	69.3	151	79.4
75	67.3	148	79.4
80	65.2	146	79.4
85	63.1	143	79.4
90	61	140	79.4
95	58.8	136	79.4
100	56.6	133	79.4
105	54.2	129	77.3
110	51.8	125	72.1
115	49.3	120	67.4
120	46.7	115	63.2
125	44	109	59.3
130	41.1	103	55.7
135	37.9	96	52.4
140	34.6	88	49.3
145	30.9	80	46.5
150	26.5	69	43.8
155	21.4	56	41.3
			oad fall l (2821-1)
25	84.6	170	446.9
30	82.8	170	382.5
35	81	169	328.2
40	79.3	168	290.8
45	77.5	167	257.5
50	75.7	165	224.0
55	73.8	164	196.1
60	72	162	173.9
65	70.1	160	155.9
70	68.3	158	140.9
75	66.3	156	128.4
80	64.4	154	117.6
85	62.4	151	108.3
90	60.4	148	100.2
95	58.4	145	93.1
100	56.2	142	86.8
105	54.1	138	81.1
110	51.9	134	76.0
115	49.6	130	71.4
120	47.2	125	67.2
125	44.7	120	63.4
130	42.1	114	59.9
135	39.3	108	56.7
140	36.4	102	53.7
145	33.2	94	50.9
150	29.7	85	48.3
155	25.8	75	45.9

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]			
	164 ft Main boom, Load fall point Boom, HPT head (2821-2)					
27	86	173	79.4			
30	84.9	172	79.4			
35	83.2	172	79.4			
40	81.4	171	79.4			
45	79.6	170	79.4			
50	77.9	168	79.4			
55	76.1	167	79.4			
60	74.3	165	79.4			
65	72.5	163	79.4			
70 75 80 85	70.6 68.7 66.8 64.9	163 161 159 157 154	79.4 79.4 79.4 79.4 79.4			
90	62.9	151	79.4			
95	60.9	148	79.4			
100	58.8	145	79.4			
105	56.7	141	76.9			
110	54.6	138	71.7			
115	52.3	133	67.0			
120	50	129	62.7			
125	47.6	124	58.8			
130	45.1	119	55.3			
135	42.4	113	52.0			
140	39.6	106	48.9			
145	36.6	99	46.1			
150	33.3	91	43.4			
155 160 165	29.7 25.4 20.3	82 70 56	43.4 41.0 38.6 36.4			
174 ft point B			oad fall l (2821-1)			
25	84.9	180	438.3			
30	83.2	180	377.6			
35	81.6	179	326.0			
40	79.9	178	286.8			
45	78.2	177	256.2			
50	76.5	176	223.8			
55	74.8	174	195.8			
60	73.1	173	173.7			
65	71.3	171	155.6			
70	69.6	169	140.7			
75	67.8	167	128.1			
80	66	165	117.4			
85	64.1	162	108.1			
90	62.3	160	100.0			
95	60.4	157	92.9			
100	58.4	154	86.5			
105	56.4	150	80.9			
110	54.4	146	75.8			
115	52.3	143	71.2			
120	50.2	138	67.0			
125 130 135 140 145	47.9 45.6 43.2 40.7 38	134 129 124 118	63.2 59.7 56.5 53.5 50.7			
150 155 160 165 170	35.2 32.1 28.7 24.9 20.3	111 104 96 88 77 64	48.2 45.8 43.5 41.4 39.4			



Version: 9839979/59979/ HPT foot: 2821-1 360°

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: 273.4 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	boom		Load capacity [1000 lbs ]			
	174 ft Main boom, Load fall point Boom, HPT head (2821-2)					
28	86	183	79.4			
30	85.2	182	79.4			
35	83.5	182	79.4			
40	81.9	181	79.4			
45 50	80.2	180 178	79.4 79.4			
50 55	78.6 76.9	176	79.4 79.4			
60	75.2	176	79.4			
65	73.5	174	79.4			
70	71.7	172	79.4			
75	70	170	79.4			
80	68.2	168	79.4			
85	66.4	165	79.4			
90	64.6	163	79.4			
95	62.7	160	79.1			
100	60.8	157	78.8			
105	58.9	154	76.6			
110 115	56.9 54.9	150 146	71.5 66.8			
120	54.9 52.8	140	62.5			
125	50.6	138	58.6			
130	48.3	133	55.1			
135	46	128	51.8			
140	43.6	122	48.8			
145	41	116	45.9			
150	38.2	109	43.3			
155	35.4	102	40.9			
160	32.2	93	38.6			
165 170	28.6 24.5	83 72	36.4 34.3			
175	20.8	61	32.6			
	Main l	boom, I	oad fall			

184 ft	Main	boom,	Lo	ad fall	
oint B	oom, H	IPT hea	ad (	2821-1	)

point B	oom, H	PT head	l (2821-1)
22	86	190	419.7
25	85.2	190	419.7
30	83.6	190	368.6
35	82	189	323.8
40	80.4	188	283.7
45	78.8	187	254.8
50	77.2	186	223.5
55	75.6	184	195.5
60	74	183	173.3
65	72.4	181	155.2
70 75	70.7	180	140.3
75 90	69	178	127.7
80 85	67.3 65.6	176 173	116.9 107.6
90	63.9	173	99.5
95	62.1	168	92.4
100	60.3	165	86.0
105	58.5	162	80.4
110	56.6	159	75.3
115	54.7	155	70.7
120	52.7	151	66.5
125	50.7	147	62.7
130	48.6	143	59.2
135	46.5	138	55.9
140	44.2	133	53.0
145	41.9	127	50.2
150	39.4	121	47.7
155	36.8	114	45.3
160	34.1	107	43.0
165	31.1	99	40.9
170 175	27.8 24	90 79	39.0 37.1
180	2 <del>4</del> 19.6	79 65	35.3
100	13.0	US	30.0

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
28	86	193	79.4

JOIN D	00III, 1II	. I Heau	(2021-2)
28	86	193	79.4
30	85.4	192	79.4
35	83.9	192	79.4
40	82.3	191	79.4
45	80.8	190	79.4
50	79.2	189	79.4
55	77.6	187	79.4
60	76	186	79.4
65	74.4	184	79.4
70	72.8	182	79.4
75	71.1	180	79.4
80	69.4	178	79.4
85	67.8	176	79.4
90	66.1	174	79.4
95	64.3	171	79.4
100	62.5	168	78.1
105	60.8	165	76.2
110	58.9	162	71.0
115	57.1	158	66.3
120	55.1	155	62.1
125	53.1	151	58.2
130	51.1	146	54.6
135	49	142	51.3
140	46.8	137	48.3
145	44.6	131	45.5
150	42.2	126	42.9
155	39.7	119	40.4
160	37	112	38.1
165	34.2	104	36.0
170	31.1	96	34.0
175	28.5	88	32.2
180	24.6	76	30.4
185	20	62	28.6

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

23	86	200	392.7
25	85.4	200	392.7
30	83.9	200	358.4
35	82.4	199	321.6
40	80.9	198	281.4
45	79.4	197	251.9
50	77.9	196	223.1
55	76.4	195	195.1
60	74.8	193	172.9
65	73.3	192	154.8
70	71.7	190	139.9
75	70.2	188	127.3
80	68.6	186	116.5
85	66.9	184	107.2
90	65.3	182	99.1
95	63.7	179	91.9
100	62	176	85.6
105	60.3	174	79.9
110	58.5	170	74.8

			Rope	
1	[ft ]:	boom	pulley	capacity
ı		angle	height	[1000 lbs
L		[°]:	[ft ]:	]

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

115	56.8	167	70.2
120	54.9	164	66.1
125	53.1	160	62.2
130	51.2	156	58.7
135	49.2	151	55.5
140	47.2	147	52.6
145	45.1	142	49.8
150	42.9	136	47.3
155	40.7	131	44.9
160	38.3	124	42.6
165	35.7	117	40.6
170	33	110	38.6
175	30.1	101	36.7
180	26.9	92	35.0
185	24.1	83	33.4
190	19.9	70	31.9

#### 194 ft Main boom, Load fall point Boom, HPT head (2821-2)

29	86	202	79.4
30	85.7	202	79.4
35	84.2	202	79.4
40	82.7	201	79.4
45	81.2	200	79.4
50	79.7	199	79.4
55	78.2	198	79.4
60	76.7	196	79.4
65	75.2	195	79.4
70	73.7	193	79.4
75	72.1	191	79.4
80	70.5	189	79.4
85	69	187	79.4
90	67.4	185	79.4
95	65.7	182	79.4
100	64.1	180	79.1
105	62.4	177	75.8
110	60.7	174	70.6
115	59	170	65.9
120	57.2	167	61.7
125	55.4	163	57.8
130	53.5	159	54.2
135	51.6	155	50.9
140	49.6	150	47.9
145	47.6	146	45.1
150	45.4	140	42.5
155	43.3	135	40.1
160	40.9	129	37.8
165	38.5	122	35.6
170	35.9	115	33.6
175	33.8	108	31.9
180	30.8	100	30.1
185	27.5	90	28.4
190	23.8	78	26.8
195	19.2	63	25.2

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Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	Main boom angle	height	Load capacity [1000 lbs
203 ft point B			] .oad fall l (2821-1)
24	86	210	363.6
25 30	85.6 84.2	210 209	363.6 344.3
35	82.8	209	319.1
40 45	81.4 79.9	208 207	278.6 247.7
50	78.5	206	222.8
55 60	77 75.6	205 204	194.8 172.5
65	74.1	202	154.4
70 75	72.6	200	139.4
80	71.2 69.7	199 197	126.8 116.0
85	68.1	195	106.7
90 95	66.6 65	192 190	98.6 91.4
100	63.5	188	85.1
105 110	61.9 60.2	185 182	79.4 74.3
115	58.6	179	69.7
120 125	56.9 55.2	176 172	65.5 61.7
130	53.4	168	58.2
135 140	51.6 49.8	164 160	55.0 52.0
145	47.9	156	49.3
150 155	45.9 43.8	151 146	46.7 44.3
160	41.7	140	44.3 42.1
165	39.5	134 127	40.0
170 175	37.2 34.7	127	38.1 36.2
180	32.1	112	34.5
185 190	29.9 26.8	105 96	33.0 31.4
195 200	23.3 19.2	84 71	29.9 28.5
203 ft point B	Main l	boom, I PT head	oad fall l (2821-2)
30 30	86 85.9	212 212	79.4 79.4
35	84.5	212	79.4
40 45	83.1 81.7	211 210	79.4 79.4
50	80.2	209	79.4
55 60	78.8 77.4	208 206	79.4 79.4
65	75.9	205	79.4
70 75	74.5 73	203 202	79.4 79.4
80	73 71.5	200	79.4 79.4
85 90	70 68.5	198 196	79.4 79.4
90 95	67	196	79.4
100	65.4	191	79.4
105 110	63.9 62.3	188 185	75.3 70.1
115	60.6	182	65.4
120 125	59 57.3	179 176	61.2 57.3

Radius	Main	Rope	Load
[ft ]:	boom angle [°]:	pulley	capacity [1000 lbs ]
	Main l	boom, I	oad fall (2821-2)
130 135 140	55.6 53.8 52	172 168 164	53.7 50.4 47.4
145	50.1	159	44.6
150 155	48.2 46.2	154 149	42.0 39.5
160	44.1	144	37.3
165 170	42 40.3	138 133	35.1 33.3
175 180	37.9 35.5	126 119	31.4 29.7
185	32.8	111	28.0
190 195	29.9 26.7	102 91	26.3 24.8
200	23	79 64	23.3 21.9
205 <b>213 ft</b>	18.5 <b>Main</b> 1		
			.oad fall l (2821-1)
24	86	220	66.4 337.2
25 30	85.8 84.5	220 219	328.2
35 40	83.1 81.8	219 218	310.4 276.3
45	80.4	217	244.4
50 55	79 77.7	216 215	221.0 194.4
60 65	76.3	214	172.2
65 70	74.9 73.5	212 211	154.1 139.1
75 80	72.1 70.6	209 207	126.5 115.7
85	69.2	205	106.4
90 95	67.7 66.3	203 201	98.3 91.1
100 105	64.8 63.3	199 196	84.7
	00.0		
110	61.7	193	79.1 74.0
115	60.2	193 190	74.0 69.4
115 120 125	60.2 58.6 57	193 190 187 184	74.0 69.4 65.2 61.4
115 120	60.2 58.6	193 190 187	74.0 69.4 65.2
115 120 125 130 135 140	60.2 58.6 57 55.4 53.7 52	193 190 187 184 181 177 173	74.0 69.4 65.2 61.4 57.9 54.7 51.7
115 120 125 130 135 140 145 150	58.6 57 55.4 53.7 52 50.2 48.4	193 190 187 184 181 177 173 169 164	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4
115 120 125 130 135 140 145 150 155	58.6 57 55.4 53.7 52 50.2 48.4 46.6	193 190 187 184 181 177 173 169 164 160	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4 44.0
115 120 125 130 135 140 145 150 155 160 165	60.2 58.6 57 55.4 53.7 52 50.2 48.4 46.6 44.7 42.7	193 190 187 184 181 177 173 169 164 160 155 149	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4 44.0 41.8 39.7
115 120 125 130 135 140 145 150 155 160	58.6 57 55.4 53.7 52 50.2 48.4 46.6 44.7 42.7 40.6 38.5	193 190 187 184 181 177 173 169 164 160 155 149 143 137	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4 44.0 41.8 39.7 37.8 35.9
115 120 125 130 135 140 145 150 155 160 165 170 175 180	58.6 57 55.4 53.7 52 50.2 48.4 46.6 44.7 42.7 40.6 38.5 36.2	193 190 187 184 181 177 173 169 164 160 155 149 143 137	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4 44.0 41.8 39.7 37.8 35.9 34.2
115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190	50.2 58.6 57 55.4 53.7 52 50.2 48.4 46.6 38.5 36.2 34.3 31.8	193 190 187 184 181 177 173 169 164 160 155 149 143 137 137 130 124 116	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4 44.0 41.8 39.7 37.8 35.9 34.2 32.7 31.1
115 120 125 130 135 140 145 150 155 160 165 170 175 180 185	60.2 58.6 57 55.4 53.7 52 50.2 48.4 46.6 44.7 42.7 40.6 38.5 36.2 34.3	193 190 187 184 181 177 173 169 164 160 155 149 143 137 130 124	74.0 69.4 65.2 61.4 57.9 54.7 51.7 48.9 46.4 44.0 41.8 39.7 37.8 35.9 34.2 32.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
213 ft point B			oad fall l (2821-2)
30	86	222	79.4
35	84.7	221	79.4
40	83.4	221	79.4
45	82	220	79.4
50	80.7	219	79.4
55	79.3	218	79.4
60	78	216	79.4
65	76.6	215	79.4
70	75.2	214	79.4
75	73.8	212	79.4
80	72.4	210	79.4
85	71	208	79.4
90	69.6	206	79.4
95	68.1	204	79.4
100	66.6	202	79.4
105	65.2	199	75.0
110	63.7	196	69.8
115	62.1	194	65.1
120	60.6	191	60.9
125	59	188	57.0
130	57.4	184	53.4
135	55.8	180	50.1
140	54.1	176	47.1
145	52.4	172	44.3
150	50.6	168	41.7
155	48.8	163	39.3
160	46.9	158	37.0
165	45	153	34.9
170	43.4	149	33.1
175	41.4	143	31.2
180	39.2	136	29.4
185	36.9	129	27.7
190	34.5	122	26.1
195	31.9	113	24.6
200	29	104	23.2
205	25.9	93	21.8
210	22.3	80	20.4
215	17.9	64	19.1
223 ft point B			oad fall l (2821-1)
25	0.0	1 220	66.4
25	86	230	66.4
30	84.7	229	311.2
35	83.4	229	296.3
40	82.1	228	272.2
45	80.8	227	241.1
50	79.5	226	217.4
55	78.2	225	194.1
60	76.9	224	171.8
65	75.6	222	153.7
70	74.2	221	138.7
75	72.9	220	126.0
80	71.5	218	115.2
85	70.2	216	105.9
90	68.8	214	97.8
95	67.4	212	90.6
100	66	210	84.2
105	64.6	207	78.6
110	63.1	205	73.4
115	61.6	202	68.8
120	60.2	199	64.6
125	58.7	196	60.8
130	57.1	193	57.3
135	55.6	189	54.1
140	54	186	51.1



Version: 9839979/59979/ HPT foot: 2821-1 360°

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]: 273.4 125.7

[°]:	pulley height [ft]:	capacity [1000 lbs ]
oom, H	PT head	(2821-1)
52.3	182	48.4
50.7	178	45.8 43.5
47.2	168	41.2
		39.2 37.2
41.6	153	35.4
39.6 38	14 <i>7</i> 142	33.6 32.2
35.8	135	30.6 29.1
31	119	27.7
28.3 25.3		26.4 25.1
22	87	23.9
		22.8
,		(3021 2)
86	232	79.4
83.7	231	79.4 79.4
82.4	230	79.4 79.4
79.8	228	79.4
	227 225	79.4 79.4
75.9	224	79.4 79.4
73.2	221	79.4
		79.4 79.4
69.1	215	79.4
66.3	213	79.4 74.5
64.9 63.5	208 205	69.3 64.6
62	202	60.4
59	199 196	56.5 52.9
57.5	192 180	49.6 46.6
54.3	185	43.8
		41.2 38.7
49.3	172	36.5
46.1	163	34.4 32.6
44.3 42.3	158 152	30.7 28.9
40.3	146	27.2
35.9	132	25.6 24.1
33.6 31	124 115	22.7 21.3
28.2	106	20.0
21.6	82	18.8 17.5 16.3
	52.3 50.7 49 47.2 45.4 43.5 41.6 39.6 39.6 39.6 38.3 35.8 33.4 28.3 22.1 18.8 Main 1 500m, Hi 86 85 83.7 82.7 82.7 81.1 79.8 74.5 77.2 75.9 74.5 77.2 77.9 74.5 73.2 60.5 59 57.5 69.1 67.7 66.3 64.9 63.5 62.6 60.5 59 57.5 69.5 59.5 57.9	50.7   178   49   173   47.2   168   45.4   164   43.5   158   41.6   153   39.6   147   38   142   35.8   135   33.4   127   31   119   28.3   110   25.3   99   22   87   18   73   73   74   75   77.2   25   77.2   217   69.1   215   67.7   213   66.3   210   64.9   208   63.5   205   62   202   202   60.5   199   59   196   57.5   192   55.9   189   54.3   185   52.7   181   51   77   49.3   172   47.5   167   46.1   163   44.3   158   42.3   152   40.3   146   38.2   139   33.6   124   31   115   28.2   106   25.1

Radius	1	Rope	Load
[ft ]:	boom angle [°]:		capacity [1000 lbs 1
233 ft point B	Main	boom, I	oad fall l (2821-1)
26	86	240	66.4
30	85	239	294.7
35 40	83.7 82.5	238 238	277.8 261.3
45	81.2	237	233.8
50 55	80 78.7	236 235	212.0 193.7
60	77.5	234	171.4
65 70	76.2	233	153.3
<u>70</u> 75	74.9 73.6	231 230	138.2 125.6
80	72.3	228	114.8
85 90	71 69.7	226 225	105.4 97.3
95	68.4	223	90.1
100 105	67.1 65.7	220 218	83.8 78.1
110	64.3	216	73.0
115 120	63 61.6	213 210	68.4 64.2
125	60.1	208	60.4
130 135	58.7 57.2	204 201	56.9 53.6
140	55.7	198	50.7
145	54.2 52.7	194	47.9
150 155	51.1	190 186	45.4 43.0
160	49.5	182	40.8
165 170	47.8 46.1	177 172	38.7 36.7
175	44.3	167	34.9
180 185	42.9 41	163 157	33.3 31.7
190	39.1	151	30.2
195 200	37 34.9	145 137	28.7 27.3
205	32.6	130	26.0
210 215	30.2 27.6	121 112	24.7 23.5
220	24.7	101	22.4
225	21.4	89	21.3
233 ft			oad fall
point B	oom, n	r i neau	l (2821-2)
32	86	242	79.4
35 40	85.2 83.9	241 241	79.4 79.4
45	82.7	240	79.4
<u>50</u> 55	81.5 80.2	239 238	79.4 79.4
60	79	237	79.4
65 70	77.7 76.5	236 234	79.4 79.4
75	75.2	233	79.4
80 85	73.9 72.7	231 229	79.4 79.3
90	71.4	229	79.3 78.8
95 100	70	226	78.2
100 105	68.7 67.4	223 221	77.8 74.1
110	66	219	68.9
115 120	64.7 63.3	216 214	64.2 59.9
125	61.9	211	56.0
130 135	60.5 59	208 204	52.5 49.2
140	57.6	204	46.1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
point B	oom, m	i i neau	(2021-2)
145	56.1	198	43.3
150	54.6	194	40.7
155	53	190	38.3
160	51.4	186	36.0
165	49.8	181	33.9
170	48.5	177	32.1
175	46.8	172	30.2
180	45	167	28.5
185	43.2	162	26.8
190	41.3	156	25.2
195	39.3	149	23.7
200	37.2	142	22.3
205	35	135	20.9
210	32.7	127	19.6
215	30.2	118	18.4
220	27.5	108	17.2
225	24.5	96	16.1
230	21	83	14.9
235	16.7	66	13.8
243 ft point B			oad fall l (2821-1)
26	86	249	273.2
30	85.2	249	273.2
35	84	248	261.0
40	82.8	248	250.9
45	81.6	247	226.5
50	80.4	246	206.5
55	79.2	245	191.1
60	78	244	171.0
65	76.8	243	152.8
70	75.5	242	137.8
75	74.3	240	125.1
80	73.1	239	114.3
85	71.8	237	104.9
90	70.6	235	96.8
95	69.3	233	89.6
100	68	231	83.2
105	66.8	229	77.6
110	65.5	227	72.4
115	64.1	224	67.8
120	62.8	222	63.6
125	61.5	219	59.8
130	60.1	216	56.3
135	58.7	213	53.1
140	57.3	210	50.1
145	55.9	206	47.3
150	54.4	203	44.8
155	52.9	199	42.4
160	51.4	195	40.2
165	49.9	191	38.1
170	48.3	186	36.2
175	46.7	181	34.3
180	45.4 43.7	178	32.8
185	41.9	172	31.1
190		167	29.6
195	40.1	161	28.1
200	38.2	154	26.7
205	36.2	148	25.4
210	34.1	140	24.2
215	31.8	132	23.0
220	29.5	123	21.8
225	26.9	114	20.7
230	24	103	19.7



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
	Main	boom, I	oad fall l (2821-2)
32	86	252	79.4
35	85.4	251	79.4
40	84.2	250	79.4
45	83	250	79.4
50	81.8	249	79.4
55	80.6	248	79.4
60	79.4	247	79.4
65	78.2	246	79.4
70	77	244	79.4
75	75.8	243	79.4
80	74.6	241	79.4
85	73.4	240	79.4
90	72.1	238	78.7
95	70.9	236	77.3
100	69.6	234	76.0
105	68.4	232	73.6
110	67.1	230	68.4
115	65.8	227	63.7
120	64.5	225	59.4
125	63.2	222	55.5
130	61.8	219	51.9
135	60.5	216	48.6
140	59.1	213	45.6
145	57.7	210	42.8
150	57.7 56.2	206	42.8
155	54.8	202	37.8
160	53.3	198	35.5
165	52.1	195	33.4
170	50.5	191	31.6
175	49	186	29.7
180	47.3	181	27.9
185	45.7	176	26.3
190	43.9	171	24.7
195	42.2	165	23.2
200	40.3	159	21.8
205	38.4	152	20.4
210	36.3	145	19.1
215	34.2	137	17.9
220	31.9	129	16.7
225	29.5	120	15.6
230	26.8	109	14.5
235	23.8	98	13.4
240	20.4	84	12.4
245	16.1	66	11.4
			oad fall l (2821-1)
27	86	259	257.6
30	85.3	259	257.6
35	84.2	258	252.9
40	83.1	258	247.8
45	81.9	257	227.8
50	80.8	256	206.6
55	79.6	255	189.9
60	78.5	254	170.6
65	77.3	253	152.5
70	76.1	252	137.4
75	74.9	250	124.7
80	73.8	249	113.9
85	72.6	247	104.6
90	71.4	246	96.4
95	70.2	244	89.2
100	68.9	242	82.9
105	67.7	240	77.2
110	66.5	238	72.1
115	65.2	235	67.4
120 l	64	233	63.2

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
253 ft point B			oad fall l (2821-1)
125	62.7	230	59.4
130	61.4	227	55.9
135	60.1	224	52.7
140	58.7	221	49.7
145	57.4	218	47.0
150	56	215	44.4
155	54.6	211	42.0
160	53.2	207	39.8
165	51.8	203	37.7
170	50.3	199	35.8
175	48.8	195	34.0
180	47.6	191	32.4
185	46	186	30.8
190	44.4	181	29.2
195	42.7	176	27.8
200	41	170	26.4
205	39.2	164	25.1
210	37.3	157	23.8
215	35.3	150	22.6
220	33.3	143	21.5
225	31.1	135	20.4
230	28.8	126	19.3
235	26.2	116	18.3
240	23.4	104	17.4
245	20.3	91	16.4
253 ft	Main	boom, I	oad fall (2821-2)
33	86	261	79.4
35	85.5	261	79.4
40	84.4	260	79.4
45	83.3	260	79.4
50	82.1	259	79.4
55 60 65 70 75	81 79.9 78.7 77.6 76.4	258 257 256 254 253	79.4 79.4 79.4 79.4 79.4 79.4
80	75.2	252	79.4
85	74	250	79.4
90	72.9	248	79.4
95	71.7	247	77.4
100	70.5	245	75.4
105	69.2	243	73.2
110	68	240	68.0
115	66.8	238	63.3
120	65.6	236	59.1
125	64.3	233	55.2
130	63	230	51.6
135	61.7	228	48.3
140	60.4	225	45.3
145	59.1	221	42.4
150	57.7	218	39.8
155	56.4	214	37.4
160	55	211	35.1
165	53.8	208	33.2
170	52.4	204	31.2

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
175	50.9	199	29.3
180 185	49.4 47.9	195 190	27.6 25.9
190	46.3	185	24.3
195 200	44.6 42.9	180 174	22.8 21.4
205	41.2	168	20.1
210 215	39.4 37.5	162 155	18.8 17.6
220	35.5	148	16.4
225 230	33.4 31.2	140 131	15.3 14.2
235	28.7	122	13.2
240 245	26.1 23.2	111 99	12.2 11.2
250	19.8	85	10.2
			oad fall
point B	oom, H	PT head	l (2821-1)
28	86	269	239.9
30	85.5	269	239.9
35 40	84.4 83.3	268 268	237.6 234.0
45	82.2	267	221.9
50 55	81.1 80	266 265	202.5 186.7
60	78.9	264	170.2
65 70	77.8 76.7	263 262	152.1 137.0
75	75.5	261	124.3
80 85	74.4 73.2	259 258	113.4 104.1
90	72.1	256	95.9
95 100	70.9 69.8	254 252	88.7 82.3
105	68.6	250	76.6
110 115	67.4 66.2	248 246	71.5 66.9
120	65	244	62.7
125 130	63.8 62.6	241 239	58.9 55.4
135 140	61.3 60.1	236 233	52.1 49.1
140	58.8	233	49.1 46.4
150 155	57.5 56.2	227 223	43.8 41.5
160	54.8	220	39.2
165 170	53.5 52.1	216 212	37.2 35.2
175	50.7	208	33.4
180 185	49.5 48.1	205 200	31.8 30.2
190	46.6	195	28.6
195 200	45 43.4	190 185	27.2 25.8
205	41.8	179	24.5
210 215	40.1 38.3	173 167	23.2 22.0
220	36.5	160	20.9
225 230	34.6 32.6	153 145	19.8 18.8
235	30.4	137	17.8
240 245	28.1 25.6	128 117	16.8 15.9
250	22.9	106	15.0
255	19.8	92	14.2



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Degree rating: 360° 2-wide track Foot print:  $\overline{\text{Counterweight}}$  [1000 lbs ]: 273.4 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle		Load capacity [1000 lbs
	[°]:	[ft]:	]
262 ft point B	Main		oad fall l (2821-2)
34	86	271	79.4
35 40	85.7 84.6	271 270	79.4 79.4
45	83.5	270	79.4
50 55	82.4 81.3	269 268	79.4 79.4
60	80.2	267	79.4
65	79.1	266	79.4
70 75	78 76.9	265 263	79.4 79.4
80	75.8	262	79.4
85 90	74.7 73.5	260 259	79.4 79.4
95	72.4	257	78.6
100	71.2	255	75.8
105 110	70.1 68.9	253 251	72.7 67.5
115	67.7	249	62.8
120	66.6	247	58.6
125 130	65.3 64.1	244 242	54.6 51.1
135	62.9	239	47.8
140 145	61.6 60.4	236 233	44.7 41.9
150	59.1	230	39.3
155	57.8	226	36.9
160 165	56.5 55.4	223 220	34.6 32.7
170	54.1	216	30.7
175	52.7	212	28.8
180 185	51.3 49.8	208 204	27.0 25.4
190	48.3	199	23.8
195 200	46.8 45.3	194 189	22.3 20.9
205	43.7	183	19.5
210	42	178	18.2
215 220	40.3 38.5	172 165	17.0 15.9
225	36.7	158	14.7
230	34.7 32.6	150	13.7
235 240	32.6 30.4	142 133	12.6 11.7
245	28.1	124	10.7
250 255	25.5 22.6	113 100	9.8 8.9
260	19.3	86	7.9
~.~	Main l		oad fall l (2821-1)
28 30	86 85.7	279 279	222.0 222.0
35	84.6	278	221.2
40 45	83.6 82.5	278 277	219.0 213.6
50	81.4	276	196.1
55	80.4	275	181.5
60 65	79.3 78.2	274 273	169.3 151.6
70	77.1	272	136.5
75 80	76.1	271	123.8
80 85	75 73.9	269 268	113.0 103.6
90	72.8	266	95.4
95 100	71.7 70.5	265 263	88.2 81.9
	10.0	203	01.9

125	.7		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
110	68.3	259	71.0
115	67.1	257	66.4
120	66	255	62.2
125	64.8	252	58.4
130	63.6	250	54.9
135	62.5	247	51.6
140	61.3	244	48.6
145	60	241	45.9
150	58.8	238	43.3
155	57.6	235	41.0
160	56.3	232	38.7
165	55	228	36.7
170	53.7	224	34.7
175	52.6	222	33.0
180	51.3	218	31.3
185	49.9	213	29.7
	48.5	209	28.1
190 195	47.1	204	26.7
200	45.6	199	25.3
205	44.1	194	24.0
210	42.5	189	22.7
215	40.9	183	21.6
220	39.3	177	20.4
225	37.5	170	19.3
230	35.7	163	18.3
235	33.9	156	17.3
240	31.9	148	16.4
245	29.8	139	15.4
250	27.5	130	14.6
255	25.1	119	13.7
260	22.4	107	12.9
265	19.3	94	12.1
			oad fall l (2821-2)
34	86	281	79.4
35	85.9	281	79.4
40	84.8	280	79.4
45	83.8	280	79.4
50	82.7	279	79.4
55	81.7	278	79.4
60	80.6	277	79.4
65	79.5	276	79.4
70	78.5	275	79.4
75	77.4	274	79.4
80	76.3	272	79.4
85	75.2	271	79.4
90	74.1	269	79.4
95	73	268	79.4
100	71.9	266	77.2
100 105	70.8	264	72.3
110	69.7	262	67.1
115	68.6	260	62.4
120	67.5	258	58.1
125	66.3	255	54.2
130	65.1	253	50.6
135	64	250	47.3
140	62.8	247	44.3
145	61.6	244	41.4
150	60.3	242	38.8
155	59.1	238	36.4
160	57.9	235	34.1
165	56.9	232	32.2
170	55.6	229	30.2
175	54.3	225	28.3
180	52.9	221	26.6
185	51.6	217	24.9

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-2)
190	50.2	212	23.3
195	48.8	208	21.8
200	47.3	203	20.4
205	45.9	198	19.1
210	44.3	193	17.8
215	42.8	187	16.6
220	41.1	181	15.4
225	39.5	175	14.3
230	37.7	168	13.2
235 240 245	35.9 34 31.9 29.8	161 153 145	12.2 11.2 10.3
250 255 260 265	27.5 24.9 22.1	136 126 114 102	9.4 8.4 7.3 6.3
270 282 ft		boom, I	5.2 oad fall (2821-1)
29	86	289	205.3
30	85.8	289	205.3
35	84.8	288	204.8
40 45 50	83.8 82.8	288 287 286	202.9 201.1 186.8
55 60 65	81.7 80.7 79.7 78.6	285 284 283	174.8 165.0 151.2
70	77.6	282	136.1
75	76.6	281	123.4
80	75.5	280	112.5
85	74.5	278	103.1
90	73.4	277	94.9
95	72.3	275	87.7
100	71.3	273	81.3
105	70.2	272	75.6
110	69.1	270	70.5
115	68	268	65.9
120	66.9	265	61.6
125	65.8	263	57.8
130	64.6	261	54.3
135	63.5	258	51.1
140	62.4	256	48.1
145	61.2	253	45.3
150	60	250	42.8
155	58.8	247	40.4
160	57.6	244	38.1
165	56.4	240	36.1
170	55.2	237	34.1
175	54.2	234	32.5
180	52.9	230	30.7
185	51.6	226	29.1
190	50.3	222	27.6
195	48.9	218	26.1



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Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
282 ft point B			oad fall l (2821-1)
200	47.5	213	24.7
205	46.1	208	23.4
210	44.7	203	22.2
215	43.2	198	21.0
220	41.7	192	19.8
225	40.1	186	18.8
230	38.5	180	17.7
235	36.8	173	16.7
240	35	166	15.8
245	33.2	158	14.9
250	31.2	150	14.0
255	29.1	141	13.2
260	26.9	132	12.3
265	24.5	121	11.6
270	21.9	109	10.8
275 <b>282 ft</b>	18.8 <b>Main</b> l	95 boom, I	10.1 Load fall l (2821-2)
35	86	291	79.4
40	85	290	79.4
45	84	290	79.4
50	83	289	79.4
55	81.9	288	79.4
60 65 70 75 80	80.9 79.9 78.9 77.8 76.8	287 286 285 284 282	79.4 79.4 79.4 79.4 79.4 79.4
85	75.8	281	79.4
90	74.7	280	79.4
95	73.6	278	79.4
100	72.6	276	77.6
105	71.5	274	71.8
110	70.4	272	66.6
115	69.4	270	61.8
120	68.3	268	57.6
125	67.2	266	53.7
130	66.1	264	50.1
135	64.9	261	46.8
140	63.8	259	43.7
145	62.7	256	40.9
150	61.5	253	38.3
155	60.3	250	35.8
160	59.1	247	33.6
165	58.2	244	31.7
170	57	241	29.7
175	55.7	237	27.8
180	54.5	234	26.0
185	53.2	230	24.3
190	51.9	225	22.8
195	50.5	221	21.3

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
	Main		oad fall l (2821-2)
205	47.8	212	18.5
210	46.4 44.9	207	17.2
215 220	44.9	202 196	16.0 14.8
225	41.9	190	13.7
230	40.3	184	12.7
235 240	38.7 36.9	178 171	11.6 10.7
245	35.1	163	9.7
250	33.3	156	8.6
255	31.3	147	7.6
260 265	29.1 26.9	138 127	6.5 5.5
270	24.3	116	4.5
275	21.5	103	3.5
280	18.3	88	2.5
point B	oom, H	PT head	oad fall   (2821-1)
30 30	86 86	298 298	66.4 191.3
35	85	298	191.3
40	84	297	189.5
45	83	297	188.2
50 55	82 81	296 295	178.8 168.1
	80	294	
60	00		159.2
65	79	293	149.7
65 70	79 78	293 292	149.7 135.7
65 70 75	79 78 77	293 292 291	149.7 135.7 122.9
65 70	79 78	293 292	149.7 135.7
65 70 75 80 85 90	79 78 77 76 75 74	293 292 291 290 288 287	149.7 135.7 122.9 112.1 102.7 94.5
65 70 75 80 85 90 95	79 78 77 76 75 74 72.9	293 292 291 290 288 287 285	149.7 135.7 122.9 112.1 102.7 94.5 87.3
65 70 75 80 85 90	79 78 77 76 75 74	293 292 291 290 288 287	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9
65 70 75 80 85 90 95 100 105 110	79 78 77 76 75 74 72.9 71.9	293 292 291 290 288 287 285 284 282 280	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1
65 70 75 80 85 90 95 100 105 110	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8	293 292 291 290 288 287 285 284 282 280 278	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4
65 70 75 80 85 90 95 100 105 110 115	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7	293 292 291 290 288 287 285 284 282 280 278 276	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2
65 70 75 80 85 90 95 100 105 110	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8	293 292 291 290 288 287 285 284 282 280 278	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4
65 70 75 80 85 90 95 100 105 110 115 120 125 130	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7 66.6 65.6 64.5	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6
65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7 66.6 65.6 64.5 63.4	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269 267	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6
65 70 75 80 85 90 95 100 105 110 115 120 125 130	79 78 77 76 75 74 72.9 71.9 69.8 68.8 67.7 66.6 65.6 64.5 63.4 62.3	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6
65 70 75 80 85 90 100 105 110 125 130 145 140 145 150 155	79 78 77 76 75 74 71.9 70.9 69.8 67.7 66.6 65.6 64.5 63.4 62.3 61.1 60	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269 267 269 267 261 258	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 44.9 42.3 39.9
65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 155 160	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7 66.6 64.5 63.4 62.3 61.1 60 58.8	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269 267 264 261 258 255	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 44.9 42.3 39.9 37.7
65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 160 165	79 78 77 76 75 74 72.9 70.9 69.8 68.8 67.7 66.6 64.5 63.4 62.3 61.1 60 58.8 57.7	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269 267 264 261 255 255 255	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 44.9 42.3 39.9 37.7 35.6
65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 155 160	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7 66.6 64.5 63.4 62.3 61.1 60 58.8	293 292 291 290 288 287 285 284 282 280 278 276 274 272 269 267 264 261 258 255	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 44.9 42.3 39.9 37.7
65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 155 160 165 175 180	79 78 77 76 75 74 72.9 70.9 69.8 68.8 67.7 66.6 64.5 63.4 62.3 61.1 60 58.8 57.7 56.5 55.6	293 292 291 290 288 287 285 284 282 280 278 274 272 269 267 264 261 258 255 252 249 246 242	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 44.9 42.3 39.9 37.7 35.6 33.7
65 70 75 80 85 90 100 105 110 115 120 125 130 135 140 145 150 165 170 175 180 185	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7 66.6 64.5 63.4 62.3 61.1 60 58.8 57.7 56.5 55.6 54.4 53.1	293 292 291 290 288 287 285 284 282 278 276 277 269 267 269 261 258 252 249 246 242 239	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 42.3 39.9 37.7 35.6 33.7 32.0 30.3 28.7
65 70 75 80 85 90 100 105 110 125 130 145 155 160 165 170 175 180 185 190	79 78 77 76 75 74 71.9 70.9 69.8 67.7 66.6 65.6 64.5 63.4 62.3 61.1 60 58.8 57.7 56.5 55.6 54.4 53.1	293 292 291 290 288 287 284 282 280 278 276 274 272 269 267 264 258 258 255 252 249 246 246 242 239 235	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 44.9 42.3 39.9 37.7 35.6 33.7 32.0 30.3 28.7 27.1
65 70 75 80 85 90 100 105 110 115 120 125 130 135 140 145 150 155 160 175 180	79 78 77 76 75 74 72.9 71.9 70.9 69.8 68.8 67.7 66.6 64.5 63.4 62.3 61.1 60 58.8 57.7 56.5 55.6 54.4 53.1	293 292 291 290 288 287 285 284 282 278 276 277 269 267 269 261 258 252 249 246 242 239	149.7 135.7 122.9 112.1 102.7 94.5 87.3 80.9 75.2 70.1 65.4 61.2 57.4 53.9 50.6 47.6 42.3 39.9 37.7 35.6 33.7 32.0 30.3 28.7

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
292 ft point B			oad fall l (2821-1)
210 215 220 225 230 235 240 245 250 255 260 265	46.6 45.3 43.8 42.4 40.9 39.3 37.7 36.1 34.3 32.5 30.6 28.6	217 212 207 201 196 190 183 176 169 161 153	21.7 20.6 19.4 18.3 17.3 16.3 15.4 14.5 13.6 12.8 12.0 11.2
270 275 280 285 <b>292 ft</b>	26.4 24 21.4 18.4 <b>Main</b> l	134 123 110 96	11.2 10.4 9.7 9.0 8.3 Load fall
36 40 45 50 55	86 85.2 84.2 83.2 82.2	301 300 300 299 298	79.4 79.4 79.4 79.4 79.4
60 65 70 75 80	81.2 80.2 79.2 78.3 77.2	297 296 295 294 293	79.4 79.4 79.4 79.4 79.4
85 90 95 100 105	76.2 75.2 74.2 73.2 72.2	291 290 288 287 285	79.4 79.4 79.4 77.2 71.4
110 115 120 125 130 135	71.1 70.1 69.1 68 66.9 65.8	283 281 279 277 275 272	66.2 61.4 57.2 53.3 49.7 46.4
140 145 150 155 160	64.8 63.7 62.5 61.4 60.3	272 270 267 264 262 258	43.3 40.5 37.9 35.4 33.2
165 170 175 180	59.4 58.2 57 55.8 54.6	256 253 249 246 242	31.3 29.3 27.4 25.6 23.9
190 195 200	53.4 52.1 50.9	238 234 230	22.4 20.9 19.4



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
292 ft point B	Main		oad fall l (2821-2)
205	49.6	225	18.1
210	48.2	221	16.8
215 220	46.9 45.5	216 211	15.6 14.5
225	44.1	205	13.3
230	42.6	200	12.3
235 240	41.1 39.5	194 187	11.3 10.3
245	37.9	181	9.3
250	36.2	174	8.1
255 260	34.4 32.6	166 158	7.1 6.0
265	32.6 30.6	149	5.0
270	28.5	140	4.0
275	26.3	129	3.1
280	23.8	118	2.1
302 ft			oad fall
			l (2821-1)
30 35	86 85.2	308 308	66.4 177.3
40	84.2	307	177.3
45	83.2	307	175.5
50	82.3	306	170.4
55 60	81.3 80.4	305 304	161.3 153.6
65	79.4	303	147.2
70	78.4	302	134.5
75 80	77.5 76.5	301 300	122.5 111.6
85	75.5	299	102.2
90	74.5	297	94.0
95 100	73.5 72.5	296 294	86.8 80.4
105	71.5	292	74.7
110	70.5	291	69.5
115 120	69.5 68.5	289 287	64.9 60.7
125	67.4	285	56.8
130	66.4	282	53.3
135 140	65.4	280 278	50.1
140	64.3 63.2	275	47.1 44.3
150	62.2	272	41.8
155	61.1	270	39.4
160 165	60 58.9	267 264	37.1 35.1
170	58	261	33.3
175	56.9	258	31.5
180 185	55.7 54.5	255 251	29.7 28.1
190	53.3	247	26.6
195	52.1	243	25.1
200 205	50.9 49.7	239 235	23.7 22.4
200	40.4	200	24.7

125	.7		
Radius [ft ]:		Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
220 225	45.8 44.4	221 216	18.8 17.8
230	43	210	16.7
235 240	41.6 40.1	205 199	15.7 14.8
245	38.6	193	13.9
250 255	37 35.4	186 179	13.0 12.2
260	33.7	172	11.4
265 270	31.9 30	164 155	10.6 9.9
275	28	146	9.1
280 285	25.9 23.5	136 124	8.4 7.8
290	20.9	1124	7.0
295	18	97	6.2
31 31	<b>oom, H</b>	PT head	1 <b>(2821-1)</b>
35	85.3	318	165.4
40 45	84.4	317	164.2
45 50	83.5 82.5	317 316	162.8 160.1
55	81.6	315	152.9
60 65	80.7 79.7	314 313	146.7 141.7
70	78.8	312	132.9
75 80	77.9 76.9	311 310	121.5 111.1
85	76	309	101.7
90 95	75 74.1	308 306	93.5 86.3
100	73.1	304	79.9
105 110	72.1 71.2	303 301	74.2 69.0
115	70.2	299	64.4
120 125	69.2 68.2	297 295	60.2 56.3
130	67.2	293	52.8
135 140			
	66.2 65.2	291 289	49.6 46.6
145	65.2 64.2	289 286	46.6 43.8
145 150	65.2 64.2 63.1	289 286 284	46.6 43.8 41.2
145 150 155 160	65.2 64.2 63.1 62.1 61	289 286 284 281 278	46.6 43.8 41.2 38.9 36.6
145 150 155 160 165	65.2 64.2 63.1 62.1 61 60	289 286 284 281 278 275	46.6 43.8 41.2 38.9
145 150 155 160 165 170 175	65.2 64.2 63.1 62.1 61 60 58.9 58	289 286 284 281 278 275 272 270	46.6 43.8 41.2 38.9 36.6 34.5 32.6 30.9
145 150 155 160 165 170	65.2 64.2 63.1 62.1 61 60 58.9 58	289 286 284 281 278 275 272	46.6 43.8 41.2 38.9 36.6 34.5 32.6 30.9 29.2
145 150 155 160 165 170 175 180 185 190	65.2 64.2 63.1 62.1 61 60 58.9 58 56.9 55.8 54.7	289 286 284 281 278 275 272 270 266 263 260	46.6 43.8 41.2 38.9 36.6 34.5 32.6 30.9 29.2 27.6 26.0
145 150 155 160 165 170 175 180 185 190 195	65.2 64.2 63.1 62.1 61 60 58.9 56.9 55.8 54.7 53.5	289 286 284 281 278 275 272 270 266 263 260 256	46.6 43.8 41.2 38.9 36.6 34.5 32.6 30.9 29.2 27.6 26.0 24.6
145 150 155 160 165 170 175 180 185 190 195 200	65.2 64.2 63.1 62.1 60 58.9 58 56.9 55.8 54.7 53.5 52.4 51.2	289 286 284 281 275 272 270 266 263 260 256 252	46.6 43.8 41.2 38.9 36.6 34.5 32.6 30.9 29.2 27.6 26.0 24.6 23.2 21.9
145 150 155 160 165 170 175 180 185 190 195 200	65.2 64.2 63.1 62.1 61 60 58.9 58 56.9 55.8 54.7 53.5 52.4	289 286 284 281 275 272 270 266 263 260 256 252	46.6 43.8 41.2 38.9 36.6 34.5 32.6 30.9 29.2 27.6 26.0 24.6 23.2

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
230	45	225	16.2
235	43.6	220	15.2
240	42.3	214	14.3
245	40.8	208	13.4
250	39.4	202	12.5
255	37.9	196	11.7
260	36.4	189	10.9
265	34.7	182	10.1
270	33.1	174	9.4
275	31.3	166	8.6
280	29.4	157	7.9
285	27.5	148	7.2
290	25.4	137	6.3
295	23	126	5.5
300	20.5	113	4.8
	17.6 <b>Main l</b>		4.0 Load fall l (2821-1)
32	86	328	155.5
35	85.5	328	155.5
40	84.6	327	154.6
45	83.7	327	153.1
50	82.8	326	152.0
55	81.9	325	146.1
60	81	324	140.7
65	80.1	323	136.1
70	79.1	322	131.2
75	78.2	321	119.9
80	77.3	320	110.1
85	76.4	319	101.2
90	75.5	318	93.0
95	74.6	316	85.8
100	73.6	315	79.4
105	72.7	313	73.6
110	71.8	312	68.5
115	70.8	310	63.8
120	69.9	308	59.6
125	68.9	306	55.8
130	67.9	304	52.2
135	67	302	49.0
140	66	300	46.0
145	65	297	43.2
150	64	295	40.7
155	63	292	38.3
160	62	290	36.0
165	61	287	34.0
170	59.9	284	32.0
175	59.1	281	30.3
180	58.1	278	28.6
185	57	275	27.0
190	55.9	272	25.4
195	54.8	268	24.0
200	53.7	264	22.6
205	52.6	260	21.3
210	51.5	256	20.0
215	50.3	252	18.8
220	49.1	248	17.7
225	47.9	244	16.6





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Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
235	45.5	234	14.6
240	44.2	229	13.7
245	42.9	223	12.8
250	41.5	218	11.9
255	40.1	212	11.1
260	38.7	206	10.3
265	37.2	199	9.5
270 275	35.7 34.1	192 185	8.8 8.0
280	32.5	177	7.1
285	30.7	168	6.3
290	28.9	160	5.5
295	27	150	4.7
300	24.9	139	3.9
305	22.6	127	3.1
310	20.1	114	2.4



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius	Main	Rope	Load
[ft ]:	boom angle	pulley	capacity 1000 lbs
	ang ie [°]:	[ft]:	]
		oom, L	
point B	oom, H	PT nead	l (2821-1)
30	71.6	68	393.9
35 40	66.8 61.9	66 63	334.7 290.3
45 50	56.6 50.9	60 56	245.9 211.8
55	44.7	51	185.5
60 65	37.5 28.7	44 36	164.6 147.4
66 ft	Main b	oom, L	oad fall
point B	oom, H	PT head	l (2821-2)
25	81.7	74	79.4
30 35	77.3 72.8	72 70	79.4 79.4
40	68	67	79.4
45 50	63.1 57.9	64 60	79.4 79.4
55	52.2	55	79.4
60 65	45.8 38.4	50 42	79.4 79.4
70	28.7	32	79.4
76 ft	Main b	oom, L	oad fall
76 ft	Main b	oom, L	
<b>76 ft</b> point B	Main boom, H	oom, L PT head	oad fall l (2821-1)
76 ft point B	Main b oom, H	PT head	oad fall l (2821-1)
76 ft point B 25 30 35 40	77.9 74.1 70.1 65.9	80 79 77 75	66.4 393.8 334.7 290.3
76 ft point B 25 30 35	77.9 74.1 70.1	80 79 77	oad fall (2821-1) 66.4 393.8 334.7
76 ft point B 25 30 35 40 45 50 55	77.9 74.1 70.1 65.9 61.5 57 52.1	80 79 77 75 72 69 65	66.4 393.8 334.7 290.3 246.3 212.3 186.0
76 ft point B  25 30 35 40 45 50	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9	80 79 77 75 72 69	66.4 393.8 334.7 290.3 246.3 212.3
76 ft point B  25 30 35 40 45 50 55 60 65 70	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5	80 79 77 75 72 69 65 60 54 47	oad fall l (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0
76 ft point B  25 30 35 40 45 50 55 60 65 70 75	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2	80 79 77 75 72 69 65 60 54 47	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9
76 ft point B  25 30 35 40 45 50 65 70 75	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2 Main b	80 79 77 75 69 65 60 54 47 37 600m, L	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9
76 ft point B  25 30 35 40 45 50 65 70 75 76 ft point B	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2 Main b	80 79 77 75 69 65 60 54 47 37 900m, L	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2)
76 ft point B  25 30 35 40 45 50 65 70 75	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2 Main b	80 79 77 75 69 65 60 54 47 37 600m, L	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall
76 ft point B  25 30 35 40 45 50 65 70 75 76 ft point B	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2 Main b oom, H	80 79 77 75 72 69 65 60 54 47 37 900m, L PT head	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2) 79.4 79.4 79.4
76 ft point B  25 30 35 40 45 50 55 60 65 70 75 76 ft point B	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2  Main b	80 79 77 75 72 69 65 60 54 47 37	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2)
76 ft point B  25 30 35 40 45 50 65 70 75 76 ft point B  25 30 35 40 45 50	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2 Main b oom, H	80 79 77 75 72 69 65 60 54 47 37 900m, L PT head 84 82 80 78 75 72	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4
76 ft point B  25 30 35 40 45 50 65 70 75 76 ft point B	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2  Main b oom, H	80 79 77 75 72 69 65 60 47 37 <b>200m, L</b> <b>PT head</b>	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4
76 ft point B  25 30 35 40 45 50 65 70 75 76 ft point B  25 30 35 40 45 50 66 66	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2  Main b oom, H  82.7 78.9 75.1 71.1 66.9 62.6 58.1 53.2 47.9	80 79 77 75 72 69 65 60 54 47 37 80 84 82 80 78 75 72 69 65 60 54 47 37	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2) 79.4
76 ft point B  25 30 35 40 45 50 65 70 75 76 ft point B  25 30 35 40 45 50 55 60	77.9 74.1 70.1 65.9 61.5 57 52.1 46.9 41.1 34.5 26.2 Main b com, H  82.7 78.9 75.1 66.9 62.6 58.1 53.2	80 79 77 75 69 65 60 54 47 37 82 80 78 75 72 68 68 64	oad fall (2821-1) 66.4 393.8 334.7 290.3 246.3 212.3 186.0 165.1 148.1 134.0 121.9 oad fall (2821-2) 79.4

125	.7		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
85 ft point B		oom, L PT head	oad fall l (2821-1)
25	79.5	91	475.7
30 35	76 72.5	89 88	393.1 334.0
40	68.9	86	289.6
45	65.1	83	246.3
50 55	61.3 57.3	80 77	212.2 185.9
60	53.1	73	165.1
65	48.5	69	148.1
70 75	43.7 38.3	64 57	134.0 122.1
80	32	49	111.8
85	24.2	39	102.9
21	<b>00m, H</b>	PT head	79.4
25	83.6	94	79.4
30	80.2	92	79.4
35 40	76.8 73.3	91 89	79.4 79.4
45	69.8	86	79.4
50	66.1	84	79.4
55 60	62.3 58.3	81 77	79.4 79.4
65	56.5 54	73	79.4
70	49.5	68	79.4
75 80	44.5 38.9	62 55	79.4 79.4
85	32.3	46	79.4 79.4
90	23.4	34	79.4
95 ft	Main b	oom. L	
	oom, H	PT head	l (2821-1)
25	80.6	<b>PT head</b>	473.9
25 30	80.6 77.5	101 100	473.9 393.2
25	80.6 77.5 74.4 71.2	<b>PT head</b>	473.9 393.2 334.2 289.8
25 30 35 40 45	80.6 77.5 74.4 71.2 67.9	101 100 98 96 94	473.9 393.2 334.2 289.8 246.6
25 30 35 40 45 50	80.6 77.5 74.4 71.2 67.9 64.6	101 100 98 96 94 92	473.9 393.2 334.2 289.8 246.6 212.5
25 30 35 40 45	80.6 77.5 74.4 71.2 67.9	101 100 98 96 94	473.9 393.2 334.2 289.8 246.6
25 30 35 40 45 50 55 60 65	80.6 77.5 74.4 71.2 67.9 64.6 61.1 57.5 53.8	101 100 98 96 94 92 89 86 82	473.9 393.2 334.2 289.8 246.6 212.5 186.3 165.4 148.5
25 30 35 40 45 50 55 60 65 70	80.6 77.5 74.4 71.2 67.9 64.6 61.1 57.5 53.8 49.8	101 100 98 96 94 92 89 86 82 78	473.9 393.2 334.2 289.8 246.6 212.5 186.3 165.4 148.5 134.4
25 30 35 40 45 50 55 60 65	80.6 77.5 74.4 71.2 67.9 64.6 61.1 57.5 53.8	101 100 98 96 94 92 89 86 82	473.9 393.2 334.2 289.8 246.6 212.5 186.3 165.4 148.5
25 30 35 40 45 50 55 60 65 70	80.6 77.5 74.4 71.2 67.9 64.6 61.1 57.5 53.8 49.8	101 100 98 96 94 92 89 86 82 78	473.9 393.2 334.2 289.8 246.6 212.5 186.3 165.4 148.5 134.4 122.5

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
		oom, L PT head	oad fall l (2821-2)
22	86	104	79.4
25	84.2	104	79.4
30	81.2	102	79.4
35	78.2	101	79.4
40	75.1	99	79.4
45	72	97	79.4
50	68.7	95	79.4
55	65.4	92	79.4
60	62	89	79.4
65	58.4	86	79.4
70	54.6	82	79.4
75	50.6	77	79.4
80	46.3	71	79.4
85	41.6	65	79.4
90	36.3	58	79.4
95	30	48	79.4
100	21.5	34	78.2
			oad fall
			l (2821-1)
25	81.5	111	470.7
30	78.7	110	392.4
35	75.9	108	333.3
40	73	107	289.0
45	70.1	105	246.5
50	67.1	103	212.3
55	64.1	100	186.0
60	60.9	97	165.2
65	57.7	94	148.2
70	54.3	90	134.1
75	50.8	86	122.3
80	47	82	112.1
85	43	76	103.3
90	38.7	70	95.6
95	33.8	63	88.8
100	28.2	54	82.8
105	22.7	44	33.4
105 ft			oad fall
			l (2821-2)
23	86	114	79.4
25	84.8	114	79.4
30	82.1	113	79.4
35	79.3	111	79.4
40	76.5	110	79.4
45	73.7	108	79.4
50	70.8	106	79.4
55	67.9	103	79.4
60	64.9	101	79.4
65	61.7	98	79.4
70	58.5	94	79.4
75	55.1	90	79.4
80	51.5	86	79.4
85	47.8	81	79.4
90	43.7	75	79.4
95	39.2	68	79.4
100	34.1	60	78.4
105	28.1	50	72.8
110	19.8	35	67.6



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]		
	115 ft Main boom, Load fall point Boom, HPT head (2821-1)				
25	82.2	121	468.3		
30	79.7	120	391.9		
35	77.1	118	332.8		
40	74.5	117	288.5		
45	71.9	115	246.3		
50	69.2	113	212.2		
55	66.5	111	185.9		
60	63.7	109	165.0		
65	60.8	106	148.1		
70	57.9	103	134.0		
75	54.8	99	122.1		
80	51.6	95	112.0		
85	48.2	90	103.2		
90	44.7	85	95.5		
95	40.9	80	88.8		
100	36.7	73	82.8		
105	32	65	77.4		
110	26.6	55	72.5		
115	21.4	46	33.4		
115 ft point B			oad fall l (2821-2)		
23	86	124	79.4		
25	85.2	124	79.4		
30	82.7	123	79.4		
35	80.2	122	79.4		
40	77.7	120	79.4		
45	75.1	118	79.4		
50	72.5	116	79.4		
55	69.9	114	79.4		
60	67.2	112	79.4		
65	64.4	109	79.4		
70	61.5	106	79.4		
75	58.6	103	79.4		
80	55.5	99	79.4		
85	52.3	94	79.4		
90	48.9	90	79.4		
95	45.3	84	79.4		
100	41.4	78	78.4		
105	37.1	70	72.9		
110	32.2	62	67.9		
115	26.2	51	63.3		
120	18.4	35	59.1		

Radius [ft ]:	Main boom angle	Rope pulley	Load capacity [1000 lbs
	[°]: Main l	[ft ]: boom, I	] oad fall l (2821-1)
20 25 30 35 40	85.2 82.9 80.5 78.2 75.8	131 131 130 129 127	570.6 466.0 391.0 331.9 287.6
45 50 55 60 65	73.4 70.9 68.5 65.9 63.4	126 124 122 120 117	246.1 211.9 185.6 164.7 147.7
70 75 80 85 90	60.7 58 55.2 52.3 49.2	114 111 108 104 99	133.6 121.7 111.6 102.8 95.1
95 100 105 110 115 120	46 42.6 39 35 30.5 25.3	94 89 83 76 67 57	88.4 82.4 77.0 72.2 67.8
125 <b>125 ft</b>	20.2 <b>Main</b> l	47 000m, I	33.4 Load fall l (2821-2)
24 25 30 35 40	86 85.6 83.3 81 78.7	134 134 133 132 130	79.4 79.4 79.4 79.4 79.4
45 50 55 60 65	76.3 74 71.5 69.1 66.6	129 127 125 123 120	79.4 79.4 79.4 79.4 79.4
70 75 80 85 90	64 61.4 58.6 55.8 52.9 49.8	118 114 111 107 103 98	79.4 79.4 79.4 79.4 79.4 79.4
100 105 110 115 120	46.6 43.1 39.4 35.3 30.6	93 87 81 73	78.1 72.6 67.7 63.2 59.1

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
134 ft point B			oad fall l (2821-1)
19	86	141	553.0
20	85.5	141	553.0
25 30	83.4 81.2	141 140	462.9 388.6
35	79	139	331.8
40	76.9	138	287.4
45 50	74.6 72.4	136 134	246.0 211.8
55	70.1	133	185.5
60	67.8	130	164.6
65	65.5	128	147.6
70 75	63.1 60.6	126 123	133.5 121.7
80	58.1	120	111.5
85	55.5	116	102.8
90 95	52.8 50	112 108	95.1 88.4
100	47.1	103	82.4
105	44	98	77.0
110	40.8	92	72.2
115 120	37.3 33.4	86 78	67.8 63.8
125	29.1	70	60.2
130	24.1	59	56.8
	oom, H	PT head	oad fall l (2821-2)
25	86	144	79.4
25 30	85.9 83.8	143 143	79.4 79.4
35	81.7	142	79.4
40	79.5	140	79.4
45 50	77.4 75.2	139 137	79.4 79.4
55	72.9	136	79.4
60	70.7	134	79.4
65 70	68.4 66.1	131 129	79.4 79.4
75	63.7	126	79.4
80	61.2	123	79.4
85 90	58.7	120	79.4
95	56.1 53.4	116 112	79.4 79.4
100	50.6	107	78.1
105	47.7	102	72.6
110 115	44.6 41.2	97 90	67.7 63.3
120	37.6	83	59.2
125	33.5	75	55.4
130	29	65	52.0
135	23.6	54	48.8



Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]			
-	144 ft Main boom, Load fall point Boom, HPT head (2821-1)					
20	86	151	66.4			
20	85.8	151	526.6			
25 30	83.8 81.8	150 150	456.1 386.3			
35	79.8	149	330.8			
40	77.8	148	286.5			
45 50	75.7 73.6	146 145	245.8 211.5			
55	71.5	143	185.2			
60	69.4	141	164.2			
65 70	67.3 65.1	139 137	147.2 133.1			
75	62.8	134	121.2			
80	60.5	131	111.1			
85 90	58.2 55.8	128 125	102.3 94.7			
95	53.3	121	87.9			
100	50.7	117	81.9			
105 110	48.1 45.3	112 107	76.6 71.7			
	42.3	102	67.4			
115	42.5					
120	39.2	96	63.4			
120 125	39.2 35.8	89	59.8			
120	39.2 35.8 32.1	89 81				
120 125 130	39.2 35.8	89	59.8 56.4			
120 125 130 135 140 <b>144 ft</b>	39.2 35.8 32.1 27.9 23 <b>Main</b> l	89 81 72 60	59.8 56.4 53.3			
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main l</b> <b>oom, H</b>	89 81 72 60 boom, I PT head	59.8 56.4 53.3 50.5 coad fall (2821-2)			
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b>	89 81 72 60 boom, I PT head	59.8 56.4 53.3 50.5 <b>.oad fall</b> 1 <b>(2821-2)</b>			
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40	39.2 35.8 32.1 27.9 23 <b>Main l</b> <b>oom, H</b> 86 84.2 82.2 80.2	89 81 72 60 boom, I PT head 153 153 152 151	59.8 56.4 53.3 50.5 <b>.oad fall</b> <b>(2821-2)</b> 79.4 79.4 79.4			
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2	89 81 72 60 boom, I PT head 153 153 152 151 149	59.8 56.4 53.3 50.5 .oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45 50	39.2 35.8 32.1 27.9 23 <b>Main l</b> <b>com, H</b> 86 84.2 82.2 80.2 78.2 76.2	89 81 72 60 boom, I PT head 153 153 152 151 149 148	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140 144 ft point B 25 30 35 40 45 50 55 60	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 82.2 78.2 76.2 74.1	89 81 72 60 boom, I PT head 153 153 152 151 149 148 146 144	59.8 56.4 53.3 50.5 <b>.oad fall</b> <b>(2821-2)</b> 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 66 65	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 80.2 76.2 74.1 72.1 70	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 153 152 151 149 148 146 144	59.8 56.4 53.3 50.5 <b>.oad fall</b> 1 (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140 144 ft point B 25 30 35 40 45 50 55 60 65 70	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1 70 67.8	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 152 151 149 148 146 144 142 140	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80	39.2 35.8 32.1 27.9 23 <b>Main l</b> <b>oom, H</b> 86 84.2 82.2 82.2 78.2 76.2 74.1 70 67.8 65.6 63.4	89 81 72 60 <b>boom, I</b> PT head 153 153 153 152 151 149 148 146 144 142 140 137	59.8 56.4 53.3 50.5 <b>.oad fall</b> ( <b>2821-2</b> ) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 66 60 65 70 75 80 85	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>soom, H</b> <b>s</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 70 67.8 65.6 63.4 61.1	89 81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 134	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8	89 81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 131 128	59.8 56.4 53.3 50.5 Load fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 95 100	39.2 35.8 32.1 27.9 23 <b>Main l</b> <b>oom, H</b> 86 84.2 82.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 120	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.7 79.7			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 66 70 75 80 85 90 95 100 105	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>soom, H</b> <b>soom, Soo</b> <b>soom, Soom, S</b>	89 81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 120 116	59.8 56.4 53.3 50.5 Joad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.7 79.7 79.2			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 60 65 70 75 80 85 90 95 100 105 110	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 82.2 78.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 120	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 67.3			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120	39.2 35.8 32.1 27.9 23 <b>Main I</b> oom, <b>H</b> 86 84.2 82.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7 42.7	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 120 116 111 106 100	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 60			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 66 70 75 80 85 90 95 100 105 110 115 120 125	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>soom, H</b> <b>soom, Soom, Soo</b>	89 81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 137 134 128 124 120 116 111 100 93	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 67.3 62.9 58.8 55.1			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120	39.2 35.8 32.1 27.9 23 <b>Main I</b> oom, <b>H</b> 86 84.2 82.2 80.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7 42.7 39.5 36	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 120 116 111 106 100	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 60			
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125 130	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>soom, H</b> <b>soom, Soom, Soo</b>	89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 152 151 149 146 144 142 140 137 134 131 128 124 120 116 111 106 100 93 86	59.8 56.4 53.3 50.5 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 62.9 58.8 55.1 51.7			

125.7				
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]	
			oad fall l (2821-1)	
20	86	161	66.4	
25 30	84.2 82.4	160 160	451.7 384.4	
35	80.5	159	330.2	
40	78.6	158	285.9	
45 50	76.7 74.7	157 155	245.5 211.3	
55	72.8	154	184.9	
60 65	70.8 68.8	152 150	163.9 146.9	
70	66.8	148	132.8	
75	64.7	145	120.9	
80 85	62.6 60.5	142 140	110.8 102.0	
90	58.3	136	94.3	
95	56	133	87.6	
100 105	53.7 51.3	129 125	81.6 76.2	
110	48.9	121	71.4	
115	46.3	116	67.1	
120 125	43.6 40.7	111 105	63.1 59.5	
130	37.7	99	56.1	
135	34.4	91	53.1	
		0.3	50.2	
140 145	30.8 26.8	83 73	50.2 47.6	
145 150	26.8 22	73 62	47.6 45.1	
145 150 <b>154 ft</b>	26.8 22 <b>Main</b>	73 62 <b>boom, I</b>	47.6 45.1 oad fall	
145 150 <b>154 ft</b> <b>point B</b>	26.8 22 <b>Main</b> 1 <b>oom, H</b>	73 62 boom, I PT head	47.6 45.1 oad fall (2821-2)	
145 150 <b>154 ft</b> <b>point B</b>	26.8 22 <b>Main</b> 1 <b>oom, H</b>	73 62 boom, I PT head	47.6 45.1 <b>Joad fall</b> 1 <b>(2821-2)</b> 79.4 79.4	
145 150 <b>154 ft</b> <b>point B</b> 26 30 35 40	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9	73 62 boom, I PT head 163 163 162 161	47.6 45.1 aoad fall (2821-2) 79.4 79.4 79.4 79.4 79.4	
145 150 <b>154 ft</b> <b>point B</b> 26 30 35 40 45	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79	73 62 boom, I PT head 163 163 162 161 159	47.6 45.1 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 <b>154 ft</b> <b>point B</b> 26 30 35 40	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9	73 62 boom, I PT head 163 163 162 161	47.6 45.1 aoad fall (2821-2) 79.4 79.4 79.4 79.4 79.4	
145 150 <b>154 ft</b> <b>point B</b> 26 30 35 40 45 50 55 60	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 73.2	73 62 boom, I PT head 163 163 162 161 159 158 156 155	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 55 60 65	26.8 22 Main oom, H 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3	73 62 boom, I PT head 163 163 162 161 159 158 156 155 153	47.6 45.1 <b>Joad fall</b> ( <b>2821-2</b> ) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 <b>154 ft</b> <b>point B</b> 26 30 35 40 45 50 55 60	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 73.2	73 62 boom, I PT head 163 163 162 161 159 158 156 155	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 66 65 70 75 80	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 67.3 65.2	73 62 boom, I PT head 163 163 163 161 159 158 155 153 151 148	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 66 60 65 70 75 80 85	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1	73 62 boom, I PT head 163 163 163 164 159 158 156 155 153 151 148 146 143	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 65 60 65 70 75 80 85 90 95	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8	73 62 boom, I PT head 163 163 162 161 159 156 155 153 151 148 146 143 140 136	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 66 65 70 75 80 85 90 95	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6	73 62 boom, I PT head 163 163 164 159 158 155 153 151 148 146 143 140 136 133	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 65 60 65 70 75 80 85 90 95	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8	73 62 boom, I PT head 163 163 162 161 159 156 155 153 151 148 146 143 140 136	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115	26.8 22 Main 1 oom, H 86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.2 63.1 61 61 58.8 56.6 54.2 51.8 49.3	73 62  boom, I PT head  163 162 161 159 158 156 155 153 151 148 146 143 140 136 133 129 125 120	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 65 70 75 80 85 90 100 105 110 115 120	26.8 22 <b>Main</b> 1 <b>oom, H</b> 86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7	73 62 boom, I PT head 163 163 163 161 159 158 155 153 151 146 143 140 136 133 129 125 120 115	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 65 56 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	26.8 22 Main 1 oom, H 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7	73 62  boom, I PT head  163 163 162 161 159 158 156 155 153 151 148 146 143 140 136 133 129 125 120 115 109 103	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.6 79.	
145 150 154 ft point B 26 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125 130	26.8 22 Main 1 oom, H 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7 44 41.1 37.9	73 62  boom, I PT head  163 162 161 159 158 156 155 153 151 148 146 143 149 125 120 115 100 103 96	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	
145 150 154 ft point B 26 30 35 40 45 50 65 56 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	26.8 22 Main 1 oom, H 86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 65.2 63.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7 44 41.1	73 62  boom, I PT head  163 163 162 161 159 158 156 155 153 151 148 146 143 140 136 133 129 125 120 115 109 103	47.6 45.1 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.6 79.	

Radius [ft ]:	Main boom	Rope	Load capacity
[10].	angle	height	[1000 lbs
4048	[°]:	[ft]:	1 6 . 11
164 ft point B			oad fall l (2821-1)
21	86	171	475.6
25	84.6	170	446.9
30	82.8	170	382.5
35	81	169	328.2
40	79.3	168	285.0
45	77.5	167	245.3
50	75.7	165	210.9
55	73.8	164	184.5
60	72	162	163.5
65	70.1	160	146.5
70	68.3	158	132.4
75	66.3	156	120.5
80	64.4	154	110.3
85	62.4	151	101.5
90	60.4	148	93.8
95	58.4	145	87.1
100	56.2	142	81.1
105	54.1	138	75.7
110	51.9	134	70.9
115	49.6	130	66.6
120	47.2	125	62.6
125	44.7	120	59.0
130	42.1	114	55.7
135	39.3	108	52.6
140	36.4	102	49.8
145	33.2	94	47.1
150	29.7	85	44.7
155	25.8	75	42.4
160	21.1	63	40.2
164 ft	Main	boom, I	oad fall
			l (2821-2)
27	86	173	79.4
30	84.9	172	79.4
35	83.2	172	79.4
40	81.4	171	79.4
45	79.6	170	79.4
50	77.9	168	79.4
55	76.1	167	79.4
60	74.3	165	79.4
65	72.5	163	79.4
70	70.6	161	79.4
75	68.7	159	79.4
80	66.8	157	79.4
85	64.9	154	79.4
90	62.9	151	79.4
95	60.9	148	79.4
100	58.8	145	76.9
105	56.7	141	71.5
110	54.6	138	66.6
115	52.3	133	62.1
120	50	129	58.1
125	47.6	124	54.4
130	45.1	118	51.0
135	42.4	113	47.9
140	39.6	106	45.0
145	36.6	99	42.3
150	33.3	91	39.8
100			
155	29.7	82	37.5
160	25.4	70	35.2



Version: 9839979/59979/ HPT foot: 2821-1 360°

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: 251.3 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
22 25 30 35 40 45 50	86 84.9 83.2 81.6 79.9 78.2 76.5	181 180 180 179 178 177	448.5 438.3 377.6 326.0 284.7 245.1 210.7
55 60 65 70 75 80 85	74.8 73.1 71.3 69.6 67.8 66 64.1	174 173 171 169 167 165 162	184.3 163.3 146.3 132.1 120.2 110.1 101.3
90 95 100 105 110 115	62.3 60.4 58.4 56.4 54.4 52.3	160 157 154 150 146 143	93.6 86.8 80.9 75.5 70.7 66.3
120 125 130 135 140	50.2 47.9 45.6 43.2 40.7	138 134 129 124 118	62.4 58.8 55.5 52.4 49.6 47.0
150 155 160 165 170	35.2 32.1 28.7 24.9 20.3	104 96 88 77 64	44.5 42.3 40.1 38.1 36.2
point B	oom, H	PT head	oad fall l (2821-2)
28	86	183	79.4

174 ft Main boom, Load fall point Boom, HPT head (2821-2)				
28	86	183	79.4	
30	85.2	182	79.4	
35	83.5	182	79.4	
40	81.9	181	79.4	
45	80.2	180	79.4	
50	78.6	178	79.4	
55	76.9	177	79.4	
60	75.2	176	79.4	
65	73.5	174	79.4	
70	71.7	172	79.4	
75	70	170	79.4	
80	68.2	168	79.4	
85	66.4	165	79.4	
90	64.6	163	79.4	
95	62.7	160	79.1	
100	60.8	157	76.7	
105	58.9	154	71.3	
110	56.9	150	66.4	
115	54.9	146	61.9	
120	52.8	142	57.9	
125	50.6	138	54.2	
130	48.3	133	50.8	
135	46	128	47.7	
140	43.6	122	44.9	
145	41	116	42.2	
150	38.2	109	39.7	
155	35.4	102	37.4 35.2	
160 165	32.1 29.5	93 86	35.2	
170	29.5 25.5	86 75	33.3 31.4	
175	20.8	61	29.5	
173	20.0	UI	29.0	

Radius [ft ]:	boom angle	pulley	Load capacity [1000 lbs ]
			oad fall

22	86	190	419.7
25	85.2	190	419.7
30	83.6	190	368.6
35	82	189	323.8
40	80.4	188	283.7
45	78.8	187	244.8
50	77.2	186	210.4
55	75.6	184	183.9
60	74	183	162.9
65	72.4	181	145.8
70	70.7	180	131.7
75	69 67.3	178	119.8
80		176	109.6
85 90	65.6 63.9	173 171	100.8 93.1
95	62.1	168	86.4
100	60.3	165	80.4
105	58.5	162	75.0
110	56.6	159	70.2
115	54.7	155	65.8
120	52.7	151	61.9
125	50.7	147	58.2
130	48.6	143	54.9
135	46.5	138	51.9
140	44.2	133	49.1
145	41.9	127	46.5
150	39.4	121	44.0
155	36.8	114	41.8
160	34.1	107	39.7
165	31.1	99	37.7
170	27.8	90	35.8
175	24	79	34.0
180	20.6	68	32.5

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

28	86	193	79.4
30	85.4	192	79.4
35	83.9	192	79.4
40	82.3	191	79.4
45	80.8	190	79.4
50	79.2	189	79.4
55	77.6	187	79.4
60	76	186	79.4
65	74.4	184	79.4
70	72.8	182	79.4
75	71.1	180	79.4
80	69.4	178	79.4
85	67.8	176	79.4
90	66.1	174	79.4
95	64.3	171	79.4
100	62.5	168	76.3
105	60.8	165	70.8

		Rope	Load capacity
[20].			[1000 lbs
	[°]:	[ft ]:	]

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

110 115	58.9 57.1	162 158	65.9 61.5
120	55.1	155	57.4
125	53.1	151	53.7
130	51.1	146	50.4
135	49	142	47.3
140	46.8	137	44.4
145	44.6	131	41.7
150	42.2	125	39.2
155	39.7	119	36.9
160	37.1	112	34.8
165	34.9	106	32.9
170	31.8	98	31.0
175	28.5	88	29.2
180	24.6	76	27.4
185	20	62	25.7

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

23	86	200	392.7
25	85.4	200	392.7
30	83.9	200	358.4
35	82.4	199	321.6
40	80.9	198	281.4
45	79.4	197	244.5
50	77.9	196	210.1
55	76.4	195	183.6
60	74.8	193	162.5
65	73.3	192	145.5
70	71.7	190	131.3
75	70.2	188	119.4
80	68.6	186	109.2
85	66.9	184	100.4
90	65.3	182	92.7
95	63.7	179	85.9
100	62	176	79.9
105	60.3	174	74.6
110	58.5	170	69.7
115	56.8	167	65.4
120	54.9	164	61.4
125	53.1	160	57.8
130	51.2	156	54.5
135	49.2	151	51.5
140	47.2	147	48.7
145	45.1	142	46.0
150	42.9	136	43.6
155	40.7	131	41.4
160	38.3	124	39.3
165	35.7	117	37.3
170	33	110	35.4
175	30.1	101	33.7
180	27.6	94	32.2
185	24.1	83	30.6
190	19.9	70	29.1

20/81 16.7.2007



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom		Load capacity
	angle [°]:	height [ft]:	[1000 lbs l
1048			1 f-11
194 ft point B			oad fall l (2821-2)
P01110 2	00111, 11	11040	(2021 2)
29	86	202	79.4
30	85.7	202	79.4
35 40	84.2 82.7	202 201	79.4 79.4
45	81.2	200	79.4
50 55	79.7 78.2	199 198	79.4 79.4
60	76.7	196	79.4
65	75.2	195	79.4
70 75	73.7 72.1	193 191	79.4 79.4
80	70.5	189	79.4
85 90	69 67.4	187 185	79.4 79.4
95	65.7	182	79.4
100	64.1	180	75.9
105 110	62.4 60.7	177 174	70.4 65.5
115	59	170	61.1
120 125	57.2 55.4	167 163	57.0 53.4
130	53.5	159	50.0
135 140	51.6 49.6	155 150	46.9 44.0
145	47.6	146	41.3
150	45.4	140	38.9
155 160	43.3 40.9	135 129	36.6 34.4
165	39.1	124	32.6
170 175	36.5 33.8	116 108	30.7 28.9
180	30.8	100	27.1
185	27.5 23.8	90	25.5
190 195	23.8 19.2	78 63	24.0 22.5
203 ft	Main l	hoom. I	oad fall
			(2821-1)
[	•		` 1
24	86	210	363.6
25	85.6	210	363.6
30 35	84.2 82.8	209 209	344.3 319.1
40	81.4	208	278.6
45 50	79.9 78.5	207 206	244.2 209.7
55	77	205	183.2
60 65	75.6 74.1	204	162.1 145.0
65 70	72.6	202 200	130.8
75	71.2	199	118.9
80 85	69.7 68.1	197 195	108.7 99.9
90	66.6	192	92.2
95 100	65 63.5	190 188	85.4 79.4
105	61.9	185	74.0
110 115	60.2	182	69.2
115 120	58.6 56.9	179 176	64.8 60.9

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
203 ft point B			oad fall l (2821-1)
125	55.2	172	57.3
130	53.4	168	54.0
135	51.6	164	50.9
140	49.8	160	48.1
145	47.9	156	45.5
150	45.9	151	43.1
155	43.8	146	40.8
160	41.7	140	38.7
165	39.5	134	36.7
170	37.2	127	34.9
175	35.3	122	33.3
180	32.7	114	31.6
185	29.9	105	30.1
190	26.8	96	28.6
195	23.3	84	27.2
200	19.2	71	25.8
203 ft point B			oad fall l (2821-2)
30 30 35 40 45	86 85.9 84.5 83.1 81.7	212 212 212 212 211 210	79.4 79.4 79.4 79.4 79.4
50	80.2	209	79.4
55	78.8	208	79.4
60	77.4	206	79.4
65	75.9	205	79.4
70	74.5	203	79.4
75	73	202	79.4
80	71.5	200	79.4
85	70	198	79.4
90	68.5	196	79.4
95	67	193	79.4
100	65.4	191	75.4
105	63.9	188	69.9
110	62.3	185	65.0
115	60.6	182	60.6
120 125 130 135 140 145	59 57.3 55.6 53.8 52	179 176 172 168 164 159	56.5 52.9 49.5 46.4 43.5 40.8
150 155 160 165 170	50.1 48.2 46.2 44.1 42.5 40.3	155 149 144 140 133	38.4 36.0 33.9 32.1 30.2
175	37.9	126	28.4
180	35.5	119	26.7
185	32.8	111	25.1
190	29.9	102	23.5
195	26.7	91	22.1
200	23	79	20.7

,		1	
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs l
	Main	boom, I	oad fall l (2821-1)
0.4	00	000	00.4
24 25	86 85.8	220 220	66.4 337.2
30	84.5	219	328.2
35 40	83.1 81.8	219 218	310.4 276.3
45	80.4	217	243.1
50 55	79 77.7	216 215	209.4 182.9
60	76.3	214	161.8
65 70	74.9 73.5	212 211	144.7 130.5
75	72.1	209	118.6
80 85	70.6 69.2	207 205	108.4 99.5
90	67.7	203	91.9
95 100	66.3 64.8	201 199	85.1 79.1
105	63.3	196	73.7
110 115	61.7 60.2	193 190	68.9 64.5
120	58.6	187	60.6
125 130	57 55.4	184 181	56.9 53.6
135	53.7	177	50.6
140 145	52 50.2	173 169	47.8 45.2
150	48.4	164	42.8
155 160	46.6 44.7	160 155	40.5 38.4
165	42.7	149	36.4
170 175	40.6 38.9	143 138	34.6 33.0
180	36.7	132	31.4
185 190	34.3 31.8	124 116	29.8 28.3
195	29	108	26.9
200 205	26 22.6	98 86	25.6 24.3
210	18.6	72	23.1
			oad fall
point B	oom, H	PT nead	l (2821-2)
30	86	222	79.4
35 40	84.7 83.4	221 221	79.4 79.4
45	82	220	79.4
50 55	80.7 79.3	219 218	79.4 79.4
60	78	216	79.4
65 70	76.6 75.2	215 214	79.4 79.4
75	73.8	212	79.4
80 85	72.4 71	210 208	79.4 79.4
90	69.6	206	79.4
95 100	68.1 66.6	204 202	79.4 75.1
105	65.2	199	69.6
110 115	63.7 62.1	197 194	64.7 60.3
120	60.6	191	56.2
125 130	59 57.4	188 184	52.6 49.2
135	55.8	180	46.1



Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
213 ft point B			oad fall l (2821-2)
140	54.1	176	43.2
145	52.4	172	40.5
150	50.6	168	38.1
155	48.8	163	35.8
160	46.9	158	33.6
165	45.4	154	31.8
170	43.4	149	29.9
175	41.4	143	28.1
180	39.2	136	26.4
185	36.9	129	24.8
190	34.5	122	23.3
195	31.9	113	21.9
200	29	104	20.5
205	25.9	93	19.2
210	22.3	80	17.9
215	17.9	64	16.7
223 ft point B			oad fall   (2821-1)
25	86	230	66.4
30	84.7	229	311.2
35	83.4	229	296.3
40	82.1	228	272.2
45	80.8	227	240.4
50	79.5	226	209.1
55	78.2	225	182.5
60	76.9	224	161.4
65	75.6	222	144.3
70	74.2	221	130.1
75	72.9	220	118.1
80	71.5	218	107.9
85	70.2	216	99.1
90	68.8	214	91.4
95	67.4	212	84.6
100	66	210	78.6
105	64.6	207	73.2
110	63.1	205	68.4
115	61.6	202	64.0
120	60.2	199	60.0
125	58.7	196	56.4
130	57.1	193	53.1
135	55.6	189	50.0
140	54	186	47.2
145	52.3	182	44.6
150	50.7	178	42.2
155	49	173	40.0
160	47.2	168	37.9
165	45.4	164	35.9
170	43.5	158	34.0
170 175 180 185 190 195	42 40 38 35.8 33.4	154 148 142 135 127	32.5 30.8 29.3 27.8 26.4
200	31	119	25.1
205	28.3	110	23.8
210	25.3	99	22.6
215	22	87	21.5
220	18	73	20.3

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs
223 ft point B	Main	boom, I	oad fall l (2821-2)
31 35	86 85	232 231	79.4 79.4
40	83.7	231	79.4
45 50	82.4 81.1	230 229	79.4 79.4
55	79.8	228	79.4
60	78.5 77.2	227 225	79.4 79.4
65 70	75.9	223	79.4
75	74.5	222	79.4
80 85	73.2 71.9	221 219	79.4 79.4
90	70.5	217	79.4
95 100	69.1 67.7	215 213	79.4 74.6
105	66.3	210	69.1
110 115	64.9 63.5	208 205	64.3 59.8
120	62	203	55.7
125	60.5	199	52.1
130 135	59 57.5	196 192	48.7 45.6
140	55.9	189	42.7
145 150	54.3 52.7	185 181	40.0 37.5
155	51	177	35.2
160 165	49.7 47.9	173 168	33.3 31.3
170	46.1	163	29.4
175 180	44.3 42.3	158 152	27.6
185	40.3	146	25.9 24.3
190	38.2	139	22.8
195 200	35.9 33.6	132 124	21.4 20.0
205	31	115	18.7
210 215	28.2 25.1	106 95	17.5 16.3
220	21.6	82	15.1
225 <b>233 ft</b>	17.2 <b>Main</b> 1	65 boom, I	oad fall
point B	oom, H	PT head	l (2821-1)
26	86	240	66.4
30 35	85 83.7	239 238	294.7 277.8
40	82.5	238	261.3
45 50	81.2 80	237 236	233.8 208.3
55	78.7	235	182.1
60 65	77.5	234	161.0
65 70	76.2 74.9	233 231	143.9 129.6
75	73.6	230	117.7
80 85	72.3 71	228 226	107.4 98.6
90	69.7	225	90.9
95 100	68.4 67.1	223 220	84.1 78.1
105	65.7	218	72.7
110 115	64.3 63	216 213	67.9 63.5
120	61.6	210	59.5
125	60.1	208	55.9 53.6
130 135	58.7 57.2	204 201	52.6 49.6
140	55.7	198	46.8

Radius Main Rope Lo [ft]: boom pulley capa	
angle height [100	city
233 ft Main boom, Load point Boom, HPT head (28	
	1.2
	1.7 9.5
160 49.5 182 37	7.4
	5.4 3.6
175   44.7   168   32	2.0
	).4 3.8
190 39.1 151 27	7.3
	6.0 1.6
205 32.6 130 23	3.4
	2.2 1.1
	0.0
225   21.4   89   18	3.9
233 ft Main boom, Load	
point Boom, HPT head (28	21-2)
32 86 242 79	9.4
35 85.2 241 79	9.4
	9.4 9.4
	9.4
	9.4 9.4
65 77.7 236 79	9.4
	9.4 9.4
80 73.9 231 79	9.4
	9.3 3.8
95   70   226   78	3.2
	1.2 3.7
110 66.1 219 63	3.8
	9.4 5.3
	1.6
	2 2
130 60.5 208 48	
130 60.5 208 48 135 59 204 45 140 57.6 201 42	5.1 2.2
130     60.5     208     48       135     59     204     48       140     57.6     201     42       145     56.1     198     38	5.1 2.2 9.6
130         60.5         208         48           135         59         204         45           140         57.6         201         42           145         56.1         198         37           150         54.6         194         37           155         53         190         34	5.1 2.2 9.6 7.1
130         60.5         208         48           135         59         204         48           140         57.6         201         42           145         56.1         198         35           150         54.6         194         37           155         53         190         34           160         51.8         186         32	5.1 2.2 9.6 7.1 1.8 2.9
130         60.5         208         48           135         59         204         49           140         57.6         201         32           145         56.1         198         33           150         54.6         194         37           155         53         190         34           160         51.8         186         36           165         50.1         182         30           170         48.5         177         29	5.1 2.2 9.6 7.1 4.8 2.9 9.8
130         60.5         208         48           135         59         204         45           140         57.6         201         42           145         56.1         198         37           150         54.6         194         37           155         53         190         34           160         51.8         186         32           165         50.1         182         30           170         48.5         177         29           175         46.8         172         27	5.1 2.2 9.6 7.1 4.8 2.9 9.8 9.0
130         60.5         208         48           135         59         204         49           140         57.6         201         42           145         56.1         198         39           150         54.6         194         37           155         53         190         34           160         51.8         186         32           165         50.1         182         30           170         48.5         177         25           170         48.5         177         25           180         45         167         25           185         43.2         162         23	5.1 2.2 9.6 7.1 4.8 2.9 9.8 9.0 7.2 5.5 3.9
130         60.5         208         48           135         59         204         45           140         57.6         201         42           145         56.1         198         33           150         54.6         194         37           155         53         190         34           160         51.8         186         32           165         50.1         182         30           170         48.5         177         29           175         46.8         172         27           180         45         167         25           185         43.2         162         23           190         41.3         156         22	5.1 2.2 9.6 7.1 4.8 2.9 9.8 9.0 7.2 5.5 3.9
130         60.5         208         48           135         59         204         49           140         57.6         201         49           145         56.1         198         39           150         54.6         194         33           155         53         190         34           160         51.8         186         33           165         50.1         182         30           170         48.5         177         29           175         46.8         172         27           180         45         167         25           185         43.2         162         23           190         41.3         156         22           195         39.3         149         24           200         37.2         142         19	5.1 2.2 9.6 7.1 4.8 2.9 9.0 7.2 5.5 3.9 2.4 1.0
130         60.5         208         48           135         59         204         45           140         57.6         201         42           145         56.1         198         39           150         54.6         194         37           155         53         190         34           160         51.8         186         36           165         50.1         182         30           170         48.5         177         25           180         45         167         22           185         43.2         162         23           190         41.3         156         22           195         39.3         149         25           200         37.2         142         12           205         35         135         18	5.1 2.2 9.6 7.1 4.8 2.9 0.8 0.0 7.2 5.5 3.9 2.4 1.0 0.6
130         60.5         208         48           135         59         204         49           140         57.6         201         49           145         56.1         198         39           150         54.6         194         33           155         53         190         34           160         51.8         186         32           165         50.1         182         30           170         48.5         177         29           175         46.8         172         22           180         45         167         25           185         43.2         162         23           190         41.3         156         22           195         39.3         149         22           200         37.2         142         15           205         35         135         18           210         30.2         118         15	5.1 2.2 9.6 7.1 4.8 2.9 9.0 8.0 7.2 5.5 8.9 2.4 1.0 9.6 9.3 7.1
130         60.5         208         48           135         59         204         49           140         57.6         201         49           145         56.1         198         39           150         54.6         194         37           155         53         190         34           160         51.8         186         33           165         50.1         182         30           170         48.5         177         29           175         46.8         172         25           180         45         167         25           185         43.2         162         23           190         41.3         156         22           195         39.3         149         22           200         37.2         142         19           205         35         135         18           210         32.7         127         17           215         30.2         118         18           220         27.5         108         14	5.1 2.2 9.6 7.1 4.8 2.9 9.0 9.0 7.2 5.5 3.9 2.4 1.0 9.6 3.3



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
	Main l	boom, I	oad fall l (2821-1)
26	86	249	273.2
30	85.2	249	273.2
35	84	248	261.0
40	82.8	248	250.9
45	81.6	247	226.5
50 55	80.4 79.2 78	246 245 244	206.0 181.8
60 65 70	76.8 75.5	243 242	160.6 143.4 129.2
75	74.3	240	117.2
80	73.1	239	107.0
85	71.8	237	98.1
90	70.6	235	90.4
95	69.3	233	83.6
100	68	231	77.6
105	66.8	229	72.2
110	65.5	227	67.3
115	64.1	224	63.0
120	62.8	222	59.0
125	61.5	219	55.4
130	60.1	216	52.1
135	58.7	213	49.0
140	57.3	210	46.2
145	55.9	206	43.6
150	54.4	203	41.2
155	52.9	199	38.9
160	51.4	195	36.8
165	49.9	191	34.8
170	48.7	187	33.2
175	47	182	31.4
180	45.4	178	29.8
185	43.7	172	28.2
190	41.9	167	26.8
195	40.1	161	25.4
200	38.2	154	24.1
205	36.2	148	22.8
210	34.1	140	21.6
215	31.8	132	20.5
220	29.5	123	19.4
225	26.9	114	18.4
230	24	103	17.4
235	20.8	90	16.4
243 ft	Main l	boom, I	oad fall
point B		PT head	l (2821-2)
32	86	252	79.4
35	85.4	251	79.4
40	84.2	250	79.4
45	83	250	79.4
50	81.8	249	79.4
55	80.6	248	79.4
60	79.4	247	79.4
65	78.2	246	79.4
70	77	244	79.4
75	75.8	243	79.4
80	74.6	241	79.4
85	73.4	240	79.4
90	72.1	238	78.7
95	70.9	236	77.3
100	69.6	234	73.7
105	68.4	232	68.2
110	67.1	230	63.3
115	65.8	227	58.9
120	64.5	225	54.8
125	63.2	222	51.1
130	61.8	219	47.7

125	••		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
243 ft point B			oad fall l (2821-2)
135	60.5	216	44.6
140	59.1	213	41.7
145	57.7	210	39.0
150	56.2	206	36.6
155	54.8	202	34.3
160	53.6	199	32.3
165	52.1	195	30.3
170	50.5	191	28.4
175	49	186	26.6
180	47.3	181	25.0
185	45.7	176	23.4
190	43.9	171	21.9
195	42.2	165	20.4
200	40.3	159	19.1
205	38.4	152	17.8
210	36.3	145	16.6
215	34.2	137	15.4
220	31.9	129	14.3
225	29.5	120	13.2
230	26.8	109	12.2
235	23.8	98	11.2
240	20.4	84	10.2
245 <b>253 ft</b> point B	16.1 <b>Main</b> 1		9.2 oad fall l (2821-1)
27 30	86 85.3 84.2	259 259	257.6 257.6 252.9
35 40 45 50	83.1 81.9 80.8	258 258 257 256	247.8 227.8 203.8
55	79.6	255	180.9
60	78.5	254	160.3
65	77.3	253	143.1
70	76.1	252	128.8
75	74.9	250	116.8
80	73.8	249	106.6
85	72.6	247	97.7
90	71.4	246	90.0
95	70.2	244	83.2
100	68.9	242	77.2
105	67.7	240	71.8
110	66.5	238	67.0
115	65.2	235	62.6
120	64	233	58.6
125	62.7	230	55.0
130	61.4	227	51.7
135	60.1	224	48.6
140	58.7	221	45.8
145	57.4	218	43.2
150	56	215	40.8
155	54.6	211	38.5
160	53.2	207	36.4
165	51.8	203	34.5

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
170 175	50.6 49.1	200 196	32.8 31.0
180	47.6	191	29.4
185 190	46 44.4	186 181	27.9 26.4
195	42.7	176	25.0
200 205	41 39.2	170 164	23.7 22.5
210	37.3	157	21.3
215	35.3	150	20.2
220 225	33.3 31.1	143 135	19.1 18.0
230 235	28.8 26.2	126 116	17.1 16.1
240	23.4	104	15.2
245	20.3	91	14.3
			oad fall
point B	oom, H	PT head	l (2821-2)
33	86 85.5	261 261	79.4 79.4
35 40	84.4	260	79.4 79.4
45 50	83.3 82.1	260	79.4
50 55	82.1	259 258	79.4 79.4
60	79.9	257	79.4 79.4
65 70	78.7 77.6	256 254	79.4 79.4
75	76.4	253	79.4
80 85	75.2 74	252 250	79.4 79.4
90	72.9	248	79.4
95 100	71.7 70.5	247 245	77.4 73.4
105	69.2	243	67.9
110 115	68.1 66.8	240 238	63.0 58.5
120	65.6	236	54.4
125 130	64.3 63	233 230	50.7 47.3
135	61.7	228	44.2
140 145	60.4 59.1	225 221	41.3 38.7
150	57.7	218	36.2
160	55.4 55.3	214 212	33.9 32.0
165	53.8	208	29.9
170 175	52.4 50.9	204 199	28.1 26.3
180 185	49.4	195 190	24.6 23.0
190	47.9 46.3	185	23.0
195	44.6 42.9	180	20.1
200 205	41.2	174 168	18.8 17.5
210 215	39.4	162 155	16.3 15.1
220	37.5 35.5	148	14.0
225 230	33.4 31.2	140 131	12.9 11.9
235	28.7	122	10.9
240 245	26.1 23.2	111 99	10.0 9.0
250	19.8	85	8.1



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
28	86	269	239.9
30	85.5	269	239.9
35 40	84.4 83.3	268 268	237.6 234.0
45	82.2	267	221.9
50 55	81.1 80	266 265	201.4 178.8
60	78.9	264	159.9
65 70	77.8 76.7	263 262	142.7 128.4
75	75.5	261	116.4
80	74.4	259	106.1
85 90	73.2 72.1	258 256	97.2 89.5
95	70.9	254	82.7
100 105	69.8 68.6	252 250	76.7 71.3
110	67.4	248	66.4
115 120	66.2 65	246 244	62.0 58.1
125	63.8	241	54.4
130	62.6	239	51.1 48.1
135 140	61.3 60.1	236 233	46.1 45.2
145	58.8	230	42.6
150 155	57.5 56.2	227 223	40.2 38.0
160	54.8	220	35.9
165 170	53.5 52.4	216 213	33.9 32.2
175	51	209	30.5
180 185	49.5 48.1	205 200	28.8 27.3
190	46.6	195	25.8
195	45	190	24.4
200 205	43.4 41.8	185 179	23.1 21.9
210	40.1	173	20.7
215 220	38.3 36.5	167 160	19.6 18.5
225	34.6	153	17.5
230 235	32.6 30.4	145 137	16.5 15.5
240	28.1	128	14.6
245 250	25.6 22.9	117 106	13.8 12.9
255	19.8	92	12.1
			oad fall l (2821-2)
34	86	271	79.4
35	85.7	271	79.4
40 45	84.6 83.5	270 270	79.4 79.4
50	82.4	269	79.4 79.4
55 60	81.3	268	79.4
60 65	80.2 79.1	267 266	79.4 79.4
70	78	265	79.4
75 80	76.9 75.8	263 262	79.4 79.4
85	74.7	260	79.4
90	73.5	259	79.4
95	1724		
95 100 105	72.4 71.2 70.1	257 255 253	78.6 72.9 67.4

125.7				
Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]	
			oad fall l (2821-2)	
115 120	67.7 66.6	249 247	58.0 53.9	
125	65.3	244	50.2	
130 135	64.1 62.9	242 239	46.8 43.7	
140 145	61.6 60.4	236 233	40.8 38.2	
150	59.1	230	35.7	
155 160	58.1 56.8	227 224	33.4 31.4	
165	55.4	220	29.4	
170 175	54.1 52.7	216 212	27.5 25.7	
180	51.3	208	24.1	
185 190	49.8 48.3	204 199	22.5 21.0	
195	46.8	194	19.6	
200 205	45.3 43.7	189 183	18.2 16.9	
210	42	178 172	15.7	
215 220	40.3 38.5	165	14.6 13.5	
225 230	36.7 34.7	158 150	12.4 11.4	
235	32.6	142	10.4	
240				
240	30.4	133	9.5 8.6	
245 250	28.1 25.5	124 113	8.6 7.7	
245 250 255	28.1 25.5 22.6	124 113 100	8.6 7.7 6.8	
245 250 255 260	28.1 25.5 22.6 19.3	124 113 100 86	8.6 7.7 6.8 6.0	
245 250 255 260 <b>272 ft</b>	28.1 25.5 22.6 19.3 <b>Main</b> 1	124 113 100 86	8.6 7.7 6.8	
245 250 255 260 <b>272 ft</b> <b>point B</b>	28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b>	124 113 100 86 boom, I PT head	8.6 7.7 6.8 6.0 Load fall (2821-1)	
245 250 255 260 <b>272 ft</b> <b>point B</b>	28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b>	124 113 100 86 boom, I PT head	8.6 7.7 6.8 6.0 coad fall (2821-1)	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40	28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>com, H</b> 86 85.7 84.6 83.6	124 113 100 86 boom, I PT head 279 279 279 278 278	8.6 7.7 6.8 6.0 <b>Joad fall</b> ( <b>2821-1</b> ) 222.0 222.0 221.2 219.0	
245 250 255 260 <b>272 ft point B</b> 28 30 35	28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6	124 113 100 86 boom, I PT head 279 279 279 278	8.6 7.7 6.8 6.0 woad fall (2821-1) 222.0 222.0 221.2	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 55	28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4	124 113 100 86 boom, I PT head 279 279 278 278 278 277 276 275	8.6 7.7 6.8 6.0 <b>Joad fall</b> ( <b>2821-1</b> ) 222.0 221.2 219.0 213.6 196.1 176.8	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 60 65	28.1 25.5 22.6 19.3 <b>Main</b> l <b>oom, H</b> . 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2	124 113 100 86 boom, I PT head 279 279 278 278 277 276	8.6 7.7 6.8 6.0 <b>Load fall</b> (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 55 60 65 70	28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 65 70 75 80	28.1 25.5 22.6 19.3 <b>Main</b> l <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75	124 113 100 86 <b>boom, I</b> <b>PT head</b> 279 278 278 277 276 275 274 273 272 271 269	8.6 7.7 6.8 6.0 <b>Joad fall</b> ( <b>2821-1</b> ) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6	
245 250 255 260 272 ft point B 28 30 35 40 45 50 65 70 75 80 85	28.1 25.5 22.6 19.3 <b>Main</b> l <b>oom, H</b> . 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8	
245 250 255 260 272 ft point B 28 30 35 40 45 50 66 67 70 75 80 85 90 95	28.1 25.5 22.6 19.3 <b>Main I</b> 00m, <b>H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265	8.6 7.7 6.8 6.0 30 d fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2	
245 250 255 260 272 ft point B 28 30 35 40 45 50 66 60 65 70 75 80 85 90 95	28.1 25.5 22.6 19.3 <b>Main</b> loom, <b>H</b> 86 85.7 84.6 83.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 268 265 263	8.6 7.7 6.8 6.0 <b>Joad fall</b> (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 105.6 96.8 89.0 82.2 76.2	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	28.1 25.5 22.6 19.3 <b>Main I</b> 000m, <b>H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 268 266 265 265 261 259	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 76.2 70.8 65.9	
245 250 255 260 272 ft point B 28 30 35 40 45 50 65 70 75 80 85 90 95 100 105	28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 263	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 6.8 89.0 82.2 76.2 70.8	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 65 70 75 80 95 100 105 110 115 1120 125	28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 72.8 71.7 70.5 69.4 68.3 67.1 66.6 64.8	124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 268 266 265 263 261 259 255 255	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 70.8 65.9 61.5 57.6 53.9	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28  30  35  40  45  50  65  70  75  80  85  90  105  110  115  120  125  130  135	28.1 25.5 22.6 19.3 <b>Main</b> loom, <b>H</b> 86 85.7 84.6 83.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257 255 255	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 76.2 70.8 65.9 61.5 57.6 53.9 50.6 47.6	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28  30  35  40  50  55  60  65  70  75  80  85  90  95  100  115  120  125  130  135  140	28.1 25.5 22.6 19.3 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.5 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 252	8.6 7.7 6.8 6.0  Joad fall (2821-1)  222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 76.2 70.8 65.9 61.5 57.6 53.9 50.6 47.6 44.7	
245 250 255 260 <b>272 ft</b> <b>point B</b> 28  30  35  40  45  50  65  70  75  80  85  90  105  110  115  120  125  130  135  140  145  150	28.1 25.5 22.6 19.3 <b>Main</b> loom, <b>H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60.5 63.6	124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257 255 252 250 247 241 238	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 76.2 70.8 65.9 61.5 57.6 53.9 50.6 44.7 42.1 39.7	
245 250 255 260 272 ft point B 28 30 35 40 45 50 60 65 70 75 80 85 90 95 100 105 115 120 125 130 140 145 150 155	28.1 25.5 22.6 19.3 <b>Main</b> loom, <b>H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 58.8 57.6	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244 241 238 238	8.6 7.7 6.8 6.0  Joad fall (2821-1)  222.0 221.2 219.0 221.3.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 76.2 70.8 65.9 61.5 57.6 53.9 50.6 44.7 42.1 39.7 37.5	
245 250 255 260 272 ft point B 28 30 35 40 45 50 55 60 65 70 75 80 90 95 100 115 120 125 130 135 140 145 150 150 160 165	28.1 25.5 22.6 19.3 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 76.1 75.7 70.5 69.4 68.3 67.1 66.6 64.8 63.6 62.5 61.3 60 58.8 57.6 60 58.8 57.6 56.3 55.3	124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 268 266 265 263 261 259 257 255 252 250 247 244 241 238 232 222	8.6 7.7 6.8 6.0 3.0 ad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 70.2 70.8 65.9 61.5 57.6 53.9 50.6 44.7 42.1 39.7 37.5 35.3 33.4	
245 250 255 260 272 ft point B 28 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145 155 160	28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 58.8 57.6 56.3	124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 255 252 252 252 252 252 253 244 241 235 235 232	8.6 7.7 6.8 6.0 Joad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 176.8 158.4 142.2 127.9 115.9 105.6 96.8 89.0 82.2 76.2 70.8 65.9 61.5 57.6 53.9 50.6 44.7 42.1 39.7 37.5 35.3	

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
272 ft point B	Main l	boom, I PT head	oad fall l (2821-1)
190 195	48.5	209 204	25.3
200	47.1 45.6	199	23.9 22.6
205	44.1	194	21.4
210	42.5	189	20.2
215 220	40.9 39.3	183 177	19.1 18.0
225	37.5	170	17.0
230	35.7	163	16.0
235	33.9	156	15.1
240 245	31.9 29.8	148 139	14.2 13.3
250	27.5	130	12.5
255	25.1	119	11.7
260	22.4	107	10.9
265	19.3	94	10.1
	oom, H	PT head	oad fall l (2821-2)
34 35	86	281	79.4
35 40	85.9 84.8	281 280	79.4 79.4
45	83.8		
EΛ		280	79.4
50	82.7	279	79.4
55	82.7 81.7	279 278	79.4 79.4
55 60	82.7 81.7 80.6	279 278 277	79.4 79.4 79.4
55 60 65	82.7 81.7 80.6 79.5	279 278 277 276	79.4 79.4 79.4 79.4
55 60 65 70 75	82.7 81.7 80.6 79.5 78.5 77.4	279 278 277 276 275 274	79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80	82.7 81.7 80.6 79.5 78.5 77.4 76.3	279 278 277 276 275 274 272	79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2	279 278 277 276 275 274 272 271	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80	82.7 81.7 80.6 79.5 78.5 77.4 76.3	279 278 277 276 275 274 272	79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9	279 278 277 276 275 274 272 271 269 268 266	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9	279 278 277 276 275 274 272 271 269 268 266 264	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 105	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7	279 278 277 276 275 274 272 271 269 268 266 264 262	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 115 110 115 120 125	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.5 66.3	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 100 105 110 115 120 125	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.5 66.3 65.1	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.5 66.3 65.1 64	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.5 66.3 65.1	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 105 110 115 125 130 135 140 145 150	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.3	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244 242	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 115 120 125 130 144 5 150 155	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.3 59.4	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244 242 239	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145 155 160	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.3 59.4 58.1	279 278 277 276 275 274 272 271 269 266 264 262 260 258 255 253 250 247 244 242 239 236	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 115 120 125 130 144 5 150 155	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.3 59.4	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244 242 239	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 95 100 105 110 125 130 135 140 145 155 160 165 170	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 70.8 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.3 59.4 58.1 56.9 55.6 64.3	279 278 277 276 275 274 272 271 269 268 264 262 250 258 255 253 250 247 244 242 239 236 232 229 229	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
55 60 65 70 75 80 85 90 95 100 105 110 115 125 130 135 140 145 150 155 160 165 170	82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 70.8 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.3 59.4 58.1 56.9	279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244 242 239 236 232 229	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4



Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs
272 ft point B	Main l	boom, I	oad fall l (2821-2)
195	48.8	208	19.1
200	47.3	203	17.7
205	45.9	198	16.5
210	44.3	193	15.3
215	42.8	187	14.1
220	41.1	181	13.0
225	39.5	175	11.9
230	37.7	168	10.9
235	35.9	161	10.0
240	34	153	9.0
245	31.9	145	8.1
250	29.8	136	7.3
255	27.5	126	6.4
260 265 270 <b>282 ft</b>	24.9 22.1 18.8 <b>Main</b> 1	114 102 87	5.6 4.6 3.6
point B	oom, H	PT head	l (2821-1)
29	86	289	205.3
30	85.8	289	205.3
35	84.8	288	204.8
40	83.8	288	202.9
45	82.8	287	201.1
50	81.7	286	186.8
55	80.7	285	174.7
60	79.7	284	156.5
65	78.6	283	141.4
70	77.6	282	127.5
75	76.6	281	115.4
80	75.5	280	105.2
85	74.5	278	96.3
90	73.4	277	88.5
95	72.3	275	81.7
100	71.3	273	75.7
105	70.2	272	70.2
110	69.1	270	65.4
115	68	268	61.0
120	66.9	265	57.0
125	65.8	263	53.4
130	64.6	261	50.1
135	63.5	258	47.0
140	62.4	256	44.2
145	61.2	253	41.6
150	60	250	39.1
155	58.8	247	36.9
160	57.6	244	34.8
165	56.7	241	33.0
170	55.4	238	31.1
175	54.2	234	29.4
180	52.9	230	27.7
185	51.6	226	26.2
190	50.3	222	24.7
195	48.9	218	23.4

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
282 ft point B			oad fall l (2821-1)
200	47.5	213	22.1
205	46.1	208	20.8
210	44.7	203	19.6
215	43.2	198	18.5
220	41.7	192	17.4
225	40.1	186	16.4
230	38.5	180	15.4
235	36.8	173	14.5
240	35	166	13.6
245	33.2	158	12.7
250	31.2	150	11.9
255	29.1	141	11.1
260	26.9	132	10.3
265	24.5	121	9.6
270	21.9	109	8.9
			8.2 Load fall l (2821-2)
35	86	291	79.4
40	85	290	79.4
45	84	290	79.4
50	83	289	79.4
55	81.9	288	79.4
60	80.9	287	79.4
65	79.9	286	79.4
70	78.9	285	79.4
75	77.8	284	79.4
80	76.8	282	79.4
85	75.8	281	79.4
90	74.7	280	79.4
95	73.6	278	78.1
100	72.6	276	71.9
105	71.5	274	66.4
110	70.5	272	61.5
115	69.4	270	57.0
120	68.3	268	53.0
125	67.2	266	49.2
130 135 140 145 150	66.1 64.9 63.8 62.7 61.5 60.6	264 261 259 256 253 251	45.8 42.7 39.8 37.1 34.7 32.6
155 160 165 170 175 180	59.4 58.2 57 55.7 54.5	248 244 241 237 234	30.4 28.4 26.5 24.7 23.0
185	53.2	230	21.4
190	51.9	225	19.9
195	50.5	221	18.5
200	49.2	217	17.2
205	47.8	212	15.9
210	46.4	207	14.7
215	44.9	202	13.5
220	43.4	196	12.4
225	41.9	190	11.4
230	40.3	184	10.4
235	38.7	178	9.4
240	36.9	171	8.5
245	35.1	163	7.6
250	33.3	156	6.7
255	31.3	147	5.9
260	29.1	138	4.8
265	26.9	127	3.8
270	24.3	116	2.9

Radius   Main   Rope   Load   pulley   capaci   height   1000   ft  :	ı ity
[°]:   [ft ]:   ]  292 ft Main boom, Load fa point Boom, HPT head (2821)    30	
292 ft Main boom, Load fa point Boom, HPT head (2821) 30 86 298 191.3 35 85 298 191.3 40 84 297 189.3 50 82 296 178.6 55 81 295 188.3 60 80 294 154.6 65 79 293 139.8 70 78 292 127.0 75 77 291 115.0 80 76 290 104.7 80 76 290 90.9 105 72.9 285 81.3 95 72.9 285 81.3 100 71.9 284 69.8 110 69.8 280 65.0 115 68.8 278 60.6 120 67.7 276 56.6	lbs
90int Boom, HPT head (2821) 30 86 298 66.4 30 86 298 191.3 35 85 298 191.3 40 84 297 188.4 50 82 296 178.8 55 81 295 168.6 60 80 294 154.6 65 79 293 139.8 70 78 292 127.0 75 77 291 115.0 85 75 288 95.9 90 74 287 88.1 95 72.9 285 81.3 100 71.9 284 75.2 105 70.9 282 69.8 110 69.8 280 65.0 115 68.8 278 60.6	
30 86 298 66.4 30 86 298 191.3 35 85 298 191.3 40 84 297 189.3 50 82 296 178.8 55 81 295 168.7 55 81 295 168.7 70 78 292 127.0 75 77 291 115.0 80 76 290 104.7 85 75 288 95.9 90 74 287 88.1 95 72.9 285 81.3 100 71.9 284 75.2 105 70.9 282 69.8 110 69.8 280 65.0 115 68.8 278 60.6 120 67.7 276 56.6	
30         86         298         191.3           35         85         298         191.3           40         84         297         188.2           50         82         296         178.8           55         81         295         168.           65         79         293         139.8           70         78         292         127.0           75         77         291         115.0           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	-1)
30         86         298         191.3           35         85         298         191.3           40         84         297         188.2           50         82         296         178.8           55         81         295         168.           65         79         293         139.8           70         78         292         127.0           75         77         291         115.0           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
35         85         298         191.3           40         84         297         188.3           45         83         297         178.6           50         82         296         178.6           55         81         295         168.6           60         80         294         154.6           65         79         293         139.8           70         78         292         127.0           80         76         290         104.7           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	3
45         83         297         188.2           50         82         296         178.8           55         81         295         168.6           60         80         294         154.6           65         79         293         139.8           70         78         292         127.0           75         77         291         115.0           80         76         290         104.1           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	3
50         82         296         178.8           55         81         295         168.2           60         80         294         154.8           65         79         293         139.8           70         78         292         127.0           75         77         291         115.0           80         76         290         104.7           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
60         80         294         154.8           65         79         293         139.8           70         78         292         127.6           75         77         291         115.0           80         76         290         104.1           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
65         79         293         139.8           70         78         292         127.0           75         77         291         115.0           80         76         290         104.1           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
70         78         292         127.0           75         77         291         115.0           80         76         290         104.7           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
80         76         290         104.7           85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	)
85         75         288         95.9           90         74         287         88.1           95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
95         72.9         285         81.3           100         71.9         284         75.2           105         70.9         282         69.8           110         69.8         280         65.0           115         68.8         278         60.6           120         67.7         276         56.6	
100     71.9     284     75.2       105     70.9     282     69.8       110     69.8     280     65.0       115     68.8     278     60.6       120     67.7     276     56.6	
105     70.9     282     69.8       110     69.8     280     65.0       115     68.8     278     60.6       120     67.7     276     56.6	
115 68.8 278 60.6 120 67.7 276 56.6	
120 67.7 276 56.6	
125 66.6 274 53.0	
130   65.6   272   49.6 135   64.5   269   46.6	
140 63.4 267 43.7	
145         62.3         264         41.1           150         61.1         261         38.7	
155 60 258 36.4	
160 58.8 255 34.3	
165 57.9 253 32.6 170 56.8 250 30.7	
175 55.6 246 29.0	
180 54.4 242 27.3 185 53.1 239 25.8	
190 51.9 235 24.3	
195 50.6 231 22.9 200 49.3 226 21.6	
205 48 222 20.4	
210 46.6 217 19.2	
215   45.3   212   18.1 220   43.8   207   17.0	
225 42.4 201 16.0	
230 40.9 196 15.0 235 39.3 190 14.1	
240 37.7 183 13.2	
245         36.1         176         12.3           250         34.3         169         11.5	
255 32.5 161 10.7	
260 30.6 153 9.9	
265 28.6 144 9.2 270 26.4 134 8.5	
275 24 123 7.8	
280 21.4 110 7.1 285 18.4 96 6.5	



Version: 9839979/59979/ HPT foot: 2821-1

302 ft Main boom, Load fall point Boom, HPT head (2821-1)  30 86 308 177.3 40 84.2 307 176.4 45 83.2 307 175.5 50 82.3 306 170.4 55 81.3 305 161.3 60 80.4 304 152.9 65 79.4 303 138.0 70 78.4 302 125.4 75 77.5 301 114.5 80 76.5 299 95.4 90 74.5 297 87.6 95 73.5 296 80.8 100 72.5 294 74.7 105 71.5 292 69.3 110 70.5 291 64.4 115 69.5 287 56.0 125 67.4 285 52.4 130 66.4 282 49.1 135 65.4 280 46.0 140 64.3 278 43.2 145 63.2 275 40.6 150 62.2 272 38.1 155 61.1 270 35.9 160 60 267 33.8 165 59.1 264 32.0 170 58 261 30.1 175 56.9 258 28.4 180 55.7 255 26.7 185 54.5 251 243 22.4 200 50.9 239 21.1 205 49.7 235 19.8 210 48.4 230 18.6 215 47.1 226 17.5 220 45.8 210 14.4 225 44.4 216 15.4 230 43 210 14.4 230 18.6 245 38.6 193 11.7 250 37 186 10.9 255 35.4 179 10.1 266 31.9 164 8.6 270 30 155 7.9 275 28 146 7.2 280 25.9 136 6.6 285 23.5 124 5.9 200 50.9 30 155 7.9 275 28 146 7.2 280 25.9 136 6.6	Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
35         85.2         308         177.3           40         84.2         307         176.4           45         83.2         307         175.5           50         82.3         306         170.4           55         81.3         305         161.3           60         80.4         304         152.9           65         79.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         60.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4				
40         84.2         307         176.4           45         83.2         307         175.5           50         82.3         306         170.4           55         81.3         305         161.3           60         80.4         304         152.9           65         79.4         303         138.0           70         78.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         85.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         60.0           120         68.5         289         60.0           120         68.5         289         60.0           125         67.4         285         52.4           130         66.4	30	86	308	66.4
45         83.2         307         175.5           50         82.3         306         170.4           55         81.3         305         161.3           60         80.4         304         152.9           65         79.4         303         138.0           70         78.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         287         60.0           125         67.4         285         52.4           130         66.4         282         43.2           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2				
50         82.3         306         170.4           55         81.3         305         161.3           60         80.4         304         152.9           65         79.4         303         138.0           70         78.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2				
55         81.3         305         161.3           60         80.4         304         152.9           65         79.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         60.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         282         49.1           135         65.4         282         49.1           135         65.4         282         49.1           135         65.4         282         49.1           136         65.4				
65         79.4         303         138.0           70         78.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         287         56.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60		81.3		
70         78.4         302         125.4           75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         76.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         282         49.1           135         65.4         280         49.1           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60				
75         77.5         301         114.5           80         76.5         300         104.3           85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         60.0           120         68.5         287         56.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1				
85         75.5         299         95.4           90         74.5         297         87.6           95         73.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         287         56.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3				
90         74.5         297         87.6           95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         49.1           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3				
95         73.5         296         80.8           100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         60.0           120         68.5         287         56.0           120         68.5         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3				
100         72.5         294         74.7           105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         289         60.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         48.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         243           200         50.9         239         21.1           205         49.7         235         18.6           215         47.1				
105         71.5         292         69.3           110         70.5         291         64.4           115         69.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7				74.7
115         69.5         289         60.0           120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         38.1           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4		71.5		69.3
120         68.5         287         56.0           125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         18.6           215         47.1         226         17.5           220         45.8				
125         67.4         285         52.4           130         66.4         282         49.1           135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4		68.5		
135         65.4         280         46.0           140         64.3         278         43.2           145         63.2         275         38.1           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         30.1           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43				
140         64.3         278         43.2           145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6				
145         63.2         275         40.6           150         62.2         272         38.1           155         61.1         270         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6				
150         62.2         272         38.1           155         61.1         270         35.9           160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         239         19.8           210         48.4         230         18.6         19.8           210         48.4         230         18.6         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         109         12.6           245         38.6         193         11.7           250         37         186         10.9				
160         60         267         33.8           165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4				
165         59.1         264         32.0           170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           265         31.9				
170         58         261         30.1           175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         219           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         31.9         164         8.6           270         30				
175         56.9         258         28.4           180         55.7         255         26.7           185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30				
185         54.5         251         25.2           190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         <	175			28.4
190         53.3         247         23.7           195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9		55.7		
195         52.1         243         22.4           200         50.9         239         21.1           205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9		54.5 53.3		
205         49.7         235         19.8           210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9		52.1		
210         48.4         230         18.6           215         47.1         226         17.5           220         45.8         221         15.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9				
215         47.1         226         17.5           220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9				
220         45.8         221         16.4           225         44.4         216         15.4           230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9				
230         43         210         14.4           235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9	220	45.8	221	16.4
235         41.6         205         13.5           240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9				
240         40.1         199         12.6           245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9				
245         38.6         193         11.7           250         37         186         10.9           255         35.4         179         10.1           260         33.7         172         9.4           265         31.9         164         8.6           270         30         155         7.9           275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9				
255     35.4     179     10.1       260     33.7     172     9.4       265     31.9     164     8.6       270     30     155     7.9       275     28     146     7.2       280     25.9     136     6.6       285     23.5     124     5.9		38.6		11.7
260     33.7     172     9.4       265     31.9     164     8.6       270     30     155     7.9       275     28     146     7.2       280     25.9     136     6.6       285     23.5     124     5.9				10.9
265     31.9     164     8.6       270     30     155     7.9       275     28     146     7.2       280     25.9     136     6.6       285     23.5     124     5.9				
275         28         146         7.2           280         25.9         136         6.6           285         23.5         124         5.9	265	31.9	164	8.6
280 25.9 136 6.6 285 23.5 124 5.9				
285 23.5 124 5.9				
290   20.9   112   5.3 295   18   97   4.7	290	20.9	112	5.3

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
312 ft point B	Main		oad fall l (2821-1)
31	86	318	165.4
35	85.3	318	165.4
40	84.4	317	164.2
45	83.5	317	162.8
50	82.5	316	160.1
55	81.6	315	152.9
60	80.7	314	146.7
65	79.7	313	136.3
70	78.8	312	123.8
75	77.9	311	113.0
80 85 90 95 100	76.9 76 75 74.1	310 309 308 306	103.7 94.9 87.1 80.3 74.2
105 110 115 120	73.1 72.1 71.2 70.2 69.2	304 303 301 299 297	68.8 63.9 59.5 55.5
125	68.2	295	51.9
130	67.2	293	48.6
135	66.2	291	45.5
140	65.2	289	42.7
145	64.2	286	40.0
150	63.1	284	37.6
155	62.1	281	35.4
160	61	278	33.2
165	60.2	276	31.5
170	59.1	273	29.6
175	58	270	27.9
180	56.9	266	26.2
185	55.8	263	24.7
190	54.7	260	23.2
195	53.5	256	21.8
200	52.4	252	20.5
205	51.2	248	19.3
210	50	244	18.1
215	48.8	239	17.0
220	47.5	235	15.9
225	46.3	230	14.9
230	45	225	13.9
235	43.6	220	13.0
240	42.3	214	12.1
245	40.8	208	11.2
250	39.4	202	10.4
255	37.9	196	9.6
260	36.4	189	8.9
265	34.7	182	8.1
270	33.1	174	7.4
275	31.3	166	6.7
280	29.4	157	6.1
285	27.5	148	5.4
290	25.4	137	4.8
295	23	126	4.1
300	20.5	113	3.3

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
322 ft point B			oad fall l (2821-1)
32	86	328	155.5
35	85.5	328	155.5
40	84.6	327	154.6
45	83.7	327	153.1
50	82.8	326	152.0
55	81.9	325	146.1
60	81	324	140.7
65	80.1	323	134.6
70	79.1	322	122.2
75	78.2	321	111.5
80	77.3	320	102.2
85	76.4	319	94.0
90	75.5	318	86.6
95	74.6	316	79.8
100	73.6	315	73.7
105	72.7	313	68.3
110	71.8	312	63.4
115	70.8	310	59.0
120	69.9	308	55.0
125	68.9	306	51.3
130	67.9	304	48.0
135	67	302	44.9
140	66	300	42.1
145	65	297	39.5
150	64	295	37.0
155	63	292	34.8
160	62	290	32.7
165	61.2	287	30.9
170	60.2	284	29.0
175	59.1	281	27.3
180	58.1	278	25.6
185	57	275	24.1
190	55.9	272	22.6
195	54.8	268	21.2
200	53.7	264	19.9
205	52.6	260	18.7
210	51.5	256	17.5
215	50.3	252	16.4
220	49.1	248	15.3
225	47.9	244	14.3
230	46.7	239	13.3
235	45.5	234	12.4
240	44.2	229	11.5
245	42.9	223	10.6
250	41.5	218	9.8
255	40.1	212	9.0
260	38.7	206	8.3
265	37.2	199	7.5
270	35.7	192	6.8
275	34.1	185	6.1
280	32.5	177	5.5
285	30.7	168	4.8
290	28.9	160	4.0
295	27	150	3.2
300	24.9	139	2.5



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs l
66 ft		oom, L	nad fall
			(2821-1)
14	86	73	66.4
15 20	85.2 80.8	72 72	603.2 574.2
25	76.2	70	459.4
30 35	71.6 66.8	68 66	379.5 322.4
40	61.9	63	274.2
45 50	56.6 50.9	60 56	230.9 198.7
<u>55</u>	44.7	51	173.9
60 65	37.5 28.7	44 36	154.2 138.0
66 ft		oom, L	
			(2821-2)
20	86	75	79.4
25 30	81.7 77.3	74 72	79.4 79.4
35	72.8	70	79.4
40 45	68 63.1	67 64	79.4 79.4
50	57.9	60	79.4
55 60	52.2 45.8	55 50	79.4 79.4
65	38.4	42	79.4
70	28.7	32	79.4
		oom, Le PT head	oad fall   (2821-1)
15	86	82	66.4
15	85.8	82	661.4
20 25	82 78.1	82 80	578.9 459.3
30	74.1	79	379.4
35 40	70.1 65.9	77 75	322.4 274.7
45	61.5	72	231.3
50 55	57 52.1	69 65	199.2 174.4
60	46.9	60	154.8
65 70	41.1 34.5	54 47	138.7 125.4
70 75	26.2	37	114.0
76 ft	Main b	oom, L	oad fall
point B	oom, H	PT head	l (2821 <b>-</b> 2)
21	86	85	79.4
25 30	82.7 78.9	84 82	79.4 79.4
35	75.1	80	79.4
40 45	71.1 66.9	78 75	79.4 79.4
50	62.6	72	79.4
55 60	58.1 53.2	68 64	79.4 79.4
65	47.9	59	79.4
70	42	52	79.4
75	35	44	79.4

125	. 1		
Radius [ft ]:		Rope pulley height [ft]:	Load capacity [1000 lbs ]
85 ft		oom, L	oad fall
point B		PT head	l (2821-1)
15	86	92	66.4
20	82.9	92	578.1
25	79.5	91	458.5
30	76	89	378.7
35	72.5	88	321.6
40	68.9	86	274.7
45	65.1	83	231.3
50	61.3	80	199.1
55	57.3	77	174.4
60	53.1	73	154.7
65	48.5	69	138.7
70	43.7	64	125.4
75	38.3	57	114.2
80	32	49	104.5
85	24.2	39	96.1
85 ft		oom, L	oad fall
point B		PT head	l (2821-2)
21	86	94	79.4
25	83.6	94	79.4
30	80.2	92	79.4
35	76.8	91	79.4
40	73.3	89	79.4
45 50 55 60 65	69.8 66.1 62.3 58.3 54	86 84 81 77 73	79.4 79.4 79.4 79.4 79.4 79.4
70	49.5	68	79.4
75	44.5	62	79.4
80	38.9	55	79.4
85	32.3	46	79.4
90	23.4	34	79.4
95 ft		oom, L	oad fall
point B		PT head	l (2821-1)
16	86	102	662.4
20	83.7	102	578.3
25	80.6	101	458.7
30	77.5	100	378.9
35	74.4	98	321.8
40	71.2	96	275.0
45	67.9	94	231.6
50	64.6	92	199.5
55	61.1	89	174.7
60	57.5	86	155.1
65	53.8	82	139.1
70	49.8	78	125.8
75	45.6	73	114.6
80	41	67	105.0
85	35.9	60	96.7
90	29.9	52	89.4
95	22.5	40	82.9

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
95 ft		oom, L	oad fall
point B		PT head	l (2821-2)
22	86	104	79.4
25	84.2	104	79.4
30	81.2	102	79.4
35	78.2	101	79.4
40	75.1	99	79.4
45	72	97	79.4
50	68.7	95	79.4
55	65.4	92	79.4
60	62	89	79.4
65 70 75 80	58.4 54.6 50.6 46.3	86 82 77 71	79.4 79.4 79.4 79.4 79.4
85	41.6	65	79.4
90	36.3	58	79.4
95	30	48	79.6
100	21.5	34	72.5
105 ft point B			oad fall l (2821-1)
17	86	112	642.5
20	84.3	112	577.4
25	81.5	111	457.8
30	78.7	110	378.0
35	75.9	108	321.0
40	73	107	274.9
45	70.1	105	231.4
50	67.1	103	199.2
55	64.1	100	174.5
60	60.9	97	154.8
65	57.7	94	138.8
70	54.3	90	125.6
75	50.8	86	114.4
80 85 90 95	30.6 47 43 38.7 33.8	82 76 70 63	104.8 96.5 89.2 82.8
100 105 <b>105 ft</b>			77.1 33.4 oad fall (2821-2)
point B	oom, n	r i neau	(2021-2)
23	86	114	79.4
25	84.8	114	79.4
30	82.1	113	79.4
35	79.3	111	79.4
40	76.5	110	79.4
45	73.7	108	79.4
50	70.8	106	79.4
55	67.9	103	79.4
60	64.9	101	79.4
65	61.7	98	79.4
70	58.5	94	79.4
75	55.1	90	79.4
80	51.5	86	79.4
85	47.8	81	79.4
90	43.7	75	79.4
95	39.2	68	78.6
100	34.1	60	72.7
105	28.1	50	67.4
110	19.5	34	62.5



Version: 9839979/59979/ HPT foot: 2821-1 360°

229.3

Degree rating: 2-wide track Foot print:  $\overline{\text{Counterweight [1000 lbs ]:}}$ Carbody counterweight [1000 lbs ]:

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]				
	115 ft Main boom, Load fall point Boom, HPT head (2821-1)						
18 20 25 30 35 40 45 50	86 84.8 82.2 79.7 77.1 74.5 71.9 69.2 66.5	122 121 121 120 118 117 115 113	610.6 572.3 457.3 377.5 320.5 274.8 231.3 199.1 174.3				
60 65 70 75 80 85	60.5 63.7 60.8 57.9 54.8 51.6 48.2 44.7	111 109 106 103 99 95 90	174.3 154.7 138.7 125.4 114.2 104.6 96.4 89.1				
95	40.9	80	82.8				
100	36.7	73	77.1				
105	32	65	72.0				
110	26.6	55	67.4				
115	21.4	46	33.4				
			l (2821-2)				
23	86	124	79.4				
25	85.2	124	79.4				
30	82.7	123	79.4				
35	80.2	122	79.4				
40	77.7	120	79.4				
45	75.1	118	79.4				
50	72.5	116	79.4				
55	69.9	114	79.4				
60	67.2	112	79.4				
65	64.4	109	79.4				
70	61.5	106	79.4				
75	58.6	103	79.4				
80	55.5	99	79.4				
85	52.3	94	79.4				
90	48.9	90	79.4				
95	45.3	84	78.5				
100	41.4	78	72.7				
105	37.1	70	67.5				
110	32.1	62	62.8				
115	26.4	51	58.5				
120	18.4	35	54.4				

229 125			
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
125 ft point B			oad fall l (2821-1)
18 20	86 85.2	132 131	580.4 570.6
25 25	82.9	131	456.4
30	80.5	130	376.6
35 40	78.2 75.8	129 127	319.6 274.7
45	73.4	126	231.1
50 55	70.9 68.5	124 122	198.8 174.0
60	65.9	122	174.0
65	63.4	117	138.3
70 75	60.7 58	114 111	125.0 113.8
80	55.2	108	104.3
85	52.3	104	96.0
90 95	49.2 46	99 94	88.8 82.4
100	42.6	89	76.7
105 110	39 35	83 76	71.6 67.1
115	30.5	67	62.9
120 125	25.3 20.2	57 47	59.1 33.4
125 ft			oad fall
			l (2821-2)
24 25	86 85.6	134 134	79.4 79.4
30	83.3	133	79.4
35	81	132	79.4
40 45	78.7 76.3	130 129	79.4 79.4
50	74	127	79.4
55 60	71.5 69.1	125 123	79.4 79.4
65	66.6	120	79.4
70	64	118	79.4
75 80	61.4 58.6	114 111	79.4 79.4
85	55.8	107	79.4
90 95	52.9 49.8	103 98	79.4 78.2
100	46.6	93	72.4
105	43.1	87	67.2
110 115	39.4 35.2	81 73	62.6 58.3
120 125	30.4 24.7	64 52	54.4 50.8
		1 5/	

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
134 ft point B			oad fall l (2821-1)
19	86	141	553.0
20	85.5	141	553.0
25	83.4	141	456.3
30	81.2	140	376.5
35	79	139	319.4
40	76.9	138	274.6
45	74.6	136	231.0
50	72.4	134	198.8
55	70.1	133	173.9
60	67.8	130	154.2
65	65.5	128	138.2
70	63.1	126	124.9
75	60.6	123	113.8
80	58.1	120	104.2
85	55.5	116	95.9
90	52.8	112	88.7
95	50	108	82.3
100	47.1	103	76.7
105	44	98	71.6
110	40.8	92	67.1
115	37.3	86	63.0
120	33.4	78	59.2
125	29.1	70	55.7
130	24.1	59	52.6
			oad fall l (2821-2)
25	86	144	79.4
25	85.9	143	79.4
30	83.8	143	79.4
35	81.7	142	79.4
40	79.5	140	79.4
45	77.4	139	79.4
50	75.2	137	79.4
55	72.9	136	79.4
60	70.7	134	79.4
65	68.4	131	79.4
70	66.1	129	79.4
75	63.7	126	79.4
80	61.2	123	79.4
85	58.7	120	79.4
90	56.1	116	79.4
95	53.4	112	78.2
100	50.6	107	72.4
105	47.7	102	67.3
110	44.5	97	62.6
115	41.2	90	58.4
120	37.6	84	54.6
125	33.5	75	51.0
130	29.1	66	47.8
135	23.4	53	44.7
140	18	40	33.4



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]				
	144 ft Main boom, Load fall point Boom, HPT head (2821-1)						
20	86	151	66.4				
20	85.8	151	526.6				
25 30	83.8 81.8	150 150	455.4 375.6				
35	79.8	149	318.5				
40	77.8	148	274.4				
45	75.7	146	230.8				
50	73.6	145	198.5				
55 60	71.5 69.4	143 141	173.6 153.9				
65	67.3	139	137.8				
70	65.1	137	124.5				
75	62.8	134	113.3				
80	60.5	131	103.8				
85 90	58.2 55.8	128 125	95.5 88.3				
95	53.3	121	81.9				
100	50.7	117	76.2				
105	48.1	112	71.2				
110	45.3	107	66.6				
445							
115	42.3	102	62.5 58.8				
120	39.2	96	58.8				
120 125 130 135	39.2 35.8 32.1 27.9	96 89 81 72	58.8 55.3 52.2 49.3				
120 125 130 135 140	39.2 35.8 32.1 27.9 23	96 89 81 72 60	58.8 55.3 52.2 49.3 46.6				
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main</b> 1	96 89 81 72 60 boom, I	58.8 55.3 52.2 49.3 46.6 <b>.oad fall</b>				
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b>	96 89 81 72 60 <b>boom, I</b> <b>PT head</b>	58.8 55.3 52.2 49.3 46.6 coad fall (2821-2)				
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b>	96 89 81 72 60 <b>boom, I</b> <b>PT head</b>	58.8 55.3 52.2 49.3 46.6 coad fall (2821-2)				
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b>	96 89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 153	58.8 55.3 52.2 49.3 46.6 coad fall (2821-2)				
120 125 130 135 140 <b>144 ft</b> <b>point B</b>	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>oom, H</b>	96 89 81 72 60 <b>boom, I</b> <b>PT head</b>	58.8 55.3 52.2 49.3 46.6 <b>.oad fall</b> ( <b>2821-2</b> ) 79.4 79.4 79.4				
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45 50	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>coom, H</b>	96 89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 152 151 149	58.8 55.3 52.2 49.3 46.6 .oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4				
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45 50	39.2 35.8 32.1 27.9 23 <b>Main</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2 76.2 74.1	96 89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 152 151 149 148	58.8 55.3 52.2 49.3 46.6 <b>.oad fall</b> 1 <b>(2821-2)</b> 79.4 79.4 79.4 79.4 79.4 79.4				
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45 50 55 60	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>500m, H</b> 86 84.2 82.2 82.2 78.2 76.2 74.1	96 89 81 72 60 <b>boom, I</b> PT head 153 153 153 151 149 148 146	58.8 55.3 52.2 49.3 46.6 <b>load fall</b> <b>(2821-2)</b> 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4				
120 125 130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45 50	39.2 35.8 32.1 27.9 23 <b>Main</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2 76.2 74.1	96 89 81 72 60 <b>boom, I</b> <b>PT head</b> 153 153 152 151 149 148	58.8 55.3 52.2 49.3 46.6 <b>.oad fall</b> 1 <b>(2821-2)</b> 79.4 79.4 79.4 79.4 79.4 79.4				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 66 65 70 75	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 82.2 82.2 76.2 74.1 70 67.8 65.6	96 89 81 72 60 <b>boom, I</b> 153 153 152 151 149 148 146 144 142 140 137	58.8 55.3 52.2 49.3 46.6 <b>Load fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4				
120 125 130 135 140 144 ft point B 25 30 35 40 45 50 66 67 70 75 80	39.2 35.8 32.1 27.9 23 <b>Main I</b> <b>com, H</b> 86 84.2 82.2 78.2 76.2 74.1 70 67.8 65.6 63.4	96 89 81 72 60 <b>boom, I</b> PT head 153 153 153 154 149 148 144 142 140 137 134	58.8 55.3 52.2 49.3 46.6 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4				
120 125 130 135 140 144 ft point B 25 30 35 40 45 50 60 65 70 75 80 85	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>coom, H</b> 86 84.2 82.2 80.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1	96 89 81 72 60 <b>boom, I</b> FT head 153 153 153 152 151 149 148 146 144 142 140 137 134	58.8 55.3 52.2 49.3 46.6 .oad fall (2821-2) 79.4				
120 125 130 135 140 144 ft point B 25 30 35 40 45 50 55 60 65 70 75 80 85 90	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>coom, H</b> 86 84.2 82.2 80.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8	96 89 81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 131 128	58.8 55.3 52.2 49.3 46.6 coad fall (2821-2) 79.4				
120 125 130 135 140 144 ft point B 25 30 35 40 45 50 66 67 70 75 80 85 90 95 100	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>coom, H</b> 86 84.2 82.2 80.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1	96 89 81 72 60 boom, I PT head 153 153 153 155 151 149 148 144 142 140 137 134 131 128 124	58.8 55.3 52.2 49.3 46.6 .oad fall (2821-2) 79.4				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 66 70 75 80 85 90 95 100 105	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>coom, H</b> 86 84.2 82.2 80.2 76.2 74.1 72.1 70 67.8 65.6 63.4 55.9 53.9 51.3	96 89 81 72 60 <b>boom, I</b> FT head 153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 120 116	58.8 55.3 52.2 49.3 46.6 .oad fall (2821-2) 79.4 79.6 66.9				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 82.2 82.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6	96 89 81 72 60 <b>boom, I</b> PT head 153 153 152 151 149 146 144 142 140 137 133 131 128 124 120 116	58.8 55.3 52.2 49.3 46.6 <b>Joad fall</b> (2821-2) 79.4 79.6 60.9 62.2				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 78.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7	96 89 81 72 60 <b>boom, I</b> PT head 153 153 153 151 149 148 146 144 142 140 137 134 131 128 124 120 116 111	58.8 55.3 52.2 49.3 46.6 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 66.9 62.2 58.0				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 115 115 120	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 82.2 82.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6	96 89 81 72 60 <b>boom, I</b> PT head 153 153 152 151 149 146 144 142 140 137 133 131 128 124 120 116	58.8 55.3 52.2 49.3 46.6 <b>Joad fall</b> (2821-2) 79.4 79.6 60.9 62.2				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 90 105 110 115 120 125 130	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 82.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7 42.7 39.5 36.1	96 89 81 72 60 <b>boom, I</b> PT head 153 153 152 151 149 148 144 142 140 137 134 131 128 124 120 116 111 1106 100 93 86	58.8 55.3 52.2 49.3 46.6 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 60.9 62.2 58.0 54.2 50.7 47.5				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120 125 130 135	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 51.3 48.6 45.7 42.7 39.5 36.1 32.2	96 89 81 72 60 <b>boom, I</b> PT head 153 153 153 154 149 148 144 142 140 137 134 131 128 124 120 116 111 106 100 93 86 78	58.8 55.3 52.2 49.3 46.6 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 50.0 66.9 62.2 58.0 54.2 50.7 47.5 44.5				
120 125 130 135 140  144 ft point B  25 30 35 40 45 50 65 70 75 80 85 90 90 105 110 115 120 125 130	39.2 35.8 32.1 27.9 23 <b>Main</b> 1 <b>com, H</b> 86 84.2 82.2 82.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7 42.7 39.5 36.1	96 89 81 72 60 <b>boom, I</b> PT head 153 153 152 151 149 148 144 142 140 137 134 131 128 124 120 116 111 1106 100 93 86	58.8 55.3 52.2 49.3 46.6 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 60.9 62.2 58.0 54.2 50.7 47.5				

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
20	86	161	66.4
25 30	84.2 82.4	160 160	451.7 374.9
35	80.5	159	317.9
40 45	78.6 76.7	158 157	274.2 230.5
50	74.7	155	198.2
55 60	72.8 70.8	154 152	173.3 153.6
65	68.8	150	137.5
70	66.8	148	124.2
75 80	64.7 62.6	145 142	113.0 103.4
85	60.5	140	95.1
90 95	58.3 56	136 133	87.9 81.6
100	53.7	129	75.9
105 110	51.3 48.9	125 121	70.9 66.3
115	46.3	116	62.2
120	43.6	111	58.5
125 130	40.7 37.7	105 99	55.0 51.9
135	34.4	91	49.0
140 145	30.8 26.8	83 73	46.3 43.8
150	22	62	41.5
		hoom. I	⊿oad fall
			l (2821-2)
point B	<b>86</b>	<b>PT head</b>	79.4
point B	oom, H	PT head	
26 30 35 40	86 84.6 82.7 80.9	163 163 162 161	79.4 79.4 79.4 79.4
26 30 35	86 84.6 82.7 80.9 79	163 163 162 161 159	79.4 79.4 79.4
26 30 35 40 45 50 55	86 84.6 82.7 80.9 79 77.1 75.2	163 163 162 161 159 158 156	79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60	86 84.6 82.7 80.9 79 77.1 75.2 73.2	163 163 162 161 159 158 156 155	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3	163 163 162 161 159 158 156 155 153 151	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3	163 163 162 161 159 158 156 155 153 151	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70 75 80 85	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1	163 163 162 161 159 158 156 155 153 151 148 148 146	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70 75 80 85 90	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.3 65.3 65.3	163 163 162 161 159 158 156 155 153 151 148 148 143 140	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70 75 80 85	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1	163 163 162 161 159 158 156 155 153 151 148 148 146	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.3 65.3 65.3 65.3 65.4	163 163 163 162 161 159 158 156 155 153 151 148 146 143 140 133 129	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8	163 163 163 162 161 159 158 155 153 151 146 143 140 133	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 65 70 75 80 85 90 100 105 115 115 120	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7	163 163 163 162 161 159 158 156 155 153 151 146 143 140 136 133 129 125 120 115	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 65 70 75 80 85 90 95 100 115 110 120 125	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7	163 163 163 162 161 159 158 156 155 153 151 148 146 143 140 133 129 125 120 115	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 65 60 65 70 75 80 85 90 105 110 115 120 125 130 135	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7	163 163 163 162 161 159 158 156 155 153 151 146 143 140 133 129 125 120 115 109 103 96	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
26 30 35 40 45 50 65 70 75 80 95 100 115 120 125 130	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7 44	163 163 162 161 159 158 156 155 153 151 148 146 143 140 136 133 129 125 120 115 109	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4

		ı					
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]				
164 ft point B							
21 25	86 84.6	171 170	475.6 446.9				
30	82.8	170	374.0				
35	81	169 168	317.0				
40 45	79.3 77.5	167	274.0 230.2				
50	75.7	165	197.9				
55 60	73.8 72	164 162	172.9 153.2				
65	70.1	160	137.1				
70 75	68.3 66.3	158 156	123.8 112.5				
80	64.4	154	103.0				
85 90	62.4 60.4	151 148	94.7 87.4				
95	58.4	145	81.1				
100 105	56.2 54.1	142 138	75.4 70.4				
110	51.9	134	65.8				
115 120	49.6 47.2	130 125	61.7 58.0				
125	44.7	120	54.6				
130 135	42.1 39.3	114 108	51.4 48.5				
140	36.4	102	45.9				
145 150	33.2 29.7	94 85	43.4 41.1				
155	25.8	75	38.9				
160	21.1	63	36.9 ∟oad fall				
164 ft point B			l (2821-2)				
27	86	173	79.4				
30 35	84.9 83.2	172 172	79.4 79.4				
40	81.4	171	79.4				
45 50	79.6 77.9	170 168	79.4 79.4				
55	76.1	167	79.4				
60 65	74.3 72.5	165 163	79.4 79.4				
70	70.6	161	79.4				
75 80	68.7 66.8	159 157	79.4 79.4				
85	64.9	154	79.4				
90 95	62.9 60.9	151 148	79.4 77.0				
100	58.8	145	71.3				
105 110	56.8 54.6	142 138	66.1 61.5				
115	52.3	133	57.3				
120 125	50 47.6	129 124	53.5 50.0				
130	45.1	118	46.8				
	42.4	113 106	43.8 41.1				
135 140	39.6	100					
140 145	39.6 36.6	99	38.6				
140							



Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
22	86	181	448.5
25	84.9	180	438.3
30	83.2	180	373.7
35	81.6	179	316.7
40	79.9	178	273.8
45	78.2	177	230.0
50 55	76.5 74.8	176 174	197.6 172.7
60	74.8	174	152.7
65	71.3	173	136.9
70	69.6	169	123.5
75	67.8	167	112.3
80	66	165	102.7
85	64.1	162	94.4
90	62.3	160	87.2
95	60.4	157	80.8
100	58.4	154	75.2
105 110	56.4 54.4	150 146	70.1 65.6
115	52.3	143	61.5
120	50.2	138	57.7
125	47.9	134	54.3
130	45.6	129	51.2
135	43.2	124	48.3
140	40.7	118	45.7
145	38	111	43.2
150	35.2	104	40.9
155 160	32.1 28.7	96 88	38.8 36.8
165	26.7 24.9	77	34.9
170	21.4	67	33.2
174 ft			and fall

174 ft Main boom, Load fall point Boom, HPT head (2821-2)					
28	86	183	79.4		
30	85.2	182	79.4		
35	83.5	182	79.4		
40	81.9	181	79.4		
45	80.2	180	79.4		
50	78.6	178	79.4		
55	76.9	177	79.4		
60	75.2	176	79.4		
65	73.5	174	79.4		
70	71.7	172	79.4		
75	70	170	79.4		
80	68.2	168	79.4		
85	66.4	165	79.4		
90	64.6	163	79.4		
95	62.7	160 157	76.8 71.1		
100 105	60.8 58.9	154	65.9		
1105	56.9	150	61.3		
115	54.9	146	57.1		
120	52.8	140	53.3		
125	50.6	138	49.8		
130	48.3	133	46.6		
135	46	128	43.7		
140	43.6	122	40.9		
145	41	116	38.4		
150	38.2	109	36.1		
155	35.4	102	33.9		
160	32.9	95	32.0		
165	29.5	86	30.1		
170	25.5	75	28.2		
175	20.8	61	26.4		

	boom angle	Rope pulley height [ft]:	Load capacity [1000 lbs ]
184 ft	Main l	noom. I	ഹad fall

184 ft Main boom, Load fall point Boom, HPT head (2821-1)

22	86	190	419.7
25	85.2	190	419.7
30	83.6	190	368.6
35	82	189	315.7
40	80.4	188	272.9
45	78.8	187	229.8
50	77.2	186	197.3
55	75.6	184	172.4
60	74	183	152.5
65	72.4	181	136.4
70	70.7	180	123.1
75	69	178	111.9
80	67.3	176	102.3
85	65.6	173	94.0
90	63.9	171	86.7
95	62.1	168	80.3
100	60.3	165	74.7
105	58.5	162	69.6
110	56.6	159	65.1
115	54.7	155	61.0
120	52.7	151	57.2
125	50.7	147	53.8
130	48.6	143	50.7
135	46.5	138	47.8
140	44.2	133	45.2
145	41.9	127	42.7
150	39.4	121	40.4
155	36.8	114	38.3
160	34.1	107	36.3
165	31.1	99	34.4
170	28.5	92	32.8
175	24.9	81	31.1
400	20.6	60	20.5

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

28	86	193	79.4
30	85.4	192	79.4
35	83.9	192	79.4
40	82.3	191	79.4
45	80.8	190	79.4
50	79.2	189	79.4
55	77.6	187	79.4
60	76	186	79.4
65	74.4	184	79.4
70	72.8	182	79.4
75	71.1	180	79.4
80	69.4	178	79.4
85	67.8	176	79.4
90	66.1	174	79.4
95	64.3	171	76.4
100	62.5	168	70.6
105	60.8	165	65.5

Radius		_	Load capacity
1			[1000 lbs
	[°]:	[ft ]:	]

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

110 115	58.9 57.1	162 158	60.8 56.6
120	55.1	155	52.8
125	53.1	151	49.3
130	51.1	146	46.1
135	49	142	43.2
140	46.8	137	40.5
145	44.6	131	38.0
150	42.2	125	35.6
155	40.3	120	33.4
160	37.7	114	31.6
165	34.9	106	29.6
170	31.8	98	27.8
175	28.5	88	26.1
180	24.6	76	24.4
185	20	62	22.9
			,

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

23	86	200	392.7
25	85.4	200	392.7
30	83.9	200	358.4
35	82.4	199	315.1
40	80.9	198	270.6
45	79.4	197	229.5
50	77.9	196	197.0
55	76.4	195	172.0
60	74.8	193	152.2
65	73.3	192	136.1
70	71.7	190	122.7
75	70.2	188	111.5
80	68.6	186	101.8
85	66.9	184	93.5
90	65.3	182	86.3
95	63.7	179	79.9
100	62	176	74.3
105	60.3	174	69.2
110	58.5	170	64.6
115	56.8	167	60.5
120	54.9	164	56.8
125	53.1	160	53.4
130	51.2	156	50.3
135	49.2	151	47.4
140	47.2	147	44.7
145	45.1	142	42.3
150	42.9	136	40.0
155	40.7	131	37.9
160	38.3	124	35.9
165	35.7	117	34.0
170	33.6	111	32.4
175	30.8	103	30.7
180	27.6	94	29.2
185	24.1	83	27.7
190	19.9	70	26.3



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
29	86	202	79.4
30	85.7	202	79.4
35	84.2	202	79.4
40	82.7	201	79.4
45 50 55 60	81.2 79.7 78.2 76.7	200 199 198 196	79.4 79.4 79.4 79.4 79.4
65	75.2	195	79.4
70	73.7	193	79.4
75	72.1	191	79.4
80	70.5	189	79.4
85	69	187	79.4
90	67.4	185	79.4
95	65.7	182	76.0
100	64.1	180	70.2
105	62.4	177	65.1
110	60.7	174	60.4
115	59	170	56.2
120	57.2	167	52.4
125	55.4	163	48.9
130	53.5	159	45.7
135	51.6	155	42.8
140	49.6	150	40.1
145	47.6	146	37.6
150	45.4	140	35.2
155	43.7	136	33.3
160	41.5	130	31.2
165	39.1	124	29.3
170	36.5	116	27.5
175	33.8	108	25.8
180	30.8	100	24.2
185	27.5	90	22.6
190	23.8	78	21.2
195 <b>203 ft</b>	19.2 <b>Main</b> l	63 boom, I	19.7 load fall l (2821-1)
24	86	210	363.6
25	85.6	210	363.6
30	84.2	209	344.3
35	82.8	209	314.1
40	81.4	208	267.4
45	79.9	207	229.2
50 55 60 65 70	78.5 77 75.6 74.1	206 205 204 202 200	196.7 171.6 151.8 135.6 122.2
75 80 85 90	72.6 71.2 69.7 68.1 66.6	199 197 195 192	122.2 111.0 101.4 93.0 85.8
95	65	190	79.4
100	63.5	188	73.7
105	61.9	185	68.7
110	60.2	182	64.1
115	58.6	179	60.0
120	56.9	176	56.3

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
125	55.2	172	52.8
130	53.4	168	49.7
135	51.6	164	46.8
140	49.8	160	44.2
145	47.9	156	41.7
150	45.9	151	39.5
155	43.8	146	37.3
160	41.7	140	35.3
165	39.5	134	33.5
170	37.7	129	31.9
175	35.3	122	30.2
180	32.7	114	28.7
185	29.9	105	27.2
190	26.8	96	25.8
195	23.3	84	24.4
200	19.2	71	23.2
			oad fall l (2821-2)
30	86	212	79.4
30	85.9	212	79.4
35	84.5	212	79.4
40	83.1	211	79.4
45	81.7	211	79.4
50	80.2	209	79.4
55	78.8	208	79.4
60	77.4	206	79.4
65	75.9	205	79.4
70	74.5	203	79.4
75	73	202	79.4
80	71.5	200	79.4
85	70	198	79.4
90	68.5	196	79.4
95	67	193	75.5
100	65.4	191	69.7
105	63.9	188	64.6
110	62.3	185	59.9
115	60.6	182	55.7
120	59	179	51.9
125	57.3	176	48.4
130	55.6	172	45.2
135	53.8	168	42.3
140	52	164	39.6
145	50.1	159	37.1
150	48.2	154	34.7
155	46.7	151	32.8
160	44.6	145	30.7
165	42.5	140	28.8
170	40.3	133	27.0
175	37.9	126	25.3
180	35.5	119	23.7
185	32.8	111	22.2
190	29.9	102	20.7
195	26.7	91	19.3
200	23	79	18.0
205	18.5	64	16.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs
	Main	boom, I	oad fall (2821-1)
24	86	220	66.4
25 30	85.8 84.5	220 219	337.2 328.2
35 40	83.1 81.8	219 218	310.4 264.3
45	80.4	217	227.7
50 55	79 77.7	216 215	196.4 171.3
60	76.3	214	151.5
65 70	74.9 73.5	212 211	135.3 121.9
75	72.1	209	110.7
80 85	70.6 69.2	207 205	101.0 92.7
90	67.7	203	85.5
95 100	66.3 64.8	201 199	79.1 73.4
105	63.3 61.7	196 193	68.3 63.8
110 115	60.2	193	59.7
120 125	58.6 57	187 184	55.9 52.5
130	55.4	181	49.4
135 140	53.7 52	177 173	46.5 43.9
145	50.2	169	41.4
150 155	48.4 46.6	164 160	39.1 37.0
160	44.7	155	35.0
165 170	43.1 41.1	150 145	33.3 31.6
175 180	38.9 36.7	138 132	29.9 28.4
185	34.3	124	26.9
190 195	31.8 29	116 108	25.5 24.2
200	26	98	22.9
205 210	22.6 18.6	86 72	21.7 20.6
213 ft	Main	boom, I	oad fall
point B	oom, H	PT head	l (2821-2)
30	86	222	79.4
35 40	84.7 83.4	221 221	79.4 79.4
45	82	220	79.4
50 55	80.7 79.3	219 218	79.4 79.4
60	78 76.6	216 215	79.4 79.4
65 70	75.2	214	79.4
75 80	73.8 72.4	212 210	79.4 79.4
85	71	208	79.4
90 95	69.6 68.1	206 204	79.4 75.2
100	66.6	202	69.4
105 110	65.2 63.7	199 197	64.3 59.6
115	62.1	194	55.4
120 125	60.6 59	191 188	51.6 48.1
130	57.4	184	44.9



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
213 ft point B			oad fall l (2821-2)
140	54.1	176	39.3
145	52.4	172	36.8
150	50.6	168	34.4
155	49.2	164	32.5
160	47.3	160	30.4
165	45.4	154	28.5
170	43.4	149	26.7
175	41.4	143	25.0
180	39.2	136	23.4
185	36.9	129	21.9
190	34.5	122	20.5
195	31.9	113	19.1
200	29	104	17.8
205	25.9	93	16.6
210	22.3	80	15.4
215	17.9	64	14.2
			oad fall   (2821-1)
25	86	230	66.4
30	84.7	229	311.2
35	83.4	229	296.3
40	82.1	228	261.1
45	80.8	227	225.0
50	79.5	226	196.0
55	78.2	225	171.0
60	76.9	224	151.1
65	75.6	222	134.9
70	74.2	221	121.5
75 80 85 90	72.9 71.5 70.2 68.8 67.4	220 218 216 214 212	110.2 100.6 92.2 85.0
95 100 105 110 115	66 64.6 63.1 61.6	210 207 205 202	78.6 72.9 67.8 63.3 59.1
120 125 130 135 140 145	58.7 57.1 55.6 54 52.3	199 196 193 189 186 182	55.4 52.0 48.9 46.0 43.3 40.9
150	50.7	178	38.6
155	49	173	36.5
160	47.2	168	34.5
165	45.8	165	32.8
170	44	160	31.0
175	42	154	29.4
180	40	148	27.8
185	38	142	26.4
190	35.8	135	25.0
195	33.4	127	23.7
200	31	119	22.4
205	28.3	110	21.2
210	25.3	99	20.1
215	22	87	19.0
220	18	73	17.9

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-2)
31 35	86 85	232 231	79.4 79.4
40	83.7	231	79.4
45 50	82.4 81.1	230 229	79.4 79.4
55	79.8	228	79.4
60 65	78.5 77.2	227 225	79.4 79.4
70	75.9	224	79.4
75 90	74.5 73.2	222 221	79.4 79.4
80 85	71.9	219	79.4
90	70.5	217	79.4
95 100	69.1 67.7	215 213	74.7 69.0
105	66.4	210	63.8
110 115	64.9 63.5	208 205	59.2 54.9
120	62	202	51.1
125 130	60.5 59	199 196	47.6 44.4
135	57.5	192	41.5
140 145	55.9 54.3	189 185	38.8 36.3
150	52.7	181	33.9
155 160	51.4 49.7	178 173	32.0 29.9
165	47.9	168	28.0
170 175	46.1 44.3	163 158	26.2 24.5
180	42.3	152	22.9
185 190	40.3 38.2	146 139	21.4 20.0
195	35.9	132	18.7
200 205	33.6 31	124 115	17.4 16.1
210	28.2	106	15.0
215 220	25.1 21.6	95 82	13.8 12.7
225	17.2	65	11.6
	Main loom, H		oad fall l (2821-1)
26 30	86 85	240 239	66.4 294.7
35	83.7	238	277.8
40 45	82.5 81.2	238 237	257.9 222.4
50	80	236	194.8
55 60	78.7 77.5	235 234	170.6 150.7
65	76.2	233	134.5
70 75	74.9 73.6	231 230	121.1
75 80	73.6	230	109.8 100.1
85	71	226 225	91.8
90 95	69.7 68.4	225	84.5 78.1
100	67.1	220	72.4
105 110	65.7 64.3	218 216	67.3 62.8
115	63	213	58.7
120 125	61.6 60.1	210 208	54.9 51.5
130	58.7	204	48.4
135 140	57.2 55.7	201 198	45.5 42.9

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
145	54.2	194	40.4
150	52.7	190	38.1
155	51.1	186	36.0
160 165	49.5 48.2	182 178	34.0 32.3
170	46.5	174	30.6
175	44.7	168	28.9
180	42.9	163	27.4
185	41	157	25.9
190 195	39.1 37	151 145	24.5 23.2
200	34.9	137	22.0
205	32.6	130	20.8
210	30.2	121	19.7
215 220	27.6 24.7	112 101	18.6 17.6
225	21.4	89	16.6
point B	oom, H		oad fall l (2821-2)
32	86	242	79.4
35	85.2	241 241	79.4
40 45	83.9 82.7	241	79.4 79.4
50	81.5	239	79.4
55	80.2	238	79.4
60	79	237	79.4
65 70	77.7 76.5	236 234	79.4 79.4
75	76.5 75.2	233	79.4
80	73.9	231	79.4
85	72.7	229	79.3
90	71.4 70	228 226	78.8 74.3
95 100	68.7	223	68.5
105	67.4	221	63.4
110	66.1	219	58.7
115	64.7	216	54.5
120 125	63.3 61.9	214 211	50.7 47.2
130	60.5	208	44.0
135	59	204	41.0
140	57.6	201	38.3
145 150	56.1 54.6	198 194	35.8 33.5
155	53.3	191	31.5
160	51.8	186	29.5
165	50.1	182	27.6
170 175	48.5 46.8	177	25.8
180	46.8 45	172 167	24.1 22.5
185	43.2	162	21.0
190	41.3	156	19.6
195	39.3	149	18.2
200 205	37.2 35	142 135	17.0 15.7
210	32.7	127	14.6
215	30.2	118	13.5
220	27.5	108	12.4
225	24.5	96	11.4
230 235	21 16.7	83 66	10.3 9.4
200	10.1	- 00	∪. <del>T</del>



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: **360** ° 2-wide track Foot print: Counterweight [1000 lbs ]: 229.3 Carbody counterweight [1000 lbs ]: 125.7

243 ft Main boom, Load fall point Boom, HPT head (2821-1901)           26         86         249         273.2           30         85.2         249         273.2           35         84         248         261.0           40         82.8         248         250.9           45         81.6         247         219.8           50         80.4         246         192.5           55         79.2         245         170.2           60         78         244         150.3           65         76.8         243         134.0           70         75.5         242         120.6           75         74.3         240         109.3           80         73.1         239         99.6           85         71.8         237         91.3           90         70.6         235         84.0           95         69.3         233         71.9           105         66.8         229         66.8           100         68         227         62.2           155         64.1         224         54.4           125         61.5         219 </th <th>Radius [ft ]:</th> <th>Main boom angle [°]:</th> <th>Rope pulley height [ft]:</th> <th>Load capacity [1000 lbs ]</th>	Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
30				
30				,
35         84         248         250.9           40         82.8         248         250.9           45         81.6         247         219.8           50         80.4         246         192.5           55         79.2         245         170.2           60         78         244         150.3           65         76.8         243         134.0           70         75.5         242         120.6           75         74.3         240         109.3           80         73.1         239         99.6           85         71.8         237         91.3           90         70.6         235         84.0           95         69.3         233         77.6           68.8         231         71.9           105         66.8         229         66.8           110         65.5         227         62.2           115         64.1         224         58.1           120         62.8         222         54.4           125         61.5         219         51.0           130         60.1         216				
40 82.8 248 250.9 45 81.6 247 219.8 50 80.4 246 192.5 55 79.2 245 170.2 60 78 244 150.3 65 76.8 243 134.0 70 75.5 242 120.6 75 74.3 240 109.3 80 73.1 239 99.6 85 71.8 237 91.3 90 70.6 235 84.0 95 69.3 233 77.6 100 68 231 71.9 105 66.8 229 66.8 110 65.5 227 62.2 115 64.1 224 58.1 120 62.8 222 54.4 125 61.5 219 51.0 130 60.1 216 47.8 135 58.7 213 44.9 140 57.3 210 42.3 145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 170 48.7 187 30.0 185 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 160. 230 24 103 15.1 231 20.8 90 14.2 243 ft Main boom, Load fall point Boom, HPT head (2821-54) 10 69.6 234 247 79.4 10 77 244 79.4 10 79.4 10 77 244 79.4 10 79.4 10 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 115 68.4 232 62.9 110 67.1 230 58.2				
45         81.6         247         219.8           50         80.4         246         192.5           55         79.2         245         170.2           60         78         244         150.3           65         76.8         243         134.0           70         75.5         242         120.6           75         74.3         240         109.3           80         73.1         239         99.6           85         71.8         237         91.3           90         70.6         235         84.0           95         69.3         233         77.6           100         68         231         71.9           105         66.8         229         66.8           110         65.5         227         62.2           115         64.1         224         58.1           120         62.8         222         54.4           125         61.5         219         51.0           133         58.7         213         44.9           140         57.3         210         42.3           145         55.9				
55         79.2         245         170.2           60         78         244         150.3           65         76.8         243         134.0           70         75.5         242         120.6           75         74.3         240         109.3           80         73.1         239         99.6           85         71.8         237         91.3           90         70.6         235         84.0           95         69.3         233         77.6           100         68         231         71.9           105         66.8         221         71.9           110         65.5         227         62.2           115         64.1         224         58.1           120         62.8         222         54.4           125         61.5         219         51.0           130         60.1         216         47.8           135         58.7         213         44.9           140         57.3         210         42.3           145         55.9         206         39.8           150         54.4	45	81.6	247	219.8
60				
65				
75		76.8		
80				
85				
95 69.3 233 77.6 100 68 231 71.9 105 66.8 229 66.8 110 65.5 227 62.2 115 64.1 224 58.1 120 62.8 222 54.4 120 62.8 222 54.4 130 60.1 216 47.8 135 58.7 213 44.9 140 57.3 210 42.3 145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-24) 150 81.8 249 79.4 150 79.4 247 79.4 150 68.4 232 62.9 110 67.1 238 78.7 190 77 244 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 79.4 247 79.4 180 74.6 241 79.4 180 74.6 241 79.4 180 77.1 238 78.7		71.8		
100 68 231 71.9 105 66.8 229 66.8 110 65.5 227 62.2 115 64.1 224 58.1 120 62.8 222 54.4 125 61.5 219 51.0 130 60.1 216 47.8 135 58.7 213 44.9 140 57.3 210 42.3 145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 180 45.4 178 26.8 180 45.4 178 26.8 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-34) 40 84.2 250 79.4 40 84.2 250 79.4 45 83 250 79.4 46 83 250 79.4 65 78.2 246 79.4 66 79.4 247 79.4 67 77 244 79.4 68 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 90 72.1 238 78.7 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 115 66.8 227 54.0 120 64.5 225 50.2				
105   66.8   229   66.8   110   65.5   227   62.2   115   64.1   224   58.1   120   62.8   222   54.4   125   61.5   219   51.0   130   60.1   216   47.8   135   58.7   213   44.9   140   57.3   210   42.3   145   55.9   206   39.8   150   54.4   203   37.5   155   52.9   199   35.4   160   51.8   196   33.4   165   50.2   192   31.7   170   48.7   187   26.8   185   43.7   172   25.3   180   45.4   178   26.8   185   43.7   172   25.3   180   44.9   167   24.0   195   40.1   161   22.7   200   38.2   154   21.4   205   36.2   148   20.2   210   34.1   140   19.1   215   31.8   132   18.0   220   29.5   123   17.0   25.3   20.8   90   14.2   243   ft Main boom, Load fall point Boom, HPT head (2821-244   205   36.2   248   20.2   25.5   26.9   144   26.0   230   24   103   15.1   235   20.8   90   14.2   243   45   83   250   79.4   45   83   250   79.4   46   60   79.4   247   79.4   65   78.2   246   79.4   79.5   75.8   243   79.4   75   75.8   243   79.4   75   75.8   243   79.4   79.5   79.5   236   73.4   240   79.4   75   75.8   243   79.4   79.5   75.8   243   79.4   79.5   75.8   243   79.4   79.5   79.5   236   73.8   73.7   75   75.8   243   79.4   79.4   75   75.8   243   79.4   79.4   79.4   75   75.8   243   79.4   79.5   79.5   79.5   236   73.8				
110 65.5 227 62.2 115 64.1 224 58.1 120 62.8 222 54.4 125 61.5 219 51.0 130 60.1 216 47.8 135 58.7 213 44.9 140 57.3 210 42.3 145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-5)  24 35 86. 252 79.4 45 83 250 79.4 46 79.4 247 79.4 46 79.4 247 79.4 66 79.2 246 79.4 75 75.8 243 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 115 68.4 232 62.9 110 67.1 230 58.2 115 68.4 232 62.9 110 67.1 230 58.2				
120 62.8 222 54.4  125 61.5 219 51.0  130 60.1 216 47.8  135 58.7 213 44.9  140 57.3 210 42.3  145 55.9 206 39.8  155 52.9 199 35.4  160 51.8 196 33.4  165 50.2 192 31.7  170 48.7 187 30.0  175 47 182 28.3  180 45.4 178 26.8  185 43.7 172 25.3  180 41.9 167 24.0  195 40.1 161 22.7  200 38.2 154 21.4  201 34.1 140 19.1  215 31.8 132 18.0  220 29.5 123 17.0  225 26.9 114 16.0  230 24 103 15.1  235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-34)  40 84.2 250 79.4  55 80.6 248 79.4  66 78.2 246 79.4  75 75.8 243 79.4  80 74.6 241 79.4  85 73.4 240 79.4  86 73.4 240 79.4  90 72.1 238 78.7  95 70.9 236 73.8  100 69.6 234 68.0  105 68.4 232 62.9  115 65.8 227 54.0  120 64.5 225 50.2				
125 61.5 219 51.0 130 60.1 216 47.8 135 58.7 213 44.9 140 57.3 210 42.3 145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-24) 32 86 252 79.4 45 83 250 79.4 45 83 250 79.4 46 79.4 247 79.4 66 79.4 247 79.4 67 77 72 444 79.4 68 79.4 247 79.4 68 79.2 246 79.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 90 72.1 238 78.7 95 70.9 236 73.4 100 69.6 234 68.0				
130 60.1 216 47.8 135 58.7 213 44.9 140 57.3 210 42.3 39.8 150 54.4 203 37.5 155 52.9 199 35.4 166 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2 243 ft Main boom, Load fall point Boom, HPT head (2821-27) 155 80.6 248 79.4 150 81.8 249 79.4 150 80 74.6 241 79.4 160				
140 57.3 210 42.3 39.8 145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 125 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2 243 ft Main boom, Load fall point Boom, HPT head (2821-27) 140 150 150 150 150 150 150 150 150 150 15	130	60.1	216	47.8
145 55.9 206 39.8 150 54.4 203 37.5 155 52.9 199 35.4 160 51.8 196 33.4 165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2 243 ft Main boom, Load fall point Boom, HPT head (2821-5) 32 86 252 79.4 40 84.2 250 79.4 45 83 250 79.4 40 84.2 250 79.4 45 83 250 79.4 46 79.4 79.4 67 79.2 246 79.4 75 75.8 243 79.4 80 74.6 241 79.4 80 75.8 243 79.4 80 74.6 241 79.4 80 76.7 238 73.8 80 76.9 236 73.8 80 76.9 236 73.8 80 76.9 236 73.8 80 76.9 236 73.8 80 76.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2				
150				
160         51.8         196         33.4           165         50.2         192         31.7           170         48.7         187         30.0           175         47         182         28.3           180         45.4         178         26.8           185         43.7         172         25.3           190         41.9         167         24.0           195         40.1         161         22.7           200         38.2         154         21.4           205         36.2         148         20.2           210         34.1         140         19.1           215         31.8         132         18.0           220         29.5         123         17.0           225         26.9         114         16.0           230         24         103         15.1           235         20.8         90         14.2           243         ft Main boom, Load fall           point Boom, HPT head (2821-2)         19.4           40         84.2         250         79.4           40         84.2         250         79.4	150	54.4	203	37.5
165 50.2 192 31.7 170 48.7 187 30.0 175 47 182 28.3 180 45.4 178 26.8 185 43.7 172 25.3 190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-2) 35 85.4 251 79.4 40 84.2 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 50 81.8 249 79.4 55 80.6 248 79.4 60 79.4 247 79.4 65 78.2 246 79.4 75 75.8 243 79.4 80 74.6 241 79.4 80 74.6 241 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2				
170				
180				
185				
190 41.9 167 24.0 195 40.1 161 22.7 200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-2) 32 86 252 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 46 84.2 250 79.4 47 89.4 79.4 68 77.2 246 79.4 69 78.2 246 79.4 70 77 244 79.4 80 74.6 241 79.4 80 74.6 241 79.4 85 73.4 240 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2				
200 38.2 154 21.4 205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-2) 32 86 252 79.4 35 85.4 251 79.4 40 84.2 250 79.4 45 83 250 79.4 50 81.8 249 79.4 55 80.6 248 79.4 66 79.4 247 79.4 66 79.4 247 79.4 75 75.8 243 79.4 80 74.6 241 79.4 80 74.6 241 79.4 80 74.6 241 79.4 80 74.6 241 79.4 80 74.6 241 79.4 80 74.6 241 79.4 80 75.8 243 79.4 80 74.6 241 79.4 80 75.8 243 79.4 80 76.6 241 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 115 66.8 227 54.0 120 64.5 225 50.2				
205 36.2 148 20.2 210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2 243 ft Main boom, Load fall point Boom, HPT head (2821-262) 32 86 252 79.4 35 85.4 251 79.4 40 84.2 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 46 84.2 250 79.4 47 89.4 79.4 50 81.8 249 79.4 50 81.8 249 79.4 51 79.4 79.4 52 70.9 244 79.4 53 78.2 246 79.4 70 77 244 79.4 75 75.8 243 79.4 80 74.6 241 79.4 80 74.6 241 79.4 81 79.4 79.4 82 70.9 72.1 238 78.7 83 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 120 64.5 225 50.2				
210 34.1 140 19.1 215 31.8 132 18.0 220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2 243 ft Main boom, Load fall point Boom, HPT head (2821-243 15 16 16 16 16 16 16 16 16 16 16 16 16 16				
220 29.5 123 17.0 225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-2)  32 86 252 79.4 35 85.4 251 79.4 40 84.2 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 65 78.2 246 79.4 66 78.2 246 79.4 70 77 244 79.4 75 75.8 243 79.4 80 74.6 241 79.4 85 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 86 76.6 241 79.4 87 76.7 27 28.7 28.7 80 76.6 241 79.4 81 79.4 247 79.4 82 246 79.4 83 78.7 79.5 75.8 243 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2 110 64.5 225 50.2				
225 26.9 114 16.0 230 24 103 15.1 235 20.8 90 15.1 243 ft Main boom, Load fall point Boom, HPT head (2821-242) 32 86 252 79.4 35 85.4 251 79.4 40 84.2 250 79.4 45 83 250 79.4 45 83 250 79.4 45 83 250 79.4 46 87.4 27.7 50 81.8 249 79.4 55 80.6 248 79.4 60 79.4 247 79.4 65 78.2 246 79.4 70 77 244 79.4 75 75.8 243 79.4 80 74.6 241 79.4 85 73.4 240 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2 110 64.5 225 50.2				
230 24 103 15.1 235 20.8 90 14.2  243 ft Main boom, Load fall point Boom, HPT head (2821-2)  32 86 252 79.4  35 85.4 251 79.4  40 84.2 250 79.4  45 83 250 79.4  55 80.6 248 79.4  65 78.2 246 79.4  70 77 244 79.4  75 75.8 243 79.4  80 74.6 241 79.4  85 73.4 240 79.4  85 73.4 240 79.4  90 72.1 238 78.7  95 70.9 236 73.8  100 69.6 234 68.0  105 68.4 232 62.9  110 67.1 230 58.2  110 67.1 230 58.2  110 67.1 230 58.2  110 67.1 230 58.2  110 66.5 225 50.2				
235   20.8   90   14.2   243 ft Main boom, Load fall point Boom, HPT head (2821-2)  32   86   252   79.4   35   85.4   251   79.4   40   84.2   250   79.4   45   83   250   79.4   50   81.8   249   79.4   55   80.6   248   79.4   60   79.4   247   79.4   65   78.2   246   79.4   70   77   244   79.4   75   75.8   243   79.4   85   73.4   240   79.4   85   73.4   240   79.4   90   72.1   238   78.7   95   70.9   236   73.8   100   69.6   234   68.0   105   68.4   232   62.9   110   67.1   230   58.2   110   64.5   225   50.2				
32 86 252 79.4 35 85.4 251 79.4 40 84.2 250 79.4 45 83 250 79.4 50 81.8 249 79.4 55 80.6 248 79.4 66 79.4 247 79.4 70 77 244 79.4 75 75.8 243 79.4 85 73.4 240 79.4 85 73.4 240 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 110 67.1 230 58.2 115 65.8 227 54.0	235	20.8	90	14.2
35         85.4         251         79.4           40         84.2         250         79.4           45         83         250         79.4           50         81.8         249         79.4           55         80.6         248         79.4           60         79.4         247         79.4           65         78.2         246         79.4           70         77         244         79.4           75         75.8         243         79.4           80         74.6         241         79.4           85         73.4         240         79.4           90         72.1         238         78.7           95         70.9         236         73.8           100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           110         67.1         230         58.2           120         64.5         225         50.2	point B	oom, H	PT head	l (2821-2)
40         84.2         250         79.4           45         83         250         79.4           50         81.8         249         79.4           55         80.6         248         79.4           60         79.4         247         79.4           65         78.2         246         79.4           70         77         244         79.4           75         75.8         243         79.4           80         74.6         241         79.4           85         73.4         240         79.4           90         72.1         238         78.7           95         70.9         236         73.8           100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           120         64.5         225         50.2				
45 83 250 79.4 50 81.8 249 79.4 55 80.6 248 79.4 60 79.4 247 79.4 65 78.2 246 79.4 70 77 244 79.4 75 75.8 243 79.4 80 74.6 241 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 67.1 230 58.2 120 64.5 225 50.2				
55         80.6         248         79.4           60         79.4         247         79.4           65         78.2         246         79.4           70         77         244         79.4           75         75.8         243         79.4           80         74.6         241         79.4           85         73.4         240         79.4           90         72.1         238         78.7           95         70.9         236         73.8           100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           110         67.1         230         58.2           120         64.5         225         50.2	45	83	250	
60 79.4 247 79.4 65 78.2 246 79.4 70 77 244 79.4 75 75.8 243 79.4 80 74.6 241 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 64.5 225 50.2				
65 78.2 246 79.4 70 77 244 79.4 75 75.8 243 79.4 80 74.6 241 79.4 85 73.4 240 79.4 90 72.1 238 78.7 95 70.9 236 73.8 100 69.6 234 68.0 105 68.4 232 62.9 110 67.1 230 58.2 110 64.5 225 50.2				
75         75.8         243         79.4           80         74.6         241         79.4           85         73.4         240         79.4           90         72.1         238         78.7           95         70.9         236         73.8           100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           115         65.8         227         54.0           120         64.5         225         50.2	65	78.2	246	79.4
80     74.6     241     79.4       85     73.4     240     79.4       90     72.1     238     78.7       95     70.9     236     73.8       100     69.6     234     68.0       105     68.4     232     62.9       110     67.1     230     58.2       115     65.8     227     54.0       120     64.5     225     50.2				
85         73.4         240         79.4           90         72.1         238         78.7           95         70.9         236         73.8           100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           115         65.8         227         54.0           120         64.5         225         50.2				
95         70.9         236         73.8           100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           115         65.8         227         54.0           120         64.5         225         50.2	85	73.4	240	79.4
100         69.6         234         68.0           105         68.4         232         62.9           110         67.1         230         58.2           115         65.8         227         54.0           120         64.5         225         50.2				
105     68.4     232     62.9       110     67.1     230     58.2       115     65.8     227     54.0       120     64.5     225     50.2				
115 65.8 227 54.0 120 64.5 225 50.2	105	68.4	232	62.9
120 64.5 225 50.2				
125 03.2 222 46.7	125	63.2	222	46.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
243 ft point B			oad fall l (2821-2)
135	60.5	216	40.5
140	59.1	213	37.8
145	57.7	210	35.3
150	56.5	207	33.2
155	55.1	203	31.0
160	53.6	199	28.9
165	52.1	195	27.0
170	50.5	191	25.2
175	49	186	23.6
180	47.3	181	22.0
185	45.7	176	20.5
190	43.9	171	19.1
195	42.2	165	17.7
200	40.3	159	16.4
205	38.4	152	15.2
210	36.3	145	14.1
215	34.2	137	12.9
220	31.9	129	11.9
225	29.5	120	10.9
230	26.8	109	9.9
235	23.8	98	8.9
240	20.4	84	8.0
245	16.1	66	7.1
253 ft point B			oad fall l (2821-1)
27	86	259	257.6
30	85.3	259	257.6
35	84.2	258	252.9
40	83.1	258	247.8
45	81.9	257	217.2
50	80.8	256	190.4
55	79.6	255	168.8
60	78.5	254	149.9
65	77.3	253	133.7
70	76.1	252	120.2
75	74.9	250	108.9
80	73.8	249	99.2
85	72.6	247	90.9
90	71.4	246	83.6
95	70.2	244	77.2
100	68.9	242	71.5
105	67.7	240	66.4
110	66.5	238	61.9
115	65.2	235	57.7
120	64	233	54.0
125	62.7	230	50.6
130	61.4	227	47.4
135	60.1	224	44.6
140	58.7	221	41.9
145	57.4	218	39.4
150	56	215	37.2
155	54.6	211	35.0
160	53.5	208	33.2

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
170	50.6	200	29.6
175 180	49.1 47.6	196 191	28.0 26.4
185	46	186	25.0
190 195	44.4 42.7	181 176	23.6 22.3
200	41	170	21.0
205 210	39.2 37.3	164 157	19.9 18.8
215	35.3	157	17.7
220 225	33.3 31.1	143 135	16.7 15.7
225	28.8	126	14.8
235	26.2	116	13.9
240 245	23.4 20.3	104 91	13.0 12.2
253 ft	Main l	boom, I	oad fall
point B	oom, H	PT head	l (2821-2)
33	86	261	79.4
35 40	85.5 84.4	261 260	79.4 79.4
45	83.3	260	79.4
50 55	82.1 81	259 258	79.4 79.4
60	79.9	257	79.4
65 70	78.7 77.6	256 254	79.4 79.4
75	76.4	253	79.4
80 85	75.2 74	252 250	79.4 79.4
90	72.9	248	79.4
95 100	71.7 70.5	247 245	73.5 67.7
105	69.3	243	62.5
110 115	68.1 66.8	240	57.9 53.6
120	65.6	238 236	49.8
125	64.3	233	46.3
130 135	63 61.7	230 228	43.1 40.2
140 145	60.4	225 221	37.4 34.9
150	59.1 58	219	32.8
155	56.6	215	30.6
160 165	55.3 53.8	212 208	28.6 26.7
170	52.4	204	24.9
175 180	50.9 49.4	199 195	23.2 21.6
185	47.9	190	20.1
190 195	46.3 44.6	185 180	18.7 17.4
200	42.9	174	16.1
205 210	41.2 39.4	168 162	14.9 13.7
215	37.5	155	12.6
220 225	35.5 33.4	148 140	11.6 10.6
230	31.2	131	9.6
235 240	28.7 26.1	122 111	8.7 7.8
245	23.2	99	6.9



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs l			
	262 ft Main boom, Load fall					
point B	oom, H	PT head	l (2821-1)			
28	86	269	239.9			
30 35	85.5 84.4	269 268	239.9 237.6			
40	83.3	268	234.0			
45 50	82.2 81.1	267 266	214.6 188.1			
55	80	265	166.8			
60 65	78.9 77.8	264 263	149.3 133.3			
70	76.7	262	119.8			
75 80	75.5 74.4	261 259	108.5 98.8			
85	73.2	258	90.4			
90 95	72.1 70.9	256 254	83.1 76.7			
100	69.8	252	71.0			
105 110	68.6 67.4	250 248	65.9 61.3			
115	66.2	246	57.2			
120 125	65 63.8	244 241	53.4 50.0			
130	62.6	239	46.9			
135 140	61.3 60.1	236 233	44.0 41.3			
145	58.8	230	38.9 36.6			
150 155	57.5 56.2	227 223	36.6 34.5			
160	55.1 53.8	220 217	32.7 30.8			
165 170	52.4	213	29.0			
175 180	51 49.5	209 205	27.4 25.9			
185	48.1	200	24.4			
190 195	46.6 45	195 190	23.0 21.7			
200	43.4	185	20.5			
205 210	41.8 40.1	179 173	19.3 18.2			
215	38.3	167	17.1			
220 225	36.5 34.6	160 153	16.1 15.1			
230	32.6	145	14.2			
235 240	30.4 28.1	137 128	13.3 12.4			
245	25.6	117	11.6			
250 255	22.9 19.8	106 92	10.8 10.0			
262 ft			oad fall			
			l (2821-2)			
	•					
34 35	86 85.7	271 271	79.4 79.4			
40	84.6	270	79.4			
45 50	83.5 82.4	270 269	79.4 79.4			
55	81.3	268	79.4			
60 65	80.2 79.1	267 266	79.4 79.4			
70	78	265	79.4			
75 80	76.9 75.8	263 262	79.4 79.4			
85	74.7	260	79.4			
90 95	73.5 72.4	259 257	79.4 73.0			
100	71.2	255	67.2			
105 110	70.1 68.9	253 251	62.1 57.4			

125.7					
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
262 ft Main boom, Load fall point Boom, HPT head (2821-2)					
115 120	67.7 66.6	249 247	53.1 49.3		
125	65.3 64.1	244 242	45.8 42.6		
130 135	62.9	239	42.6 39.6		
140	61.6	236	36.9		
145 150	60.4 59.4	233 230	34.4 32.3		
155	58.1	227	30.1		
160 165	56.8 55.4	224 220	28.1 26.1		
170	54.1	216	24.4		
175 180	52.7 51.3	212 208	22.7 21.1		
185	49.8	204	19.6		
190	48.3	199	18.2		
195 200	46.8 45.3	194 189	16.8 15.6		
205	43.7	183	14.3		
210 215	42 40.3	178 172	13.2 12.1		
220	38.5	165	11.0		
225 230	36.7 34.7	158 150	10.0 9.1		
		1 100 1			
235	32.6	142	8.2		
235 240	32.6 30.4	133	7.3		
235	32.6 30.4 28.1	133 124	7.3 6.4		
235 240 245 250 255	32.6 30.4 28.1 25.5 22.6	133 124 113 100	7.3 6.4 5.6 4.8		
235 240 245 250 255 260	32.6 30.4 28.1 25.5 22.6 19.3	133 124 113 100 86	7.3 6.4 5.6 4.8 4.0		
235 240 245 250 255 260 <b>272 ft</b>	32.6 30.4 28.1 25.5 22.6 19.3	133 124 113 100 86	7.3 6.4 5.6 4.8		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b>	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1	133 124 113 100 86 boom, I PT head	7.3 6.4 5.6 4.8 4.0 coad fall (2821-1)		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b>	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b>	133 124 113 100 86 boom, I PT head	7.3 6.4 5.6 4.8 4.0 Load fall (2821-1) 222.0 222.0		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b>	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1	133 124 113 100 86 boom, I PT head	7.3 6.4 5.6 4.8 4.0 coad fall (2821-1)		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b>	133 124 113 100 86 boom, I PT head	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 211.0 212.0		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b>	133 124 113 100 86 <b>boom, I</b> <b>PT head</b> 279 279 278 278	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 222.0 221.2 219.0 212.0 185.8 164.8		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 60	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3	133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 275	7.3 6.4 5.6 4.8 4.0 Load fall (2821-1) 222.0 222.0 221.2 219.0 212.0 185.8 164.8 147.5		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 66 65	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2	133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 274 274 273	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 66 67 70	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1	133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 272 271	7.3 6.4 5.6 4.8 4.0 Load fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1	133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 269	7.3 6.4 5.6 4.8 4.0 Joad fall (2821-1) 222.0 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 66 65 70 75 80 85 90	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75.9 73.9 72.8	133 124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 268 268 266	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 90 95	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7	133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 269 268 266 265	7.3 6.4 5.6 4.8 4.0 Load fall (2821-1) 222.0 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2		
235 240 245 250 255 260 272 ft point B 28 30 35 40 45 50 65 70 75 80 85 90 95 100 105	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 72.8 71.7 70.5 69.4	133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 268 268 266 265 263 261	7.3 6.4 5.6 4.8 4.0 coad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 90 95 100 105 110	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3	133 124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 268 266 265 263 261 259	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4 60.8		
235 240 245 250 255 260 272 ft point B 28 30 35 40 45 50 65 70 75 80 85 90 95 100 105	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 72.8 71.7 70.5 69.4	133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 268 268 266 265 263 261	7.3 6.4 5.6 4.8 4.0 coad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4		
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 65 70 75 80 85 90 95 100 115 110 115 120 125	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 66 64.8	133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 274 273 272 271 268 268 266 265 263 261 259 255	7.3 6.4 5.6 4.8 4.0 coad fall (2821-1)  222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66	133 124 113 100 86 boom, I PT head  279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 70.5 65.4 60.8 56.7 52.9		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 95 100 105 110 115 120 125 130 135 140	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3	133 124 113 100 86 boom, I PT head  279 279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5 46.4 43.5 40.8		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 100 105 110 115 120 125 130 135 140 145	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60	133 124 113 100 86 boom, I PT head  279 279 278 277 276 275 274 273 272 271 269 266 265 263 261 259 257 255 250 247 244 241	7.3 6.4 5.6 4.8 4.0 Load fall (2821-1) 222.0 221.2 219.0 211.2 185.8 147.5 132.8 147.5 132.8 198.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5 40.8 38.4		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125 130 145 150 155	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60.5 61.3 60.5 83.8 63.6	133 124 113 100 86 boom, I PT head  279 279 278 277 276 275 274 273 272 271 269 268 266 263 261 259 257 255 252 250 247 244 241 238 235	7.3 6.4 5.6 4.8 4.0  .oad fall (2821-1)  222.0 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5 40.4 43.5 40.8 38.4 36.1 34.0		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145 150 155 160	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 58.8 57.6 65.6	133 124 113 100 86 boom, I PT head  279 279 278 278 277 276 275 274 273 272 271 269 268 266 265 261 259 257 255 252 250 247 244 241 238 235 232	7.3 6.4 5.6 4.8 4.0 .oad fall (2821-1) 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5 40.8 38.4 36.1 34.0 32.2		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145 150 155 160 165 170	32.6 30.4 28.1 25.5 22.6 19.3 Main oom, H 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 77.2 88.4 68.3 60.6 61.3 62.5 61.3 63.6 62.5 61.3 65.6 65.3 55.3 54	133 124 113 100 86 boom, I PT head  279 279 278 277 276 275 274 273 272 271 269 268 266 263 261 259 257 255 252 250 247 244 241 238 235 232 229 225	7.3 6.4 5.6 4.8 4.0 Joad fall (2821-1) 222.0 222.0 221.2 219.0 212.0 185.8 147.5 132.8 147.5 132.8 198.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5 40.4 43.5 40.8 32.2 30.3 28.5		
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145 150 155 160 165	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66.4 62.5 61.3 60.5 58.8 57.6 60.5 60.5 60.5	133 124 113 100 86 boom, I PT head  279 279 278 277 276 275 274 273 277 276 269 268 266 263 261 269 257 255 252 247 241 238 238 235 232 229	7.3 6.4 5.6 4.8 4.0 Load fall (2821-1) 222.0 222.0 221.2 219.0 212.0 185.8 164.8 147.5 132.8 119.3 108.0 98.3 89.9 82.6 76.2 70.5 65.4 60.8 56.7 52.9 49.5 46.4 43.5 40.8 38.4 36.1 34.0 32.2 30.3		

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
272 ft Main boom, Load fall point Boom, HPT head (2821-1)						
190 195	48.5 47.1	209 204	22.5 21.2			
200	45.6	199	20.0			
205 210	44.1 42.5	194 189	18.8 17.7			
215	40.9	183	16.6			
220 225	39.3 37.5	177 170	15.6 14.6			
230	35.7	163	13.7			
235	33.9	156	12.8			
240 245	31.9 29.8	148 139	12.0 11.2			
250	27.5	130	10.4			
255 260	25.1 22.4	119 107	9.6 8.9			
265	19.3	94	8.1			
	oom, H	PT head	oad fall l (2821-2)			
34 35	86 85.9	281 281	79.4 79.4			
40						
	84.8	280	79.4			
45	83.8	280 280	79.4 79.4			
		280 280 279 278	79.4			
45 50 55 60	83.8 82.7 81.7 80.6	280 280 279 278 277	79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65	83.8 82.7 81.7 80.6 79.5	280 280 279 278 277 276	79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75	83.8 82.7 81.7 80.6 79.5 78.5 77.4	280 280 279 278 277 276 275 274	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3	280 280 279 278 277 276 275 274	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1	280 280 279 278 277 276 275 274 272 271 269	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73	280 280 279 278 277 276 275 274 272 271 269 268	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95 100	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9	280 280 279 278 277 276 275 274 272 271 269 268 266	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95 100 105 110	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95 100 105 110	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95 100 115 110 120 125	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95 100 115 125 130	83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.5 66.3 65.1	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 250 255 253	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 100 105 110 115 120 125 130 135 140	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3 65.1 64 62.8	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 125 130 135 140 145	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3 65.1 62.8 61.6	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 100 105 110 115 120 125 130 135 140	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3 65.1 64 62.8	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 100 105 110 120 125 130 135 140 145 155 160	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.6 59.4 58.1	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244 242 239 236	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 105 110 120 125 130 135 140 145 150 155	83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.6 59.4 58.9	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244 242 239	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 80 85 90 105 110 125 135 140 145 150 165 170 175	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 59.4 58.1 56.6 55.6 55.6 54.3	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 247 247 247 242 239 236 239 229 225	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 80 85 90 95 100 105 115 120 125 130 145 145 155 160 165 170	83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.9 69.7 68.6 67.5 66.3 65.1 64 62.8 61.6 60.6 59.4 58.1 56.9	280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 255 253 247 247 242 239 239 236 232 229	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			



Version: 9839979/59979/ HPT foot: 2821-1 **360** °

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]: 229.3 125.7

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]		
272 ft Main boom, Load fall point Boom, HPT head (2821-2)					
195	48.8	208	16.4		
200	47.3	203	15.1		
205	45.9	198	13.9		
210	44.3	193	12.7		
215	42.8	187	11.6		
220	41.1	181	10.6		
225	39.5	175	9.6		
230	37.7	168	8.6		
235	35.9	161	7.7		
240	34	153	6.8		
245	31.9	145	6.0		
250	29.8	136	5.2		
255	27.5	126	4.4		
260	24.9	114	3.6		
265	22.1	102	2.8		
270	18.8	87	2.0		
	Main l		oad fall l (2821-1)		
29	86	289	205.3		
30	85.8	289	205.3		
35	84.8	288	204.8		
40	83.8	288	202.9		
45	82.8	287	201.1		
50	81.7	286	183.6		
55	80.7	285	162.8		
60	79.7	284	145.7		
65	78.6	283	131.4		
70	77.6	282	118.9		
75	76.6	281	107.5		
80	75.5	280	97.8		
85	74.5	278	89.4		
90	73.4	277	82.1		
95	72.3	275	75.7		
100	71.3	273	70.0		
105	70.2	272	64.9		
110	69.1	270	60.3		
115	68	268	56.1		
120	66.9	265	52.4 49.0		
125	65.8	263	45.8		
130	64.6	261			
135	63.5	258	42.9		
140	62.4	256	40.3		
145	61.2	253	37.8		
150	60	250	35.5		
155	59.1	248	33.4		
160	57.9	244	31.6		
165	56.7	241	29.7		
170	55.4	238	28.0		
175	54.2	234	26.3		
180	52.9	230	24.8		
185	51.6	226	23.3		
190	50.3	222	21.9		
	50.5	. 444	41.5		

125.7						
Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
	282 ft Main boom, Load fall point Boom, HPT head (2821-1)					
200	47.5	213	19.4			
205	46.1	208	18.2			
210	44.7	203	17.1			
215	43.2	198	16.0			
220	41.7	192	15.0			
225	40.1	186	14.1			
230	38.5	180	13.1			
235	36.8	173	12.2			
240	35	166	11.4			
245	33.2	158	10.6			
250	31.2	150	9.8			
255	29.1	141	9.0			
260	26.9	132	8.3			
265	24.5	121	7.6			
			6.9 6.2 Load fall l (2821-1)			
30	86	298	66.4			
30	86	298	191.3			
35	85	298	191.3			
40	84	297	189.5			
45	83	297	188.2			
50	82	296	178.8			
55	81	295	160.9			
60	80	294	144.0			
65	79	293	129.8			
70	78	292	117.8			
75	77	291	107.1			
80	76	290	97.4			
85	75	288	89.0			
90	74	287	81.7			
95	72.9	285	75.3			
100	71.9	284	69.6			
105	70.9	282	64.5			
110	69.8	280	59.9			
115	68.8	278	55.7			
120	67.7	276	52.0			
125	66.6	274	48.5			
130	65.6	272	45.4			
135	64.5	269	42.5			
140	63.4	267	39.8			
145	62.3	264	37.4			
150	61.1	261	35.1			
155	60.2	259	33.1			
160	59.1	256	31.2			
165	57.9	253	29.3			
170	56.8	250	27.5			
175	55.6	246	25.9			
180	54.4	242	24.3			
185	53.1	239	22.9			
190	51.9	235	21.5			
195	50.6	231	20.2			
200	49.3	226	19.0			
205	48	222	17.8			

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-1)
210	46.6	217	16.7
215	45.3	212	15.6
220	43.8	207	14.6
225	42.4	201	13.6
230	40.9	196	12.7
235	39.3	190	11.8
240	37.7	183	11.0
245	36.1	176	10.2
250	34.3	169	9.4
255	32.5	161	8.6
260	30.6	153	7.9
265	28.6	144	7.2
270	26.4	134	6.5
275 280 285	24 21.4 18.4 <b>Main l</b>	123 110 96	5.9 5.3 4.6 <b>∞ad fall</b>
			l (2821-1)
30	86	308	66.4
35	85.2	308	177.3
40	84.2	307	176.4
45	83.2	307	175.5
50	82.3	306	170.4
55	81.3	305	158.9
60	80.4	304	142.2
65	79.4	303	128.2
70	78.4	302	116.3
75	77.5	301	106.0
80	76.5	300	96.9
85	75.5	299	88.5
90	74.5	297	81.2
95	73.5	296	74.8
100	72.5	294	69.0
105	71.5	292	63.9
110	70.5	291	59.3
115	69.5	289	55.2
120	68.5	287	51.4
125	67.4	285	48.0
130	66.4	282	44.8
135	65.4	280	41.9
140	64.3	278	39.3
145	63.2	275	36.8
150	62.2	272	34.5
155	61.3	270	32.6
160	60.2	268	30.6
165	59.1	264	28.7
170	58	261	27.0
175	56.9	258	25.3
180	55.7	255	23.8
185	54.5	251	22.3
190	53.3	247	20.9
195	52.1	243	19.6
200	50.9	239	18.4
205	49.7	235	17.2
210	48.4	230	16.1
215	47.1	226	15.0



Version: 9839979/59979/ HPT foot: 2821-1 360°

229.3

125.7

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]:

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
220	45.8	221	14.0
225 230	44.4 43	216 210	13.1 12.1
235	41.6	205	11.3
240	40.1	199	10.4
245	38.6	193	9.6
250	37	186	8.8
255	35.4	179	8.1
260	33.7	172	7.3
265 270	31.9 30	164 155	6.6 6.0
270 275	30 28	146	5.3
280	25.9	136	4.7
285	23.5	124	4.1
290	20.9	112	3.5
295	18	97	2.9

			ı, Load	
point l	Boom,	HPT h	ead (28	321-1)

31	86	318	165.4
35	85.3	318	165.4
40	84.4	317	164.2
45	83.5	317	162.8
50	82.5	316	160.1
55 60	81.6 80.7	315 314	152.9 140.3
65	79.7	314	140.3
70	78.8	312	120.5
70 75	77.9	312	104.6
80	76.9	310	95.8
85	76	309	88.0
90	75	308	80.7
95	74.1	306	74.3
100	73.1	304	68.5
105	72.1	303	63.4
110	71.2	301	58.8
115	70.2	299	54.7
120	69.2	297	50.9
125	68.2	295	47.5
130	67.2	293	44.3
135	66.2	291	41.4
140	65.2	289	38.8
145	64.2	286	36.3
150	63.1	284	34.0
155 160	62.3 61.3	282 279	32.1 30.1
165	60.2	279 276	28.2
170	59.1	273	26.4
175	58	273	24.8
180	56.9	266	23.2
185	55.8	263	21.8
190	54.7	260	20.4
195	53.5	256	19.1
200	52.4	252	17.9
205	51.2	248	16.7
210	50	244	15.6
215	48.8	239	14.5

Main boom angle [°]:		Load capacity [1000 lbs ]
47.5 46.3	235 230	13.5 12.5
45	225	11.6
43.6	220	10.7
42.3	214	9.9
		9.1
		8.3
		7.6 6.8
		6.1
33.1	174	5.5
31.3	166	4.8
29.4	157	4.2
		3.6
		3.0 2.4
	boom angle [°]:  Main l oom, HI  47.5 46.3 45 43.6 42.3 40.8 39.4 37.9 36.4 34.7 33.1 31.3	boom angle [°]:



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

	•				
Radius [ft ]:		Rope pulley height [ft]:	Load capacity [1000 lbs ]		
66 ft Main boom, Load fall					
			l (2821-1)		
[					
14	86	73	66.4		
15 20	85.2 80.8	72 72	603.2 557.5		
25	76.2	70	442.1		
30 35	71.6 66.8	68 66	365.1 310.1		
40	61.9	63	256.6		
45 50	56.6 50.9	60 56	215.8 185.7		
55	44.7	51	162.4		
60 65	37.5 28.7	44 36	143.8 128.6		
66 ft		oom, L			
			l (2821-2)		
			(		
20	86	75	79.4		
25	81.7	74	79.4		
30 35	77.3 72.8	72 70	79.4 79.4		
40	68	67	79.4		
45 50	63.1 57.9	64 60	79.4 79.4		
55	52.2	55	79.4		
60 65	45.8 38.4	50 42	79.4 79.4		
70	28.7	32	79.4		
76 ft	Main b	oom, L	oad fall		
			(2821-1)		
15	86	82	66.4		
15 20	85.8 82	82 82	661.4 557.4		
25	78.1	80	442.0		
30 35	74.1 70.1	79	365.1 310.1		
40	65.9	77 75	257.0		
45	61.5	72	216.3		
50 55	57 52.1	69 65	186.1 162.9		
60	46.9	60	144.4		
65 70	41.1 34.5	54 47	129.3 116.8		
70 75	26.2	37	106.1		
76 ft	Main b	oom. L	oad fall		
point B	oom, H	PT head	l (2821-2)		
I					
21	86	85	79.4		
25 30	82.7 78.9	84 82	79.4 79.4		
35	75.1	80	79.4		
40	71.1	78 75	79.4		
45 50	66.9 62.6	75 72	79.4 79.4		
55	58.1	68	79.4		
60 65	53.2 47.9	64 59	79.4 79.4		
70	42	52	79.4		
75 80	35 25.8	44 33	79.4 79.4		
00	20.0	JJ	13.4		

125	.7		
Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
15	86	92	66.4
20	82.9	92	556.6
25	79.5	91	441.2
30	76	89	364.3
35	72.5	88	309.3
40	68.9	86	257.0
45	65.1	83	216.2
50	61.3	80	186.1
55	57.3	77	162.8
60	53.1	73	144.3
65	48.5	69	129.3
70	43.7	64	116.8
75	38.3	57	106.2
80	32	49	97.2
85	24.2	39	89.3
		oom, L PT head	oad fall l (2821-2)
21	86	94	79.4
25	83.6	94	79.4
30	80.2	92	79.4
35	76.8	91	79.4
40	73.3	89	79.4
45 50 55 60 65	69.8 66.1 62.3 58.3 54	86 84 81 77 73	79.4 79.4 79.4 79.4 79.4 79.4
70 75 80 85	49.5 44.5 38.9 32.3	68 62 55 46	79.4 79.4 79.4 79.4 79.4
90	23.4	34	78.0
95 ft point B		oom, L PT head	l (2821-1)
16	86	102	662.4
20	83.7	102	556.7
25	80.6	101	441.4
30	77.5	100	364.5
35	74.4	98	309.5
40	71.2	96	257.3
45	67.9	94	216.6
50	64.6	92	186.4
55	61.1	89	163.2
60	57.5	86	144.7
65	53.8	82	129.7
70	49.8	78	117.2
75	45.6	73	106.7
80	41	67	97.7
85	35.9	60	89.9
90	29.9	52	83.0
95	22.5	40	76.9

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
		oom, L PT head	oad fall l (2821-2)
22	86	104	79.4
25 30	84.2 81.2	104 102	79.4 79.4
35	78.2	101	79.4
40 45	75.1 72	99 97	79.4 79.4
50	68.7	95	79.4
55 60	65.4 62	92 89	79.4 79.4
65	58.4	86	79.4
70 75	54.6 50.6	82 77	79.4 79.4
80	46.3	71	79.4
85 90	41.6 36.3	65 58	79.4 78.8
95	30	48	72.6
100	21.5	34	66.9
105 ft point B			oad fall l (2821-1)
17	86	112	642.5
20	84.3	112	555.9
25 30	81.5 78.7	111 110	440.5 363.6
35	75.9	108	308.7
40 45	73 70.1	107 105	257.2 216.4
50	67.1	103	186.2
55 60	64.1 60.9	100 97	162.9 144.4
65	57.7	94	129.4
70 75	54.3 50.8	90 86	117.0 106.4
80	47	82	97.5
85 90	43 38.7	76 70	89.7 82.8
95	33.8	63	76.8
100 105	28.2 22.7	54 44	71.4 33.4
105 ft point B			oad fall l (2821-2)
23	86	114	79.4
25 30	84.8 82.1	114 113	79.4 79.4
35	79.3	111	79.4
40 45	76.5 73.7	110 108	79.4 79.4
50	70.8	106	79.4
55 60	67.9 64.9	103 101	79.4 79.4
65	61.7	98	79.4
70 75	58.5 55.1	94 90	79.4 79.4
80	51.5	86	79.4
85 90	47.8 43.7	81 75	79.4 78.7
95	39.2	68	72.5
100 105	34.1 27.9	60 49	67.0 62.0
110	19.5	34	57.4



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360 °
Foot print: 2-wide track
Counterweight [1000 lbs ]: 207.2
Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
	115 ft Main boom, Load fall point Boom, HPT head (2821-1)					
18	86	122	610.6			
20	84.8	121	555.4			
25	82.2	121	440.1			
30	79.7	120	363.1			
35	77.1	118	308.2			
40	74.5	117	257.2			
45	71.9	115	216.3			
50	69.2	113	186.0			
55 60 65 70 75 80 85	66.5 63.7 60.8 57.9 54.8 51.6 48.2 44.7	111 109 106 103 99 95 90 85	162.8 144.3 129.3 116.8 106.3 97.3 89.5 82.7			
95	40.9	80	76.7			
100	36.7	73	71.4			
105	32	65	66.6			
110	26.6	55	62.3			
115	21.4	46	33.4			
point B	oom, H	PT head	l (2821-2)			
23	86	124	79.4			
25	85.2	124	79.4			
30	82.7	123	79.4			
35	80.2	122	79.4			
40	77.7	120	79.4			
45	75.1	118	79.4			
50	72.5	116	79.4			
55	69.9	114	79.4			
60	67.2	112	79.4			
65	64.4	109	79.4			
70	61.5	106	79.4			
75	58.6	103	79.4			
80	55.5	99	79.4			
85	52.3	94	79.4			
90	48.9	90	78.6			
95 100 105 110 115	45.3 41.4 37.1 32.1 26.2 18.4	84 78 70 62 51 35	72.5 67.1 62.2 57.7 53.6 49.8			

125	.7		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
18	86	132	580.4
20	85.2	131	554.5
25 30	82.9 80.5	131 130	439.1 362.2
35	78.2	129	307.3
40	75.8	127	257.0
45	73.4	126	216.0
50	70.9	124	185.8
55 60	68.5 65.9	122 120	162.4 143.9
65	63.4	117	128.9
70	60.7	114	116.4
75	58	111	105.9
80	55.2	108	96.9
85 90	52.3 49.2	104 99	89.1 82.4
90 95	49.2 46	99	76.4
100	42.6	89	71.0
105	39	83	66.3
110	35	76	62.0
115 120	30.5 25.3	67 57	58.1 54.5
125	20.2	47	33.4
			oad fall l (2821-2)
24	86	134	79.4
25	85.6	134	79.4 79.4
30 35	83.3 81	133 132	79.4
40	78.7	130	79.4
45	76.3	129	79.4
50	74	127	79.4
55 60	71.5 69.1	125 123	79.4 79.4
65	66.6	123	79.4
70	64	118	79.4
75	61.4	114	79.4
80	58.6	111	79.4
85 90	55.8 52.9	107 103	79.4 78.3
95	49.8	98	72.2
100	46.6	93	66.7
105	43.1	87	61.9
110	39.4	81	57.5 53.5
115 120	35.3 30.4	73 64	49.8
125	24.7	52	46.4

		1	
Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
134 ft point B	Main		oad fall l (2821-1)
19	86	141	553.0
20	85.5	141	553.0
25 30	83.4 81.2	141 140	439.0 362.1
35	79	139	307.1
40	76.9	138	256.9
45 50	74.6 72.4	136 134	216.0 185.7
55	70.1	133	162.4
60	67.8	130	143.9
65	65.5	128	128.8
70 75	63.1 60.6	126 123	116.4 105.8
80	58.1	120	96.9
85	55.5	116	89.1
90	52.8	112	82.3 76.3
95 100	50 47.1	108 103	76.3 71.0
105	44	98	66.3
110	40.8	92	62.0
115 120	37.3 33.4	86 78	58.1 54.6
125	29.1	70	51.3
130	24.1	59	48.3
		PT head	oad fall l (2821-2)
25	86	144	79.4
25 30	85.9 83.8	143 143	79.4 79.4
35	81.7	142	79.4
40	79.5	140	79.4
45 50	77.4	139	79.4
50 55	75.2 72.9	137 136	79.4 79.4
60	70.7	134	79.4
65	68.4	131	79.4
70 75	66.1 63.7	129 126	79.4 79.4
80	61.2	123	79.4
85	58.7	120	79.4
90	56.1	116	78.3
95 100	53.4 50.6	112 107	72.2 66.7
105	47.6	102	61.9
110	44.5	97	57.5
115 120	41.2 37.6	90 83	53.6 49.9
120	33.5	75	49.9 46.6
130	29	65	43.5
	23.4	53	40.6
135 140	18	40	33.4



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
144 ft Main boom, Load fall point Boom, HPT head (2821-1)					
20	86	151	66.4		
20 25	85.8 83.8	151 150	526.6 438.1		
30	81.8	150	361.2		
35 40	79.8 77.8	149 148	306.2 256.8		
45	75.7	146	215.7		
50	73.6	145	185.4		
55 60	71.5 69.4	143 141	162.0 143.5		
65	67.3	139	128.4		
70 75	65.1 62.8	137 134	115.9 105.4		
80	60.5	131	96.4		
85 90	58.2	128	88.7		
95	55.8 53.3	125 121	81.9 75.9		
100	50.7	117	70.6		
105 110	48.1 45.3	112 107	65.8 61.5		
115	42.3	102	57.7		
120 125	39.2 35.8	96	54.2		
130	32.1	89 81	50.9 48.0		
130 135	32.1	81 72	48.0 45.2		
130 135 140	32.1 27.9 23	81 72 60	48.0 45.2 42.7		
130 135 140 <b>144 ft</b>	32.1 27.9 23 <b>Main</b> l	81 72 60	48.0 45.2		
130 135 140 <b>144 ft</b> <b>point B</b>	32.1 27.9 23 <b>Main l</b> <b>oom, H</b>	81 72 60 boom, I PT head	48.0 45.2 42.7 <b>coad fall</b> ( <b>2821-2)</b>		
130 135 140 <b>144 ft</b> <b>point B</b>	32.1 27.9 23 <b>Main l</b> <b>oom, H</b>	81 72 60 boom, I PT head	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4		
130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40	32.1 27.9 23 <b>Main l</b> <b>oom, H</b> 86 84.2 82.2 80.2	81 72 60 boom, I PT head 153 153 152 151	48.0 45.2 42.7 aoad fall (2821-2) 79.4 79.4 79.4 79.4		
130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40 45	32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2	81 72 60 boom, I PT head 153 153 152 151 149	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4		
130 135 140 <b>144 ft</b> <b>point B</b> 25 30 35 40	32.1 27.9 23 <b>Main I</b> <b>36</b> 84.2 82.2 80.2 78.2 76.2 74.1	81 72 60 boom, I PT head 153 153 152 151	48.0 45.2 42.7 aoad fall (2821-2) 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 55 60	32.1 27.9 23 <b>Main 1</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1	81 72 60 boom, I PT head 153 153 152 151 149 148 148 146 144	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 60 65	32.1 27.9 23 <b>Main I</b> <b>oom, H</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1	81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 144	48.0 45.2 42.7 <b>oad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 65 60 65 70 75	32.1 27.9 23 <b>Main I</b> <b>36</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1 67.8 65.6	81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 65 70 75 80	32.1 27.9 23 <b>Main I</b> <b>com, H</b> 86 84.2 82.2 80.2 78.2 74.1 70 67.8 65.6 63.4	81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 60 65 70 75 80 85 90	32.1 27.9 23 <b>Main I</b> <b>36</b> 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1 67.8 65.6	81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 65 60 65 70 75 80 85 90 95	32.1 27.9 23 <b>Main I</b> 000m, HI 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1 58.8 56.4	81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 60 65 70 75 80 85 90	32.1 27.9 23 <b>Main I</b> <b>com, H</b> 86 84.2 82.2 80.2 76.2 74.1 70 67.8 65.6 63.4 61.1 58.8	81 72 600m, I PT head 153 153 152 151 149 148 146 144 142 140 137 137 134 131 128	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	32.1 27.9 23 <b>Main I</b> <b>36</b> 86 84.2 82.2 80.2 76.2 76.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.4 61.1 58.8 56.4 53.9 51.3 48.6	81 72 60 boom, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 120 116 111	48.0 45.2 42.7 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4		
130 135 140 144 ft point B 25 30 35 40 45 50 65 60 65 70 75 80 85 90 90 100 105 110 115	32.1 27.9 23 <b>Main I</b> 00m, HI 86 84.2 82.2 80.2 78.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7	81 72 60 boom, I PT head 153 153 152 151 149 148 144 142 140 137 134 131 128 124 120 116 111 106	48.0 45.2 42.7 <b>coad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 79.5 79.5 79.5 79.6 79.6 79.7 79.7 79.7 79.8 79		
130 135 140 144 ft point B 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125	32.1 27.9 23 <b>Main I</b> <b>com, H</b> 86 84.2 82.2 80.2 76.2 74.1 70 67.8 65.6 63.4 63.4 58.8 56.4 53.9 51.3 48.6 45.7 39.5	81 72 600m, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 128 124 120 116 111 106 100 93	48.0 45.2 42.7 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 57.1 53.2 49.6 46.3		
130 135 140 144 ft point B 25 30 35 40 45 50 65 60 65 70 75 80 85 90 95 110 115 120 125 130	32.1 27.9 23 <b>Main I</b> 00m, HI 86 84.2 82.2 80.2 76.2 76.2 76.2 76.2 76.8 65.6 63.4 61.1 58.8 56.4 53.9 51.3 48.6 45.7 42.7 39.5 36	81 72 60 boom, I PT head 153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 120 116 111 106 100 93 86	48.0 45.2 42.7 <b>coad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 79.5 79.5 79.6 46.6 61.5 57.1 53.2 49.6 46.3 43.2		
130 135 140 144 ft point B 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125	32.1 27.9 23 <b>Main I</b> <b>com, H</b> 86 84.2 82.2 80.2 76.2 74.1 70 67.8 65.6 63.4 63.4 58.8 56.4 53.9 51.3 48.6 45.7 39.5	81 72 600m, I PT head 153 153 152 151 149 148 146 144 142 140 137 134 128 124 120 116 111 106 100 93	48.0 45.2 42.7 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 57.1 53.2 49.6 46.3		

125.7				
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]	
154 ft Main boom, Load fall point Boom, HPT head (2821-1)				
20	86	161	66.4	
25 30	84.2 82.4	160 160	437.5 360.6	
35	80.5	159	305.6	
40	78.6	158	256.5	
45 50	76.7 74.7	157 155	215.5 185.1	
55	72.8	154	161.7	
60	70.8	152	143.2 128.1	
65 70	68.8 66.8	150 148	115.6	
75	64.7	145	105.1	
80 85	62.6 60.5	142 140	96.1 88.3	
90	58.3	136	81.5	
95	56	133	75.5	
100 105	53.7 51.3	129 125	70.2 65.5	
110	48.9	121	61.2	
115 120	46.3 43.6	116 111	57.4 53.8	
125	40.7	105	50.6	
130	37.7	99	47.7	
135 140	34.4 30.8	91 83	45.0 42.4	
145	26.8			
	20.0	73	40.1	
150	22	62	37.9	
150 <b>154 ft</b>	22 <b>Main</b> 1	62 <b>boom, I</b>	37.9 oad fall	
150 <b>154 ft point B</b>	22 <b>Main</b> 1 <b>oom, H</b>	62 boom, I PT head	37.9  oad fall (2821-2)	
150 <b>154 ft point B</b> 26 30	22 <b>Main 1 oom, H</b> 86 84.6	62 boom, I PT head 163 163	37.9  Joad fall  (2821-2)  79.4  79.4	
150 154 ft point B 26 30 35 40	22 Main 1 oom, H. 86 84.6 82.7 80.9	62 boom, I PT head 163 163 162 161	37.9  load fall (2821-2)  79.4  79.4  79.4  79.4  79.4	
150 154 ft point B 26 30 35 40 45	22 Main 1 oom, H 86 84.6 82.7 80.9 79	62 boom, I PT head 163 163 162 161 159	37.9  load fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4	
150 154 ft point B 26 30 35 40	22 Main 1 oom, H. 86 84.6 82.7 80.9	62 boom, I PT head 163 163 162 161	37.9  load fall (2821-2)  79.4  79.4  79.4  79.4  79.4	
150 154 ft point B 26 30 35 40 45 50 55 60	86 84.6 82.7 80.9 79 77.1 75.2 73.2	62 boom, I PT head 163 163 162 161 159 158 156 155	37.9  .oad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B 26 30 35 40 45 50 55 60 65	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3	62 boom, I PT head 163 162 161 159 158 156 155 153	37.9  coad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B 26 30 35 40 45 50 55 60 65 70	86 84.6 82.7 80.9 77.1 75.2 73.2 71.3 69.3 67.3	62 boom, I PT head 163 162 161 159 158 156 155 153 151	37.9  coad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4	
150 154 ft point B 26 30 35 40 45 50 65 70 75 80	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 67.3 65.2	62 boom, I PT head 163 163 162 161 159 158 156 155 153 151 148	37.9  coad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B 26 30 35 40 45 50 55 60 65 70	86 84.6 82.7 80.9 77.1 75.2 73.2 71.3 69.3 67.3	62 boom, I PT head 163 162 161 159 158 156 155 153 151	37.9  coad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4	
150 154 ft point B 26 30 35 40 45 50 65 70 75 80 85 90 95	86 84.6 82.7 80.9 79 77.1 75.2 73.2 71.3 69.3 67.3 65.2 63.1 61 58.8	62 boom, I PT head  163 163 162 161 159 158 156 155 153 151 148 146 143 140 136	37.9  .oad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 85 90 95	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 65.2 63.1 61 58.8 56.6	163 163 163 163 162 161 159 158 155 153 151 148 146 143 140 136	37.9  coad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 95 100 105 110	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.3 65.3 65.4 58.8 56.6 54.2 51.8	62 boom, I PT head  163 163 162 161 159 158 156 155 151 148 146 143 140 136 133 129 125	37.9  coad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3	62  boom, I 163 163 163 165 159 158 155 153 151 148 146 143 140 136 133 129 125 120	37.9  coad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 95 100 105 110	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.3 65.3 65.4 58.8 56.6 54.2 51.8	62 boom, I PT head  163 163 162 161 159 158 156 155 151 148 146 143 140 136 133 129 125	37.9  .oad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 85 90 95 100 105 115 120 125 130	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.3 65.3 65.4 58.8 56.6 54.2 51.8 49.3 46.7 44	163 163 163 163 161 159 158 155 153 151 148 146 143 140 136 133 129 125 120 115 109	37.9  .oad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120 125 130 135	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.2 63.1 61 58.8 56.6 54.2 51.8 49.3 46.7	163 163 163 163 161 159 158 156 155 153 151 148 146 143 140 136 133 129 125 120 115 109 103 96	37.9  coad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	
150 154 ft point B  26 30 35 40 45 50 65 70 75 80 85 90 95 100 105 115 120 125 130	86 84.6 82.7 80.9 79 77.1 75.2 71.3 69.3 67.3 65.3 65.3 65.4 58.8 56.6 54.2 51.8 49.3 46.7 44	163 163 163 163 161 159 158 155 153 151 148 146 143 140 136 133 129 125 120 115 109	37.9  .oad fall (2821-2)  79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.	

,						
Radius [ft ]:	boom	Rope pulley	Load capacity			
	angle [°]:	height [ft]:	[1000 lbs			
164 ft point B						
21 25	86 84.6	171 170	475.6 436.6			
30	82.8	170	359.6			
35 40	81 79.3	169 168	304.6 256.3			
45	77.5	167	215.2			
50 55	75.7 73.8	165 164	184.8 161.4			
60	72	162	142.8			
65 70	70.1 68.3	160 158	127.7 115.2			
75	66.3	156	104.6			
80 85	64.4 62.4	154 151	95.6 87.8			
90	60.4	148	81.0			
95 100	58.4 56.2	145 142	75.1 69.7			
105	54.1	138	65.0			
110 115	51.9 49.6	134 130	60.7 56.9			
120	47.2	125	53.3			
125 130	44.7 42.1	120 114	50.1 47.2			
135	39.3	108	44.5			
140 145	36.4 33.2	102 94	42.0 39.6			
150	29.7	85	37.5			
155 160	25.8 21.1	75 63	35.4 33.5			
164 ft point B			oad fall l (2821-2)			
27	86	173	79.4			
30		1 172	70 4			
30 35	84.9 83.2	172 172	79.4 79.4			
35 40	84.9 83.2 81.4	172 171	79.4 79.4			
35 40 45 50	84.9 83.2 81.4 79.6 77.9	172 171 170 168	79.4 79.4 79.4 79.4			
35 40 45 50 55	84.9 83.2 81.4 79.6 77.9 76.1	172 171 170 168 167	79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5	172 171 170 168 167 165 163	79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6	172 171 170 168 167 165 163 161	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8	172 171 170 168 167 165 163 161 159	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9	172 171 170 168 167 165 163 161 159 157	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 85 90 95	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 60.9	172 171 170 168 167 165 163 161 159 157 154 151 148	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 85 90 95	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 60.9 58.9	172 171 170 168 167 165 163 161 159 157 154 151 148	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 60.9 58.9 56.8 54.6	172 171 170 168 167 165 163 161 159 157 154 151 148 145 145	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 58.9 56.8	172 171 170 168 167 165 163 161 159 157 154 151 148 145	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 90 95 100 105 110 115 120	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 60.9 56.8 54.6 52.3 50 47.6	172 171 170 168 167 163 161 159 157 154 151 148 145 142 138 133 129	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 60.9 58.9 56.8 54.6 52.3 50	172 171 170 168 167 165 163 161 159 157 154 151 148 145 142 138 133 129 124 119	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 90 95 100 105 110 115 120 125 130 135 140	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 60.9 58.9 56.8 54.6 45.1 42.4 39.6	172 171 170 168 167 163 161 159 157 154 151 148 145 142 138 133 129 124 119 113	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 85 90 95 100 115 110 115 120 125 130 135	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.8 64.9 62.9 56.8 54.6 52.3 50 47.6 45.1	172 171 170 168 167 165 163 161 159 157 154 154 151 148 145 142 138 133 129 124 119	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
35 40 45 50 55 60 65 70 75 80 95 100 105 110 115 120 125 130 135 140 145	84.9 83.2 81.4 79.6 77.9 76.1 74.3 72.5 70.6 68.7 66.8 64.9 62.9 60.9 58.9 56.8 54.6 52.3 47.6 45.1 42.4 39.6 36.6	172 171 170 168 167 165 163 161 159 157 154 151 148 145 138 133 129 124 119 113 106 99	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360° 2-wide track Foot print: Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
174 ft point B			oad fall l (2821-1)
22	86	181	448.5
25	84.9	180	436.3
30	83.2	180	359.3
35	81.6	179	304.3
40	79.9	178	256.2
45	78.2	177	215.0
50	76.5	176	184.6
55	74.8	174	161.1
60	73.1	173	142.6
65	71.3	171	127.5
70	69.6	169	114.9
75	67.8	167	104.4
80	66	165	95.4
85	64.1	162	87.6
90	62.3	160	80.8
95	60.4	157	74.8
100	58.4	154	69.5
105	56.4	150	64.8
110	54.4	146	60.5
115	52.3	143	56.6
120	50.2	138	53.1
125	47.9	134	49.9
130	45.6	129	47.0
135	43.2	124	44.3
140	40.7	118	41.8
145	38	111	39.5
150	35.2	104	37.3
155	32.1	96	35.3
160	29.5	90	33.4
165	25.7	79	31.8
170	21.4	67	30.1
174 ft point B			oad fall l (2821-2)

170	21.4	67	30.1		
174 ft Main boom, Load fall point Boom, HPT head (2821-2)					
28	86	183	79.4		
30	85.2	182	79.4		
35	83.5	182	79.4		
40	81.9	181	79.4		
45	80.2	180	79.4		
50	78.6	178	79.4		
55	76.9	177	79.4		
60	75.2	176	79.4		
65	73.5	174	79.4		
70	71.7	172	79.4		
75	70	170	79.4		
80	68.2	168	79.4		
85	66.4	165	79.4		
90	64.6	163	76.9		
95	62.7	160	70.8		
100	60.8	157	65.4		
105	58.9 56.9	154	60.6 56.2		
110 115	56.9 54.9	150 146	50.2 52.2		
120	52.8	140	48.7		
125	50.6	138	45.4		
130	48.3	133	43.4 42.4		
135	46	128	39.6		
140	43.6	120	37.0		
145	41	116	34.7		
150	38.9	111	32.7		
155	36	103	30.6		
160	32.9	95	28.6		
165	29.5	86	26.8		
170	25.5	75	25.0		
175	20.8	61	23.4		

Radius [ft ]:	boom angle	pulley	Load capacity [1000 lbs ]
4040	35	_	1 0 11

184 ft Main boom. Load fall

oint Boom, HPT head (2821-1)				
00	00	400	440.7	
22	86	190	419.7	
25	85.2	190	419.7	
30	83.6	190	358.4	
35 40	82 80.4	189	303.4	
45	78.8	188 187	255.7 214.7	
45 50	76.6 77.2	186	184.3	
55	75.6	184	160.8	
60	75.6	183	142.2	
65	74 72.4	181	127.0	
70	70.7	180	114.5	
75	69	178	103.9	
80	67.3	176	94.9	
85	65.6	173	87.1	
90	63.9	171	80.3	
95	62.1	168	74.3	
100	60.3	165	69.0	
105	58.5	162	64.3	
110	56.6	159	60.0	
115	54.7	155	56.1	
120	52.7	151	52.6	
125	50.7	147	49.4	
130	48.6	143	46.5	
135	46.5	138	43.8	
140 145	44.2 41.9	133 127	41.3 38.9	
150	39.4	121	36.8	
155	36.8	114	34.8	
160	34.7	109	33.1	
165	31.7	103	31.3	
170	28.5	92	29.6	
175	24.9	81	28.0	
180	20.6	68	26.5	

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

28	86	193	79.4
30	85.4	192	79.4
35	83.9	192	79.4
40	82.3	191	79.4
45	80.8	190	79.4
50	79.2	189	79.4
55	77.6	187	79.4
60	76	186	79.4
65	74.4	184	79.4
70	72.8	182	79.4
75	71.1	180	79.4
80	69.4	178	79.4
85	67.8	176	79.4
90	66.1	174	76.5
95	64.3	171	70.4
100	62.6	168	64.9
105	60.8	165	60.1

Radius	Main	Rope	Load
[ft ]:			capacity
	angle	height	1000 lbs
	[°]:	[ft ]:	]

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

110 115	58.9 57.1	162 158	55.7 51.8	
120	55.1	155	48.2	
125	53.1	151	44.9	
130	51.1	146	41.9	
135	49	142	39.1	
140	46.8	137	36.6	
145	44.6	131	34.2	
150	42.7	127	32.2	
155	40.3	120	30.1	
160	37.7	114	28.2	
165	34.9	106	26.4	
170	31.8	98	24.7	
175	28.5	88	23.0	
180	24.6	76	21.5	
185	20	62	20.0	

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

23	86	200	392.7
		200	
25	85.4	200	392.7
30	83.9	200	357.8
35	82.4	199	300.3
40	80.9	198	252.6
45	79.4	197	214.4
50	77.9	196	183.9
55	76.4	195	160.4
60	74.8	193	141.8
65	73.3	192	126.7
70	71.7	190	114.1
75	70.2	188	103.5
80	68.6	186	94.5
85	66.9	184	86.7
90	65.3	182	79.9
95	63.7	179	73.9
100	62	176	68.6
105	60.3	174	63.8
110	58.5	170	59.6
115	56.8	167	55.7
120	54.9	164	52.2
125	53.1	160	49.0
130	51.2	156	46.0
135	49.2	151	43.3
140	47.2	147	40.8
145	45.1	142	38.5
150	42.9	136	36.4
155	40.7	131	34.4
160	38.8	126	32.7
165	36.3	119	30.9
170	33.6	111	29.2
175	30.8	103	27.7
180	27.6	94	26.2
185	24.1	83	24.8
190	19.9	70	23.5
130	19.9	70	20.0



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle	Rope pulley height	Load capacity [1000 lbs			
194 ft point B	[°]: [ft]: ]					
00	00	000	70.4			
29 30	86 85.7	202 202	79.4 79.4			
35	84.2	202	79.4			
40 45	82.7 81.2	201 200	79.4 79.4			
50	79.7	199	79.4			
55 60	78.2 76.7	198 196	79.4 79.4			
65	75.2	195	79.4			
70 75	73.7	193 191	79.4 79.4			
75 80	72.1 70.5	189	79.4			
85	69	187	79.4			
90 95	67.4 65.7	185 182	76.1 70.0			
100	64.1	180	64.6			
105 110	62.4 60.7	177 174	59.7 55.3			
115	59	170	51.4			
120	57.2 55.4	167	47.8			
125 130	53.4 53.5	163 159	44.5 41.5			
135	51.6	155	38.7			
140 145	49.6 47.6	150 146	36.2 33.8			
150	45.9	142	31.8			
155 160	43.7 41.5	136 130	29.8 27.8			
165	39.1	124	26.0			
170	36.5	116	24.3			
175 180	33.8 30.8	108 100	22.7 21.2			
185	27.5	90	19.7			
190 195	23.8 19.2	78 63	18.3 17.0			
203 ft	Main 1		oad fall			
			l (2821-1)			
		040	222.2			
24 25	86 85.6	210 210	363.6 363.6			
30	84.2	209	344.3			
35 40	82.8 81.4	209 208	296.4 249.5			
45	79.9	207	214.2			
50	78.5	206	183.6			
55 60	77 75.6	205 204	160.1 141.4			
65	74.1	202	126.2			
70 75	72.6 71.2	200 199	113.7 103.1			
80	69.7	197	94.0			
85 90	68.1 66.6	195 192	86.2 79.4			
95	65	192	73.4			
100	63.5	188	68.1			
105 110	61.9 60.2	185 182	63.3 59.0			
115	58.6	179	55.1			
120	56.9	176	51.6			

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
203 ft point B			oad fall l (2821-1)
125	55.2	172	48.4
130	53.4	168	45.5
135	51.6	164	42.8
140	49.8	160	40.3
145	47.9	156	38.0
150	45.9	151	35.8
155	43.8	146	33.8
160	42.2	141	32.1
165	40	135	30.4
170	37.7	129	28.7
175	35.3	122	27.2
180	32.7	114	25.7
185	29.9	105	24.3
190	26.8	96	23.0
195	23.3	84	21.7
200	19.2	71	20.5
	Main l oom, H		oad fall l (2821-2)
30 30 35 40 45	86 85.9 84.5 83.1 81.7	212 212 212 212 211 210	79.4 79.4 79.4 79.4 79.4
50	80.2	209	79.4
55	78.8	208	79.4
60	77.4	206	79.4
65	75.9	205	79.4
70	74.5	203	79.4
75	73	202	79.4
80	71.5	200	79.4
85	70	198	79.4
90	68.5	196	75.6
95	67	193	69.5
100	65.5	191	64.1
105	63.9	188	59.2
110	62.3	185	54.8
115	60.6	182	50.9
120	59	179	47.3
125	57.3	176	44.0
130	55.6	172	41.0
135	53.8	168	38.2
140	52	164	35.7
145	50.5	160	33.4
150	48.6	156	31.3
155	46.7	151	29.3
160	44.6	145	27.3
165	42.5	140	25.5
170 175 180 185 190 195	40.3 37.9 35.5 32.8 29.9	133 126 119 111 102	23.8 22.2 20.7 19.3 17.9
200	26.7	91	16.6
	23	79	15.4

Radius	Main	Rope	Load
[ft ]:	boom		capacity
Lio J.	angle [°]:		[1000 lbs
213 ft point B			oad fall l (2821-1)
24	86	220	66.4
25	85.8	220	337.2
30	84.5	219	328.2
35	83.1	219	292.6
40	81.8	218	246.6
45	80.4	217	212.2
50	79	216	183.3
55	77.7	215	159.8
60	76.3	214	141.1
65	74.9	212	125.9
70	73.5 72.1	211	113.3
75	70.6	209	102.7
80		207	93.7
85	69.2	205	85.9
90	67.7	203	79.1
95	66.3	201	73.1
100	64.8	199	67.7
105	63.3	196	63.0
110	61.7	193	58.7
115	60.2	190	54.8
120	58.6	187	51.3
125	57	184	48.1
130	55.4	181	45.2
135	53.7 52	177 173	42.5
140 145	50.2	169	40.0 37.7
150	48.4	164	35.5
155	46.6	160	33.5
160	45.1	156	31.8
165	43.1	150	30.1
170	41.1	145	28.4
175	38.9	138	26.9
180	36.7	132	25.4
185	34.3	124	24.0
190	31.8	116	22.7
195	29	108	21.5
200	26	98	20.3
205	22.6	86	19.1
210	18.6	72	18.1
			oad fall l (2821-2)
point B	oom, n		
30	86	222	79.4
35	84.7	221	79.4
40	83.4	221	79.4
45	82	220	79.4
50	80.7	219	79.4
55	79.3	218	79.4
60	78	216	79.4
65	76.6	215	79.4
70	75.2	214	79.4
75	73.8	212	79.4
80	72.4	210	79.4
85	71	208	79.4
90	69.6	206	75.3
95	68.1	204	69.2
100	66.7	202	63.8
105	65.2	199	58.9
110	63.7	197	54.5
115	62.1	194	50.6
120	60.6	191	47.0
125	59	188	43.7
130	57.4	184	40.7



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle		Load capacity [1000 lbs
			] oad fall l (2821-2)
140	54.1	176	35.4
145	52.7	173	33.2
150 155 160 165 170	49.2 47.3 45.4 43.4	169 164 160 154 149	31.0 29.0 27.1 25.3 23.6
175 180 185 190 195	39.2 36.9 34.5 31.9	143 136 129 122 113	22.0 20.5 19.0 17.7 16.4
200	29	104	15.2
205	25.9	93	14.0
210	22.3	80	12.9
215	17.9	64	11.7
223 ft	Main l	boom, I	oad fall l (2821-1)
25 30 35 40 45 50 55 60 65 70	86 84.7 83.4 82.1 80.8 79.5 76.9 75.6 74.2 72.9 71.5	230 229 229 228 227 226 225 224 222 221 220 218	66.4 311.2 288.8 243.5 209.7 183.0 159.4 140.7 125.5 112.9 102.3 93.2
85	70.2	216	85.4
90	68.8	214	78.6
95	67.4	212	72.5
100	66	210	67.2
105	64.6	207	62.4
110	63.1	205	58.2
115	61.6	202	54.3
120	60.2	199	50.8
125	58.7	196	47.6
130	57.1	193	44.6
135	55.6	189	41.9
140	54	186	39.4
145	52.3	182	37.1
150	50.7	178	35.0
155	49.3	174	33.1
160	47.6	170	31.3
165	45.8	165	29.5
170	44	160	27.9
175	42	154	26.3
180	40	148	24.9
185	38	142	23.5
190	35.8	135	22.2
195	33.4	127	20.9
200	31	119	19.8
205	28.3	110	18.6
210	25.3	99	17.6
215	22	87	16.5
220	18	73	15.5

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
223 ft point B			oad fall l (2821-2)
31 35	86 85	232 231	79.4 79.4
40	83.7	231	79.4
45 50	82.4 81.1	230 229	79.4 79.4
55	79.8	228	79.4
60 65	78.5 77.2	227 225	79.4 79.4
70	75.9	224	79.4
75 80	74.5 73.2	222 221	79.4 79.4
85	71.9	219	79.4
90 95	70.5 69.1	217 215	74.9 68.7
100 105	67.8 66.4	213 210	63.3 58.4
110	64.9	208	54.1
115 120	63.5 62	205 202	50.1 46.5
125	60.5	199	43.2
130 135	59 57.5	196 192	40.2 37.4
140	55.9	189	34.9
145 150	54.7 53	186 182	32.7 30.5
155	51.4	178	28.5
160 165	49.7 47.9	173 168	26.5 24.7
170	46.1	163	23.1
175 180	44.3 42.3	158 152	21.5 20.0
185 190	40.3 38.2	146 139	18.5 17.2
195	35.9	132	15.9
200 205	33.6 31	124 115	14.7 13.5
210	28.2	106	12.4
215 220	25.1 21.6	95 82	11.4 10.3
225	17.2	65	9.3
			oad fall l (2821-1)
26	86	240	66.4
30 35	85 83.7	239 238	294.7 277.8
40	82.5	238	240.5
<u>45</u> 50	81.2 80	237 236	207.1 181.2
55 60	78.7 77.5	235 234	159.0 140.3
65	76.2	234	125.1
70 75	74.9 73.6	231 230	112.5 101.8
80	72.3	228	92.8
85 90	71 69.7	226 225	84.9 78.1
95	68.4	223	72.1
100 105	67.1 65.7	220 218	66.7 62.0
110	64.3	216	57.7
115 120	63 61.6	213 210	53.8 50.3
125	60.1	208	47.1
130 135	58.7 57.2	204 201	44.1 41.4
140	55.7	198	38.9

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
			22.2
145 150	54.2 52.7	194 190	36.6 34.5
155	51.4	187	32.7
160 165	49.8 48.2	183 178	30.8 29.0
170	46.5	174	27.4
175 180	44.7 42.9	168 163	25.9 24.4
185	41	157	23.0
190 195	39.1 37	151 145	21.7 20.5
200	34.9	137	19.3
205 210	32.6 30.2	130 121	18.2 17.1
215	27.6	112	16.1
220	24.7 21.4	101	15.1
225		89	14.2
			oad fall l (2821-2)
point 2	00III, II	I I IICUC	(2021-2)
32	86	242	79.4
35	85.2	241	79.4
40 45	83.9 82.7	241 240	79.4 79.4
50	81.5	239	79.4
55 60	80.2 79	238 237	79.4 79.4
65	77.7	236	79.4
70 75	76.5 75.2	234 233	79.4 79.4
80	73.9	231	79.4
85 90	72.7 71.4	229 228	79.3 74.5
95	70	226	68.3
100 105	68.8 67.4	223 221	62.9 58.0
110	66.1	219	53.6
115 120	64.7 63.3	216	49.7 46.1
125	61.9	214 211	42.8
130 135	60.5 59	208 204	39.8 37.0
140	57.6	201	34.4
145 150	56.4 54.9	198 194	32.3 30.1
150 155	53.3	191	28.0
160 165	51.8 50.1	186 182	26.1 24.3
170	48.5	177	22.6
175 180	46.8 45	172 167	21.0 19.5
185	43.2	162	18.1
190	41.3	156	16.8 15.5
195 200	39.3 37.2	149 142	15.5 14.3
205	35	135	13.1
210 215	32.7 30.2	127 118	12.0 11.0
220	27.5	108	10.0
225 230	24.5 21	96 83	9.0 8.1
235	16.7	66	7.1



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360° 2-wide track Foot print: Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
243 ft point B			oad fall l (2821-1)
26	86	249	273.2
30 35	85.2 84	249 248	273.2 261.0
40	82.8	248	237.5
45 50	81.6 80.4	247 246	204.6 179.0
55	79.2	245	158.6
60	78	244	139.9
65 70	76.8 75.5	243 242	124.6 112.0
75	74.3	240	101.4
80	73.1	239	92.3
85 90	71.8 70.6	237 235	84.4 77.6
95	69.3	233	71.6
100 105	68 66.8	231 229	66.2 61.4
110	65.5	227	57.1
115	64.1	224	53.3
120 125	62.8 61.5	222 219	49.7 46.5
130	60.1	216	43.6
135 140	58.7	213 210	40.9 38.4
140	57.3 55.9	206	36.4 36.1
150	54.4	203	33.9
155 160	53.3 51.8	200 196	32.1 30.2
165	50.2	192	28.5
170 175	48.7 47	187 182	26.8
180	47 45.4	178	25.3 23.8
185	43.7	172	22.4
190 195	41.9 40.1	167 161	21.1 19.9
200	38.2	154	18.7
205 210	36.2 34.1	148 140	17.6 16.6
215	31.8	132	15.6
220	29.5	123	14.6
225 230	26.9 24	114 103	13.7 12.8
235	20.8	90	11.9
	oom, H	PT head	oad fall l (2821-2)
32 35	86 85.4	252 251	79.4 79.4
40	84.2	250	79.4
45 50	83	250	79.4
50 55	81.8 80.6	249 248	79.4 79.4
60	79.4	247	79.4
65 70	78.2 77	246 244	79.4 79.4
75	75.8	243	79.4
80	74.6	241	79.4
85 90	73.4 72.1	240 238	79.4 74.0
95	70.9	236	67.8
100 105	69.7 68.4	234 232	62.4 57.5
110	67.1	232	57.5
115	65.8	227	49.2
120 125	64.5 63.2	225 222	45.5 42.3
			12.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
243 ft point B			oad fall l (2821-2)
135	60.5	216	36.5
140	59.1	213	33.9
145	58	210	31.8
150	56.5	207	29.5
155	55.1	203	27.5
160	53.6	199	25.6
165	52.1	195	23.8
170	50.5	191	22.1
175	49	186	20.5
180	47.3	181	19.0
185	45.7	176	17.6
190	43.9	171	16.2
195	42.2	165	15.0
200	40.3	159	13.8
205	38.4	152	12.6
210	36.3	145	11.5
215	34.2	137	10.5
220	31.9	129	9.5
225	29.5	120	8.5
230	26.8	109	7.6
235	23.8	98	6.7
240	20.4	84	5.8
245	16.1	66	4.9
253 ft point B			oad fall l (2821-1)
27	86	259	257.6
30	85.3	259	257.6
35	84.2	258	252.9
40 45 50	83.1 81.9 80.8	258 258 257 256	234.5 202.2 176.9
55	79.6	255	156.7
60	78.5	254	139.5
65	77.3	253	124.3
70	76.1	252	111.6
75	74.9	250	101.0
80	73.8	249	91.9
85	72.6	247	84.1
90	71.4	246	77.2
95	70.2	244	71.2
100	68.9	242	65.8
105	67.7	240	61.1
110	66.5	238	56.8
115	65.2	235	52.9
120	64	233	49.4
125	62.7	230	46.1
130	61.4	227	43.2
135	60.1	224	40.5
140	58.7	221	38.0
145	57.4	218	35.7
150	56	215	33.5
155	54.9	212	31.7
160	53.5	208	29.8
165	52.1	204	28.1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
170	50.6	200	26.4
175	49.1	196	24.9
180 185	47.6 46	191 186	23.4 22.1
190	44.4	181	20.8
195 200	42.7 41	176 170	19.6 18.4
205	39.2	164	17.3
210	37.3	157	16.2
215 220	35.3 33.3	150 143	15.2 14.3
225	31.1	135	13.3
230 235	28.8 26.2	126 116	12.5 11.6
240	23.4	104	10.8
245	20.3	91	10.0
253 ft			oad fall
point B	oom, H	PT head	l (2821-2)
33	86	261	79.4
35 40	85.5 84.4	261 260	79.4 79.4
45	83.3	260	79.4
50 55	82.1 81	259 258	79.4 79.4
60	79.9	257	79.4
65 70	78.7 77.6	256 254	79.4 79.4
70 75	77.6 76.4	253	79.4 79.4
80	75.2	252	79.4
85 90	74 72.9	250 248	79.4 73.6
95	71.7	247	67.5
100 105	70.5 69.3	245 243	62.1 57.2
110	68.1	240	52.8
115	66.8	238	48.8
120 125	65.6 64.3	236 233	45.2 41.9
130	63	230	38.9
135 140	61.7 60.4	228 225	36.1 33.5
145	59.4	222	31.4
150 155	58 56.6	219 215	29.2 27.1
160	55.3	212	25.2
165	53.8	208 204	23.4 21.7
170 175	52.4 50.9	199	20.1
180	49.4	195	18.6
185 190	47.9 46.3	190 185	17.2 15.9
195	44.6	180	14.6
200 205	42.9 41.2	174 168	13.4 12.3
210	39.4	162	11.2
215 220	37.5 35.5	155 148	10.2 9.2
220 225	35.5 33.4	140	9.2 8.2
230	31.2	131	7.3
235 240	28.7 26.1	122 111	6.4 5.6
245	23.2	99	4.7
250	19.8	85	3.9



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 207.2 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle	Rope pulley height	Load capacity [1000 lbs
	[°]:	[ft ]:	]
			oad fall
point B	oom, H	PT nead	l (2821-1)
28	86	269	239.9
30 35	85.5 84.4	269 268	239.9 237.6
35 40	83.3	268	237.6
45	82.2	267	199.7
50	81.1	266	174.8
55 60	80 78.9	265 264	154.8 138.4
65	77.8	263	123.9
70	76.7	262	111.2
75	75.5	261	100.5
80 85	74.4 73.2	259 258	91.4 83.6
90	72.1	256	76.7
95	70.9	254	70.7
100 105	69.8 68.6	252 250	65.3 60.5
110	67.4	248	56.2
115	66.2	246	52.3
120	65	244	48.8
125 130	63.8 62.6	241 239	45.6 42.6
135	61.3	236	39.9
140	60.1	233	37.4
145	58.8	230	35.1
150 155	57.8 56.4	227 224	33.2 31.1
160	55.1	220	29.3
165	53.8	217	27.5
170	52.4	213	25.9
175 180	51 49.5	209 205	24.3 22.9
185	48.1	200	21.5
190	46.6	195	20.2
195 200	45 43.4	190 185	19.0 17.8
205	41.8	179	16.7
210	40.1	173	15.7
215	38.3	167	14.7
220 225	36.5 34.6	160 153	13.7 12.8
230	32.6	145	11.9
235	30.4	137	11.1
240 245	28.1 25.6	128 117	10.3 9.5
250	22.9	106	8.7
255	19.8	92	8.0
262 ft point B			oad fall l (2821-2)
34	86	271	79.4
35	85.7	271	79.4
40	84.6	270	79.4
45 50	83.5 82.4	270 269	79.4 79.4
55	81.3	268	79.4
60	80.2	267	79.4
65	79.1	266	79.4
70 75	78 76.0	265	79.4
75 80	76.9 75.8	263 262	79.4 79.4
85	74.7	260	79.4
90	73.5	259	73.2
95	72.4	257 255	67.0 61.6
100			
100 105	71.3 70.1	253	56.7

125	.7				
Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]		
262 ft Main boom, Load fall point Boom, HPT head (2821-2)					
115 120	67.7 66.6	249 247	48.3 44.7		
125	65.3	244	41.4		
130 135	64.1 62.9	242 239	38.4 35.6		
140	61.9	237	33.2		
145 150	60.6 59.4	234 230	30.9 28.7		
155	58.1	227	26.6		
160 165	56.8 55.4	224 220	24.7 22.9		
170	54.1	216	21.2		
175	52.7	212	19.6		
180 185	51.3 49.8	208 204	18.1 16.7		
190	48.3	199	15.4		
195 200	46.8 45.3	194 189	14.1 12.9		
205	43.7	183	11.8		
210 215	42 40.3	178 172	10.7 9.6		
220	38.5	165	8.6		
225	36.7 34.7	158	7.7		
230	34.7	150	6.8		
	-	142	5.9		
235 240	32.6 30.4	142 133	5.9 5.1		
235 240 245	32.6 30.4 28.1	133 124	5.1 4.3		
235 240 245 250 255	32.6 30.4 28.1 25.5 22.6	133 124 113 100	5.1 4.3 3.5 2.7		
235 240 245 250 255 <b>272 ft</b> point B	32.6 30.4 28.1 25.5 22.6 <b>Main</b> l	133 124 113 100 boom, I PT head	5.1 4.3 3.5 2.7 Load fall		
235 240 245 250 255 <b>272 ft</b>	32.6 30.4 28.1 25.5 22.6	133 124 113 100 boom, I	5.1 4.3 3.5 2.7		
235 240 245 250 255 <b>272 ft</b> <b>point B</b>	32.6 30.4 28.1 25.5 22.6 <b>Main 1</b> <b>oom, H</b>	133 124 113 100 boom, I PT head 279 279 279 278	5.1 4.3 3.5 2.7 aoad fall (2821-1) 222.0 222.0 221.2		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40	32.6 30.4 28.1 25.5 22.6 <b>Main 1</b> <b>oom, H</b> 86 85.7 84.6 83.6	133 124 113 100 boom, I PT head 279 279 278 278	5.1 4.3 3.5 2.7 <b>Joad fall</b> ( <b>2821-1</b> ) 222.0 222.0 221.2 219.0		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4	133 124 113 100 boom, I PT head 279 279 278 278 277 276	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50	32.6 30.4 28.1 25.5 22.6 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4	133 124 113 100 boom, I PT head 279 279 278 278 278 277 276 275	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6 152.9		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 60 65	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>300m, H</b> <b>86</b> 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2	133 124 113 100 boom, I PT head 279 279 278 278 277 276 275 274 273	5.1 4.3 3.5 2.7 <b>.oad fall</b> ( <b>2821-1</b> ) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 65 70	32.6 30.4 28.1 25.5 22.6 <b>Main</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1	133 124 113 100 boom, I PT head 279 279 278 278 277 276 275 274 273 273 272	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 66 65 70 75 80	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269	5.1 4.3 3.5 2.7 <b>.oad fall</b> 1 (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0		
235 240 245 250 255 272 ft point B 28 30 35 40 45 50 55 60 65 70 75 80 85	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>soom, H</b> <b>s</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1		
235 240 245 250 255 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 66 65 70 75 80	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269	5.1 4.3 3.5 2.7 <b>.oad fall</b> 1 (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0		
235 240 245 250 255 272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>com, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 268 265 263	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105	32.6 30.4 28.1 25.5 22.6 <b>Main</b> 1 <b>oom, H</b> . 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2		
235 240 245 250 255 272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1	133 124 113 100 boom, I PT head 279 279 278 278 277 276 275 274 273 272 271 269 268 265 263 261 259	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 115 120	32.6 30.4 28.1 25.5 22.6 <b>Main</b> l <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 268 266 265 263 261 259	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125 130	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66.4 64.8 63.6	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 268 266 265 263 261 259 257 252 252	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257 255 255 250 247	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1 39.4		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 115 110 125 130 135 140 145	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60	133 124 113 100 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244 241	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1 39.4 36.9 34.6		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 110 115 120 125 130 135 140 145 150	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 66.6 62.5 61.3 60.0 59.1	133 124 113 100 boom, I PT head 279 278 278 278 277 276 275 274 273 272 271 268 266 265 263 261 259 257 259 257 259 269 269 269 269 269 269 269 269 269 26	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1 39.4 36.9 34.6 32.7		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 110 115 120 125 130 135 140 145 155 160	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 59.1 57.8	133 124 113 100 boom, I PT head  279 279 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244 241 239 236 232	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1 39.4 36.9 34.6 32.7 30.6 28.8		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 115 120 125 130 135 140 150 155 160 165	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 77.7 70.5 69.4 68.3 67.1 66.4 62.5 61.5 61.5 62.5 61.5 63.6 62.5	133 124 113 100 boom, I PT head 279 278 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244 241 239 236 232 229	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1 39.4 30.6 32.7 30.6 28.8 27.0		
235 240 245 250 255  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 110 115 120 125 130 135 140 145 155 160	32.6 30.4 28.1 25.5 22.6 <b>Main I</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 59.1 57.8	133 124 113 100 boom, I PT head  279 279 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244 241 239 236 232	5.1 4.3 3.5 2.7 Joad fall (2821-1) 222.0 221.2 219.0 197.1 172.6 152.9 136.7 123.1 110.8 100.1 91.0 83.1 76.2 70.2 64.8 60.0 55.7 51.8 48.3 45.1 42.1 39.4 36.9 34.6 32.7 30.6 28.8		

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
190 195	48.5 47.1	209 204	19.7 18.5
200	45.6	199	18.5 17.3
205 210	44.1 42.5	194 189	16.2 15.2
215	40.9	183	14.2
220 225	39.3 37.5	177 170	13.2 12.3
230 235	35.7 33.9	163 156	11.4 10.6
240	31.9	148	9.8
245 250	29.8 27.5	139 130	9.0 8.3
255	25.1	119	7.5
260 265	22.4 19.3	107 94	6.8 6.2
282 ft	Main l	boom, I	oad fall
point B			l (2821-1)
29 30	86 85.8	289 289	205.3 205.3
35	84.8	288	204.8 202.9
40 45	83.8 82.8	288 287	202.9 194.6
50 55	81.7 80.7	286 285	170.4 150.9
60	79.7	284	134.9
65 70	78.6 77.6	283 282	121.5 110.1
75	76.6	281	99.6
80 85	75.5 74.5	280 278	90.5 82.6
90 95	73.4	277 275	75.7
100	72.3 71.3	273	69.7 64.3
105 110	70.2 69.1	272 270	59.5 55.2
115	68	268	51.3
120 125	66.9 65.8	265 263	47.8 44.5
130	64.6	261	41.6
135 140	63.5 62.4	258 256	38.9 36.4
145	61.2 60.3	253 250	34.0 32.1
150		248	30.1
150 155	59.1		
155 160	57.9	244 241	28.2 26.4
155 160 165 170	57.9 56.7 55.4	244 241 238	28.2 26.4 24.8
155 160 165	57.9 56.7 55.4 54.2 52.9	244 241 238 234 230	28.2 26.4
155 160 165 170 175	57.9 56.7 55.4 54.2	244 241 238 234	28.2 26.4 24.8 23.2



Version: 9839979/59979/ HPT foot: 2821-1 360°

> 207.2 125.7

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]:

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
200 205 210 215 220 225 230	47.5 46.1 44.7 43.2 41.7 40.1 38.5	213 208 203 198 192 186 180	16.7 15.6 14.6 13.6 12.6 11.7 10.8
235 240 245 250	36.8 35 33.2 31.2	173 166 158	10.0 9.2 8.4
255 260 265 270	29.1 26.9 24.5 21.9	130 141 132 121 109	7.7 7.0 6.3 5.6 5.0
275	18.8	95	4.3

292	ft	Mai	n	boo	m,	Lo	ad	fall	ιI
point	В	om,	H	PТ	hea	ıd (	(28	21-1	L)

ропп в	00m, H	PT nead	(2821-1)
30	86	298	66.4
30	86	298	191.3
35	85	298	191.3
40	84	297	189.5
45	83	297	188.2
50	82	296	168.3
55	81	295	149.0
60	80	294	133.2
65	79	293	119.9
70	78	292	108.7
75	77	291	99.0
80	76	290	90.1
85	75	288	82.2
90	74	287	75.3
95	72.9	285	69.3
100	71.9	284	63.9
105	70.9	282	59.1
110	69.8	280	54.8
115	68.8	278	50.9
120 125	67.7	276	47.3 44.1
130	66.6 65.6	274 272	44.1
135	64.5	269	38.4
140	63.4	269	35.4 35.9
140	62.3	264	33.6
150	61.4	262	31.7
155	60.2	259	29.6
160	59.1	256	27.8
165	57.9	253	26.0
170	56.8	250	24.4
175	55.6	246	22.8
180	54.4	242	21.4
185	53.1	239	20.0
190	51.9	235	18.7
195	50.6	231	17.5
200	49.3	226	16.3
205	48	222	15.2

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-1)
210	46.6	217	14.2
215 220	45.3 43.8	212 207	13.2 12.2
225	42.4	201	11.3
230	40.9	196	10.4
235	39.3	190	9.6
240	37.7	183	8.8
245	36.1	176	8.0
250	34.3	169	7.3
255 260	32.5 30.6	161 153	6.6 5.9
265	28.6	144	5.9
270	26.4	134	4.6
275	24	123	4.0
280	21.4	110	3.4
285	18.4	96	2.8



Version: 9839979/59979/ Degree rating: Foot print: Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]:

360° 2-wide track 163.1

HPT foot: 2821-1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
66 ft point B	66 ft Main boom, Load fall point Boom, HPT head (2821-1)					
35	66.8	66	224.7			
40 45	61.9 56.6	63 60	182.5 152.9			
50	50.9	56	130.9			
<u>55</u> 60	44.7 37.5	51 44	113.9 100.4			
65	28.7	36	89.3			
		oom, L				
point B	oom, H	PT head	l (2821-2)			
30	77.3	72	79.4			
35 40	72.8 68	70 67	79.4 79.4			
45	63.1	64	79.4			
50	57.9	60	79.4			
55 60	52.2 45.8	55 50	79.4 79.4			
65	38.4	42	79.4			
70	28.7	32	76.3			
76 ft		oom, L	oad fall l (2821-1)			
oint p	oom, n	ri nead	1 (2821-1)			
30	73.8	79	66.4			
35 40	70.1 65.9	77 75	225.2 182.9			
45	61.5	72	153.3			
50	57	69	131.4			
55 60	52.1 46.9	65 60	114.4 101.0			
65	41.1	54	90.0			
70 75	34.5 26.2	47 37	80.8 73.0			
76 ft	Main b	oom, L				
25	82.7	84	79.4			
		82	79.4			
30 35	78.9 75.1	80	79.4			
30 35 40	75.1 71.1	78	79.4			
30 35 40 45	75.1 71.1 66.9	78 75	79.4 79.4			
30 35 40	75.1 71.1	78	79.4			
30 35 40 45 50 55 60	75.1 71.1 66.9 62.6 58.1 53.2	78 75 72 68 64	79.4 79.4 79.4 79.4 79.4			
30 35 40 45 50 55 60 65	75.1 71.1 66.9 62.6 58.1 53.2 47.9	78 75 72 68 64 59	79.4 79.4 79.4 79.4 79.4 79.4			
30 35 40 45 50 55 60 65 70	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42	78 75 72 68 64 59 52	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2			
30 35 40 45 50 55 60 65 70 75 80	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8	78 75 72 68 64 59 52 44 33	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2			
30 35 40 45 50 55 60 65 70 75 80	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8	78 75 72 68 64 59 52 44 33	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> point <b>B</b>	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main l:</b>	78 75 72 68 64 59 52 44 33 600m, LePT head	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall (2821-1)			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> point <b>B</b>	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main I:</b> <b>oom, H</b>	78 75 72 68 64 59 52 44 33 000m, L PT head	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall (2821-1)			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> point <b>B</b>	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main l:</b>	78 75 72 68 64 59 52 44 33 600m, LePT head	79.4 79.4 79.4 79.4 79.4 79.2 69.2 62.2 oad fall (2821-1)			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> point <b>B</b>	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main I:</b> <b>oom, H</b>	78 75 72 68 64 59 52 44 33 000m, L PT head	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall (2821-1) 290.6 225.3 182.9 153.3 131.3			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> point <b>B</b> 30 35 40 45 50 55	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main l:</b> 00m, <b>H</b>	78 75 72 68 64 59 52 44 33 000m, L PT head 89 88 86 83 80 77	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall (2821-1) 290.6 225.3 182.9 153.3 131.3			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> <b>point B</b>	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main b</b> <b>oom, H</b>	78 75 72 68 64 59 52 44 33 000m, L PT head 89 88 86 83 80 77 73 69	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall (2821-1) 290.6 225.3 182.9 153.3 131.3			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> point B	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main I:</b> oom, <b>H</b> 76 72.5 68.9 65.1 61.3 57.3 53.1 48.5 43.7	78 75 72 68 64 59 52 44 33 000m, L PT head 89 88 86 83 80 77 73 69 64	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.2 69.2 62.2  coad fall (2821-1)  290.6 225.3 182.9 153.3 131.3 114.4 100.9 89.9 80.8			
30 35 40 45 50 55 60 65 70 75 80 <b>85 ft</b> <b>point B</b>	75.1 71.1 66.9 62.6 58.1 53.2 47.9 42 35 25.8 <b>Main b</b> <b>oom, H</b>	78 75 72 68 64 59 52 44 33 000m, L PT head 89 88 86 83 80 77 73 69	79.4 79.4 79.4 79.4 79.4 79.4 77.2 69.2 62.2 oad fall (2821-1) 290.6 225.3 182.9 153.3 131.3 114.4 100.9 89.9			

163 0	.0		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
85 ft	Main b		oad fall
point B	oom, H		l (2821-2)
25	83.6	94	79.4
30	80.2	92	79.4
35	76.8	91	79.4
40	73.3	89	79.4
45	69.8	86	79.4
50 55 60 65 70	66.1 62.3 58.3 54 49.5	84 81 77 73 68	79.4 79.4 79.4 79.4 79.4 77.3
75	44.5	62	69.4
80	38.8	55	62.5
85	32.3	46	56.6
90	23.4	34	51.2
		oom, Le PT head	oad fall l (2821-1)
30	77.5	100	291.0
35	74.4	98	225.6
40	71.2	96	183.3
45	67.9	94	153.6
50	64.6	92	131.6
55	61.1	89	114.7
60	57.5	86	101.3
65	53.8	82	90.3
70	49.8	78	81.2
75	45.6	73	73.6
80	41	67	67.0
85	35.9	60	61.2
90	29.9	52	56.2
95	22.5	40	51.7
95 ft	Main b		oad fall
point B	oom, H		l (2821-2)
25	84.2	104	79.4
30	81.2	102	79.4
35	78.2	101	79.4
40	75.1	99	79.4
45	72	97	79.4
50	68.7	95	79.4
55	65.4	92	79.4
60	62	89	79.4
65	58.4	86	79.4
70	54.6	82	77.7
75	50.6	77	69.8
80	46.3	71	63.1
85	41.5	65	57.2
90	36.2	57	52.0
95	30	48	47.4
100	21.5	34	43.1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
105 ft point B			oad fall l (2821-1)
30 35 40 45 50	78.7 75.9 73 70.1 67.1	110 108 107 105 103	291.2 225.6 183.2 153.4 131.4
55 60 65 70 75	64.1 60.9 57.7 54.3 50.8	100 97 94 90 86	114.5 101.0 90.1 81.0 73.3
80 85 90 95 100	47 43 38.7 33.8 28.2	82 76 70 63 54	66.7 61.0 56.0 51.6 47.7
105 <b>105 ft</b>	22.7 <b>Main</b> 1	44 boom, I	33.4 oad fall l (2821-2)
23 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	86 84.8 82.1 79.3 76.5 73.7 70.8 67.9 64.9 61.7 58.5 55.1 51.5 47.7 43.6 39.1 34.1 27.9 19.8	114 114 113 111 110 108 106 103 101 98 94 90 86 80 75 68 60 49 35	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
115 ft	Main	boom, I	oad fall l (2821-1)
25 30 35 40 45 50	82.2 79.7 77.1 74.5 71.9 69.2	121 120 118 117 115	388.7 291.2 225.6 183.1 153.3 131.3
55 60 65 70 75	66.5 63.7 60.8 57.9	111 109 106 103 99	114.3 100.9 89.9 80.8 73.1
80 85 90 95 100	51.6 48.2 44.7 40.9 36.7	95 90 85 80 73	66.6 60.9 55.9 51.5 47.6
105 110 115	32 26.6 21.4	65 55 46	44.1 40.9 33.4



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 163.1 Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall
point B	oom, H	PT head	l (2821-2)
23	86	124	79.4
25	85.2	124	79.4
30	82.7	123	79.4
35	80.2	122	79.4
40	77.7	120	79.4
45 50	75.1 72.5	118 116	79.4 79.4
50 55	69.9	114	79.4 79.4
60	67.2	112	79.4
65	64.4	109	79.4
70	61.5	106	77.3
75	58.6	103	69.5
80	55.5	99	62.8
85	52.3	94	56.9
90 95	48.9 45.2	90 84	51.8 47.3
100	41.3	78	43.3
105	37.1	70	39.7
110	32.2	62	36.4
115	27.8	54	33.4
120	20.4	39	30.7
125 ft	Main l	hoom T	2 ( 11
	TATOLITI I	ooom, r	⊿oaα iaii
			oaa 1a11 l (2821-1)
		PT head	l (2821-1)
point B	oom, H		
25 30 35	82.9 80.5 78.2	131 130 129	381.7 290.6 225.5
25 30 35 40	82.9 80.5 78.2 75.8	131 130 129 127	381.7 290.6 225.5 182.9
25 30 35 40 45	82.9 80.5 78.2 75.8 73.4	131 130 129 127 126	381.7 290.6 225.5 182.9 153.1
25 30 35 40 45 50	82.9 80.5 78.2 75.8 73.4 70.9	131 130 129 127 126 124	381.7 290.6 225.5 182.9 153.1 131.0
25 30 35 40 45 50 55	82.9 80.5 78.2 75.8 73.4 70.9 68.5	131 130 129 127 126 124 122	381.7 290.6 225.5 182.9 153.1 131.0 114.0
25 30 35 40 45	82.9 80.5 78.2 75.8 73.4 70.9	131 130 129 127 126 124	381.7 290.6 225.5 182.9 153.1 131.0
25 30 35 40 45 50 55 60 65 70	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7	131 130 129 127 126 124 122 120 117	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4
25 30 35 40 45 50 55 60 65 70	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58	131 130 129 127 126 124 122 120 117 114	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8
25 30 35 40 45 50 55 60 65 70 75 80	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2	131 130 129 127 126 124 122 120 117 114 111	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8 66.2
25 30 35 40 45 50 65 70 75 80 85	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2 52.3	131 130 129 127 126 124 122 120 117 114 111 108	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8 66.2 60.5
25 30 35 40 55 50 55 60 70 75 80 85 90	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2 52.3 49.2	131 130 129 127 126 124 122 120 117 114 111 108 104 99	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8 66.2 60.5 55.5
25 30 35 40 45 50 55 60 65 70 75 80 85 90 95	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2 52.3 49.2 46	131 130 129 127 126 124 122 120 117 114 108 104 99	381.7 290.6 225.5 182.9 153.1 131.0 100.5 89.5 80.4 72.8 66.2 60.5 55.5 51.2
25 30 35 40 55 50 55 60 70 75 80 85 90	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2 52.3 49.2	131 130 129 127 126 124 122 120 117 114 111 108 104 99	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8 66.2 60.5 55.5
25 30 35 40 55 50 55 60 75 85 90 95 100 105 110	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2 52.3 49.2 46 42.6 39 35	131 130 129 127 126 124 122 120 117 114 111 108 104 99 94 89 83 76	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8 66.2 60.5 55.5 51.2 47.3 43.8 40.6
25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	82.9 80.5 78.2 75.8 73.4 70.9 68.5 65.9 63.4 60.7 58 55.2 52.3 49.2 46 42.6 39	131 130 129 127 126 124 122 120 117 114 111 108 104 99 94 89 83	381.7 290.6 225.5 182.9 153.1 131.0 114.0 100.5 89.5 80.4 72.8 66.2 60.5 55.5 51.2 47.3 43.8

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
125 ft point B			oad fall l (2821-2)
24	86	134	79.4
25	85.6	134	79.4
30	83.3	133	79.4
35	81	132	79.4
40	78.7	130	79.4
45	76.3	129	79.4
50	74	127	79.4
55	71.5	125	79.4
60	69.1	123	79.4
65	66.6	120	79.4
70	64	118	77.0
75	61.4	114	69.1
80	58.7	111	62.4
85	55.8	107	56.6
90	52.9	103	51.5
95	49.8	98	47.0
100	46.6	93	43.0
105	43.1	87	39.4
110	39.3	81	36.1
115	36.2	75	33.4
120	31.7	66	30.7
125	26.3	55	28.1
130	19.1	40	25.7
134 ft point B			oad fall l (2821-1)
25	83.4	141	375.0
30	81.2	140	286.4
35	79	139	225.5
40	76.9	138	182.9
45	74.6	136	153.0
50	72.4	134	130.9
55	70.1	133	113.9
60	67.8	130	100.4
65	65.5	128	89.5
70	63.1	126	80.4
75	60.6	123	72.7
80	58.1	120	66.1
85	55.5	116	60.5
90	52.8	112	55.5
95	50	108	51.1
100	47.1	103	47.2
105	44	98	43.8
110	40.8	92	40.6
115	37.3	86	37.8
120	33.4	78	35.2
125	30.1	72	33.0
130	25.2	61	30.8

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
134 ft point B			oad fall l (2821-2)
25	86	144	79.4
25	85.9	143	79.4
30	83.8	143	79.4
35	81.7	142	79.4
40	79.5	140	79.4
45 50 55 60 65	77.4 75.2 72.9 70.7 68.4	139 137 136 134 131	79.4 79.4 79.4 79.4 79.4 79.4
70	66.1	129	76.9
75	63.7	126	69.1
80	61.3	123	62.4
85	58.7	120	56.6
90	56.1	116	51.5
95	53.4	112	47.0
100	50.6	107	43.0
105	47.6	102	39.4
110	44.5	97	36.2
115	42	92	33.4
120	38.4	85	30.8
125	34.6	77	28.3
130	30.2	68	26.0
135	24.9	56	23.9
140	18	40	21.8
144 ft			oad fall
point B	00m, H	PT nead	l (2821-1)
25	83.8	150	368.3
30	81.8	150	282.1
35	79.8	149	225.4
40	77.8	148	182.7
45	75.7	146	152.8
50	73.6	145	130.6
55	71.5	143	113.6
60	69.4	141	100.1
65	67.3	139	89.1
70	65.1	137	80.0
75	62.8	134	72.3
80	60.5	131	65.7
85	58.2	128	60.0
90	55.8	125	55.1
95	53.3	121	50.7
100	50.7	117	46.8
105	48.1	112	43.3
110	45.3	107	40.2
115	42.3	102	37.4
120	39.2	96	34.8
125	36.5	90	32.6
130	32.9	82	30.4
135	28.8	74	28.4
140	24.1	63	26.5



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360 °
Foot print: 2-wide track
Counterweight [1000 lbs ]: 163.1
Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
	144 ft Main boom, Load fall point Boom, HPT head (2821-2)					
25 30	86 84.2	153 153	79.4 79.4			
35	82.2	152	79.4			
40	80.2	151	79.4			
45 50	78.2 76.2	149 148	79.4 79.4			
55	74.1	146	79.4 79.4			
60	72.1	144	79.4			
65	70	142	79.4			
70 75	67.8 65.6	140 137	76.6 68.7			
80	63.4	134	62.0			
85	61.1	131	56.2			
90 95	58.8 56.4	128 124	51.1 46.6			
100	53.9	120	42.6			
105	51.3	116	39.0			
110 115	48.6 46.4	111 107	35.8 33.1			
120	43.4	101	30.4			
125	40.2	95	28.0			
130 135	36.8 33.1	88 80	25.7 23.6			
140	28.8	70	23.6			
145	23.7	58	19.8			
150	16.9	41	18.0			
154 ft Main boom, Load fall point Boom, HPT head (2821-1)						
			(3341 -)			
20	86	161	66.4			
25	84.2	160	361.7			
30 35	82.4 80.5	160 159	277.8 224.1			
40	78.6	158	182.5			
45	76.7	157	152.5			
50 55	74.7 72.8	155 154	130.3 113.3			
60	70.8	152	99.8			
65	68.8	150	88.8			
70 75	66.8 64.7	148 145	79.6 71.9			
80	62.6	143	65.4			
85	60.5	140	59.7			
90 95	58.3 56	136 133	54.7 50.3			
100	53.7	129	46.5			
105	51.3	125	43.0			
110 115	48.9 46.3	121 116	39.9 37.0			
120	46.3 43.6	111	37.0 34.5			
125	41.4	106	32.3			
130 135	38.4 35.2	100 93	30.1 28.1			
140	31.6	95 85	26.2			

0	.0		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
154 ft point B		-	oad fall l (2821-2)
26	86	163	79.4
30	84.6	163	79.4
35	82.7	162	79.4
40	80.9	161	79.4
45	79	159	79.4
50	77.1	158	79.4
55	75.2	156	79.4
60	73.2	155	79.4
65	71.3	153	79.4
70	69.3	151	76.3
75	67.3	148	68.4
80	65.3	146	61.7
85	63.2	143	55.9
90	61	140	50.8
95	58.8	136	46.3
100	56.6	133	42.3
105	54.2	129	38.7
110	51.8	125	35.5
115	49.9	121	32.8
120 125 130 135 140	47.3 44.6 41.8 38.7 35.4	116 111 105 98 90	27.7 25.5 23.4 21.5
145	31.8	82	19.7
150	27.6	72	18.0
155	22.7	59	16.3
			oad fall l (2821-1)
21	86	171	464.3
25	84.6	170	355.2
30	82.8	170	273.5
35	81	169	221.0
40	79.3	168	182.3
45	77.5	167	152.2
50	75.7	165	130.0
55	73.8	164	112.9
60	72	162	99.4
65	70.1	160	88.3
70	68.3	158	79.2
75	66.3	156	71.5
80	64.4	154	64.9
85	62.4	151	59.2
90	60.4	148	54.2
95	58.4	145	49.9
100	56.2	142	46.0
105	54.1	138	42.5
110	51.9	134	39.4
115	49.6	130	36.5
120	47.2	125	34.0
125	45.2	121	31.8
130	42.6	116	29.6
135	39.9	110	27.6
140	37	103	25.8
145	33.9	96	24.0
150	30.5	87	22.4
155	26.7	78	20.9

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
164 ft point B			oad fall l (2821-2)
27	86	173	79.4
30	84.9	172	79.4
35	83.2	172	79.4
40	81.4	171	79.4
45	79.6	170	79.4
50	77.9	168	79.4
55	76.1	167	79.4
60	74.3	165	79.4
65	72.5	163	79.4
70	70.6	161	75.9
75	68.7	159	68.0
80	66.9	157	61.3
85	64.9	154	55.5
90	63	151	50.3
95	60.9	148	45.8
100	58.9	145	41.8
105	56.8	142	38.3
110	54.6	138	35.0
115	52.8	134	32.4
120	50.5	130	29.7
125	48.1	125	27.3
130	45.6	120	25.0
135	43	114	23.0
140	40.3	108	21.1
145	37.3	101	19.3
150	34.1	93	17.6
155	30.6	84	16.0
160	26.5	73	14.5
165	21.7	60	13.1
174 ft point B			oad fall l (2821-1)
22	86	181	432.3
25	84.9	180	348.9
30	83.2	180	269.4
35	81.6	179	218.0
40	79.9	178	182.1
45	78.2	177	152.0
50	76.5	176	129.8
55	74.8	174	112.7
60	73.1	173	99.1
65	71.3	171	88.1
70	69.6	169	78.9
75	67.8	167	71.2
80	66	165	64.7
85	64.1	162	59.0
90	62.3	160	54.0
95	60.4	157	49.6
100	58.4	154	45.7
105	56.4	150	42.3
110	54.4	146	39.1
115	52.3	143	36.3
120	50.2	138	33.7
125	48.4	135	31.6
130	46.1	130	29.4
135	43.7	125	27.4
140	41.2	119	25.6
145	38.6	113	23.9
150	35.8	106	22.3
155	32.8	98	20.8
160	29.5	90	19.4
165	25.7	79	18.1
170	21.4	67	16.8



Version: 9839979/59979/ HPT foot: 2821-1 360°

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: 163.1 Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
174 ft point B	Main	boom, I	oad fall l (2821-2)
28 30 35 40 45	86 85.2 83.5 81.9 80.2	183 182 182 181 180	79.4 79.4 79.4 79.4 79.4
50 55 60 65 70	78.6 76.9 75.2 73.5 71.7	178 177 176 174 172	79.4 79.4 79.4 79.4 79.4 75.7
75 80 85 90	70 68.3 66.5 64.6	170 168 165 163	67.8 61.1 55.2 50.1
95 100 105 110 115	62.8 60.8 58.9 56.9 55.3	160 157 154 150 147	45.6 41.6 38.1 34.8 32.2
120 125 130 135 140	53.2 51.1 48.9 46.5 44.1	143 139 134 129 123	29.5 27.1 24.9 22.8 20.9
145 150 155 160 165	41.6 38.9 36 32.9 29.5	117 111 103 95 86	19.1 17.5 15.9 14.5 13.1
170 175 <b>184 ft</b>	25.5 20.8 <b>Main</b> 1		11.8 10.5 oad fall (2821-1)
22	86	190	404.3
25 30	85.2	190	342.7
35	83.6 82 80.4	190 189 188	265.3 215.0
35 40 45 50 55 60	82 80.4 78.8 77.2 75.6 74	189 188 187 186 184 183	265.3 215.0 179.6 151.8 129.5 112.3 98.7
35 40 45 50 55 60 65 70 75 80 85	82 80.4 78.8 77.2 75.6 74 72.4 70.7 69 67.3 65.6	189 188 187 186 184 183 181 180 178 176 173	265.3 215.0 179.6 151.8 129.5 112.3 98.7 87.7 78.5 70.8 64.2 58.5
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	82 80.4 78.8 77.2 75.6 74 72.4 70.7 69 67.3 65.6 63.9 62.1 60.3 58.5 56.6	189 188 187 186 184 183 181 180 178 176 173 171 168 165 165	265.3 215.0 179.6 151.8 129.5 112.3 98.7 87.7 78.5 70.8 64.2 58.5 53.5 49.1 45.2 41.8 38.6
35 40 45 55 60 65 70 75 80 85 90 95 100 105	82 80.4 78.8 77.2 75.6 74 72.4 70.7 69 67.3 65.6 63.9 62.1 60.3 58.5	189 188 187 186 184 183 181 180 178 176 173 171 168 165 162	265.3 215.0 179.6 151.8 129.5 112.3 98.7 78.5 70.8 64.2 58.5 53.5 49.1 45.2 41.8

40 37.4 34.7 31.7

28.5 24.9

101

92 81

17.6

16.4 15.2

150 155 160

165

170 175

U	.0		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
184 ft point B			oad fall l (2821-2)
28 30 35 40	86 85.4 83.9 82.3	193 192 192 191	79.4 79.4 79.4 79.4
45 50 55 60 65	80.8 79.2 77.6 76 74.4	190 189 187 186 184	79.4 79.4 79.4 79.4 79.4
70 75 80 85 90	72.8 71.1 69.5 67.8 66.1 64.3	182 180 178 176 174	75.3 67.4 60.7 54.8 49.7
95 100 105 110 115	62.6 60.8 58.9 57.5	171 168 165 162 159	45.2 41.2 37.6 34.4 31.7
120 125 130 135 140 145	55.5 53.6 51.6 49.5 47.3	156 152 147 143 138 132	29.1 26.6 24.4 22.3 20.4 18.7
150 155 160 165 170	45.1 42.7 40.3 37.7 34.9 31.8	127 120 114 106 98	17.0 15.5 14.0 12.7 11.4
175 180 185	28.5 24.6 20	88 76 62	10.2 9.0 7.8
194 ft point B			oad fall l (2821-1)
23 25 30 35 40	86 85.4 83.9 82.4 80.9	200 200 200 199 198	379.0 336.5 261.1 211.8 177.2
45 50 55 60 65	79.4 77.9 76.4 74.8 73.3	197 196 195 193 192	151.4 129.1 112.0 98.4 87.3
70 75 80 85 90	71.7 70.2 68.6 66.9 65.3	190 188 186 184 182	78.1 70.4 63.8 58.1 53.1
95 100 105 110	63.7 62 60.3 58.5	179 176 174 170	48.7 44.8 41.3 38.2

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
115	56.8	167	35.4
120 125	55.3 53.5	164 161	33.0 30.6
130	51.6	157	28.5
135 140	49.6 47.6	152 148	26.5 24.7
145	45.6	143	22.9
150 155	43.4 41.2	138 132	21.4 19.9
160	38.8	126	18.5
165 170	36.3 33.6	119 111	17.2 16.0
175	30.8	103	14.8
180 185	27.6 24.1	94 83	13.7 12.7
190	19.9	70	11.7
194 ft			oad fall
point B	oom, H	PT head	l (2821-2)
29	86	202	79.4
30	85.7	202	79.4
35 40	84.2 82.7	202 201	79.4 79.4
45	81.2	200	79.4
50 55	79.7 78.2	199 198	79.4 79.4
60	76.7	196	79.4
65 70	75.2 73.7	195 193	79.4 75.0
75	72.1	191	67.0
80 85	70.6 69	189 187	60.3 54.4
90	67.4	185	49.3
95 100	65.8 64.1	182 180	44.8 40.8
105 110	62.4 60.7	177 174	37.2 34.0
115	59.3	174	31.3
120 125	57.6 55.7	168 164	28.7 26.2
130	53.9	160	24.0
135 140	52 50	156 152	22.0 20.1
145	48	147	18.3
150 155	45.9 43.7	142 136	16.7 15.1
160	41.5	130	13.7
165 170	39.1 36.5	124 116	12.3 11.1
175	33.8	108	9.9
180 185	30.8 27.5	100 90	8.7 7.6
190	23.8	78	6.6



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 163.1 Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs
203 ft point B	Main 1	boom, I	oad fall l (2821-1)
24	86	210	356.5
25 30	85.6 84.2	210 209	330.5 257.0
35	82.8	209	208.8
40 45	81.4 79.9	208 207	174.7 149.3
50	78.5	206	128.8
55 60	77 75 6	205	111.6
60 65	75.6 74.1	204 202	98.0 86.9
70	72.6	200	77.7
75 80	71.2 69.7	199 197	69.9 63.3
85	68.1	195	57.6
90 95	66.6	192 190	52.6 48.2
100	65 63.5	188	44.3
105	61.9	185	40.8
110 115	60.2 58.6	182 179	37.7 34.8
120	57.3	176	32.5
125	55.5	173	30.1
130 135	53.8 52	169 165	27.9 25.9
140	50.2	161	24.1
145 150	48.3 46.3	157 152	22.4 20.8
155	44.3	147	19.3
160 165	42.2 40	141 135	18.0 16.7
170	37.7	129	15.4
175	35.3	122	14.3
180 185	32.7 29.9	114 105	13.2 12.2
190	26.8	96	11.2
195 200	23.3 19.2	84 71	10.3 9.4
point B	oom, H	PT head	oad fall l (2821-2)
30 30	86 85.9	212 212	79.4 79.4
35	84.5	212	79.4
40 45	83.1	211	79.4 79.4
45 50	81.7 80.2	210 209	79.4 79.4
55	78.8	208	79.4
60 65	77.4 75.9	206 205	79.4 79.4
70	74.5	203	74.6
	72	202	66.6
75	73 71.6	200	50.0
	71.6 70.1	200 198	59.9 54.0
75 80 85 90	71.6 70.1 68.6	198 196	54.0 48.9
75 80 85	71.6 70.1 68.6 67	198 196 193	54.0 48.9 44.3
75 80 85 90 95 100 105	71.6 70.1 68.6 67 65.5 63.9	198 196 193 191 188	54.0 48.9 44.3 40.3 36.7
75 80 85 90 95 100 105 110	71.6 70.1 68.6 67 65.5 63.9 62.3	198 196 193 191 188 185	54.0 48.9 44.3 40.3 36.7 33.5
75 80 85 90 95 100 105	71.6 70.1 68.6 67 65.5 63.9	198 196 193 191 188	54.0 48.9 44.3 40.3 36.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
130	55.9	173	23.5
135	54.2	169	21.4
140	52.4	165	19.5
145	50.5	160	17.8
150	48.6	156	16.1
155	46.7	151	14.6
160	44.6	145	13.2
165	42.5	140	11.8
170	40.3	133	10.6
175	37.9	126	9.4
180	35.5	119	8.2
185	32.8	111	7.2
190	29.9	102	6.1
195	26.7	91	5.2
200	23	79	4.2
205	18.5	64	3.3
			oad fall l (2821-1)
24	86	220	66.4
25	85.8	220	324.6
30	84.5	219	253.0
35	83.1	219	205.8
40	81.8	218	172.3
45	80.4	217	147.4
50	79	216	128.0
55	77.7	215	111.3
60	76.3	214	97.6
65	74.9	212	86.5
70	73.5	211	77.3
75	72.1	209	69.6
80	70.6	207	63.0
85	69.2	205	57.2
90	67.7	203	52.3
95	66.3	201	47.9
100	64.8	199	44.0
105	63.3	196	40.5
110	61.7	193	37.3
115 120 125 130 135	59 57.4 55.7 54.1	190 188 185 182 178	34.5 32.1 29.8 27.6 25.6
140	52.4	174	23.8
145	50.6	170	22.1
150	48.8	165	20.5
155	47	161	19.0
160	45.1	156	17.7
165	43.1	150	16.4
170	41.1	145	15.1
175	38.9	138	14.0
180	36.7	132	12.9
185	34.3	124	11.9
190	31.8	116	10.9
195	29	108	10.0
200	26	98	9.1
205	22.6	86	8.3

Radius	Main	Rope	Load	
[ft ]:	boom		capacity	
[20]		height [ft]:	[1000 lbs	
213 ft Main boom, Load fall point Boom, HPT head (2821-2)				
30	86	222	79.4	
35	84.7	221	79.4	
40	83.4	221	79.4	
45	82	220	79.4	
50	80.7	219	79.4	
55	79.3	218	79.4	
60	78	216	79.4	
65	76.6	215	79.4	
70	75.2	214	74.3	
75	73.9	212	66.4	
80	72.5 71	210	59.6	
85	69.6	208	53.7	
90		206	48.6	
95	68.1	204	44.0	
100	66.7	202	40.0	
105	65.2	199	36.4	
110	64	197	33.4	
115	62.5	194	30.5	
120	60.9	191	27.9	
125	59.3	188	25.4	
130	57.7	185	23.2	
135	56.1	181	21.1	
140	54.4	177	19.2	
145	52.7	173	17.5	
150		169	15.9	
155	51 49.2	164	14.3	
160	47.3	160	12.9	
165	45.4	154	11.6	
170	43.4	149	10.3	
175	41.4	143	9.1	
180	39.2	136	8.0	
185	36.9	129	6.9	
190	34.5	122	5.9	
195	31.9	113	5.0	
200	29	104	4.0	
205	25.9	93	3.1	
210	22.3	80	2.3	
			oad fall l (2821-1)	
25	86	230	66.4	
30	84.7	229	249.0	
35	83.4	229	202.8	
40	82.1	228	169.9	
45	80.8	227	145.3	
50	79.5	226	126.2	
55	78.2	225	111.0	
60	76.9	224	97.3	
65	75.6	222	86.1	
70	74.2	221	76.9	
75	72.9	220	69.1	
80	71.5	218	62.5	
85	70.2	216	56.8	
90	68.8	214	51.8	
95	67.4	212	47.3	
100	66	210	43.4	
105	64.6	207	39.9	
110	63.1	205	36.8	
115	61.6	202	34.0	
120	60.5	200	31.6	
125	59	197	29.2	
130	57.5	193	27.1	
135	55.9	190	25.1	



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 163.1 Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]		
223 ft Main boom, Load fall point Boom, HPT head (2821-1)					
145	52.7	182	21.5		
150	51	178	20.0		
155	49.3	174	18.5		
160	47.6	170	17.1		
165	45.8	165	15.8		
170	44	160	14.6		
175	42	154	13.5		
180	40	148	12.4		
185 190	38 35.8	142 135	11.4 10.4		
190	33.4	127	9.5		
200	31	119	8.6		
205	28.3	110	7.8		
210	25.3	99	7.0		
215	22	87	6.2		
220	18	73	5.5		
			oad fall l (2821-1)		

30 35	85	239	245.0
	83.7	238	199.7
40	82.5	238	167.4
45	81.2	237	143.2
50	80	236	124.4
55	78.7	235	109.3
60	77.5	234	96.9
65	76.2	233	85.7
70	74.9	231	76.5
75	73.6	230	68.7
80	72.3	228	62.1
85	71	226	56.3
90	69.7	225	51.3
95	68.4	223	46.9
100	67.1	220	43.0
105	65.7	218	39.5
110	64.3	216	36.3
115	63	213	33.5
120	61.9	211	31.1
125	60.4	208	28.8
130	59	205	26.6
135	57.5	202	24.6
140	56.1	198	22.8
145 150	54.5 53	195 191	21.1 19.5
150	53 51.4	187	18.0
160	49.8	183	16.6
165	48.2	178	15.3
170	46.5	176	14.1
175	46.5 44.7	168	13.0
180	42.9	163	11.9
185	42.9	157	10.9
190	39.1	157	9.9
195	37	145	9.0
200	34.9	137	8.2
205	32.6	130	7.3
210	30.2	121	6.6
215	27.6	112	5.8
220	24.7	101	5.1
225	21.4	89	4.4

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
243 ft Main boom, Load fall point Boom, HPT head (2821-1)					
26	86	249	273.2		
30	85.2	249	241.1		
35	84	248	196.7		
40	82.8	248	165.0		
45	81.6	247	141.1		
50	80.4	246	122.5		
55	79.2	245	107.7		
60	78	244	95.5		
65	76.8	243	85.3		
70	75.5	242	76.0		
75	74.3	240	68.2		
80	73.1	239	61.6		
85	71.8	237	55.8		
90	70.6	235	50.8		
95	69.3	233	46.4		
100	68	231	42.4		
105	66.8	229	38.9		
110	65.5	227	35.8		
115	64.4	225	33.2		
120	63.1	222	30.6		
125	61.8	220	28.2		
130	60.4	217	26.0		
135	59	214	24.1		
140	57.6	210	22.2		
145	56.2	207	20.5		
150	54.7	203	18.9		
155	53.3	200	17.4		
160	51.8	196	16.1		
165	50.2	192	14.8		
170	48.7	187	13.6		
175	47	182	12.4		
180	45.4	178	11.3		
185	43.7	172	10.3		
190	41.9	167	9.4		
195	40.1	161	8.5		
200	38.2	154	7.6		
205	36.2	148	6.8		
210	34.1	140	6.0		
215	31.8	132	5.2		
220	29.5	123	4.5		
225	26.9	114	3.8		
230	24	103	3.2		
235	20.8	90	2.5		



Version: 9839979/59979/ Degree rating: 360° Foot print: 2-wide track 119.0

Foot print: Counterweight [1000 lbs ]:

Carbony	y count	erweigi	16 [1000 II	US
Radius	Main	Rope	Load	ĺ

	86 85.2		66.4 603.2 471.3
15 20 25 30 35 40 45	85.2	72	603.2
20 25 30 35 40 45		–	
25 30 35 40 45	80.8		
30 35 40 45	76.2	70	328.5
40 45	71.6	68	235.2
45	66.8	66	181.8
	61.9	63	147.1
50	56.6	60	122.8
	50.9	56	104.8
55		51	90.8
60	44.7		
65	44.7 37.5 28.7	44 36	79.7 70.5

66 ft Main boom, Load fall point Boom, HPT head (2821-2)

20	86	75	79.4
25	81.7	74	79.4
30	77.3	72	79.4
35	72.8	70	79.4
40	68	67	79.4
45	63.1	64	79.4
50	57.9	60	79.4
55	52.2	55	79.4
60	45.8	50	76.6
65	38.4	42	67.2
70	28.3	31	59.1

76 ft Main boom, Load fall point Boom, HPT head (2821-1)

15	86	82	66.4
15	85.8	82	634.5
20	82	82	471.1
25	78.1	80	329.2
30	74.1	79	235.7
35	70.1	77	182.2
40	65.9	75	147.6
45	61.5	72	123.2
50	57	69	105.2
55	52.1	65	91.3
60	46.9	60	80.2
65	41.1	54	71.2
70	34.5	47	63.6
75	26.2	37	57.1

76 ft Main boom, Load fall point Boom, HPT head (2821-2)

21	86	85	79.4
25	82.7	84	79.4
30	78.9	82	79.4
35	75.1	80	79.4
40	71.1	78	79.4
45	66.9	75	79.4
50	62.6	72	79.4
55	58.1	68	79.4
60	53.2	64	77.2
65	47.9	59	67.8
70	41.9	52	60.0
75	35	44	53.4
80	25.8	33	47.5

		Load
om	pulley	capacity
gle	height	1000 lbs
		`1:   [ft ]:

0.0

HPT foot: 2821-1

#### 85 ft Main boom, Load fall point Boom, HPT head (2821-1)

15	86	92	66.4
20	82.9	92	470.3
25	79.5	91	329.7
30	76	89	236.0
35	72.5	88	182.3
40	68.9	86	147.6
45	65.1	83	123.2
50	61.3	80	105.2
55	57.3	77	91.2
60	53.1	73	80.2
65	48.5	69	71.2
70	43.7	64	63.6
75	38.3	57	57.3
80	32	49	51.8
85	24.2	39	47.0

#### 85 ft Main boom, Load fall point Boom, HPT head (2821-2)

21	86	94	79.4
25	83.6	94	79.4
30	80.2	92	79.4
35	76.8	91	79.4
40	73.3	89	79.4
45	69.8	86	79.4
50	66.1	84	79.4
55	62.3	81	79.4
60	58.3	77	77.1
65	54	73	67.8
70	49.4	68	60.1
75	44.4	62	53.5
80	38.9	55	47.9
85	32.3	46	42.9
90	23.4	34	38.4

#### 95 ft Main boom, Load fall point Boom, HPT head (2821-1)

16	86	102	587.7
20	83.7	102	470.5
25	80.6	101	327.7
30	77.5	100	236.4
35	74.4	98	182.7
40	71.2	96	147.9
45	67.9	94	123.5
50	64.6	92	105.5
55	61.1	89	91.6
60	57.5	86	80.5
65	53.8	82	71.5
70	49.8	78	64.1
75	45.6	73	57.7
80	41	67	52.3
85	35.9	60	47.6
90	29.9	52	43.4
95	22.5	40	39.7

Radius	Main	Rope	Load
[ft ]:	boom	pulley	capacity
	angle	height	[1000 lbs
	[°]:	[ft ]:	]

#### 95 ft Main boom, Load fall point Boom, HPT head (2821-2)

22	86	104	79.4
25	84.2	104	79.4
30	81.2	102	79.4
35	78.2	101	79.4
40	75.1	99	79.4
45	72	97	79.4
50	68.7	95	79.4
55	65.4	92	79.4
60	62	89	77.4
65	58.4	86	68.2
70	54.6	82	60.5
75	50.6	77	54.0
80	46.3	71	48.4
85	41.5	65	43.5
90	36.2	57	39.2
95	29.8	48	35.3
100	23.6	38	32.1

#### 105 ft Main boom, Load fall point Boom, HPT head (2821-1)

17	86	112	562.0
20	84.3	112	469.6
25	81.5	111	321.7
30	78.7	110	236.5
35	75.9	108	182.7
40	73	107	147.8
45	70.1	105	123.4
50	67.1	103	105.3
55	64.1	100	91.3
60	60.9	97	80.3
65	57.7	94	71.3
70	54.3	90	63.8
75	50.8	86	57.5
80	47	82	52.1
85	43	76	47.4
90	38.7	70	43.2
95	33.8	63	39.6
100	28.2	54	36.3
105	22.7	44	33.4

#### 105 ft Main boom, Load fall point Boom, HPT head (2821-2)

23	86	114	79.4
25	84.8	114	79.4
30	82.1	113	79.4
35	79.3	111	79.4
40	76.5	110	79.4
45	73.7	108	79.4
50	70.8	106	79.4
55	67.9	103	79.4
60	64.9	101	77.2
65	61.7	98	68.0
70	58.5	94	60.3
75	55.1	90	53.8
80	51.5	86	48.2
85	47.7	80	43.3
90	43.6	75	39.1
95	39.1	68	35.3
100	35.3	62	32.2
105	29.5	52	29.1
110	21.9	39	26.2



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 119.0 Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]		
	115 ft Main boom, Load fall point Boom, HPT head (2821-1)				
18	86	122	538.7		
20	84.8	121	458.3		
25	82.2	121	315.7		
30	79.7	120	236.6		
35	77.1	118	182.6		
40	74.5	117	147.7		
45	71.9	115	123.2		
50	69.2	113	105.1		
55	66.5	111	91.2		
60	63.7	109	80.1		
65	60.8	106	71.1		
70	57.9	103	63.6		
75	54.8	99	57.3		
80	51.6	95	51.9		
85	48.2	90	47.2		
90	44.7	85	43.1		
95	40.9	80	39.5		
100	36.7	73	36.3		
105	33.1	67	33.4		
110	27.9	58	30.9		
115 <b>115 ft</b>	21.4 <b>Main</b> l	46 <b>boom, I</b>	28.5 oad fall l (2821-2)		
23	86	124	79.4		
25	85.2	124	79.4		
30	82.7	123	79.4		
35	80.2	122	79.4		
40	77.7	120	79.4		
45	75.1	118	79.4		
50	72.5	116	79.4		
55	69.9	114	79.4		
60	67.2	112	77.1		
65	64.4	109	67.8		
70	61.6	106	60.2		
75	58.6	103	53.7		
80	55.5	99	48.1		
85	52.3	94	43.3		
90	48.9	90	39.0		
95	45.2	84	35.3		
100	42.3	79	32.2		
105	38.1	72	29.2		
110	33.3	64	26.4		
115	27.8	54	23.9		
120	20.4	39	21.5		

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
18	86	132	516.7
20 25	85.2 82.9	131 131	447.2 309.9
30	80.5	130	235.1
35	78.2	129	182.6
40 45	75.8 73.4	127 126	147.5 123.0
50	70.9	124	104.8
55	68.5	122	90.9
60 65	65.9 63.4	120 117	79.8 70.7
70	60.7	114	63.2
75	58	111	56.9
80 85	55.2	108	51.5
85 90	52.3 49.2	104 99	46.8 42.8
95	46	94	39.1
100	42.6	89	35.9
105 110	39.8 35.9	84 77	33.2 30.6
115	31.5	69	28.2
		ا قا ا	20.2
120	26.5	60	26.0
120 125	26.5 20.2	60 47	26.0 24.0
120 125 <b>125 ft</b>	26.5 20.2 <b>Main</b> 1	60 47 <b>boom, I</b>	26.0 24.0 oad fall
120 125 <b>125 ft</b> point B	26.5 20.2 <b>Main I</b> <b>oom, H</b>	60 47 <b>boom, I</b> <b>PT head</b>	26.0 24.0 oad fall (2821-2)
120 125 <b>125 ft</b> <b>point B</b>	26.5 20.2 <b>Main 1</b> <b>oom, H</b> 86 85.6	60 47 boom, I PT head	26.0 24.0 coad fall (2821-2) 79.4 79.4
120 125 <b>125 ft</b> point B	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81	60 47 boom, I PT head 134 134 133 132	26.0 24.0 <b>load fall</b> (2821-2) 79.4 79.4 79.4 79.4
120 125 <b>125 ft</b> <b>point B</b> 24 25 30 35 40	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7	60 47 boom, I PT head 134 134 133 132 130	26.0 24.0 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4
120 125 <b>125 ft</b> <b>point B</b> 24 25 30 35 40 45	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3	60 47 boom, I PT head 134 134 133 132 130 129	26.0 24.0 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4
120 125 <b>125 ft</b> <b>point B</b> 24 25 30 35 40	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7	60 47 boom, I PT head 134 134 133 132 130	26.0 24.0 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4
120 125 ft point B 24 25 30 35 40 45 50 55 60	26.5 20.2 <b>Main I</b> <b>soom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1	60 47 boom, I PT head 134 133 132 130 129 127 127 125 123	26.0 24.0 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
120 125 <b>125 ft</b> <b>point B</b> 24 25 30 35 40 45 50 66 65	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120	26.0 24.0 <b>Joad fall</b> (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.5 67.5
120 125 125 ft point B 24 25 30 35 40 45 50 55 60 65 70	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118	26.0 24.0 24.0 24.0 26.0 27.2 27.4 27.4 27.4 27.4 27.4 27.4 27.4
120 125 ft point B 24 25 30 35 40 45 50 55 60 65 70 75 80	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 61.4 58.7	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111	26.0 24.0 24.0 26.0 fall (2821-2) 79.4 79.5 59.9 50.9
120 125 ft point B 24 25 30 35 40 45 50 65 70 75 80 85	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 61.4 58.7 55.8	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111 107	26.0 24.0 24.0 24.0 26.2 27.2 27.4 27.4 27.4 27.4 27.4 27.4 27
120 125 125 ft point B 24 25 30 35 40 45 50 65 70 75 80 85 90	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 61.4 58.7 55.8 52.9	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111 107 103	26.0 24.0 24.0 24.0 24.0 29.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 7
120 125 ft point B 24 25 30 35 40 45 50 65 70 75 80 85 90 95	26.5 20.2 <b>Main I</b> <b>som, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 61.4 58.7 55.8 52.9 49.8 47.3	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111 107 103 98 94	26.0 24.0 24.0 26.0 fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
120 125 ft point B 24 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 61.4 58.7 55.8 52.9 49.8 47.3 43.9	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111 107 103 98 94 98	26.0 24.0 24.0 24.0 26.2 27.2 27.4 27.4 27.4 27.4 27.4 27.4 27
120 125 ft point B 24 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 55.8 52.9 49.8 47.3 43.9	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111 107 103 98 94 89 89 82	26.0 24.0 24.0 24.0 24.0 29.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 7
120 125 ft point B 24 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	26.5 20.2 <b>Main I</b> <b>oom, H</b> 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64.1 61.4 58.7 55.8 52.9 49.8 47.3 43.9	60 47 boom, I PT head 134 133 132 130 129 127 125 123 120 118 114 111 107 103 98 94 98	26.0 24.0 24.0 24.0 26.2 27.2 27.4 27.4 27.4 27.4 27.4 27.4 27

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
134 ft point B			oad fall l (2821-1)
19 20 25 30 35	86 85.5 83.4 81.2 79	141 141 141 140 139	481.9 436.4 304.3 231.6 182.6
40 45 50 55 60	76.9 74.6 72.4 70.1 67.8	138 136 134 133 130	147.5 122.9 104.8 90.8 79.7
65 70 75 80 85	65.5 63.1 60.6 58.1 55.5 52.8	128 126 123 120 116 112	70.7 63.2 56.9 51.5 46.8 42.7
95 100 105 110 115	50 47.1 44.7 41.5 38.1	108 103 99 94 87	39.1 35.9 33.2 30.6 28.3
120 125 130	34.3 30.1 25.2	80 72 61	26.1 24.1 22.3
point B	oom, H	PT head	l (2821-2)
25 25 30 35 40 45	86 85.9 83.8 81.7 79.5	144 143 143 142 140 139	79.4 79.4 79.4 79.4 79.4 79.4
50 55 60 65	77.4 75.2 72.9 70.7 68.4 66.1	137 136 134 131	79.4 79.4 76.7 67.5 59.8
75 80 85 90	63.7 61.3 58.7 56.1	126 123 120 116	53.3 47.7 42.9 38.7 34.9
100 105 110 115	51.2 48.3 45.2 42 38.4	108 103 98 92 85	31.9 28.9 26.2 23.8
120 125 130 135 140	34.6 30.2 24.9 18	65 77 68 56 40	21.5 19.5 17.5 15.7 14.0



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360  $^{\circ}$ 

Degree rating: 360°
Foot print: 2-wide track
Counterweight [1000 lbs ]: 119.0
Carbody counterweight [1000 lbs ]: 0.0

144 ft	boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
point Bo						
20	86	151	66.4			
20	85.8	151	426.1			
25 30	83.8 81.8	150 150	298.7 228.0			
35	79.8	149	182.5			
40	77.8	148	147.3			
45 50	75.7	146 145	122.7 104.5			
55	73.6 71.5	143	90.5			
60	69.4	141	79.3			
65	67.3	139	70.3			
70 75	65.1 62.8	137 134	62.8 56.4			
80	60.5	131	51.0			
85	58.2	128	46.4			
90 95	55.8 53.3	125 121	42.3 38.7			
100	50.7	117	35.5			
105	48.6	113	32.8			
110 115	45.9 43	108	30.2			
120	43 39.9	103 97	27.8 25.7			
125	36.5	90	23.7			
130	32.9	82	21.9			
135	28.8 24.1	74	20.2			
140		63 hoom T	18.7			
144 ft	Main l	boom, I	18.7 oad fall (2821-2)			
144 ft point Bo 25	Main I	boom, I PT head	oad fall (2821-2)			
144 ft point Bo 25 30	Main I com, H	153 153	79.4 79.4			
144 ft point Bo	Main I	boom, I PT head	oad fall (2821-2)			
25 30 35 40 45	86 84.2 82.2 80.2 78.2	153 153 153 152 151 149	79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50	86 84.2 82.2 80.2 78.2 76.2	153 153 153 152 151 149 148	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 55 60	86 84.2 82.2 80.2 78.2	153 153 153 152 151 149	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 55 60 65	86 84.2 82.2 80.2 78.2 76.2 74.1 72.1	153 153 153 152 151 149 148 146 144 142	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 55 60 65 70	86 84.2 82.2 80.2 78.2 76.2 74.1 70 67.9	153 153 153 152 151 149 148 146 146 144 142	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 55 60 65	86 84.2 82.2 80.2 78.2 76.2 74.1 72.1	153 153 153 152 151 149 148 146 144 142	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 55 60 65 70 75 80 85	86 84.2 82.2 80.2 78.2 76.2 74.1 70 67.9 65.7 63.4 61.1	153 153 153 152 151 149 148 146 144 142 140 137 134	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 65 70 75 80 85 90	86 84.2 82.2 82.2 76.2 74.1 72.1 70 67.9 65.7 63.4 61.1 58.8	153 153 152 151 149 148 146 144 142 140 137 134 131 128	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 55 60 65 70 75 80 85	86 84.2 82.2 80.2 78.2 76.2 74.1 70 67.9 65.7 63.4 61.1	153 153 153 152 151 149 148 146 144 142 140 137 134	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
144 ft point Bo  25 30 35 40 45 50 65 60 70 75 80 95 100 105	86 84.2 82.2 82.2 76.2 74.1 70 67.9 65.7 63.4 61.1 58.8 56.4 54.4 51.8	153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 121	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	86 84.2 82.2 80.2 76.2 74.1 72.1 76.7 65.7 63.4 61.1 58.8 56.4 54.4 49.2	153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 121 117	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
144 ft point Bo  25 30 35 40 45 50 65 60 70 75 80 95 100 105	86 84.2 82.2 82.2 76.2 74.1 70 67.9 65.7 63.4 61.1 58.8 56.4 54.4 51.8	153 153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 121	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
144 ft point Bo  25 30 35 40 45 50 65 70 75 80 95 100 105 110 115 120 125	Main I boom, HD 86 84.2 82.2 80.2 76.2 74.1 70 67.9 65.7 63.4 54.4 49.2 46.4 43.4 40.2	153 153 153 152 151 149 148 146 144 142 140 137 137 134 128 124 121 117 112 107	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
25 30 35 40 45 50 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	86 84.2 82.2 80.2 76.2 74.1 72.1 70 67.9 65.7 63.4 61.1 58.8 56.4 54.4 51.8 49.2 46.4 43.4 40.2 36.8	153 153 152 151 149 148 146 144 142 140 137 134 131 128 124 121 117 112 107 107	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
144 ft point Bo  25 30 35 40 45 50 65 70 75 80 95 100 105 110 115 120 125	Main I boom, HD 86 84.2 82.2 80.2 76.2 74.1 70 67.9 65.7 63.4 54.4 49.2 46.4 43.4 40.2	153 153 153 152 151 149 148 146 144 142 140 137 137 134 128 124 121 117 112 107	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			

0	.0		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
20	86	161	66.4
25	84.2	160	293.1
30	82.4	160	224.3
35	80.5	159	180.3
40	78.6	158	147.1
45 50 55 60	76.7 74.7 72.8	157 155 154 152	122.4 104.2 90.2 79.0
65 70	70.8 68.8 66.8	150 148	70.0 62.4
75	64.7	145	56.1
80	62.6	142	50.7
85	60.5	140	46.0
90	58.3	136	41.9
95	56	133	38.3
100	53.7	129	35.1
105	51.9	126	32.5
110	49.4	122	29.9
115	46.8	117	27.5
120	44.2	112	25.4
125	41.4	106	23.4
130	38.4	100	21.6
135	35.2	93	20.0
140	31.6	85	18.4
145	27.7	76	17.0
150	23.1	64	15.6
			oad fall l (2821-2)
			. (
26	86	163	79.4
30	84.6	163	79.4
35	82.7	162	79.4
40	80.9	161	79.4
45	79	159	79.4
50	77.1	158	79.4
55	75.2	156	79.4
60	73.2	155	76.2
65	71.3	153	66.9
70	69.4	151	59.2
75	67.3	148	52.6
80	65.3	146	47.0
85	63.2	143	42.2
90	61	140	38.0
95	58.8	136	34.3
100	57	134	31.2
105	54.7	130	28.2
110	52.4	126	25.6
115	49.9	121	23.1
120	47.3	116	20.9
125	44.6	111	18.9
130	41.8	105	17.0
135	38.7	98	15.3
140	35.4	90	13.7
145	31.8	82	12.1
150	27.6	72	10.7

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
164 ft point B	Main	boom, I	oad fall l (2821-1)
21	86	171	377.2
25	84.6	170	287.7
30	82.8	170	220.7
35	81	169	177.5
40	79.3	168	146.9
45	77.5	167	122.2
50	75.7	165	103.9
55	73.8	164	89.8
60	72	162	78.6
65	70.1	160	69.5
70	68.3	158	62.0
75	66.3	156	55.7
80	64.4	154	50.2
85	62.4	151	45.5
90	60.4	148	41.4
95	58.4	145	37.8
100	56.2	142	34.6
105	54.6	139	32.0
110	52.3	135	29.4
115	50.1	131	27.0
120	47.7	126	24.9
125 130 135	45.2 42.6	121 116 110	22.9 21.1
140 145	39.9 37 33.9	103 96	19.5 18.0 16.5
150	30.5	87	15.2
155	26.7	78	13.9
160	22.2	66	oad fall
<b>164 ft</b>	<b>Main</b> 1	boom, I	
point B	oom, H	PT head	l (2821-2)
27	86	173	79.4
30	84.9	172	79.4
35	83.2	172	79.4
40	81.4	171	79.4
45	79.6	170	79.4
50	77.9	168	79.4
55	76.1	167	79.4
60	74.3	165	75.9
65	72.5	163	66.5
70	70.7	161	58.8
75	68.8	159	52.2
80	66.9	157	46.6
85	64.9	154	41.8
90	63	151	37.5
95	60.9	148	33.8
100	59.3	146	30.8
105	57.2	142	27.8
110	55	138	25.1
115	52.8	134	22.7
120	50.5	130	20.5
125	48.1	125	18.4
130	45.6	120	16.6
135	43	114	14.8
140	40.3	108	13.2
145 150 155	37.3 34.1 30.6	93 84	11.8 10.4 9.0
160	26.5	73	7.8
165	21.7	60	6.6



Version: 9839979/59979/ HPT foot: 2821-1 Degree rating: 360°

2-wide track Foot print: 119.0 Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
	174 ft Main boom, Load fall point Boom, HPT head (2821-1)				
22	86	181	350.8		
25	84.9	180	282.4		
30	83.2	180	217.2		
35	81.6	179	175.0		
40	79.9	178	145.5		
45	78.2	177	122.0		
50	76.5	176	103.7		
55	74.8	174	89.6		
60	73.1	173	78.4		
65	71.3	171	69.3		
70	69.6	169	61.8		
75	67.8	167	55.4		
80	66	165	50.0		
85	64.1	162	45.3		
90	62.3	160	41.2		
95	60.4	157	37.6		
100	58.4	154	34.4		
105	56.9	151	31.7		
110	54.8	147	29.2		
115	52.8	144	26.8		
120	50.6	139	24.7		
125	48.4	135	22.7		
130	46.1	130	20.9		
135	43.7	125	19.3		
140	41.2	119	17.8		
145	38.6	113	16.3		
150	35.8	106	15.0		
155	32.8	98	13.8		
160	29.5	90	12.6		
165	25.7	79	11.5		
			10.5 oad fall l (2821-2)		

174 ft Main boom, Load fall point Boom, HPT head (2821-2)			
point B	oom, H	PT head	l (2821-2)
28	86	183	79.4
30	85.2	182	79.4
35	83.5	182	79.4
40	81.9	181	79.4
45	80.2	180	79.4
50	78.6	178	79.4
55	76.9	177	79.4
60	75.2	176	75.7
65	73.5	174	66.4
70	71.8	172	58.6
75 90	70 68.3	170	52.0 46.4
80 85	66.5	168 165	40.4 41.6
90	64.6	163	37.3
90 95	62.8	160	33.6
100	61.2	157	30.6
105	59.3	154	27.6
110	57.3	151	24.9
115	55.3	147	22.5
120	53.2	143	20.3
125	51.1	139	18.3
130	48.9	134	16.4
135	46.5	129	14.7
140	44.1	123	13.1
145	41.6	117	11.6
150	38.9	111	10.2
155	36	103	8.9
160	32.9	95	7.7
165	29.5	86	6.6
170	25.5	75	5.4
175	20.8	61	4.4

Radius [ft ]:	boom angle	pulley	Load capacity [1000 lbs l		
184 ft Main boom, Load fall					

point Boom, HPT head (2821-1)

22	86	190	327.7
25	85.2	190	277.2
30	83.6	190	213.6
35	82	189	172.3
40	80.4	188	143.3
45	78.8	187	121.7
50	77.2	186	103.3
55	75.6	184	89.2
60	74	183	78.0
65	72.4	181	68.9
70	70.7	180	61.3
75	69	178	55.0
80	67.3	176	49.5
85	65.6	173	44.8
90	63.9	171	40.7
95	62.1	168	37.1
100	60.3	165	33.9
105	58.9	163	31.2
110	57	159	28.6
115	55.1	156	26.3
120	53.1	152	24.2
125	51.1	148	22.2
130	49.1	144	20.4
135	46.9	139	18.8
140	44.7	134	17.3
145	42.4	128	15.8
150	40	122	14.5
155	37.4	116	13.3
160	34.7	109	12.1
165	31.7	101	11.0
170	28.5	92	10.0
175	24.9	81	9.0

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

28	86	193	79.4
30	85.4	192	79.4
35	83.9	192	79.4
40	82.3	191	79.4
45	80.8	190	79.4
50	79.2	189	79.4
55	77.6	187	79.4
60	76	186	75.3
65	74.5	184	66.0
70	72.8	182	58.2
75	71.2	181	51.6
80	69.5	178	46.0
85	67.8	176	41.1
90	66.1	174	36.9
95	64.7	172	33.4
100	62.9	169	30.1
105	61.1	166	27.1

Radiu	s Main	_	
[ft ]:			capacity
	angle	height	[1000 lbs
	[°]:	[ft ]:	]

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

110	59.3	163	24.4
115	57.5	159	22.0
120	55.5	156	19.8
125	53.6	152	17.8
130	51.6	147	15.9
135	49.5	143	14.2
140	47.3	138	12.6
145	45.1	132	11.1
150	42.7	127	9.8
155	40.3	120	8.5
160	37.7	114	7.3
165	34.9	106	6.1
170	31.8	98	5.1
175	28.5	88	4.0
180	24.6	76	3.0
185	20	62	2.1

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

23 25	86 85.4	200 200	306.8 271.9
30	83.9	200	210.0
35	82.4	199	169.6
40	80.9	198	141.2
45	79.4	197	120.0
50	77.9	196	103.0
55	76.4	195	88.9
60	74.8	193	77.6
65	73.3	192	68.5
70	71.7	190	60.9
75	70.2	188	54.6
80	68.6	186	49.1
85	66.9	184	44.4
90	65.3	182	40.3
95	63.7	179	36.7
100	62	176	33.5
105	60.6	174	30.8
110	58.9	171	28.2
115	57.1	168	25.9
120	55.3	164	23.7
125	53.5	161	21.8
130	51.6	157	20.0
135	49.6	152	18.4
140 145	47.6 45.6	148 143	16.8 15.4
150	43.4	138	14.1
155	41.2	132	12.9
160	38.8	126	11.7
165	36.3	119	10.7
170	33.6	111	9.6
175	30.8	103	8.7
180	27.6	94	7.8
185	24.1	83	6.9
190	19.9	70	6.1

55/81 16.7.2007



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 119.0 Carbody counterweight [1000 lbs ]: 0.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
	203 ft Main boom, Load fall point Boom, HPT head (2821-1)					
24	86	210	288.2			
25	85.6	210	266.8			
30	84.2	209	206.5			
35	82.8	209	166.9			
40	81.4	208	139.0			
45	79.9	207	118.1			
50	78.5	206	102.1			
55	77	205	88.5			
60	75.6	204	77.2			
65	74.1	202	68.1			
70	72.6	200	60.5			
75	71.2	199	54.1			
80	69.7	197	48.6			
85	68.1	195	43.9			
90	66.6	192	39.8			
95	65	190	36.2			
100	63.8	188	33.2			
105	62.2	186	30.3			
110	60.6	183	27.7			
115	58.9	180	25.3			
120	57.3	176	23.2			
125	55.5	173	21.3			
130	53.8	169	19.5			
135	52	165	17.8			
140	50.2	161	16.3			
145	48.3	157	14.9			
150	46.3	152	13.6			
155	44.3	147	12.3			
160	42.2	141	11.2			
165	40	135	10.1			
170	37.7	129	9.1			
175	35.3	122	8.2			
180	32.7	114	7.3			
185	29.9	105	6.4			
190	26.8	96	5.6			
195	23.3	84	4.8			
200	19.2	71	4.0			

213 ft				
point Be	oom, H	IPT hea	ad (28	321-1)

24	86	220	66.4
25	85.8	220	261.8
30	84.5	219	203.1
35	83.1	219	164.3
40	81.8	218	136.9
45	80.4	217	116.4
50	79	216	100.6
55	77.7	215	87.9
60	76.3	214	76.9
65	74.9	212	67.8
70	73.5	211	60.2
75	72.1	209	53.8
80	70.6	207	48.3
85	69.2	205	43.6
90	67.7	203	39.5
95	66.3	201	35.8
100	65.1	199	32.9
105	63.6	197	30.0
110	62.1	194	27.4
115	60.5	191	25.0
120	59	188	22.9
125	57.4	185	20.9
130	55.7	182	19.1

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
135 140	54.1 52.4	178 174	17.5 16.0
145	50.6	170	14.6
150	48.8	165	13.3
155 160	47 45.1	161 156	12.0 10.9
165	43.1	150	9.8
170	41.1	145	8.8
175	38.9	138	7.9
180	36.7	132	7.0
185 190	34.3 31.8	124 116	6.1 5.3
195	29	108	4.5
200	26	98	3.8
205 210	22.6 18.6	86 72	3.1 2.4



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 0.0 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
66 ft	Main h	oom, L	nad fall
			l (2821-1)
ſ	•		` 1
14	86	73	66.4
15	85.2	72	479.5
20 25	80.8 76.2	72 70	331.1 208.0
30	71.6	68	147.5
35 40	66.8 61.9	66 63	112.9 90.4
45	56.6	60	74.6
50	50.9	56	62.8
<u>55</u> 60	44.7 37.5	51 44	53.7 46.4
65	28.7	36	40.3
66 ft	Main b	oom, L	oad fall
			l (2821-2)
20	86	75	79.4
25 30	81.7 77.3	74 72	79.4 79.4
35 35	77.3 72.8	70	79.4 79.4
40	68	67	79.4
45 50	63.1 57.9	64 60	72.7 60.5
55	52.2	55	51.0
60	45.8	50	43.4
65 70	38.2 31.1	42 34	37.0 32.1
		oom, L PT head	oad fall l (2821-1)
15	86	82	66.4
15	85.8	82	479.3
20 25	82 78.1	82 80	322.6 208.7
30	74.1	79	148.0
35 40	70.1 65.9	77 75	113.3 90.8
45	61.5	72	75.0
50	57 52.1	69	63.3
55 60	52.1 46.9	65 60	54.2 47.0
65	41.1	54	41.0
70 75	34.5 28.2	47 40	36.0 32.1
	Main h		nad fall
		,,,	l (2821-2)
21	86	85	79.4
25 30	82.7 78.9	84 82	79.4 79.4
35	75.1	80	79.4
40	71.1	78 75	79.4
45 50	66.9 62.7	75 72	73.1 60.9
55	58.1	69	51.4
60 65	53.2	64 59	43.9
65 70	47.9 43.3	54	37.7 32.9
75	36.6	46	28.4
80	28.1	36	24.4

125	125.7				
Radius [ft ]:	boom		Load capacity [1000 lbs ]		
		-	oad fall l (2821-1)		
15	86	92	66.4		
20	82.9	92	314.3		
25	79.5	91	209.2		
30	76	89	148.3		
35	72.5	88	113.4		
40	68.9	86	90.8		
45	65.1	83	74.9		
50	61.3	80	63.2		
55	57.3	77	54.1		
60	53.1	73	46.9		
65	48.5	69	41.0		
70	43.7	64	36.1		
75	39.5	59	32.2		
80	33.4	51	28.5		
85	26.1	41	25.3		
85 ft	Main b	oom, L	oad fall l (2821-2)		
21	86	94	79.4		
25	83.6	94	79.4		
30	80.2	92	79.4		
35	76.8	91	79.4		
40	73.3	89	79.4		
45	69.8	86	73.1		
50	66.2	84	60.9		
55	62.3	81	51.4		
60	58.3	77	43.9		
65	54	73	37.7		
70	50.5	69	33.0		
75	45.6	63	28.5		
80	40.2	57	24.7		
85	33.8	48	21.3		
90	25.7	37	18.2		
<b>95 ft</b>	<b>Main</b> b	00m, L	oad fall		
point B	oom, H	PT head	l (2821-1)		
16	86	102	443.4		
20	83.7	102	306.5		
25	80.6	101	206.5		
30	77.5	100	148.7		
35	74.4	98	113.8		
40	71.2	96	91.1		
45	67.9	94	75.3		
50	64.6	92	63.5		
55	61.1	89	54.5		
60	57.5	86	47.2		
65	53.8	82	41.4		
70	49.8	78	36.5		
75	46.5	74	32.6		
80	42	68	29.0		
85	37	62	25.9		
90	31.3	54	23.1		
95	24.3	43	20.6		

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
95 ft	Main b	oom, L	oad fall
			l (2821-2)
22 25	86	104	79.4 79.4
30	84.2 81.2	104 102	79.4
35	78.2	101	79.4 79.4
40 45	75.1 72	99 97	73.3
50	68.8	95	61.2
55 60	65.5 62	92 89	51.7 44.2
65	58.4	86	38.0
70 75	55.4 51.5	82 78	33.3 29.0
80	47.3	73	25.2
85 90	42.7 37.5	67 59	21.9 19.0
95	31.5	50	16.4
100	23.6	38	13.9
105 ft			oad fall
point B	oom, H	PT head	l (2821-1)
17 20	86 84.3	112 112	420.2 298.8
25	81.5	111	202.5
30 35	78.7 75.9	110 108	148.8 113.8
40	73.9	107	91.0
45	70.1	105	75.1
50 55	67.1 64.1	103 100	63.3 54.2
60	60.9	97	47.0
65 70	57.7 54.3	94 90	41.1 36.2
75	51.6	87	32.3
80 85	47.9 43.9	83 77	28.8 25.7
90	39.7	71	22.9
95 100	34.9 29.5	64 56	20.5 18.3
105	22.7	44	16.3
105 ft	Main	boom, I	oad fall
point B			l (2821-2)
23	86	114	79.4 79.4
25 30	84.8 82.1	114 113	79.4 79.4
35	79.3	111	79.4
40 45	76.5 73.7	110 108	79.4 73.2
50	70.9	106	61.0
55 60	68 64.9	104 101	51.5 44.0
65	61.8	98	37.8
70 75	59.2 55.8	95 91	33.1 28.7
80	52.3	87	25.0
85 90	48.6 44.6	82 76	21.7 18.9
95	40.2	70	16.3
100	35.3	62 52	14.0
105 110	29.5 21.9	39	11.9 9.8



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: 360  $^{\circ}$  Foot print: 2-wide track Counterweight [1000 lbs ]: 0.0 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
18 20 25 30 35	86 84.8 82.2 79.7 77.1	122 121 121 120 118	374.4 291.0 198.5 148.6 113.7
40 45 50 55 60	74.5 71.9 69.2 66.5 63.7 60.8	117 115 113 111 109	91.0 75.0 63.2 54.1 46.8 40.9
65 70 75 80 85	57.9 55.5 52.3 49 45.5	106 103 100 96 92 86	36.1 32.2 28.6 25.5 22.8
95 100 105 110 115	41.7 37.6 33.1 27.9 21.4	81 74 67 58	20.4 18.3 16.3 14.6 12.9
115 ft	Main l	boom, I	oad fall l (2821-2)
23 25 30 35 40	86 85.2 82.7 80.2 77.7	124 124 123 122 120	79.4 79.4 79.4 79.4 79.4
45 50 55 60 65	75.1 72.6 70 67.2 64.4	118 117 114 112 109	73.1 60.9 51.4 43.9 37.7
70 75 80 85 90	62.2 59.2 56.2 53 49.6	107 103 100 95 91	33.0 28.6 24.9 21.7 18.8
95 100 105 110 115 120	46.1 42.3 38.1 33.3 27.8 20.4	85 79 72 64 54 39	16.3 14.0 12.0 10.1 8.3 6.6

125	.7		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
18	86	132	337.3
20	85.2	131	283.7
25	82.9	131	194.6
30	80.5	130	146.0
35	78.2	129	113.7
40	75.8	127	90.8
45	73.4	126	74.8
50	70.9	124	62.9
55	68.5	122	53.7
60	65.9	120	46.5
65	63.4	117	40.6
70	60.7	114	35.7
75	58.6	112	31.8
80	55.8	108	28.2
85	52.9	104	25.2
90	49.9	100	22.5
95	46.7	96	20.1
100	43.4	90	17.9
105	39.8	84	16.0
110	35.9	77	14.3
115	31.5	69	12.7
120	26.5	60	11.2
125	20.2	47	9.8
			oad fall l (2821-2)
24	86	134	79.4
25	85.6	134	79.4
30	83.3	133	79.4
35	81	132	79.4
40	78.7	130	79.4
45	76.3	129	73.0
50	74.1	127	60.7
55	71.6	125	51.2
60	69.2	123	43.6
65	66.6	120	37.4
70	64.6	118	32.7
75	61.9	115	28.3
80	59.2	112	24.6
85	56.4	108	21.3
90	53.5	104	18.5
95	50.5	100	16.0
100	47.3	94	13.7
105	43.9	89	11.7
110	40.2	82	9.8
115	36.2	75	8.1
120	31.7	66	6.6
125	26.3	55	5.1

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-1)
19	86	141	306.1
20	85.5	141	276.6
25	83.4	141	190.8
30	81.2	140	143.6
35	79	139	113.6
40	76.9	138	90.7
45	74.6	136	74.7
50	72.4	134	62.8
55	70.1	133	53.7
60	67.8	130	46.4
65	65.5	128	40.5
70	63.1	126	35.6
75	61.2	123	31.8
80	58.7	120	28.2
85	56.1	117	25.1
90 95 100 105 110	53.4 50.6 47.8 44.7 41.5	117 113 109 104 99 94	22.4 20.0 17.9 16.0 14.3
115	38.1	87	12.7
120	34.3	80	11.3
125	30.1	72	9.9
130	25.2	61	8.7
134 ft point B			oad fall l (2821-2)
25	86	144	79.4
25	85.9	143	79.4
30	83.8	143	79.4
35	81.7	142	79.4
40	79.5	140	79.4
45	77.4	139	73.0
50	75.3	138	60.7
55	73	136	51.1
60	70.8	134	43.5
65	68.5	131	37.4
70	66.6	129	32.6
75	64.2	127	28.2
80	61.8	124	24.5
85	59.3	120	21.3
90	56.7	117	18.4
95	54	113	15.9
100	51.2	108	13.7
105	48.3	103	11.7
110	45.2	98	9.9
115	42	92	8.2
120	38.4	85	6.7
125	34.6	77	5.3
130	30.2	68	4.0
135	24.9	56	2.7



Version: 9839979/59979/ HPT foot: 2821-1 360°

> 0.0 125.7

Degree rating: 2-wide track Foot print: Counterweight [1000 lbs ]: Carbody counterweight [1000 lbs ]:

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]				
	144 ft Main boom, Load fall point Boom, HPT head (2821-1)						
20	86	151	66.4				
20	85.8	151	269.7				
25	83.8	150	187.0				
30	81.8	150	141.0				
35	79.8	149	111.8				
40	77.8	148	90.6				
45	75.7	146	74.5				
50	73.6	145	62.5				
55	71.5	143	53.3				
60	69.4	141	46.1				
65	67.3	139	40.1				
70	65.1	137	35.2				
75	63.3	135	31.3				
80	61	132	27.8				
85	58.7	129	24.7				
90	56.3	125	22.0				
95	53.8	122	19.6				
100	51.3	118	17.5				
105	48.6	113	15.6				
110	45.9	108	13.8				
115	43	103	12.3				
120	39.9	97	10.8				
125	36.5	90	9.5				
130	32.9	82	8.3				
135	28.8	74	7.2				
140	24.1	63	6.1				

154 ft	Main	boom,	Lo	ad fa	11
point B	oom, H	IPT hea	ad (	2821	-1)

20	86	161	66.4
25	84.2	160	183.1
30	82.4	160	138.4
35	80.5	159	109.8
40	78.6	158	89.9
45	76.7	157	74.2
50	74.7	155	62.2
55	72.8	154	53.0
60	70.8	152	45.7
65	68.8	150	39.8
70	66.8	148	34.9
75	65.2	146	31.0
80	63.1	143	27.4
85	60.9	140	24.3
90	58.8	137	21.6
95	56.5	134	19.2
100	54.2	130	17.1
105	51.9	126	15.2
110	49.4	122	13.5
115	46.8	117	12.0
120	44.2	112	10.5
125	41.4	106	9.2
130	38.4	100	8.0
135	35.2	93	6.9
140	31.6	85	5.9
145	27.7	76	4.9
150	23.1	64	4.0

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-1)
21	86	171	237.5
25	84.6	170	179.3
30	82.8	170	135.8
35	81	169	107.8
40	79.3	168	88.2
45	77.5	167	73.8
50	75.7	165	61.9
55	73.8	164	52.7
60	72	162	45.3
65	70.1	160	39.4
70	68.3	158	34.4
75	66.8	157	30.6
80	64.8	154	27.0
85	62.9	152	23.9
90	60.8	149	21.2
95	58.8	146	18.8
100	56.7	142	16.6
105	54.6	139	14.7
110	52.3	135	13.0
115	50.1	131	11.5
120	47.7	126	10.0
125	45.2	121	8.7
130	42.6	116	7.5
135	39.9	110	6.4
140	37	103	5.4
145	33.9	96	4.5
150	30.5	87	3.6
155	26.7	78	2.7

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Version: 9839979/59979/ HPT foot: 2821-1

Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
Main b	oom. L	oad fall
86 85.2		66.4 405.6
80.8	72	201.9
	70 68	125.8 87.7
66.8	66	65.9
56.6	60	51.6 41.6
50.9 46.1	56 52	34.2 28.8
39.2	46	24.1
		20.1
86 81.7	75 74	79.4 79.4
77.3	72	79.4 79.4
		65.6 50.5
63.2	64	39.8
		32.5 26.2
47.3	51	21.2
		17.0 13.3
	oom. L	
86	82	66.4
85.8	82	386.3
		196.8 126.5
74.1	79	88.2
65.9	77 75	66.3 52.1
61.5	72	42.1
53.2	66	34.6 29.3
48.1	61 56	24.6 20.8
36	49	17.5
28.2	40	14.7
Main b oom, H	oom, Le PT head	oad fall   (2821-2)
86 82.7		79.4 79.4
78.9	82	79.4
75.2 71.2	80 78	66.0 50.9
67	76	40.2
63.6 59.1	73 69	32.8 26.6
54.3 49.1	65 60	21.7 17.6
43.3 36.6	54 46	14.1 11.1
	**Boom angle [°]:   Main boom, H.      86	boom angle   Pulley height [°]:

0.0				
Radius [ft ]:	boom		Load capacity [1000 lbs ]	
			oad fall l (2821-1)	
15	86	92	66.4	
20	82.9	92	191.7	
25	79.5	91	126.1	
30	76	89	88.5	
35	72.5	88	66.4	
40	68.9	86	52.1	
45	65.1	83	42.0	
50	61.3	80	34.6	
55	58.2	78	29.2	
60	54	74	24.5	
65	49.5	70	20.7	
70	44.8	65	17.6	
75	39.5	59	14.8	
80	33.4	51	12.5	
85	26.1	41	10.3	
		oom, L PT head	oad fall l (2821-2)	
21 25 30 35 40 45 50 55 60 65	86 83.6 80.2 77 73.5 69.9 66.9 63.1 59.1 54.9 50.5	94 94 92 91 89 87 84 81 78 74	79.4 79.4 79.4 66.2 51.0 40.2 32.8 26.6 21.6 17.6	
75	45.6	63	11.2	
80	40.2	57	8.7	
85	33.8	48	6.4	
90	25.7	37	4.2	
95 ft		oom, L	oad fall	
point B		PT head	l (2821-1)	
16	86	102	294.5	
20	83.7	102	186.9	
25	80.6	101	123.9	
30	77.5	100	88.9	
35	74.4	98	66.8	
40	71.2	96	52.4	
45	67.9	94	42.4	
50	64.6	92	34.9	
55	61.9	90	29.5	
60	58.3	86	24.9	
65	54.6	83	21.1	
70	50.7	78	18.0	
75	46.5	74	15.3	
80	42	68	13.0	
85	37	62	10.9	
90	31.3	54	9.1	
95	24.3	43	7.5	

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
95 ft		oom, L	oad fall
point B		PT head	l (2821-2)
22	86	104	79.4
25	84.2	104	79.4
30	81.2	102	79.4
35	78.3	101	66.4
40	75.2	99	51.2
45	72.1	97	40.5
50	69.4	96	33.0
55	66.1	93	26.9
60	62.7	90	21.9
65	59.2	86	17.9
70	55.4	82	14.5
75	51.5	78	11.6
80	47.3	73	9.1
85	42.7	67	7.0
90	37.5	59	5.0
95 <b>105 ft</b>			3.2 oad fall
point B	oom, H	PT head	l (2821-1)
17	86	112	258.6
20	84.3	112	182.0
25	81.5	111	121.2
30	78.7	110	88.9
35	75.9	108	66.8
40	73	107	52.3
45	70.1	105	42.2
50	67.1	103	34.7
55	64.8	101	29.3
60	61.6	98	24.6
65	58.4	95	20.9
70	55.1	91	17.7
75	51.6	87	15.0
80	47.9	83	12.7
85	43.9	77	10.7
90	39.7	71	8.9
95	34.9	64	7.3
100	29.5	56	5.9
105	22.7	44	4.5
115 ft point B			oad fall l (2821-1)
18	86	122	229.6
20	84.8	121	177.0
25	82.2	121	118.6
30	79.7	120	87.1
35	77.1	118	66.7
40	74.5	117	52.2
45	71.9	115	42.1
50	69.2	113	34.6
55	67.1	112	29.1
60	64.3	109	24.5
65	61.4	106	20.7
70	58.5	103	17.5
75	55.5	100	14.9
80	52.3	96	12.6
85	49	92	10.6
90	45.5	86	8.8
95	41.7	81	7.3
100	37.6	74	5.9
105	33.1	67	4.6
110	27.9	58	3.4
115	21.4	46	2.3



Version: 9839979/59979/ HPT foot: 2821-1

[ft]: boom angle [°]: lft]: ]  66 ft Main boom, Load fall point Boom, HPT head (2821-1)  14 86 73 66.4 15 85.2 72 603.2 20 80.8 72 574.2 25 76.2 70 481.3 30 71.6 68 407.3 35 66.8 66 347.0 40 61.9 63 301.0 45 56.6 60 265.2 50 50.9 56 236.5 55 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 30 77.3 72 79.4 30 77.3 72 79.4 30 77.3 72 79.4 35 72.8 70 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 66 45.8 50 79.4 76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)			1				
Angle   Height   1000 lbs   100 lb	Radius	Main	Rope	Load			
C	լու յ։						
66 ft Main boom, Load fall point Boom, HPT head (2821-1)  14				_			
point Boom, HPT head (2821-1)  14 86 73 66.4 15 85.2 72 603.2 20 80.8 72 574.2 25 76.2 70 481.3 30 71.6 68 407.3 35 66.8 66 347.0 40 61.9 66 60 265.2 50 50.9 56 236.5 55 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 30 77.3 72 79.4 30 77.3 72 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 60 45.8 50 79.4 70 28.7 32 79.4 76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  77 69 236.7 52 165 213.2 60 46.9 60 193.6 65 41.1 5 47 69.3 66 41.1 5 72 265.3 60 46.9 60 193.6 65 41.1 5 47 69.3 66 41.1 5 72 265.3 60 46.9 60 193.6 65 41.1 5 47 69.3 66 41.1 5 72 265.3 60 46.9 60 193.6 65 41.1 5 47 69.3 66 41.1 5 47 69.3 66 69 75 79.4 67 22 27 94.4 68 69 75 79.4 68 69 75 79.4 69 236.7	0			_			
14 86 73 66.4 15 85.2 72 603.2 20 80.8 72 574.2 25 76.2 70 481.3 30 71.6 68 407.3 35 66.8 66 347.0 40 61.9 63 301.0 45 56.6 60 265.2 50 50.9 56 236.5 55 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 30 77.3 72 79.4 30 77.3 72 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 70 28.7 32 79.4 76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 79.4 70 34.5 47 162.5 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 79.4 76 ft Main boom, Load fall point Boom, HPT head (2821-1)  76 ft Main boom, Load fall point Boom, Load fall point Boom, HPT head (2821-1)							
15	Боли Р	oom, n	гт пеас	1 (2821-1)			
15	14	96	72	66.4			
20 80.8 72 574.2 255 76.2 70 481.3 30 71.6 68 407.3 35 66.8 66 347.0 40 61.9 63 301.0 45 56.6 60 265.2 50 50.9 56 236.5 55 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 40 68 67 79.4 45 63.1 64 79.4 55 52.2 55 79.4 60 45.8 50 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-1)							
30		80.8					
35 66.8 66 347.0 40 61.9 63 301.0 45 56.6 60 236.5 50 50.9 56 236.5 55 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 30 77.3 72 79.4 30 77.3 72 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)							
40 61.9 63 301.0 45 56.6 60 265.2 50 50.9 56 236.5 55 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 25 81.7 74 79.4 30 77.3 72 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  76 ft Main boom, Load fall point Boom, Load fall point Boom, HPT head (2821-1)							
50 50.9 56 236.5 44.7 51 212.9 60 37.5 44 193.2 65 28.7 36 176.3    66 ft Main boom, Load fall point Boom, HPT head (2821-2)    20 86 75 79.4 79.4 30 77.3 72 79.4 30 77.3 72 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 65 38.4 42 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 79.4 70 28.7 32 79.4 70 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4	40	61.9	63				
55         44.7         51         212.9           60         37.5         44         193.2           65         28.7         36         176.3           66 ft Main boom, Load fall point Boom, HPT head (2821-2)           20         86         75         79.4           25         81.7         74         79.4           30         77.3         72         79.4           40         68         67         79.4           40         68         67         79.4           45         63.1         64         79.4           50         57.9         60         79.4           55         52.2         55         79.4           60         45.8         50         79.4           65         38.4         42         79.4           70         28.7         32         79.4           70         28.7         32         79.4           70         28.7         32         79.4           70         28.7         32         79.4           70         28.7         32         79.4           76 ft Main boom, Load fall point Boom, HPT head (2821-1) <tr< td=""><td></td><td></td><td></td><td></td></tr<>							
60 37.5 44 193.2 176.3  66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 79.4 30 77.3 72 79.4 35 72.8 70 79.4 40 68 67 79.4 45 63.1 64 79.4 55 52.2 55 79.4 60 45.8 50 79.4 66 45.8 50 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 28.7 32 79.4 70 70.5 70.5 70.5 70.5 70.5 70.5 70.5 7							
66 ft Main boom, Load fall point Boom, HPT head (2821-2)  20 86 75 79.4 25 81.7 74 79.4 30 77.3 72 79.4 35 72.8 70 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 76.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)	60	37.5	44	193.2			
point Boom, HPT head (2821-2)           20         86         75         79.4           25         81.7         74         79.4           30         77.3         72         79.4           40         68         67         79.4           40         68         67         79.4           45         63.1         64         79.4           50         57.9         60         79.4           60         45.8         50         79.4           60         45.8         50         79.4           65         38.4         42         79.4           70         28.7         32         79.4           65         38.4         42         79.4           70         28.7         32         79.4           70         28.7         32         79.4           70         28.7         32         79.4           70         45.8         80         79.4           70         28.7         32         79.4           76         ft Main boom, Load fall         481.2         30           30         70.1         77         347.0	65	28.7	36	176.3			
20 86 75 79.4 25 81.7 74 79.4 30 77.3 72 79.4 35 72.8 70 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 57 2 265.3 50 57 69 236.7 50 46.9 60 193.6 65 41.1 67 67 69 236.7 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)							
25 81.7 74 79.4 30 77.3 72 79.4 35 72.8 70 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 67.5 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)	point B	oom, H	PT head	l (2821-2)			
25 81.7 74 79.4 30 77.3 72 79.4 35 72.8 70 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 67.5 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)	20	96	75	70.4			
30 77.3 72 79.4 35 72.8 70 79.4 40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 60 45.8 50 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)							
40 68 67 79.4 45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 30 78.9 82 79.4 31 79.4 42 66.9 75 79.4 30 78.9 82 79.4 31 79.4 42 66.9 75 79.4 35 75.1 80 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4 45 66.9 75 79.4	30	77.3	72	79.4			
45 63.1 64 79.4 50 57.9 60 79.4 55 52.2 55 79.4 60 45.8 50 79.4 65 38.4 42 79.4 70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 22 82 79.4 30 78.9 82 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
50         57.9         60         79.4           55         52.2         55         79.4           60         45.8         50         79.4           65         38.4         42         79.4           70         28.7         32         79.4           70         28.7         32         79.4           76         ft Main boom, Load fall point Boom, HPT head (2821-1)           15         86         82         66.4           15         85.8         82         661.4           20         82         82         587.5           25         78.1         80         481.2           30         74.1         79         406.8           35         70.1         77         347.0           40         65.9         75         301.1           45         61.5         72         265.3           50         57         69         236.7           55         52.1         65         213.2           60         46.9         60         193.6           65         41.1         54         176.9           70         34.5         47							
60		57.9					
65         38.4         42         79.4           70         28.7         32         79.4           76 ft Main boom, Load fall point Boom, HPT head (2821-1)           15         86         82         66.4           15         85.8         82         661.4           20         82         82         587.5           25         78.1         80         481.2           30         74.1         79         406.8           35         70.1         77         347.0           40         65.9         75         301.1           45         61.5         72         265.3           50         57         69         236.7           55         52.1         65         213.2           60         46.9         60         193.6           65         41.1         54         176.9           70         34.5         47         162.5           75         26.2         37         149.1           T6 ft Main boom, Load fall point Boom, HPT head (2821-2)           21         86         85         79.4           25         82.7         84         79.4 <td></td> <td></td> <td></td> <td></td>							
70 28.7 32 79.4  76 ft Main boom, Load fall point Boom, HPT head (2821-1)  15 86 82 66.4 15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
point Boom, HPT head (2821-1)    15							
point Boom, HPT head (2821-1)    15	76 ft						
15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 661.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
15 85.8 82 661.4 20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 661.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
20 82 82 587.5 25 78.1 80 481.2 30 74.1 79 406.8 35 70.1 77 347.0 40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1  76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 45 66.9 75 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
25							
35							
40 65.9 75 301.1 45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1 <b>76 ft Main boom, Load fall point Boom, HPT head (2821-2)</b> 21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
45 61.5 72 265.3 50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1 76 ft Main boom, Load fall point Boom, HPT head (2821-2) 21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 35 75.1 80 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
50 57 69 236.7 55 52.1 65 213.2 60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1 <b>76 ft Main boom, Load fall point Boom, HPT head (2821-2)</b> 21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 30 78.9 82 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
60 46.9 60 193.6 65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1 <b>76 ft Main boom, Load fall point Boom, HPT head (2821-2)</b> 21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 35 75.1 80 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
65 41.1 54 176.9 70 34.5 47 162.5 75 26.2 37 149.1 <b>76 ft Main boom, Load fall point Boom, HPT head (2821-2)</b> 21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 35 75.1 80 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
70 34.5 47 162.5 75 26.2 37 149.1 <b>76 ft Main boom, Load fall point Boom, HPT head (2821-2)</b> 21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 35 75.1 80 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4							
76 ft Main boom, Load fall point Boom, HPT head (2821-2)  21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 35 75.1 80 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4	70	34.5	47	162.5			
point Boom, HPT head (2821-2)           21         86         85         79.4           25         82.7         84         79.4           30         78.9         82         79.4           35         75.1         80         79.4           40         71.1         78         79.4           45         66.9         75         79.4           50         62.6         72         79.4           55         58.1         68         79.4							
21 86 85 79.4 25 82.7 84 79.4 30 78.9 82 79.4 35 75.1 80 79.4 40 71.1 78 79.4 45 66.9 75 79.4 50 62.6 72 79.4 55 58.1 68 79.4		Main b	oom, L				
25         82.7         84         79.4           30         78.9         82         79.4           35         75.1         80         79.4           40         71.1         78         79.4           45         66.9         75         79.4           50         62.6         72         79.4           55         58.1         68         79.4	հուսու թ	oum, fl	ı ı neac	· (≈0≈1-2)			
25         82.7         84         79.4           30         78.9         82         79.4           35         75.1         80         79.4           40         71.1         78         79.4           45         66.9         75         79.4           50         62.6         72         79.4           55         58.1         68         79.4	21		85	79.4			
35         75.1         80         79.4           40         71.1         78         79.4           45         66.9         75         79.4           50         62.6         72         79.4           55         58.1         68         79.4			84				
40         71.1         78         79.4           45         66.9         75         79.4           50         62.6         72         79.4           55         58.1         68         79.4							
45     66.9     75     79.4       50     62.6     72     79.4       55     58.1     68     79.4			78				
55 58.1 68 79.4	45	66.9	75	79.4			
60 53.2 64 79.4							
65 47.9 59 79.4	65	47.9	59	79.4			
70 42 52 79.4 75 35 44 79.4							
	75 80	35 25.8	33	79.4 79.4			

125	. 1		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
85 ft point B			oad fall l (2821-1)
15	86	92	66.4
20	82.9	92	588.9
25	79.5	91	482.4
30	76	89	401.7
35	72.5	88	346.3
40	68.9	86	300.4
45	65.1	83	264.7
50	61.3	80	236.0
55	57.3	77	212.6
60	53.1	73	193.0
65	48.5	69	176.4
70	43.7	64	162.2
75	38.3	57	149.3
80	32	49	136.7
85	24.2	39	125.8
85 ft	Main b	oom, L	oad fall l (2821-2)
21	86	94	79.4
25	83.6	94	79.4
30	80.2	92	79.4
35	76.8	91	79.4
40	73.3	89	79.4
45 50 55 60 65	69.8 66.1 62.3 58.3 54	86 84 81 77 73	79.4 79.4 79.4 79.4 79.4 79.4
70 75 80 85 90	49.5 44.5 38.9 32.3 23.4	68 62 55 46 34	79.4 79.4 79.4 79.4 79.4 79.4
95 ft	Main b	oom, L	
16	86	102	662.4
20	83.7	102	583.2
25	80.6	101	473.9
30	77.5	100	400.6
35	74.4	98	345.8
40	71.2	96	300.6
45	67.9	94	264.9
50	64.6	92	236.3
55	61.1	89	212.9
60	57.5	86	193.4
65	53.8	82	176.8
70	49.8	78	162.6
75	45.6	73	149.8
80	41	67	137.3
85	35.9	60	126.5
90	29.9	52	117.0
95	22.5	40	108.7

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
95 ft point B	Main b	oom, L	-
22	86	104	79.4
25 30	84.2 81.2	104 102	79.4 79.4
35	78.2	101	79.4
40 45	75.1 72	99 97	79.4 79.4
50	68.7	95	79.4
55 60	65.4 62	92 89	79.4 79.4
65	58.4	86	79.4
70 75	54.6 50.6	82 77	79.4 79.4
80	46.3	71	79.4
85 90	41.6 36.3	65 58	79.4 79.4
95	30.3	48	79.4
100	21.5	34	79.4
105 ft			oad fall
point B	oom, H	PT head	l (2821-1)
17	86	112	642.5
20 25	84.3 81.5	112 111	577.5 470.7
30	78.7	110	399.2
35	75.9	108	343.1
40 45	73 70.1	107 105	299.8 264.1
50	67.1	103	235.5
55 60	64.1 60.9	100 97	212.1 192.6
65	57.7	94	176.1
70 75	54.3 50.8	90 86	161.9 149.6
80	47	82	137.1
85 90	43 38.7	76 70	126.3 116.9
95	33.8	63	108.6
100 105	28.2 22.7	54 44	101.3 33.4
105 ft	Main	boom, I	oad fall
point B	oom, H	PT head	l (2821-2)
23	86	114	79.4
25 30	84.8 82.1	114 113	79.4 79.4
35	79.3	111	79.4 79.4
40	76.5 73.7	110 108	79.4 79.4
45 50	70.8	108	79.4 79.4
55	67.9	103	79.4
60 65	64.9 61.7	101 98	79.4 79.4
70	58.5	94	79.4
75 80	55.1 51.5	90 86	79.4 79.4
85	47.8	81	79.4
90 95	43.7 39.2	75 68	79.4 79.4
100	34.1	60	79.4
105 110	28.1 19.8	50 35	79.4 79.4



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
115 ft point B			oad fall   (2821-1)
18 20	86 84.8	122 121	610.6 572.3
25	82.2	121	468.3
30	79.7	120	397.9
35	77.1	118	341.9
40	74.5	117	299.3
45 50	71.9	115	263.6 235.1
50 55	69.2 66.5	113 111	235.1
60	63.7	109	192.2
65	60.8	106	175.7
70	57.9	103	161.5
75	54.8	99	149.2
80	51.6	95	137.0
<u>85</u>	48.2 44.7	90	126.2 116.8
90 95	44.7	85 80	108.6
100	36.7	73	100.0
105	32	65	94.7
110	26.6	55	88.8
115	21.4	46	33.4
point B	Main l	PT head	oad fall   (2821-2)
23	86	124	79.4
25	85.2	124	79.4
30 35	82.7 80.2	123 122	79.4 79.4
40	77.7	122	79. <del>4</del> 79.4
45	75.1	118	79.4
50	72.5	116	79.4
55	69.9	114	79.4
60	67.2	112	79.4
65	64.4	109	79.4
70 75	61.5 58.6	106 103	79.4 79.4
75 80	55.5	99	79. <del>4</del> 79.4
85	52.3	94	79.4
90	48.9	90	79.4
95	45.3	84	79.4
400	111	78	79.4
100	41.4		
105	37.1	70	79.4

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
125 ft point B			oad fall l (2821-1)
18	86	132	580.4
20	85.2 82.9	131	570.6
25 30	80.5	131 130	466.0 391.0
35	78.2	129	339.6
40	75.8	127	296.5
45	73.4	126	262.7
50 55	70.9 68.5	124 122	234.2 210.8
60	65.9	122	191.3
65	63.4	117	174.8
70	60.7	114	160.6
75	58	111	148.3
80	55.2	108	136.6
<u>85</u> 90	52.3 49.2	104 99	125.8 116.5
95	46	94	108.2
100	42.6	89	100.9
105	39	83	94.4
110	35	76	88.6
115	30.5	67	83.3
120	1 253	I 57 I	78./
120 125	25.3 20.2	57 47	78.4 33.4
125	20.2	47	33.4
125 <b>125 ft</b>	20.2 <b>Main</b> 1	47 boom, I	33.4 oad fall
125 <b>125 ft</b> point B	20.2  Main 1  coom, H	47 boom, I PT head	33.4 Load fall (2821-2)
125 <b>125 ft point B</b> 24 25	20.2  Main 1  com, H	47 boom, I PT head 134 134	33.4 oad fall (2821-2) 79.4 79.4 79.4
125 125 ft point B  24 25 30	20.2 <b>Main</b> 1 <b>coom, H</b> 86 85.6 83.3	47 boom, I PT head 134 134 133	33.4 oad fall (2821-2) 79.4 79.4 79.4 79.4
125 ft point B  24 25 30 35	20.2 <b>Main I</b> <b>soom, H</b> 86 85.6 83.3 81	47 boom, I PT head 134 134 133 132	33.4 coad fall (2821-2) 79.4 79.4 79.4 79.4 79.4
125 125 ft point B  24 25 30	20.2 <b>Main</b> 1 <b>coom, H</b> 86 85.6 83.3	47 boom, I PT head 134 134 133	33.4 oad fall (2821-2) 79.4 79.4 79.4 79.4
125 ft point B  24 25 30 35 40 45 50	20.2  Main 1  com, H  86  85.6  83.3  81  78.7  76.3  74	47 boom, I PT head  134 134 133 132 130 129 127	33.4  .oad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4
125 ft point B  24 25 30 35 40 45 50 55	86 85.6 83.3 81 78.7 76.3 74 71.5	134 134 133 132 130 129 127 125	33.4 .oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
125 ft point B  24 25 30 35 40 45 50 55 60	20.2  Main 1  coom, H  86  85.6  83.3  81  78.7  76.3  74  71.5  69.1	134 134 133 132 130 129 127 125 123	33.4 .oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
125 ft point B  24 25 30 35 40 45 50 55 60 65	86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6	134 134 133 132 130 129 127 125 123 120	33.4 .oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
125 ft point B  24 25 30 35 40 45 50 55 60	20.2  Main 1  coom, H  86  85.6  83.3  81  78.7  76.3  74  71.5  69.1	134 134 133 132 130 129 127 125 123	33.4  .oad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4
125 ft point B  24 25 30 35 40 45 50 65 70 75 80	20.2  Main I  soom, H  86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64 61.4 61.4 58.6	134 134 133 132 130 129 127 125 123 120 118 114 111	33.4  .oad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4
125 ft point B  24 25 30 35 40 45 50 65 70 75 80 85	20.2 Main I 300m, H 300m, H	134 134 133 132 130 129 127 125 123 120 118 114 111	33.4  .oad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4
125 ft point B  24 25 30 35 40 45 50 65 70 75 80 85 90	20.2 Main I 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64 61.4 58.6 55.8 52.9	134 134 133 132 130 129 127 125 123 120 118 114 111 107 103	33.4  .oad fall (2821-2)  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4  79.4
125 ft point B  24 25 30 35 40 45 50 65 70 75 80 85 90 95	20.2  Main I  300m, H  360m, H	134 134 133 132 130 129 127 125 123 120 118 114 111 107 103	33.4  .oad fall (2821-2)  79.4
125 ft point B  24 25 30 35 40 45 50 65 70 75 80 85 90	20.2 Main I 86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64 61.4 58.6 55.8 52.9	134 134 133 132 130 129 127 125 123 120 118 114 111 107 103	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
125 ft point B  24	20.2  Main I  360m, H  360m, H  360m, H  366  85.6  83.3  81  78.7  76.3  74  71.5  69.1  66.6  64  61.4  58.6  55.8  49.8  46.6  43.1  39.4	134 134 133 132 130 129 127 125 123 120 118 114 111 107 98 93 87 81	33.4  .oad fall (2821-2)  79.4
125 ft point B  24 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105	20.2  Main I  soom, H  86 85.6 83.3 81 78.7 76.3 74 71.5 69.1 66.6 64 61.4 58.6 55.8 52.9 49.8 46.6 43.1	134 134 133 132 130 129 127 123 123 120 118 114 111 107 103 98 93 87	33.4  .oad fall (2821-2)  79.4

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
134 ft point B			oad fall l (2821-1)
19	86	141	553.0
20	85.5	141 141	553.0
25 30	83.4 81.2	140	462.9 388.6
35	79	139	338.9
40	76.9	138	295.3
45 50	74.6 72.4	136 134	262.0 234.0
55	70.1	133	210.6
60	67.8	130	191.1
65	65.5	128	174.6
70 75	63.1 60.6	126 123	160.5 148.2
75 80	58.1	120	136.6
85	55.5	116	125.8
90	52.8	112	116.4
95	50	108	108.2
100 105	47.1 44	103 98	100.9 94.4
110	40.8	92	88.6
115	37.3	86	83.3
120	33.4	78	78.5
125 130	29.1 24.1	70 59	74.1 70.1
134 ft point B			oad fall l (2821-2)
25	86	144	79.4
25	85.9	143	79.4
30 35	83.8 81.7	143 142	79.4 79.4
40	79.5	140	79.4
45	77.4	139	79.4
50	75.2	137	79.4
55 60	72.9 70.7	136 134	79.4 79.4
65	68.4	131	79.4
70	66.1	129	79.4
75	63.7	126	79.4
80 85	61.2 58.7	123 120	79.4 79.4
90	56.1	116	79. <del>4</del> 79.4
95	53.4	112	79.4
100	50.6	107	79.4
105 110	47.7 44.6	102 97	79.4 79.4
115	41.2	90	78.8
120	37.6	84	73.9
125	33.7	75 65	69.4
130 135	29 23.4	65 53	65.3 61.5
140	18	40	33.4



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Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
144 ft point B			oad fall l (2821-1)
20	86	151	66.4
20	85.8	151	526.6
25	83.8	150	456.1
30	81.8	150	386.3
35	79.8	149	334.5
40	77.8	148	294.2
45	75.7	146	260.1
50	73.6	145	233.1
55	71.5	143	209.7
60	69.4	141	190.2
65	67.3	139	173.7
70	65.1	137	159.6
75	62.8	134	147.3
80	60.5	131	136.2
85	58.2	128	125.4
90	55.8	125	116.0
95	53.3	121	107.8
100	50.7	117	100.5
105	48.1	112	94.0
110	45.3	107	88.2
115 120 125 130	42.3 39.2 35.8	102 96 89 81	82.9 78.1 73.8 69.8
135 140 144 ft point B			66.1 62.7 coad fall (2821-2)
25	86	153	79.4
30	84.2	153	79.4
35	82.2	152	79.4
40	80.2	151	79.4
45	78.2	149	79.4
50	76.2	148	79.4
55	74.1	146	79.4
60	72.1	144	79.4
65	70	142	79.4
70	67.8	140	79.4
75	65.6	137	79.4
80	63.4	134	79.4
85	61.1	131	79.4
90	58.8	128	79.4
95	56.4	124	79.4
100	53.9	120	79.4
105	51.3	116	78.9
110	48.6	111	77.6
115	45.7	106	76.4
120	42.7	100	73.6
125 130 135 140 145 150	39.5 36.1 32.1 27.7 22.3 16.9	94 86 77 67 54 41	69.1 65.1 61.3 57.8 54.5

125	.7		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
	Main		oad fall l (2821-1)
20	86	161	66.4
25 30	84.2 82.4	160 160	451.7 384.4
35	80.5	159	330.8
40	78.6	158	292.9
45 50	76.7 74.7	157 155	259.0 232.0
55	72.8	154	209.1
60 65	70.8 68.8	152 150	189.6
70	66.8	148	173.1 159.0
75	64.7	145	146.7
80 85	62.6 60.5	142 140	135.9 125.1
90	58.3	136	115.7
95	56	133	107.5
100 105	53.7 51.3	129 125	100.2
110	48.9	125	93.7 87.9
115	46.3	116	82.6
120 125	43.6 40.7	111	77.8 73.5
130	37.7	105 99	69.5
135	34.4	91	65.8
140	30.8	83	62.4
145 150	26.8 22	73 62	59.3 56.4
			oad fall l (2821-2)
26	86	163	79.4
30 35	84.6 82.7	163 162	79.4 79.4
40	80.9	161	79.4
<u>45</u>	79	159	79.4
50 55	77.1 75.2	158 156	79.4 79.4
60	73.2	155	79.4
65	71.3	153	79.4
70 75	69.3 67.3	151 148	79.4 79.4
80	65.2	146	79.4
85	63.1	143	79.4 79.4
90 95	61 58.8	140 136	79.4 79.4
100	56.6	133	79.4
105 110	54.2 51.8	129 125	79.4 79.1
	49.3	120	76.3
115		115	73.3
120	46.7		
120 125	44	109	68.9 64.8
120	44 41.1		68.9 64.8 61.1
120 125 130 135 140	44 41.1 37.9 34.6	109 103 96 88	64.8 61.1 57.6
120 125 130 135	44 41.1 37.9	109 103 96	64.8 61.1

Radius [ft ]:	Main boom angle	Rope pulley height	Load capacity [1000 lbs
	[°]:	[ft]:	]
164 ft point B			oad fall l (2821-1)
21	86	171	475.6
25 30	84.6 82.8	170 170	446.9 382.5
35	81	169	328.2
40 45	79.3 77.5	168 167	290.8 257.5
50	75.7	165	230.0
55 60	73.8 72	164 162	208.1 188.7
65	70.1	160	172.2
70 75	68.3 66.3	158 156	158.0 145.8
80	64.4	154	135.0
85	62.4	151	124.6
90 95	60.4 58.4	148 145	115.2 107.0
100	56.2	142	99.7
105 110	54.1 51.9	138 134	93.2 87.4
115	49.6	130	82.1
120 125	47.2 44.7	125 120	77.4 73.0
130	42.1	114	69.0
135 140	39.3 36.4	108 102	65.4 62.0
145	33.2	94	58.9
150	29.7	85	55.9
155 160	25.8 21.1	75 63	53.2 50.7
164 ft point B			oad fall l (2821-2)
27	86	173	79.4
30 35	84.9 83.2	172 172	79.4 79.4
40	81.4	171	79.4
<u>45</u> 50	79.6 77.9	170 168	79.4 79.4
55	76.1	167	79.4
60 65	74.3 72.5	165 163	79.4 79.4
70	70.6	161	79.4
75 80	68.7 66.8	159 157	79.4 79.4
85	64.9	154	79.4
90	62.9	151	79.4 79.4
95 100	60.9 58.8	148 145	79.4 79.4
105	56.7	141	79.4
110 115	54.6 52.3	138 133	79.4 77.7
120	50	129	72.9
125 130	47.6 45.1	124 119	68.5 64.4
135	42.4	113	60.7
140 145	39.6 36.6	106 99	57.2 54.1
150	33.3	91	51.1
155 160	29.6 25.6	81 71	48.3 45.7
		57	43.2



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Degree rating: limited  $^{\circ}$ Foot print: 3-blocked crawlers Counterweight [1000 lbs ]: 273.4 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]	
174 ft point B			oad fall l (2821-1)	
22	86	181	448.5	
25	84.9	180	438.3	
30	83.2	180	377.6	
35	81.6	179	326.0	
40	79.9	178	286.8	
45 50	78.2 76.5	177 176	256.2 228.4	
55	74.8	176	205.8	
60	73.1	173	188.3	
65	71.3	171	171.8	
70	69.6	169	157.7	
75	67.8	167	145.4	
80	66	165	134.7	
85	64.1	162	124.4	
90	62.3	160	115.0	
95	60.4	157	106.8	
100	58.4	154	99.5	
105 110	56.4 54.4	150 146	93.0	
115	52.3	143	87.2 81.9	
120	50.2	138	77.1	
125	47.9	134	72.8	
130	45.6	129	68.8	
135	43.2	124	65.2	
140	40.7	118	61.8	
145	38	111	58.7	
150	35.2	104	55.8	
155	32.1	96	53.1	
160 165	28.7 24.9	88 77	50.6 48.2	
170	20.3	64	45.9	
174 ft Main boom, Load fall point Boom, HPT head (2821-2)				
28	86	183	79.4	
30	85.2	182	79.4	
35	83.5	182	79.4	
40	81.9	181	79.4	
45	80.2	180	79.4	
50	78.6	178	79.4	
55	76.9	177	79.4	
60	75.2	176 174	79.4 79.4	
65 70	73.5 71.7	174	79.4 79.4	

70 68.2

66.4

64.6 62.7

60.8 58.9 56.9

54.9

52.8

50.6 48.4

46 43.6 41

38.3

35.3 32.1

28.6

70 75 80

85

90

120

150 155

160

165

170

172 170 168

165

146

142

138 133

128 122 116

109

102

93

83

79.4 79.4

79.4

79.4

79.1

78.8 78.5 78.2

77.5 72.7

68.3 64.2 60.5 57.1 53.9

51.0 48.2 45.6 43.2

40.9

Radius [ft]:	Main boom	Rope	Load capacity
[20].	angle	height	capacity [1000 lbs
	[°]:	[ft ]:	]
184 ft	Main l	boom, I	oad fall
point B	oom, H	PT head	l (2821-1)
22 25	86	190	419.7 419.7
30	85.2 83.6	190 190	368.6
35	82	189	323.8
40 45	80.4 78.8	188 187	283.7 254.8
50	77.2	186	227.3
55 60	75.6 74	184 183	204.6
65		181	186.5 170.9
70	72.4 70.7	180	156.8
75 80	69 67.3	178 176	144.5 133.8
85	65.6	173	123.9
90	63.9	171	114.5
95 100	62.1 60.3	168 165	106.3 99.0
105	58.5	162	92.5
110 115	56.6 54.7	159 155	86.7 81.4
120	52.7	151	76.6
125	50.7	147	72.3
130 135	48.6 46.5	143 138	68.3 64.7
140	44.2	133	61.3
145 150	41.9 39.4	127 121	58.2 55.3
155	36.8	114	52.6
160	34.1	107 99	50.1 47.7
165 170	31.1 27.8	99	45.5
175	24	79	43.4
180	19.6	65	41.4
	Main		.oad fall l (2821-2)
point D	00III, II.	i i ileac	(2021-2)
28	86	193	79.4
30	85.4	192	79.4
35 40	83.9 82.3	192 191	79.4 79.4
45	80.8	190	79.4
50	79.2	189	79.4
55 60	77.6 76	187 186	79.4 79.4
65	74.4	184	79.4
70 75	72.8 71.1	182 180	79.4 79.4
80	69.4	178	79.4
85	67.8	176	79.4
90 95	66.1 64.3	174 171	79.4 79.4
100	62.5	168	78.1
105	60.8	165	76.8

Radius	Main	Rope	Load
[ft ]:	boom angle	pulley height	capacity [1000 lbs
	[°]:	[ft ]:	]
184 ft	Main l	boom, L	oad fall
point B			(2821-2)
110 115	58.9 57	162 158	75.7 74.7
120	55.1	155	72.2
125 130	53.2 51.1	151 146	67.8 63.8
135	49	142	60.1
140 145	46.8 44.6	137 131	56.6 53.5
150	42.2	125	50.5
155 160	39.7 37	119 112	47.8 45.2
165	34.2	104	42.8
170 175	31 27.7	95 85	40.5 38.4
180	23.6	73	36.3
185	18.6	58	34.1
	Main l		oad fall (2821-1)
	,		(111)
23	86	200	392.7
25 30	85.4 83.9	200 200	392.7 358.4
35	82.4	199	321.6
40 45	80.9 79.4	198 197	281.4 251.9
50	77.9	196	226.4
55 60	76.4 74.8	195 193	203.3 184.2
65	73.3	192	169.1
70 75	71.7 70.2	190 188	156.1 143.8
80	68.6	186	133.1
85 90	66.9 65.3	184 182	123.5 114.1
95 100	63.7 62	179 176	105.9 98.6
105	60.3	174	92.1
110 115	58.5 56.8	170 167	86.3
120	54.9	164	81.0 76.2
120 125	54.9 53.1	164 160	76.2 71.9
120 125 130 135	54.9 53.1 51.2 49.2	164 160 156 151	76.2 71.9 67.9 64.3
120 125 130	54.9 53.1 51.2 49.2 47.2	164 160 156	76.2 71.9 67.9 64.3 60.9
120 125 130 135 140 145 150	54.9 53.1 51.2 49.2 47.2 45.1 42.9	164 160 156 151 147 142 136	76.2 71.9 67.9 64.3 60.9 57.8 54.9
120 125 130 135 140 145	54.9 53.1 51.2 49.2 47.2 45.1 42.9 40.7	164 160 156 151 147 142	76.2 71.9 67.9 64.3 60.9 57.8 54.9 52.2
120 125 130 135 140 145 150 155 160 165	54.9 53.1 51.2 49.2 47.2 45.1 42.9 40.7 38.3 35.7	164 160 156 151 147 142 136 131 124 117	76.2 71.9 67.9 64.3 60.9 57.8 54.9 52.2 49.7 47.4
120 125 130 135 140 145 150 155 160	54.9 53.1 51.2 49.2 47.2 45.1 42.9 40.7 38.3	164 160 156 151 147 142 136 131 124 117	76.2 71.9 67.9 64.3 60.9 57.8 54.9 52.2 49.7
120 125 130 135 140 145 150 155 160 165	54.9 53.1 51.2 49.2 47.2 45.1 42.9 40.7 38.3 35.7	164 160 156 151 147 142 136 131 124 117	76.2 71.9 67.9 64.3 60.9 57.8 54.9 52.2 49.7 47.4 45.2

64/81 16.7.2007



Version: 9839979/59979/ HPT foot: 2821-1

Radius	Main	Rone	Load
ft ]:	boom	Rope pulley	capacity
[]	angle	height	[1000 lbs
	[°]:	[ft ]:	]
194 ft	Main l	hoom T	oad fall
			l (2821-2)
P01110 2	00111, 111		(4041 4)
29	86	202	79.4
30	85.7	202	79.4
35 40	84.2 82.7	202 201	79.4 79.4
45	81.2	200	79.4
50 55	79.7 78.2	199 198	79.4 79.4
60	76.2	196	79.4
65	75.2	195	79.4
70 75	73.7 72.1	193 191	79.4 79.4
80	70.5	189	79.4
85	69	187	79.4
90 95	67.4 65.7	185 182	79.4 79.4
100	64.1	180	79.1
105	62.4	177	76.9
110 115	60.7 58.9	174 170	74.9 72.9
120	57.2	167	71.2
125	55.4	163	67.4
130 135	53.5 51.6	159 155	63.4 59.7
140	49.6	150	56.3
145 150	47.6 45.5	146 140	53.1 50.2
155	43.2	135	47.4
160	41	129	44.9
165 170	38.5 35.9	122 115	42.5 40.2
175	33.1	106	38.0
180	30.1	98	35.9
185 190	26.8 23.8	87 78	33.8 32.0
195	19.2	63	30.1
203 ft	Main l	boom, L	oad fall
point B	oom, H	PT head	l (2821-1)
24	86	210	363.6
25 30	85.6 84.2	210 209	363.6 344.3
35	82.8	209	319.1
40	81.4	208	278.6
45 50	79.9 78.5	207 206	247.7 224.1
55	77	205	201.7
60 65	75.6 74.1	204 202	182.7 167.0
70	72.6	200	154.5
75	71.2	199	142.9
80 85	69.7 68.1	197 195	132.1 122.7
90	66.6	192	113.7
95	65	190	105.4
100 105	63.5 61.9	188 185	98.1 91.6
110	60.2	182	85.7
115	58.6 56.0	179 176	80.5 75.7
120	56.9	176	1:0.1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
203 ft point B			oad fall l (2821-1)
125	55.2	172	71.4
130	53.4	168	67.4
135	51.6	164	63.7
140	49.8	160	60.4
145	47.9	156	57.3
150	45.9	151	54.4
155	43.8	146	51.7
160	41.7	140	49.2
165	39.5	134	46.8
170	37.2	127	44.6
175	34.7	120	42.6
180	32.1	112	40.6
185	29.2	103	38.8
190	26.1	93	37.0
195	22.5	82	35.4
200	18.2	67	33.8
203 ft	Main	boom, I	oad fall l (2821-2)
30 30 35 40 45	86 85.9 84.5 83.1 81.7	212 212 212 212 211 210	79.4 79.4 79.4 79.4 79.4
50	80.2	209	79.4
55	78.8	208	79.4
60	77.4	206	79.4
65	75.9	205	79.4
70	74.5	203	79.4
75	73	202	79.4
80	71.5	200	79.4
85	70	198	79.4
90	68.5	196	79.4
95	67	193	79.4
100	65.4	191	79.4
105	63.9	188	78.7
110	62.3	185	75.5
115	60.6	182	72.6
120	59	179	69.9
125	57.3	176	67.0
130	55.6	172	62.9
135	53.8	168	59.2
140	52	164	55.8
145	50.1	159	52.6
150	48.2	154	49.7
155	46.2	149	46.9
160	44.1	144	44.4
165	42	138	41.9
170	39.7	132	39.5
175 180 185 190 195	37.4 34.8 32.1 29.9	125 117 109 102	39.5 37.2 35.1 33.0 31.3 29.4
200	26.7 23	91 79	27.6

Radius	Main	Rope	Load
[ft ]:	boom	pulley	capacity
	angle	height	[1000 lbs
	[°]:	[ft]:	]
213 ft point B			oad fall l (2821-1)
24	86	220 220	66.4
25	85.8	219	337.2
30	84.5		328.2
35	83.1	219	310.4
40	81.8	218	276.3
45	80.4	217	244.4 221.0
50	79	216	199.5
55	77.7	215	
60	76.3	214	180.6
65	74.9	212	164.6
70	73.5	211	151.7
75	72.1	209	141.0
80	70.6	207	131.2
85	69.2	205	122.2
90	67.7	203	113.3
95	66.3	201	105.1
100	64.8	199	97.8
105	63.3	196	91.3
110	61.7	193	85.4 80.2
115	60.2	190	75.4
120	58.6	187	
125	57	184	71.0
130	55.4	181	67.1
135	53.7	177	63.4
140	52	173	60.0
145	50.2	169	56.9
150	48.4	164	54.1
155	46.6	160	51.4
160	44.7	155	48.9
165	42.7	149	46.5
170	40.6	143	44.3
175	38.5	137	42.3
180	36.2	130	40.3
185	33.8	123	38.5
190	31.2	115	36.8
195	28.4	106	35.1
200	25.3 22.6	95	33.5
205	18.6	86	32.2
210		72	30.7
213 ft			oad fall
point B			l (2821-2)
30	86	222	79.4
35	84.7	221	79.4
40	83.4	221	79.4
45	82	220	79.4
50	80.7	219	79.4
55	79.3	218	79.4
60	78	216	79.4
65	76.6	215	79.4
70	75.2	214	79.4
75	73.8	212	79.4
80	72.4	210	79.4
85	71	208	79.4
90	69.6	206	79.4
95	68.1	204	79.4
100	66.6	202	79.4
105	65.2	199	79.4
110	63.7	196	78.1
115	62.1	194	74.5
120	60.6	191	71.0
125	59	187	66.7
130	57.4	184	62.6
135	55.8	180	58.9



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Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
213 ft point B			oad fall l (2821-2)
140 145 150	54.1 52.4	176 172	55.5 52.3
155 160	50.6 48.8 46.9	168 163 158	49.4 46.6 44.1
165	45	153	41.5
170	43	147	39.1
175	40.9	141	36.9
180	38.7	135	34.7
185	36.9	129	32.9
190	34.5	122	31.0
195	31.9	113	29.1
200	29	104	27.4
205	25.9	93	25.7
210 215	22.3 17.9 <b>Main</b> 1	80 64	24.0 22.4
			oad fall   (2821-1)
25	86	230	66.4
30	84.7	229	311.2
35	83.4	229	296.3
40	82.1	228	272.2
45	80.8	227	241.1
50	79.5	226	217.4
55	78.2	225	198.3
60	76.9	224	180.1
65	75.6	222	164.3
70	74.2	221	151.1
75	72.9	220	140.5
80	71.5	218	130.7
85	70.2	216	121.3
90	68.8	214	112.8
95	67.4	212	104.6
100	66	210	97.3
105	64.6	207	90.8
110	63.1	205	84.9
115	61.6	202	79.6
120	60.2	199	74.9
125	58.7	196	70.5
130	57.1	193	66.5
135	55.6	189	62.9
140	54	186	59.5
145	52.3	182	56.4
150	50.7	178	53.5
155	49	173	50.8
160	47.2	168	48.3
165	45.4	164	46.0
170	43.5	158	43.8
175	41.6	153	41.7
180	39.6	147	39.8
185	37.5	140	38.0
190	35.3	133	36.2
195	32.9	125	34.6
200	30.4	117	33.0
205	28.3	110	31.7
210	25.3	99	30.3
215	22	87	28.9
220	18	73	27.6

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
223 ft point B			oad fall l (2821-2)
31 35	86 85	232 231	79.4 79.4
40	83.7	231	79.4
45 50	82.4 81.1	230 229	79.4 79.4
55	79.8	228	79.4
60 65	78.5 77.2	227 225	79.4 79.4
70	75.9	224	79.4
75	74.5	222	79.4 79.4
80 85	73.2 71.9	221 219	79.4 79.4
90	70.5	217	79.4
95 100	69.1 67.7	215 213	79.4 79.4
105	66.3	210	79.4
110 115	64.9 63.5	208 205	79.4 75.5
120	62	202	70.6
125 130	60.5 59	199 196	66.2 62.1
135	57.5	192	58.4
140	55.9	189 185	55.0 51.8
145 150	54.3 52.7	181	48.7
155	51	177	45.9
160 165	49.3 47.5	172 167	43.2 40.7
170	45.7	162	38.3
175 180	43.8 41.9	157 151	36.0 33.9
185	40.3	146	32.1
190 195	38.2 35.9	139 132	30.2 28.4
200	33.6	124	26.6
205 210	31 28.2	115 106	24.9 23.3
215	25.1	95	21.7
220	21.6	82	20.2
225	17.2	65	18.8
233 ft point B		PT head	oad fall l (2821-1)
26	86	240	66.4
30	85	239	294.7
35 40	83.7 82.5	238 238	277.8 261.3
45	81.2	237	233.8
50 55	80 78.7	236 235	212.0 195.4
60	77.5	234	177.5
65 70	76.2 74.9	233 231	161.7 148.5
75	73.6	230	137.5
80 85	72.3 71	228 226	128.4 119.8
90	69.7	225	111.9
95	68.4	223	104.2
100 105	67.1 65.7	220 218	96.8 90.3
110	64.3	216	84.5
115 120	63 61.6	213 210	79.2 74.4
125	60.1	208	70.1
			GG 1
130 135	58.7 57.2	204 201	66.1 62.4

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
145 150	54.2 52.7	194 190	55.9 53.1
155	51.1	186	50.4
160 165	49.5 47.8	182 177	47.9 45.5
170	46.1	172	43.3
175 180	44.3 42.5	167 162	41.3 39.3
185	40.6	156	37.5
190 195	38.6 36.6	150 143	35.8 34.2
200	34.9	137	32.7
205 210	32.6 30.2	130 121	31.3 29.9
215	27.6	112	28.4
220 225	24.7 21.4	101 89	27.0 25.6
	Main l		oad fall
			(2821-2)
32	86	242	79.4
35 40	85.2 83.9	241 241	79.4 79.4
45	82.7	240	79.4
50 55	81.5 80.2	239 238	79.4 79.4
60	79	237	79.4
65 70	77.7 76.5	236 234	79.4 79.4
75 80	75.2 73.9	233 231	79.4 79.4
85	72.7	229	79.3
90 95	71.4 70	228 226	78.8 78.2
100	68.7	223	77.8
105 110	67.4 66	221 219	77.3 77.0
115	64.7	216	74.9
120 125	63.3 61.9	214 211	70.1 65.7
130	60.5	208	61.6
135 140	59 57.6	204 201	57.9 54.4
145	56.1	198	51.1
150 155	54.6 53	194 190	48.1 45.2
160	51.4	186	42.5
165 170	49.8 48.1	181 176	40.0 37.6
175	46.4	171	35.4 33.3
180 185	44.6 43.2	166 162	31.5
190	41.3	156	29.6
195 200	39.3 37.2	149 142	27.7 26.0
205 210	35 32.7	135 127	24.3 22.7
215	30.2	118	21.2
220 225	27.5 24.5	108 96	19.7 18.3
230	21	83	16.9
235	16.7	66	15.5



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: limited  $^{\circ}$ Foot print: 3-blocked crawlers  $\overline{\text{Counterweight [1000 lbs ]:}}$ 273.4 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs l
243 ft point B	Main	boom, I	oad fall l (2821-1)
26	86	249	273.2
30	85.2	249 248	273.2
35 40	84 82.8	248	261.0 250.9
45	81.6	247	226.5
50 55	80.4	246	206.5
60	79.2 78	245 244	191.1 175.7
65	76.8	243	160.4
70	75.5	242	147.1
75 80	74.3 73.1	240 239	135.7 126.3
85	71.8	237	118.4
90	70.6	235	110.6
95 100	69.3 68	233 231	103.5 96.3
105	66.8	229	89.8
110	65.5	227	83.9
115 120	64.1 62.8	224 222	78.7 73.9
125	61.5	219	69.5
130	60.1	216	65.5
135 140	58.7 57.3	213 210	61.9 58.5
145	55.9	206	55.4
150	54.4	203	52.5
155 160	52.9 51.4	199 195	49.8 47.3
165	49.9	191	45.0
170	48.3	186	42.8
175 180	46.7 45	181 176	40.7 38.8
185	43.3	171	37.0
190	41.5	165	35.2
195 200	39.7 38.2	159 154	33.6 32.2
205	36.2	148	30.6
210	34.1	140	29.0
215 220	31.8 29.5	132 123	27.6 26.1
225	26.9	114	24.8
230	24	103	23.5
235	20.8	90	22.2
	oom, H	PT head	oad fall l (2821-2)
32 35	86 85.4	252 251	79.4 79.4
40	84.2	250	79.4 79.4
45	83	250	79.4
50 55	81.8 80.6	249 248	79.4 79.4
60	79.4	247	79.4
65	78.2	246	79.4
70 75	77 75.8	244 243	79.4 79.4
80	74.6	243	79.4
85	73.4	240	79.4
90 95	72.1 70.9	238 236	78.7 77.3
95 100	70.9 69.6	236	77.3 76.0
105	68.4	232	74.8
110 115	67.1	230	73.8
115	65.8 64.5	227 225	72.8 69.2
125	63.1	222	64.8
130	61.8	219	60.8

Radius [ft ]:	Main boom angle	Rope pulley height	Load capacity [1000 lbs
	[°]:	[ft ]:	]
243 ft point B			oad fall l (2821-2)
135	60.5	216	57.0
140 145	59.1 57.7	213 210	53.5 50.2
150	56.2	206	47.2
155	54.8	202	44.3
160	53.3	198	41.6
165 170	51.8 50.2	194 190	39.1 36.8
175	48.6	185	34.5
180	47	180	32.4
185 190	45.7 43.9	176 171	30.4 28.7
195	42.2	165	26.9
200	40.3	159	25.1
205	38.4	152	23.5
210 215	36.3 34.2	145 137	21.9 20.4
220	31.9	129	18.9
225	29.5	120	17.5
230 235	26.8	109 98	16.2 14.9
240	23.8 20.4	84	
		1 84 1	1.3 h
245	16.1	66	13.6 12.3
245 <b>253 ft</b>	16.1 <b>Main</b>	66 boom, I	12.3 oad fall
245 <b>253 ft</b>	16.1 <b>Main</b>	66 boom, I	12.3 oad fall
245 <b>253 ft</b>	16.1 <b>Main</b> 1 <b>oom, H</b>	66 boom, I	12.3 oad fall
245 253 ft point B  27 30	16.1  Main 1  oom, H  86 85.3	66 boom, I PT head 259 259	12.3 Load fall (2821-1) 257.6 257.6
245 253 ft point B  27 30 35	16.1 Main 1 oom, H 86 85.3 84.2	66 boom, I PT head 259 259 259 258	12.3 Load fall (2821-1) 257.6 257.6 252.9
245 253 ft point B  27 30 35 40	16.1 Main 1 oom, H 86 85.3 84.2 83.1	66 boom, I PT head 259 259 258 258 258	12.3 Load fall (2821-1) 257.6 257.6 252.9 247.8
245 253 ft point B  27 30 35	16.1 Main 1 oom, H 86 85.3 84.2	66 boom, I PT head 259 259 259 258	12.3 Load fall (2821-1) 257.6 257.6 252.9
245 253 ft point B  27 30 35 40 45 50 55	86 85.3 84.2 83.1 81.9 80.8 79.6	259 259 259 258 258 257 256 255	12.3 .oad fall (2821-1) 257.6 257.6 252.9 247.8 227.8 206.6 189.9
245 253 ft point B  27 30 35 40 45 50 55 60	86 85.3 84.2 83.1 81.9 80.8 79.6 78.5	259 259 259 258 258 257 256 255 254	12.3 Load fall (2821-1) 257.6 257.6 252.9 247.8 227.8 206.6 189.9 176.0
245 253 ft point B  27 30 35 40 45 50 55	86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3	259 259 259 258 258 257 256 255	12.3 .oad fall (2821-1) 257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8
245 253 ft point B  27 30 35 40 45 50 66 67 70	16.1 Main oom, H 86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9	259 259 258 258 257 256 255 254 253 252 250	12.3 .oad fall (2821-1) 257.6 257.6 252.9 247.8 227.8 206.6 189.9 176.0 160.8 147.4 135.8
245 253 ft point B 27 30 35 40 45 50 65 70 75 80	16.1 Main 1 86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 73.8	259 259 259 258 258 257 256 255 254 253 252 250 249	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 227.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1
245 253 ft point B  27 30 35 40 45 50 66 60 65 70 75 80 85	16.1 Main 1 86 85.3 84.2 83.1 81.9 80.8 79.6 77.3 76.1 74.9 73.8 72.6	259 259 259 258 258 257 256 255 254 253 252 250 249	12.3  .oad fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1
245 253 ft point B 27 30 35 40 45 50 65 70 75 80	16.1 Main 1 86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 73.8	259 259 259 258 258 257 256 255 254 253 252 250 249	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 227.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1
245 253 ft point B  27 30 35 40 45 50 65 70 75 80 85 90 95	86 85.3 84.2 83.1 81.9 80.8 79.6 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9	259 259 259 258 258 257 256 255 254 253 252 250 249 247 244 242	12.3  Load fall (2821-1)  257.6 257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9
245 253 ft point B  27 30 35 40 45 50 65 70 75 80 85 90 95 100 105	16.1 Main 1 86 85.3 84.2 83.1 81.9 80.8 79.6 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7	259 259 259 258 258 257 256 255 255 253 252 250 249 247 246 244 244 242	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4
245 253 ft point B  27 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110	16.1  Main oom, H  86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5	259 259 259 258 258 257 256 255 254 253 252 250 247 246 244 242 240 238	12.3  .oad fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6
245  253 ft point B  27 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120	16.1  Main  86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5 65.2 64	259 259 259 258 258 257 256 255 254 263 252 250 249 247 246 244 242 240 238 233	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5
245 253 ft point B  27 30 35 40 45 50 65 70 75 80 95 100 105 110 115 120 125	16.1  Main 1  86 85.3 84.2 83.1 81.9 80.8 79.6 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5 65.2 64 62.7	259 259 259 258 258 257 256 255 253 252 250 249 247 246 244 242 240 238 233 230	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5 69.1
245 253 ft point B  27 30 35 40 45 50 65 67 75 80 85 90 95 100 105 110 115 120 125 130	16.1  Main 1  86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5 65.2 64 62.7 61.4	259 259 259 258 258 257 256 255 254 253 252 250 249 247 246 244 242 240 238 235 233 230 227	12.3  .oad fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5 69.1 65.1
245 253 ft point B  27 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125	16.1 Main 1 00m, H  86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 67.7 66.5 65.2 64 62.7 61.4 60.1	259 259 259 258 258 257 256 255 253 252 250 249 247 246 244 242 240 238 233 230	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5 69.1
245  253 ft point B  27 30 35 40 45 50 65 70 75 80 95 100 105 110 115 120 125 130 135 140 145	16.1  Main 1  86 85.3 84.2 83.1 81.9 80.8 79.6 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5 65.2 64 62.7 61.4 60.1 58.7 57.4	259 259 259 258 258 257 256 255 255 253 252 250 247 246 244 242 240 238 235 233 230 227 224 221 221	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5 69.1 65.1 61.5 58.1 55.0
245  253 ft point B  27 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120 125 130 135 140 145 150	16.1 Main 1 00m, H  86 85.3 84.2 83.1 81.9 80.8 79.6 78.5 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5 65.2 64 62.7 60.1 58.7 57.4 56.1	259 259 259 258 258 257 256 255 252 250 249 247 244 242 240 238 235 233 230 227 224 224 221 221 221	12.3  Load fall (2821-1)  257.6 257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5 69.1 65.1 61.5 58.1 55.0 52.1
245  253 ft point B  27 30 35 40 45 50 65 70 75 80 95 100 105 110 115 120 125 130 135 140 145	16.1  Main 1  86 85.3 84.2 83.1 81.9 80.8 79.6 77.3 76.1 74.9 73.8 72.6 71.4 70.2 68.9 67.7 66.5 65.2 64 62.7 61.4 60.1 58.7 57.4	259 259 259 258 258 257 256 255 255 253 252 250 247 246 244 242 240 238 235 233 230 227 224 221 221	12.3  Load fall (2821-1)  257.6 257.6 252.9 247.8 206.6 189.9 176.0 160.8 147.4 135.8 126.1 118.1 110.4 103.1 95.9 89.4 83.6 78.3 73.5 69.1 65.1 61.5 58.1 55.0

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			Load fall l (2821-1)
170	50.3	199	42.4
175 180	48.8	195	40.3
185	47.2 45.6	190 185	38.4 36.6
190	44	180	34.9
195 200	42.3 41	175 170	33.2 31.7
205	39.2	164	30.1
210	37.3	157	28.5
215 220	35.3 33.3	150 143	27.1 25.7
225	31.1	135	24.3
230 235	28.8	126 116	23.0 21.8
235	26.2 23.4	104	20.6
245	20.3	91	19.4
253 ft	Main l	boom, I	oad fall
point B	oom, H	PT head	l (2821-2)
33	86	261	79.4
35	85.5	261	79.4
40 45	84.4 83.3	260 260	79.4 79.4
50	82.1	259	79.4
55	81	258	79.4
60 65	79.9 78.7	257 256	79.4 79.4
70	77.6	254	79.4
75	76.4	253	79.4
80 85	75.2 74	252 250	79.4 79.4
90	72.9	248	79.4
95 100	71.7 70.5	247 245	77.4 75.4
105	69.2	243	73.5
110	68	240	71.8
115 120	66.8 65.5	238 236	70.2 68.7
125	64.3	233	64.3
130	63 61.7	230	60.3 56.5
135 140	61.7 60.4	228 225	53.0
145	59.1	221	49.7
150 155	57.7 56.4	218 214	46.7 43.8
160	55	211	41.2
165	53.5	207	38.6
170 175	52.1 50.6	203 198	36.3 34.0
180	49.1	194	31.9
185 190	47.9 46.3	190 185	30.1 28.2
190	46.3 44.6	180	26.4
200	42.9	174	24.7
205 210	41.2 39.4	168 162	23.0 21.5
215	37.5	155	19.9
220	35.5	148	18.5
225 230	33.4 31.2	140 131	17.1 15.8
235	28.7	122	14.5
240 245	26.1 23.2	111 99	13.2 12.0
270	ZU.Z	ו פט	12.0



Version: 9839979/59979/ HPT foot: 2821-1

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
	•		
28 30	86 85.5	269 269	239.9 239.9
35	84.4	268	237.6
40 45	83.3 82.2	268 267	234.0 221.9
50	81.1	266	202.5
55 60	80 78.9	265 264	186.7 174.6
65	77.8	263	160.0
70 75	76.7 75.5	262 261	146.7 135.2
80	74.4	259	125.2
85 90	73.2 72.1	258 256	116.8
90 95	72.1 70.9	256 254	109.6 102.2
100	69.8	252	95.4
105 110	68.6 67.4	250 248	88.9 83.1
115	66.2	246	77.8
120 125	65 63.8	244 241	73.0 68.6
130	62.6	239	64.6
135 140	61.3 60.1	236 233	61.0 57.6
145	58.8	230	54.5
150 155	57.5 56.2	227 223	51.6
160	56.2 54.8	223	48.9 46.4
165	53.5	216	44.0
170 175	52.1 50.7	212 208	41.8 39.8
180	49.2	204	37.8
185 190	47.7 46.2	199 194	35.9 34.0
195	44.7	189	32.3
200 205	43.4 41.8	185 179	30.8 29.2
210	40.1	173	27.6
215	38.3	167	26.2
220 225	36.5 34.6	160 153	24.8 23.4
230	32.6	145	22.2
235 240	30.4 28.1	137 128	20.9 19.7
245	25.6	117	18.6
250 255	22.9 19.8	106 92	17.5 16.4
262 ft			oad fall
			l (2821-2)
0.1	00	074	70.4
34 35	86 85.7	271 271	79.4 79.4
40	84.6	270	79.4
45 50	83.5 82.4	270 269	79.4 79.4
55	81.3	268	79.4
60 65	80.2 79.1	267 266	79.4 79.4
70	78	265	79.4
75 80	76.9	263	79.4
80 85	75.8 74.7	262 260	79.4 79.4
90	73.5	259	79.4
95 100	72.4 71.2	257 255	78.6 75.8
105	70.1	253	73.1
110	68.9	251	70.6

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
115 120	67.7 66.5	249 247	68.4 66.4
125	65.3	244	63.4
130 135	64.1 62.9	242 239	59.4 55.6
140	61.6	236	52.1
145	60.4	233	48.8
150 155	59.1 57.8	230 226	45.8 42.9
160	56.5	223	40.3
165 170	55.1 53.8	219 216	37.8 35.4
175	52.7	212	33.4
180 185	51.3 49.8	208 204	31.3 29.3
190	48.3	199	27.4
195	46.8 45.3	194	25.6 23.8
200 205	43.7	189 183	22.2
210	42	178	20.6
215 220	40.3 38.5	172 165	19.1 17.7
225	36.7	158	16.3
230 235	34.7 32.6	150 142	15.0 13.7
240	30.4	133	12.4
245 250	28.1 25.5	124 113	11.3 10.1
255	22.6	100	9.0
260	19.3	86	7.9
272 ft	Main 1	boom, I	oad fall
point B	oom. H	PT nead	l (2821-1)
28	86	279	222.0
	86 85.7	279 279 278	222.0 222.0 221.2
28 30 35 40	86 85.7 84.6 83.6	279 278 278	222.0 221.2 219.0
28 30 35 40 45	86 85.7 84.6 83.6 82.5	279 278 278 277	222.0 221.2 219.0 213.6
28 30 35 40 45 50 55	86 85.7 84.6 83.6 82.5 81.4 80.4	279 278 278 277 276 275	222.0 221.2 219.0 213.6 196.1 181.5
28 30 35 40 45 50 55 60	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3	279 278 278 277 276 275 274	222.0 221.2 219.0 213.6 196.1 181.5 170.0
28 30 35 40 45 50 55	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1	279 278 278 277 276 275	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1
28 30 35 40 45 50 55 60 65 70	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1	279 278 278 277 276 275 274 273 272 271	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1
28 30 35 40 45 50 55 60 65 70	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1	279 278 278 277 276 275 274 273 272	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1
28 30 35 40 45 50 55 60 65 70 75 80 85 90	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8	279 278 278 277 276 275 274 273 272 271 269 268 266	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4
28 30 35 40 45 50 55 60 65 70 75 80 85 90 95	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9	279 278 278 277 276 275 274 273 272 271 269 268	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4
28 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4
28 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3	279 278 278 277 276 275 274 273 272 271 268 266 265 263 261 259	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6
28 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 257	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5
28 30 35 40 45 50 55 60 70 75 80 90 95 100 105 110 115 120 125	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 255 255	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1
28 30 35 40 45 50 55 60 65 70 75 80 85 90 100 105 110 115 120 125 130	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 64.1 60.5
28 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75. 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3	279 278 277 276 275 274 273 272 271 269 268 266 265 261 259 257 255 252 250 247 244	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 64.1 60.5 57.1
28 30 35 40 45 50 55 60 65 70 75 80 85 90 100 105 110 115 120 125 130	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 64.1 60.5
28 30 35 40 45 50 55 60 65 70 75 80 85 90 105 110 125 120 125 130 140 145 150	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.6 62.5 61.3 60 58.8 57.6	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244 241 238 238	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 60.5 57.1 54.0 51.1
28 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 155 160	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75. 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 58.8 57.6 56.3	279 278 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257 255 252 250 247 244 241 238	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 64.1 60.5 57.1 54.0 51.1 44.9
28 30 35 40 45 50 55 60 65 70 75 80 85 90 105 110 120 125 135 140 145 150 155 160 165 170	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60.5 83.8 57.6 56.3 55.3	279 278 278 277 276 275 277 276 277 277 279 288 268 266 265 263 261 259 257 255 252 250 247 244 241 238 235 232 228	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 60.5 57.1 54.0 51.1 48.4 43.5 43.5 41.3
28 30 35 40 45 50 55 60 65 70 75 80 95 100 105 110 115 120 125 130 135 140 145 150 165	86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60 58.8 57.6	279 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 250 247 2441 238 235 232 228	222.0 221.2 219.0 213.6 196.1 181.5 170.0 158.2 145.1 133.8 123.9 115.4 108.4 101.4 94.6 88.4 82.6 77.3 72.5 68.1 64.1 60.5 57.1 54.0 51.1 48.4 45.9 43.5

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
190	48.2	208	33.3
195 200	46.8 45.6	203 199	31.5 30.0
205	44.1	194	28.4
210	42.5	189	26.9
215 220	40.9 39.3	183 177	25.5 24.1
225	37.5	170	22.7
230	35.7	163	21.4
235 240	33.9 31.9	156 148	20.2 19.0
245	29.8	139	17.9 16.8
250	27.5	130	16.8
255 260	25.1 22.4	119 107	15.7 14.7
265	19.3	94	13.7
point B	oom, H	PT head	l (2821-2)
24	0.0	204	70.4
34 35	86 85.9	281 281	79.4 79.4
35 40	85.9 84.8	281 280	79.4 79.4
35 40 45	85.9 84.8 83.8	281 280 280	79.4 79.4 79.4
35 40 45 50	85.9 84.8 83.8 82.7	281 280 280 279	79.4 79.4 79.4 79.4
35 40 45 50 55 60	85.9 84.8 83.8 82.7 81.7 80.6	281 280 280 279 278 277	79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65	85.9 84.8 83.8 82.7 81.7 80.6 79.5	281 280 280 279 278 277 276	79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5	281 280 280 279 278 277 276 275	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4	281 280 280 279 278 277 276 275 274 272	79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2	281 280 280 279 278 277 276 275 274 272 271	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1	281 280 280 279 278 277 276 275 274 272 271 269	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2	281 280 280 279 278 277 276 275 274 272 271	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9	281 280 280 279 278 277 276 275 274 272 271 269 268 266	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100	85.9 84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4	281 280 280 279 278 277 276 275 274 272 271 269 268 264 262 260 258	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 115 110 120 125	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.4 66.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 125 130	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.4 66.3 65.1	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 125 130 135 140	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.4 66.3	281 280 280 279 278 277 276 275 274 271 269 268 266 264 262 260 258 255 253 250 247	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150	85.9 84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 250 258 255 253 250 244 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 125 130 135 140 145 155 160	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9	281 280 279 278 277 276 275 274 272 271 269 268 264 262 260 258 255 253 250 247 244 242 238 238	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 115 125 130 135 140 145 150 165	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9 56.6	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 244 242 238 235 232	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 100 105 110 115 120 125 130 135 140 145 150 165 170	85.9 84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9 55.5 65.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 244 242 238 238 232 228	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
35 40 45 50 55 60 65 70 75 80 85 90 95 100 115 125 130 135 140 145 150 165	85.9 84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9 56.6	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 244 242 238 235 232	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
195	48.8	208	24.8
200 205	47.3 45.9	203 198	23.1 21.5
210	44.3	193	19.9
215 220	42.8	187 181	18.4 17.0
220 225	41.1 39.5	181	17.0
230	37.7	168	14.3
235	35.9	161	13.0
240 245	34 31.9	153 145	11.8 10.6
250	29.8	136	9.5
255	27.5	126	8.4
260 265	24.9 22.1	114 102	7.3 6.3
270	18.8	87	5.2
	oom, H	PT head	oad fall l (2821-1)
29 30	86 85.8	289 289	205.3 205.3
35	84.8	288	204.8
40	83.8	288	202.9
40 45	83.8 82.8	288 287	202.9 201.1
40	83.8	288	202.9
40 45 50 55 60	83.8 82.8 81.7 80.7 79.7	288 287 286 285 284	202.9 201.1 186.8 174.8 165.0
40 45 50 55 60 65	83.8 82.8 81.7 80.7 79.7 78.6	288 287 286 285 284 283	202.9 201.1 186.8 174.8 165.0 156.4
40 45 50 55 60	83.8 82.8 81.7 80.7 79.7 78.6 77.6	288 287 286 285 284 283 282	202.9 201.1 186.8 174.8 165.0
40 45 50 55 60 65 70 75 80	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5	288 287 286 285 284 283 282 281 280	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3
40 45 50 55 60 65 70 75 80 85	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5	288 287 286 285 284 283 282 281 280 278	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6
40 45 50 55 60 65 70 75 80 85 90	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4	288 287 286 285 284 283 282 281 280 278 277	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2
40 45 50 55 60 65 70 75 80 85 90 95	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3	288 287 286 285 284 283 282 281 280 278 277 275	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7
40 45 50 55 60 65 70 75 80 85 90 95 100 105	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2	288 287 286 285 284 283 282 281 280 278 277 275 273 272	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1	288 287 286 285 284 283 282 281 280 278 277 275 273 272 270	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9
40 45 50 55 60 65 70 75 80 85 90 95 100 105 115 115	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 73.4 72.3 70.2 69.1 68 66.9	288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125	83.8 82.8 81.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8	288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6	288 287 286 285 284 283 282 281 280 277 275 273 272 270 268 265 263 261	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6
40 45 50 55 60 65 70 75 80 85 90 95 100 105 115 120 125 130 135 140	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4	288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 258 256	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5
40 45 50 55 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4 61.2	288 287 286 285 284 283 282 281 280 277 275 273 272 270 268 265 263 261 258 256 253	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 145 150	83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4 61.2	288 287 286 285 284 283 282 281 280 277 275 273 277 270 268 265 263 261 258 258	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4 50.5
40 45 50 65 70 75 80 85 90 95 100 105 110 115 120 125 130 140 145 155 160	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68.9 66.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6	288 287 286 285 284 283 282 281 280 277 275 273 272 270 268 265 263 261 256 253 250 247 244	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4 50.5 47.8 45.2
40 45 50 65 60 65 70 75 80 85 90 95 100 105 120 125 130 135 140 145 150 160 165	83.8 82.8 81.7 80.7 79.7 78.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6	288 287 287 286 285 284 283 282 281 280 277 275 273 272 270 268 265 263 261 258 250 250 247 244 240	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4 50.5 47.8 45.2 42.7
40 45 50 65 60 65 70 75 80 85 90 95 100 105 120 125 130 135 145 150 155 160 165 170	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4 61.5 60 58.8 57.6 55.6	288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 258 256 247 247 244 240 237	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4 50.5 47.8 45.2 42.7 40.4
40 45 50 65 60 65 70 75 80 85 90 95 100 115 120 125 130 135 140 145 150 165 170 175 180	83.8 82.8 81.7 80.7 79.7 78.6 76.6 75.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6 56.4 55.2 53.9 52.6	288 287 286 285 284 283 282 281 280 277 275 273 272 270 268 265 263 261 258 250 244 240 233 229	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4 50.5 47.8 45.2 42.7 40.4 38.2 36.2
40 45 50 65 60 65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 165 170 175	83.8 82.8 81.7 80.7 79.7 78.6 77.6 75.5 74.5 73.4 72.3 71.3 70.2 69.1 68 66.9 65.8 64.6 63.5 62.4 61.2 60.2 65.8 57.6 55.2 53.9	288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 258 256 253 250 247 244 240 237 233	202.9 201.1 186.8 174.8 165.0 156.4 143.8 132.4 122.3 113.6 106.2 100.3 93.7 87.5 81.9 76.8 72.0 67.6 63.6 59.9 56.5 53.4 50.5 47.8 45.2 42.7 40.4 38.2

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
282 ft point B			oad fall l (2821-1)
200 205 210 215 220	47.5 46.1 44.7 43.2	213 208 203 198 192	29.1 27.5 26.0 24.5 23.2
225 230 235 240	41.7 40.1 38.5 36.8 35	186 180 173 166	21.8 20.5 19.3 18.1
245 250 255 260 265	33.2 31.2 29.1 26.9 24.5	158 150 141 132 121	17.0 15.9 14.9 13.8 12.9
270 275 <b>282 ft</b>		109 95 boom, I	11.9 11.0 oad fall (2821-2)
35	86	291	79.4
40 45 50 55	85 84 83 81.9	290 290 289 288	79.4 79.4 79.4 79.4
60 65 70 75	80.9 79.9 78.9 77.8	287 286 285 284	79.4 79.4 79.4 79.4
80 85 90 95 100	76.8 75.8 74.7 73.6 72.6	282 281 280 278 276	79.4 79.4 79.4 79.4 79.1
100 105 110 115 120	71.5 70.4 69.4 68.3	274 272 270 268	75.2 71.5 68.1 65.0
125 130 135 140	67.2 66 64.9 63.8	266 264 261 259	61.8 57.7 54.0 50.5
145 150 155 160 165	62.7 61.5 60.3 59.1 57.9	256 253 250 247 244	47.2 44.2 41.3 38.7 36.1
170 175 180 185	56.7 55.7 54.5 53.2	240 237 234 230	33.8 31.7 29.7 27.7
190 195 200	51.9 50.5	225 221 217	25.8 24.0

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
282 ft point B			oad fall l (2821-2)
205	47.8	212	20.6
210	46.4	207	19.0
215 220	44.9 43.4	202 196	17.5 16.1
225	41.9	190	14.7
230	40.3	184	13.4 12.2
235 240	38.7 36.9	178 171	10.9
245	35.1	163	9.8
250	33.3	156	8.6
255 260	31.3 29.1	147 138	7.6 6.5
265	26.9	127	5.5
270	24.3 21.5	116	4.5 3.5
275 280	21.5 18.3	103 88	3.5 2.5
point B		PT head	oad fall l (2821-1)
30 30	86 86	298 298	66.4 191.3
35	85	298	191.3
40	84	297	189.5
45 50	83 82	297 296	188.2 178.8
55	81	295	168.1
60	80	294	159.2
65 70	79 78	293 292	152.1 142.0
75	77	291	131.0
80	76	290	121.1
85 90	75 74	288 287	112.3 104.8
95	72.9	285	98.6
100	71.9	284	93.1
105 110	70.9 69.8	282 280	86.9 81.4
115	68.8	278	76.2
120	67.7	276	71.5 67.2
125 130	66.6 65.6	274 272	63.2
135	64.5	269	59.5
140	63.4	267	56.1
145 150	62.3 61.1	264 261	53.0 50.0
155	60	258	47.2
160 165	58.8 57.7	255 252	44.6 42.2
170	57.7 56.5	252 249	42.2 39.8
175	56.5 55.3	245	37.7
180 185	54.1	242 238	35.6 33.6
190	52.9 51.9	238	33.6
195	50.6	231	30.2
200	49.3	226	28.6



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
	Main l		oad fall l (2821-1)
210	46.6	217	25.4
215	45.3	212	24.0
220	43.8	207	22.6
225	42.4	201	21.3
230	40.9	196	20.0
235	39.3	190	18.8
240	37.7	183	17.6
245	36.1	176	16.5
250	34.3	169	15.4
255	32.5	161	14.3
260	30.6	153	13.3
265	28.6	144	12.3
270	26.4	134	11.4
275	24	123	10.5
280	21.4	110	9.6
285	18.4	96	8.7
292 ft	Main	boom, I	oad fall l (2821-2)
36	86	301	79.4
40	85.2	300	79.4
45	84.2	300	79.4
50	83.2	299	79.4
55	82.2	298	79.4
60	81.2	297	79.4
65	80.2	296	79.4
70	79.2	295	79.4
75	78.3	294	79.4
80	77.2	293	79.4
85	76.2	291	79.4
90	75.2	290	79.4
95 100 105	74.2 73.2 72.2	288 287 285	79.4 79.4 77.5 73.2
110 115 120 125	71.1 70.1 69 68	283 281 279 277	69.2 65.4 61.2
130 135 140 145	66.9 65.8 64.8	275 272 270 267	57.2 53.4 49.9 46.7
150 155 160	63.7 62.5 61.4 60.3	264 262 258	43.6 40.8 38.1
165	59.1	255	35.6
170	58	252	33.2
175	56.8	249	31.0
180	55.8	246	29.1
185	54.6	242	27.1
190	53.4	238	25.2
195	52.1	234	23.4
200	50.9	230	21.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs
292 ft point B	Main	boom, I	oad fall (2821-2)
205	49.6	225	20.1
210	48.2	221	18.5
215 220	46.9 45.5	216 211	17.0 15.6
225	44.1	205	14.2
230	42.6	200	12.9
235 240	41.1 39.5	194 187	11.6 10.4
245	37.9	181	9.3
250	36.2	174	8.1
255	34.4	166	7.1
260 265	32.6	158 149	6.0 5.0
270	30.6 28.5	149	4.0
275	26.3	129	3.1
280	23.8	118	2.1
			(2821-1
30 35	86 85.2	308 308	66.4 177.3
40	84.2	307	176.4
45	83.2	307	175.5
50 55	82.3 81.3	306 305	170.4 161.3
60	80.4	304	153.6
65	79.4	303	147.2
70	78.4	302	140.7
75 80	77.5 76.5	301 300	129.7 119.8
85	75.5	299	110.9
90	74.5	297	103.1
95	73.5	296	96.4
100 105	72.5 71.5	294 292	91.2 85.9
110	70.5	291	80.4
115	69.5	289	75.3
120	68.5	287	70.6
125 130	67.4 66.4	285 282	66.3 62.3
135	65.4	280	58.7
140	64.3	278	55.2
145	63.2	275	52.1
150 155	62.2 61.1	272 270	49.1 46.3
160	60	267	43.7
165	58.9	264	41.2
170	57.7	261	38.9
175 180	56.6 55.4	257 254	36.7 34.7
185	54.5	251	32.9
190	53.3	247	31.1
195 200	52.1 50.9	243 239	29.3 27.6
205	49.7	235	26.0

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-1)
220	45.8	221	21.7
225 230	44.4 43	216 210	20.4 19.1
235	41.6	205	17.9
240 245	40.1 38.6	199 193	16.7 15.6
250	37	186	14.5
255	35.4	179	13.4
260 265	33.7 31.9	172 164	12.4 11.5
270	30	155	10.5
275	28	146	9.6
280 285	25.9 23.5	136 124	8.7 7.9
290	20.9	112	7.0
295	18	97	6.2
			oad fall
point B	oom, H	PT head	l (2821-1)
31	86	318 318	165.4
35 40	85.3 84.4	317	165.4 164.2
45	83.5	317	162.8
50 55	82.5 81.6	316 315	160.1 152.9
60	80.7	314	146.7
65	79.7	313	141.7
70 75	78.8 77.9	312 311	137.7 128.3
80	76.9	310	118.6
85 90	76 75	309	109.9 102.1
90 95	74.1	308 306	95.3
100	73.1	304	89.5
105 110	72.1 71.2	303 301	84.8 79.6
115	70.2	299	74.5
120	69.2	297	69.9
125 130	68.2 67.2	295 293	65.5 61.6
135	66.2	291	57.9
140	65.2	289	54.5 51.3
145 150	64.2 63.1	286 284	48.3
155	62.1	281	45.5
160 165	61 60	278 275	42.9 40.4
170	58.9	275	38.1
175	57.8	269	35.9
180 185	56.7 55.6	266 262	33.9 31.9
190	54.7	260	30.3
195	53.5	256	28.5
200 205	52.4 51.2	252 248	26.9 25.3
210	50	244	23.8
215	48.8	239	22.3
220	47.5	235	20.9



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: limited ° Foot print: 3-blocked crawlers Counterweight [1000 lbs ]: 273.4 Carbody counterweight [1000 lbs ]: 125.7

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall l (2821-1)
230	45	225	18.3
235	43.6	220	17.1
240	42.3	214	15.9
245	40.8	208	14.8
250	39.4	202	13.7
255	37.9	196	12.7
260	36.4	189	11.7
265	34.7	182	10.7
270	33.1	174	9.8
275	31.3	166	8.9
280	29.4	157	8.0
285	27.5	148	7.2
290 295	25.4 23	137 126	6.3 5.5
300	23 20.5	113	5.5 4.8
305	17.6	98	4.0
- 555	17.0		1.0

		n boom,		
point :	Boom,	HPT he	ad (282	21-1)

ропи в	00III, III	i i ileau	(2021-1)
32	86	328	155.5
35	85.5	328	155.5
40	84.6	327	154.6
45	83.7	327	153.1
50	82.8	326	152.0
55	81.9	325	146.1
60	81	324	140.7
65	80.1	323	136.1
70	79.1	322	132.3
75	78.2	321	126.7
80	77.3	320	117.2
85	76.4	319	108.6
90	75.5	318	100.9
95	74.6	316	94.0
100	73.6	315	88.0
105	72.7	313	82.9
110	71.8	312	78.3
115	70.8	310	73.6
120	69.9	308	68.9
125	68.9	306	64.6
130	67.9	304	60.6
135	67	302	56.9
140	66	300	53.5
145	65	297	50.3
150	64	295	47.4
155	63	292	44.6
160	62	290	42.0
165	61	287	39.5
170	59.9	284	37.2
175	58.9	281	35.0
180	57.9	278	32.9
185	56.8	274	31.0
190	55.9	272	29.2
195	54.8	268	27.6
200	53.7	264	25.9
205	52.6 51.5	260	24.3
210 215	51.5	256	22.8 21.4
215 220	50.3	252	
	49.1	248	20.0
225	47.9 46.7	244	18.7
230	46.7	239	17.4

Radius [ft ]:	boom		Load capacity [1000 lbs ]
			oad fall l (2821-1)
235	45.5	234	16.2
240	44.2	229	15.0
245	42.9	223	13.9
250	41.5	218	12.8
255	40.1	212	11.8
260	38.7	206	10.8
265	37.2	199	9.8
270	35.7	192	8.9
275	34.1	185	8.0
280 285	32.5 30.7	177 168	7.1 6.3
290	28.9	160	5.5
295	20.9	150	4.7
	24.9	139	3.9
	27.3		
300 305	22.6	l 127 l	3.1

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Radius	Main	Rope	Load			
[ft ]:	boom angle		capacity [1000 lbs			
	angle [°]:	[ft]:	]			
			_			
66 ft		oom, L	oad fall l (2821-1)			
Боли в	oom, n	гт пеас	(2021-1)			
14	86	73	66.4			
15	85.2	72	603.2			
20	80.8	72	574.2			
25 30	76.2 71.6	70 68	476.6 393.9			
35	66.8	66	334.7			
40 45	61.9 56.6	63 60	290.3 255.6			
50	50.9	56	227.9			
55	44.7	51	205.1			
60 65	37.5 28.7	44 36	186.0 169.7			
66 ft		oom, L				
			l (2821-2)			
	•		` 1			
20	86	75	79.4			
25	81.7	74	79.4			
30 35	77.3 72.8	72 70	79.4 79.4			
40	68	67	79.4			
45 50	63.1 57.9	64 60	79.4 79.4			
55	52.2	55	79.4			
60	45.8	50	79.4			
65 70	38.4 28.7	42 32	79.4 79.4			
	76 ft Main boom, Load fall					
	point Boom, HPT head (2821-1)					
15	86	82	66.4			
15 20	85.8 82	82 82	661.4 587.5			
25	78.1	80	476.5			
30	74.1	79	393.8			
35	70.1	77				
40	65.9		334.7 290.3			
40 45	65.9 61.5	75 72	290.3 255.8			
45 50	61.5 57	75 72 69	290.3 255.8 228.1			
45	61.5	75 72	290.3 255.8			
45 50 55 60 65	61.5 57 52.1 46.9 41.1	75 72 69 65 60 54	290.3 255.8 228.1 205.4 186.4 170.3			
45 50 55 60 65 70	61.5 57 52.1 46.9 41.1 34.5	75 72 69 65 60 54 47	290.3 255.8 228.1 205.4 186.4 170.3 154.5			
45 50 55 60 65 70 75	61.5 57 52.1 46.9 41.1 34.5 26.2	75 72 69 65 60 54 47 37	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4			
45 50 55 60 65 70 75 <b>76 ft</b>	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main</b> b	75 72 69 65 60 54 47 37	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4			
45 50 55 60 65 70 75 <b>76 ft</b>	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main</b> b	75 72 69 65 60 54 47 37	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b>	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main h</b> <b>oom, H</b>	75 72 69 65 60 54 47 37 900m, Le	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 coad fall (2821-2)			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b>	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main b</b> <b>oom, H</b>	75 72 69 65 60 54 47 37 <b>coom, L</b> <b>PT head</b>	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 Dad fall (2821-2)			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b>	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main h</b> <b>oom, H</b>	75 72 69 65 60 54 47 37 900m, Le	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 coad fall (2821-2)			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b>	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main h</b> <b>oom, H</b> 86 82.7 78.9 75.1 71.1	75 72 69 65 60 54 47 37 <b>boom, L</b> <b>PT head</b> 85 84 82 80 78	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 coad fall (2821-2) 79.4 79.4 79.4 79.4			
45 50 55 60 65 75 <b>76 ft</b> <b>point B</b> 21 25 30 35 40	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main b</b> <b>00m, H</b>	75 72 69 65 60 54 47 37  900m, Le PT head  85 84 82 80 78 75	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 <b>Dad fall</b> ( <b>2821-2</b> ) 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b> 21 25 30 35 40 45 50	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main h</b> <b>oom, H</b> 86 82.7 78.9 75.1 71.1 66.9 62.6 58.1	75 72 69 65 60 54 47 37  coom, LePT head  85 84 82 80 78 75 72 68	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 <b>Dad fall</b> ( <b>2821-2</b> ) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b> 21 25 30 35 40 45 50	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main b</b> 00m, <b>H</b> 86 82.7 78.9 75.1 66.9 62.6 58.1 53.2	75 72 69 65 60 54 47 37  000m, Lepth head  85 84 82 80 78 75 72 68 64	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 Dad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b> 21 25 30 35 40 45 50	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main h</b> <b>oom, H</b> 86 82.7 78.9 75.1 71.1 66.9 62.6 58.1	75 72 69 65 60 54 47 37  coom, LePT head  85 84 82 80 78 75 72 68	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 oad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
45 50 55 60 65 70 75 <b>76 ft</b> <b>point B</b> 21 25 30 35 40 45 50 60 65	61.5 57 52.1 46.9 41.1 34.5 26.2 <b>Main b</b> <b>00m, H</b> 86 82.7 78.9 75.1 71.1 66.9 62.6 58.1 53.2 47.9	75 72 69 65 60 54 47 37  900m, Le PT head  85 84 82 80 78 75 72 68 64 59	290.3 255.8 228.1 205.4 186.4 170.3 154.5 140.4 Dad fall (2821-2) 79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			

125	• •		
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
85 ft point B			oad fall l (2821-1)
15	86	92	66.4
20	82.9	92	588.9
25	79.5	91	475.7
30	76	89	393.1
35	72.5	88	334.0
40	68.9	86	289.6
45	65.1	83	255.1
50	61.3	80	227.4
55	57.3	77	204.8
60	53.1	73	185.8
65	48.5	69	169.8
70	43.7	64	154.6
75	38.3	57	140.6
80	32	49	128.7
85	24.2	39	118.3
85 ft	Main b		oad fall l (2821-2)
21	86	94	79.4
25	83.6	94	79.4
30	80.2	92	79.4
35	76.8	91	79.4
40	73.3	89	79.4
45 50 55 60 65	69.8 66.1 62.3 58.3 54	86 84 81 77 73	79.4 79.4 79.4 79.4 79.4 79.4
70 75 80 85 90	49.5 44.5 38.9 32.3 23.4	68 62 55 46 34	79.4 79.4 79.4 79.4 79.4 79.4
95 ft	Main b	oom, L	
16	86	102	662.4
20	83.7	102	583.2
25	80.6	101	473.9
30	77.5	100	393.2
35	74.4	98	334.2
40	71.2	96	289.8
45	67.9	94	255.3
50	64.6	92	227.7
55	61.1	89	205.1
60	57.5	86	186.2
65	53.8	82	170.2
70	49.8	78	155.0
75	45.6	73	141.1
80	41	67	129.2
85	35.9	60	119.0
90	29.9	52	110.0
95	22.5	40	102.1

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
95 ft point B	Main b	oom, L	oad fall l (2821-2)
22	86	104	79.4
25 30	84.2 81.2	104 102	79.4 79.4
35	78.2	101	79.4
40 45	75.1 72	99 97	79.4 79.4
50	68.7	95	79.4
55 60	65.4 62	92 89	79.4 79.4
65	58.4	86	79.4
70 75	54.6 50.6	82 77	79.4 79.4
80	46.3	71	79.4
85 90	41.6	65	79.4
95	36.3 30	58 48	79.4 79.4
100	21.5	34	79.4
105 ft			oad fall
point B	oom, H	PT head	l (2821-1)
17	86	112	642.5
20	84.3	112	577.5
25 30	81.5 78.7	111 110	470.7 392.4
35	75.9	108	333.3
40 45	73 70.1	107 105	289.0 254.5
50	67.1	103	226.9
55 60	64.1 60.9	100 97	204.3 185.4
65	57.7	94	169.4
70 75	54.3 50.8	90 86	154.8 140.9
80	47	82	129.0
<u>85</u> 90	43 38.7	76 70	118.8 109.9
95	33.8	63	102.0
100 105	28.2 22.7	54 44	95.1 33.4
105 ft	Main	boom, I	oad fall
point B	oom, H	PT head	l (2821-2)
23	86	114	79.4
25 30	84.8 82.1	114 113	79.4 79.4
35	79.3	111	79.4 79.4
40	76.5 73.7	110	79.4 79.4
45 50	70.8	108 106	79.4 79.4
55	67.9	103	79.4
60 65	64.9 61.7	101 98	79.4 79.4
70	58.5	94	79.4
75 80	55.1 51.5	90 86	79.4 79.4
85	47.8	81	79.4
90 95	43.7 39.2	75 68	79.4 79.4
100	34.1	60	79.4
105 110	28.1 19.8	50 35	79.4 78.4



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall
point B	oom, H	PT head	l (2821-1)
18 20 25 30	86 84.8 82.2 79.7	122 121 121 120	610.6 572.3 468.3 391.9
35 40 45 50 55 60	77.1 74.5 71.9 69.2 66.5 63.7	118 117 115 113 111 109	332.8 288.5 254.0 226.4 203.8 185.0
65 70 75 80 85	60.8 57.9 54.8 51.6 48.2	106 103 99 95 90	169.0 154.7 140.7 128.9 118.7
90 95 100 105 110	44.7 40.9 36.7 32 26.6	85 80 73 65 55	109.8 102.0 95.1 88.9 83.3
115	21.4	46	33.4 oad fall
			l (2821-2)
23 25 30 35 40	86 85.2 82.7 80.2 77.7	124 124 123 122 120	79.4 79.4 79.4 79.4 79.4
45 50 55 60 65	75.1 72.5 69.9 67.2 64.4	118 116 114 112 109	79.4 79.4 79.4 79.4 79.4 79.4
70 75 80 85 90	61.5 58.6 55.5 52.3 48.9	106 103 99 94 90	79.4 79.4 79.4 79.4 79.4 79.4
95 100 105 110 115	45.3 41.4 37.1 32.2 26.4 18.4	84 78 70 62 51 35	79.4 79.4 79.4 78.7 73.5 68.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
125 ft point B			oad fall l (2821-1)
18	86	132	580.4
20	85.2	131	570.6
25	82.9	131	466.0
30	80.5	130	391.0
35	78.2	129	331.9
40	75.8	127	287.6
45	73.4	126	253.1
50	70.9	124	225.5
55	68.5	122	202.9
60	65.9	120	184.1
65	63.4	117	168.1
70	60.7	114	154.4
75	58	111	140.4
80	55.2	108	128.5
85	52.3	104	118.3
90	49.2	99	109.4
95	46	94	101.6
100	42.6	89	94.7
105	39	83	88.5
110	35	76	83.0
115	30.5	67	78.0
120	25.3	57	73.4
125	20.2	47	33.4
125 ft point B			oad fall l (2821-2)
24	86	134	79.4
25	85.6	134	79.4
30	83.3	133	79.4
35	81	132	79.4
40	78.7	130	79.4
45	76.3	129	79.4
50	74	127	79.4
55	71.5	125	79.4
60	69.1	123	79.4
65	66.6	120	79.4
70	64	118	79.4
75	61.4	114	79.4
80	58.6	111	79.4
85	55.8	107	79.4
90	52.9	103	79.4
95	49.8	98	79.4
100	46.6	93	79.4
105	43.1	87	79.4
110	39.4	81	78.5
115	35.3	73	73.4
120	30.6	64	68.7
125	24.7	52	64.4
130	19.1	40	33.4

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
134 ft point B			oad fall l (2821-1)
19	86	141	553.0
20	85.5	141	553.0
25	83.4	141	462.9
30	81.2	140	388.6
35	79	139	331.8
40 45 50 55 60	76.9 74.6 72.4 70.1	138 136 134 133	287.4 253.0 225.4 202.8 183.9
65 70 75 80 85	67.8 65.5 63.1 60.6 58.1 55.5	130 128 126 123 120 116	168.0 154.3 140.3 128.5 118.3
90	52.8	112	109.4
95	50	108	101.6
100	47.1	103	94.7
105	44	98	88.5
110	40.8	92	83.0
115	37.3	86	78.0
120	33.4	78	73.5
125	29.1	70	69.3
130	24.1	59	65.5
	Main l oom, H		oad fall l (2821-2)
25	86	144	79.4
25	85.9	143	79.4
30	83.8	143	79.4
35	81.7	142	79.4
40	79.5	140	79.4
45	77.4	139	79.4
50	75.2	137	79.4
55	72.9	136	79.4
60	70.7	134	79.4
65	68.4	131	79.4
70	66.1	129	79.4
75	63.7	126	79.4
80	61.2	123	79.4
85	58.7	120	79.4
90	56.1	116	79.4
95	53.4	112	79.4
100	50.6	107	79.4
105	47.7	102	79.4
110	44.6	97	78.6
115	41.2	90	73.5
120	37.6	84	68.9
125	33.5	75	64.6
130	29	65	60.7
135	23.6	54	57.1
140	18	40	33.4



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
144 ft point B			oad fall l (2821-1)
20 20 25 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115 120	86 85.8 83.8 81.8 77.8 75.7 73.6 69.4 67.3 65.1 62.8 60.5 58.2 55.8 53.3 50.7 48.1 45.3 42.3 39.2 35.8	151 151 150 150 149 148 146 145 143 141 139 137 134 131 128 125 121 117 112 107	66.4 526.6 456.1 386.3 330.8 286.5 252.1 224.5 201.9 183.0 167.1 153.4 140.0 128.1 117.9 109.0 101.2 94.3 88.1 82.6 77.6 73.1 69.0
130 135 140 <b>144 ft</b> point B			65.2 61.7 58.4 oad fall (2821-2)
25 30 35 40 45 50 55 60 65 70 75 80 85 90 95	86 84.2 82.2 80.2 76.2 76.2 74.1 72.1 70 67.8 65.6 63.4 61.1 58.8 56.4 53.9	153 153 152 151 149 148 146 144 142 137 137 134 131 128 124	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4
105 110 115 120 125 130 135 140 145	51.3 48.6 45.7 42.7 39.5 36.1 32.1 27.8 22.3 16.9	116 111 106 100 93 86 77 67 54	78.9 77.6 73.2 68.5 64.3 60.5 56.9 53.6 50.4 33.4

125.7				
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]	
154 ft	Main 1	boom, I	oad fall	
point B	oom, H	PT head	l (2821-1)	
20	86	161	66.4	
25 30	84.2 82.4	160 160	451.7 384.4	
35	80.5	159	330.2	
40 45	78.6 76.7	158 157	285.9 251.4	
50	74.7	155	223.8	
55	72.8	154	201.2	
60 65	70.8 68.8	152 150	182.4 166.5	
70	66.8	148	152.8	
75	64.7	145	139.7	
80 85	62.6 60.5	142 140	127.8 117.6	
90	58.3	136	108.7	
95 100	56 53.7	133 129	100.9 94.0	
105	51.3	125	87.8	
110	48.9	121	82.3	
115 120	46.3 43.6	116 111	77.3 72.8	
125	40.7	105	68.7	
130	37.7	99	64.9	
135 140	34.4 30.8	91 83	61.4 58.2	
145	26.8	73	55.2	
150	22	62	52.4	
			oad fall	
point B	00m, <b>n</b>	PT nead	l (2821 <b>-</b> 2)	
26	86	163	79.4	
30	84.6	163	79.4	
35 40	82.7 80.9	162 161	79.4 79.4	
45	79	159	79.4	
50 55	77.1	158	79.4	
55 60	75.2 73.2	156 155	79.4 79.4	
65	71.3	153	79.4	
70 75	69.3 67.3	151 148	79.4 79.4	
80	65.2	146	79.4	
85	63.1	143	79.4 79.4	
90 95	61 58.8	140 136	79.4 79.4	
100	56.6	133	79.4	
105 110	54.2 51.8	129 125	79.4 78.0	
115	49.3	120	72.9	
120	46.7	115	68.3	
125 130	44 41.1	109 103	64.1 60.2	
135	37.9	96	56.7	
140	34.6 30.8	88 79	53.4 50.3	
145 150	26.5	69	47.5	

Radius	Main	Rope	Load capacity
[ft]:	boom	pulley	
	angle [°]:	height [ft]:	[1000 lbs
164 ft			oad fall
point B	oom, H	PT head	l (2821-1)
21	86	171	475.6
25	84.6	170	446.9
30	82.8	170	382.5
35	81	169	328.2
40	79.3	168	285.0
45	77.5	167	250.5
50		165	222.9
50 55	75.7 73.8	164	200.3
60	72	162	181.5
65	70.1	160	165.5
70	68.3	158	151.9
75	66.3	156	139.2
80	64.4	154	127.4
85	62.4	151	117.1
90	60.4	148	108.2
95	58.4	145	100.4
100	56.2	142 138	93.5
105	54.1	134	87.3
110	51.9		81.8
115	49.6	130	76.8
120	47.2	125	72.3
125	44.7	120	68.2
130	42.1	114	64.4
135	39.3	108	61.0
140	36.4	102	57.8
145	33.2	94	54.8
150	29.7	85	52.0
155	25.8	75	49.4
160	21.1	63	47.0
164 ft			oad fall
point B	oom, H	PT head	l (2821-2)
27	86	173	79.4
30	84.9		79.4
35	83.2	172 172	79.4 79.4
40	81.4	171	79.4
45	79.6	170	79.4
50	77.9	168	79.4
55	76.1	167	79.4
60	74.3	165	79.4
65	72.5	163	79.4
70	70.6	161	79.4
75	68.7	159	79.4
80	66.8	157	79.4
85	64.9	154	79.4
90	62.9	154	79.4
95	60.9	148	79.4
100	58.8	145	79.4
105	56.7	141	79.4
110	54.6	138	77.5
115	52.3	133	72.5
120	50	129	67.9
125	47.6	124	63.7
130	45.1	118	59.8
135	42.4	113	56.3
140	39.6	106	53.0
145	36.6	99	50.0
150	33.4	91	47.2
155	29.6	81	44.5
160	25.4	70	42.0



Version: 9839979/59979/ HPT foot: 2821-1

Degree rating: limited ° Foot print: 3-blocked crawlers Counterweight [1000 lbs]: 251.3 Carbody counterweight [1000 lbs]: 125.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			Load fall l (2821-1)
22	86	181	448.5
25	84.9	180	438.3
30	83.2	180	377.6
35	81.6	179	326.0
40	79.9	178	284.7
45	78.2	177	250.2
50	76.5	176	222.6
55	74.8	174	200.0
60	73.1	173	181.1
65	71.3	171	165.2
70	69.6	169	151.5
75	67.8	167	139.0
80	66	165	127.1
85	64.1	162	116.9
90	62.3	160	108.0
95	60.4	157	100.2
100	58.4	154	93.3
105	56.4	150	87.1
110	54.4	146	81.6
115	52.3	143	76.6
120	50.2	138	72.1
125	47.9	134	68.0
130	45.6	129	64.2
135	43.2	124	60.8
140	40.7	118	57.6
145	38	111	54.6
150	35.2	104	51.9
155	32.1	96	49.3
160	28.7	88	46.9
165	24.9	77	44.6
			42.5 Load fall l (2821-2)

			oad fall l (2821-2)
28	86	183	79.4
30	85.2	182	79.4
35	83.5	182	79.4
40	81.9	181	79.4
45	80.2	180	79.4
50	78.6	178	79.4
55	76.9	177	79.4
60	75.2	176	79.4
65	73.5	174	79.4
70	71.7	172	79.4
75	70	170	79.4
80	68.2	168	79.4
85	66.4	165	79.4
90	64.6	163	79.4
95	62.7	160	79.1
100	60.8	157	78.8
105	58.9	154	78.5
110	56.9	150	77.3
115	54.9	146	72.3
120	52.8	142	67.7
125	50.6	138	63.5
130	48.3	133	59.6
135	46	128	56.1
140	43.6	122	52.9
145	41	116	49.8
150	38.2	109	47.0
155	35.3	102	44.4
160	32.2	93	42.0
165	28.6	83	39.6
170	24.6	72	37.5
175	19.6	58	35.4

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)

184 ft	Main I	noom T	oad fall
			10au 1a11   (2821-1)
	,		(
22	86	190	419.7
25	85.2	190	419.7
30	83.6	190	368.6
35	82	189	323.8
40	80.4	188	283.7
45	78.8	187	249.2
50	77.2	186	221.6
55	75.6	184	199.0
60	74	183	180.2
65	72.4	181	164.3
70 75	70.7 69	180 178	150.6 138.6
75 80	67.3	176	126.7
85	65.6	173	116.4
90	63.9	173	107.5
95	62.1	168	99.7
100	60.3	165	92.8
105	58.5	162	86.6
110	56.6	159	81.1
115	54.7	155	76.1
120	52.7	151	71.6
125	50.7	147	67.5
130	48.6	143	63.7
135	46.5	138	60.3
140	44.2	133	57.1
145	41.9	127	54.1
150	39.4	121	51.4
155	36.8	114	48.8
160	34.1	107 99	46.4
165 170	31.1 27.8	99	44.2 42.1
170	27.8	90 79	42.1 40.1
180	19.6	65	38.2
100	13.0	UU	JU.Z

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

28	86	193	79.4
30	85.4	192	79.4
35	83.9	192	79.4
40	82.3	191	79.4
45	80.8	190	79.4
50	79.2	189	79.4
55	77.6	187	79.4
60	76	186	79.4
65	74.4	184	79.4
70	72.8	182	79.4
75	71.1	180	79.4
80	69.4	178	79.4
85	67.8	176	79.4
90	66.1	174	79.4
95	64.3	171	79.4
100	62.5	168	78.1
105	60.8	165	76.8

Radius	Main	Rope	Load
[ft ]:			capacity
	angle	height	[1000 lbs
	[°]:	[ft ]:	]

184 ft Main boom, Load fall point Boom, HPT head (2821-2)

110	58.9	162	75.7
115	57	158	71.8
120	55.1	155	67.2
125	53.1	151	63.0
130	51.1	146	59.2
135	49	142	55.7
140	46.8	137	52.4
145	44.6	131	49.4
150	42.2	125	46.6
155	39.7	119	44.0
160	37	112	41.5
165	34.2	104	39.3
170	31	95	37.1
175	27.7	85	35.1
180	24.6	76	33.3
185	20	62	31.4

194 ft Main boom, Load fall point Boom, HPT head (2821-1)

23	86	200	392.7
25	85.4	200	392.7
30	83.9	200	358.4
35	82.4	199	321.6
40	80.9	198	281.4
45	79.4	197	248.5
50	77.9	196	220.9
55	76.4	195	198.3
60	74.8	193	179.5
65	73.3	192	163.6
70	71.7	190	149.9
75	70.2	188	138.1
80	68.6	186	126.3
85	66.9	184	116.0
90	65.3	182	107.1
95	63.7	179	99.3
100	62	176	92.4
105	60.3	174	86.2
110	58.5	170	80.7
115	56.8	167	75.7
120	54.9	164	71.2
125	53.1	160	67.1
130	51.2	156	63.3
135	49.2	151	59.9
140	47.2	147	56.7
145	45.1	142	53.7
150	42.9	136	51.0
155	40.7	131	48.4
160	38.3	124	46.0
165	35.7	117	43.8
170	33	110	41.7
175	30.1	101	39.8
180	26.9	92	37.9
185	23.2	80	36.1
190	18.9	66	34.4

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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-2)
29	86	202	79.4
30	85.7	202	79.4
35	84.2	202	79.4
40	82.7	201	79.4
45 50 55 60	81.2 79.7 78.2 76.7	200 199 198 196	79.4 79.4 79.4 79.4 79.4
65 70 75 80	75.2 73.7 72.1 70.5	195 193 191 189	79.4 79.4 79.4 79.4 79.4
85	69	187	79.4
90	67.4	185	79.4
95	65.7	182	79.4
100	64.1	180	79.1
105	62.4	177	76.9
110	60.7	174	74.9
115	58.9	170	71.4
120	57.2	167	66.8
125	55.4	163	62.6
130	53.5	159	58.8
135	51.6	155	55.3
140	49.6	150	52.0
145	47.6	146	49.0
150	45.4	140	46.2
155	43.2	135	43.6
160	40.9	129	41.2
165	38.5	122	38.9
170	35.9	115	36.8
175	33.2	107	34.8
180	30.8	100	33.0
185	27.5	90	31.2
			29.5 27.8 oad fall (2821-1)
24	86	210	363.6
25	85.6	210	363.6
30	84.2	209	344.3
35	82.8	209	319.1
40	81.4	208	278.6
45	79.9	207	247.6
50	78.5	206	220.0
55	77	205	197.4
60	75.6	204	178.6
70 75 80 85	74.1 72.6 71.2 69.7 68.1	202 200 199 197 195	162.6 149.0 137.1 125.9 115.6
90	66.6	192	106.7
95	65	190	98.8
100	63.5	188	91.9
105	61.9	185	85.7
110	60.2	182	80.2
115	58.6	179	75.2
120	56.9	176	70.7

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
203 ft point B			oad fall l (2821-1)
125	55.2	172	66.6
130	53.4	168	62.8
135	51.6	164	59.3
140	49.8	160	56.1
145	47.9	156	53.2
150	45.9	151	50.4
155	43.8	146	47.9
160	41.7	140	45.5
165	39.5	134	43.3
170	37.2	127	41.2
175	34.7	120	39.2
180	32.1	112	37.4
185	29.2	103	35.6
190	26.1	93	34.0
195	23.3	84	32.5
200	19.2	71	31.0
203 ft point B			oad fall l (2821-2)
30	86	212	79.4
30	85.9	212	79.4
35	84.5	212	79.4
40	83.1	211	79.4
45	81.7	210	79.4
50	80.2	209	79.4
55	78.8	208	79.4
60	77.4	206	79.4
65	75.9	205	79.4
70	74.5	203	79.4
75	73	202	79.4
80	71.5	200	79.4
85	70	198	79.4
90	68.5	196	79.4
95	67	193	79.4
100	65.4	191	79.4
105	63.9	188	78.7
110	62.3	185	75.5
115	60.6	182	71.0
120 125 130 135 140 145	59 57.3 55.6 53.8 52	179 176 172 168 164 159	66.4 62.2 58.3 54.8 51.5 48.5
150 155 160 165	50.1 48.2 46.2 44.1 42 39.7	159 154 149 144 138 132	45.5 45.7 43.1 40.7 38.4 36.3
170 175 180 185 190	37.4 35.5 32.8 29.9	125 119 111 102	34.3 32.6 30.8 29.0
195	26.7	91	27.2
200	23	79	25.5

Radius	Main	Rope	Load
[ft]:	boom	pulley	capacity
	angle	height	[1000 lbs
	[°]:	[ft]:	]
			oad fall
ротиг в	oom, n	ri nead	l (2821-1)
24	86	220	66.4
25	85.8	220	337.2
30	84.5	219	328.2
35	83.1	219	310.4
40	81.8	218	276.3
45	80.4	217	244.4
50	79	216	219.6
55	77.7	215	197.0
60 65	76.3	214	178.1
65	74.9	212	162.2
70	73.5	211	148.5
75	72.1	209	136.7
80	70.6	207	125.5
85	69.2	205	115.3
90	67.7	203	106.3
95	66.3	201	98.5
100	64.8	199	91.6
105	63.3	196	85.4
110	61.7	193	79.9
115	60.2	190	74.9
120	58.6	187	70.3
125	57	184	66.2
130	55.4	181	62.5
135	53.7	177	59.0
140	52	173	55.8
145	50.2	169	52.9
150	48.4	164	50.1
155	46.6	160	47.6
160	44.7	155	45.2
165	42.7	149	43.0
170	40.6	143	40.9
175	38.5	137	39.0
180	36.2	130	37.1
185	33.8	123	35.4
190	31.2	115	33.7
195	29	108	32.3
200	26	98	30.8
205	22.6	86	29.4
210	18.6	72	28.0
213 ft noint B			.oad fall l (2821-2)
point 2	oom, 11		(2021 2)
30	86	222	79.4
35	84.7	221	79.4
40	83.4	221	79.4
45	82	220	79.4
50	80.7	219	79.4
55	79.3	218	79.4
60	78	216	79.4
65	76.6	215	79.4
70	75.2	214	79.4
75	73.8	212	79.4
80	72.4	210	79.4
85	71	208	79.4 79.4
90	69.6	206	79.4
95	68.1	204	79.4
100	66.6	202	79.4
105	65.2	199	79.4
110	63.7	196	75.7
115	62.1	194	70.6
120	60.6	191	66.0
125	59	187	61.9
130	57.4	184	58.0
135	55.8	180	54.5



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
213 ft point B			oad fall l (2821-2)
140	54.1	176	51.2
145	52.4	172	48.2
150	50.6	168	45.4
155	48.8	163	42.9
160	46.9	158	40.4
165	45	153	38.2
170	43	147	36.0
175	40.9	141	34.0
180	39.2	136	32.3
185	36.9	129	30.6
190	34.5	122	28.7
195	31.9	113	26.9
200	29	104	25.2
205	25.9	93	23.6
210	22.3	80	22.0
			20.4 oad fall (2821-1)
25	86	230	66.4
30	84.7	229	311.2
35	83.4	229	296.3
40	82.1	228	272.2
45	80.8	227	241.1
50	79.5	226	217.4
55	78.2	225	196.0
60 65 70 75	76.9 75.6 74.2	224 222 221 220	177.2 161.2 147.6 135.7
80 85 90	72.9 71.5 70.2 68.8 67.4	218 216 214	125.1 114.8 105.9
95 100 105 110 115	66 64.6 63.1 61.6	212 210 207 205 202	98.0 91.1 84.9 79.4 74.4
120 125 130 135 140	58.7 57.1 55.6 54	199 196 193 189 186	69.8 65.7 61.9 58.5 55.3
145	52.3	182	52.3
150	50.7	178	49.6
155	49	173	47.0
160	47.2	168	44.7
165	45.4	164	42.5
170	43.5	158	40.4
175	41.6	153	38.4
180	39.6	147	36.6
185	37.5	140	34.8
190	35.8	135	33.3
195	33.4	127	31.8
200	31	119	30.3
205	28.3	110	28.9
210	25.3	99	27.5
215	22	87	26.3

Radius [ft ]:	Main boom	Rope pulley	Load capacity
	angle [°]:	height [ft]:	[1000 lbs
223 ft point B			oad fall l (2821-2)
31 35	86 85	232 231	79.4 79.4
40	83.7	231	79.4
45 50	82.4 81.1	230 229	79.4 79.4
55	79.8	228	79.4
60 65	78.5 77.2	227 225	79.4 79.4
65 70	77.2 75.9	223	79.4
75	74.5	222	79.4
80 85	73.2 71.9	221 219	79.4 79.4
90	70.5	217	79.4
95 100	69.1 67.7	215 213	79.4 79.4
105	66.3	210	79.4
110 115	64.9 63.5	208 205	75.3 70.2
120	62	202	65.6
125	60.5	199	61.4
130 135	59 57.5	196 192	57.5 54.0
140	55.9	189	50.8
145 150	54.3 52.7	185 181	47.7 45.0
155	51	177	42.4
160 165	49.3 47.5	172 167	39.9 37.7
170	45.7	162	35.5
175 180	43.8 42.3	157 152	33.5 31.8
185	40.3	146	29.8
190 195	38.2 35.9	139 132	27.9 26.1
200	33.6	124	24.4
205	31	115	22.8
210 215	28.2 25.1	106 95	21.3 19.7
220	21.6	82	18.3
225 <b>233 ft</b>	17.2	65 boom, I	oad fall
			l (2821-1)
26	86	240	66.4
30 35	85 83.7	239 238	294.7 277.8
40	82.5	238	261.3
45 50	81.2 80	237 236	233.8 212.0
55	78.7	235	195.3
60 65	77.5 76.2	234 233	176.5 160.5
70	74.9	231	146.8
75 80	73.6 72.3	230 228	135.0 124.6
80 85	72.3 71	228	124.6
90	69.7	225	105.4
95 100	68.4 67.1	223 220	97.6 90.6
105	65.7	218	84.4
110 115	64.3 63	216 213	78.9 73.9
120	61.6	210	69.4
125 130	60.1 58.7	208 204	65.2 61.5
135	58.7 57.2	204	58.0
140	55.7	198	54.8

Radius [ft ]:	Main boom angle [°]:		Load capacity [1000 lbs ]
			oad fall   (2821-1)
145	54.2	194	51.9
150 155	52.7 51.1	190 186	49.1 46.6
160	49.5	182	44.2
165 170	47.8 46.1	177 172	42.0 39.9
175	44.3	167	38.0
180 185	42.5 40.6	162 156	36.1 34.4
190	39.1	151	32.9
195 200	37 34.9	145 137	31.3 29.9
205	32.6	130	28.5
210 215	30.2 27.6	121 112	27.1 25.9
220	24.7	101	24.6
225	21.4	89	23.5
233 ft	Main l	boom, I	oad fall (2821-2)
ротит в	oom, n	r i neau	(2021-2)
32	86	242	79.4
35	85.2	241	79.4
40 45	83.9 82.7	241 240	79.4 79.4
50	81.5	239	79.4
55 60	80.2 79	238 237	79.4 79.4
65	77.7	236	79.4
70 75	76.5 75.2	234 233	79.4 79.4
80	73.9	231	79.4
85 90	72.7 71.4	229 228	79.3 78.8
95	70	226	78.2
100 105	68.7 67.4	223 221	77.8 77.3
110	66	219	74.8
115 120	64.7 63.3	216 214	69.8 65.1
125	61.9	211	61.0
130 135	60.5 59	208 204	57.1 53.6
140	57.6	201	50.3
145 150	56.1 54.6	198 194	47.3 44.5
155	53	190	41.9
160 165	51.4 49.8	186 181	39.5 37.2
170	48.1	176	35.1
175 180	46.4 45	171 167	32.9 31.1
185	43.2	162	29.2
190 195	41.3 39.3	156 149	27.3 25.5
200	37.2	142	23.8
205 210	35 32.7	135 127	22.2 20.7
215	30.2	118 108	19.2
220 225	27.5 24.5	108 96	17.8 16.4
230	21	83	15.0
235	16.7	66	13.7



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs l
	Main l	boom, I	oad fall l (2821-1)
26	86	249	273.2
30	85.2	249	273.2 261.0
35 40	84 82.8	248 248	250.9
45	81.6	247	226.5
50 55	80.4 79.2	246 245	206.5 191.1
60	78	244	175.5
65 70	76.8 75.5	243 242	159.6 145.9
75	74.3	240	134.0
80	73.1	239	123.7
85 90	71.8 70.6	237 235	113.9 104.9
95	69.3	233	97.1
100 105	68 66.8	231 229	90.1 83.9
110	65.5	227	78.4
115	64.1	224	73.4
120 125	62.8 61.5	222 219	68.8 64.7
130	60.1	216	60.9
135 140	58.7	213 210	57.5 54.3
140	57.3 55.9	206	54.3 51.3
150	54.4	203	48.6
155 160	52.9 51.4	199 195	46.0 43.7
165	49.9	191	41.4
170 175	48.3 46.7	186 181	39.4 37.4
173	45.7	176	37.4 35.6
185	43.3	171	33.8
190 195	41.9 40.1	167 161	32.3 30.8
200	38.2	154	29.3
205 210	36.2 34.1	148 140	27.9 26.6
215	31.8	132	25.3
220	29.5	123	24.1
225 230	26.9 24	114 103	22.9 21.6
235	20.8	90	20.4
point B	oom, H	PT head	oad fall l (2821-2)
32 35	86 85.4	252 251	79.4 79.4
40	84.2	250	79.4
45 50	83	250	79.4
50 55	81.8 80.6	249 248	79.4 79.4
60	79.4	247	79.4
65 70	78.2 77	246 244	79.4 79.4
75	75.8	243	79.4
80 85	74.6 73.4	241 240	79.4 79.4
85 90	73.4 72.1	238	79.4 78.7
95	70.9	236	77.3
100 105	69.6 68.4	234 232	76.0 74.8
110	67.1	230	73.8
115 120	65.8	227 225	69.3
120 125	64.5 63.2	225 222	64.7 60.5
130	61.8	219	56.6

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]
243 ft point B			oad fall l (2821-2)
135 140 145	60.5 59.1 57.7 56.2	216 213 210	53.1 49.8 46.8
150	56.2	206	44.0
155	54.8	202	41.4
160	53.3	198	38.9
165	51.8	194	36.5
170	50.2	190	34.2
175	49	186	32.0
180	47.3	181	30.2
185	45.7	176	28.3
190	43.9	171	26.4
195	42.2	165	24.7
200	40.3	159	23.0
205	38.4	152	21.4
210	36.3	145	19.9
215	34.2	137	18.4
220	31.9	129	17.0
225	29.5	120	15.6
230	26.8	109	14.3
235	23.8	98	13.0
240	20.4	84	11.8
245	16.1	66	10.5
<b>253 ft</b>	<b>Main</b> 1	boom, I	oad fall
	86		l (2821-1)
27 30 35 40	85.3 84.2 83.1	259 259 258 258	257.6 257.6 252.9 247.8
45	81.9	257	227.8
50	80.8	256	206.6
55	79.6	255	189.9
60	78.5	254	175.0
65	77.3	253	159.1
70	76.1	252	145.4
75	74.9	250	133.5
80	73.8	249	123.1
85	72.6	247	113.5
90	71.4	246	104.6
95	70.2	244	96.7
100	68.9	242	89.7
105	67.7	240	83.6
110	66.5	238	78.0
115	65.2	235	73.0
120	64	233	68.5
125	62.7	230	64.3
130	61.4	227	60.5
135	60.1	224	57.1
140 145 150	58.7 57.4 56	224 221 218 215	57.1 53.9 50.9 48.2
155	54.6	211	45.6
160	53.2	207	43.3
165	51.8	203	41.1

Radius [ft ]:	boom	Rope pulley height [ft]:	Load capacity [1000 lbs ]
			oad fall l (2821-1)
170 175	50.3 48.8	199 195	39.0 37.0
180	47.2	190	35.2
185 190	45.6 44.4	185 181	33.5 32.0
195	42.7	176	30.4
200 205	41 39.2	170 164	28.9 27.6
210	37.3	157	26.2
215 220	35.3 33.3	150 143	25.0 23.7
225	31.1	135	22.4
230 235	28.8 26.2	126 116	21.1 19.9
240	23.4	104	18.8
245	20.3	91	17.6
			oad fall l (2821-2)
ропп в	oom, n	ri nead	1 (2021-2)
33 35	86 85.5	261 261	79.4 79.4
40	84.4	260	79.4
45 50	83.3 82.1	260 259	79.4 79.4
55	81	258	79.4
60 65	79.9 78.7	257 256	79.4 79.4
70	77.6	254	79.4
75 80	76.4 75.2	253 252	79.4 79.4
85	74	250	79.4
90 95	72.9 71.7	248 247	79.4 77.4
100	70.5	245	75.4
105 110	69.2 68	243 240	73.5 71.8
115	66.8	238	68.9
120 125	65.6 64.3	236 233	64.3 60.1
130	63	230	56.2
135 140	61.7 60.4	228 225	52.7 49.4
145	59.1	221	46.4
150 155	57.7 56.4	218 214	43.6 41.0
160	55 53.5	211	38.5 36.0
165 170	53.5 52.1	207 203	33.7
175	50.9	199	31.8 29.8
180 185	49.4 47.9	195 190	29.8 27.8
190 195	46.3 44.6	185 180	26.0 24.2
200	42.9	174	22.5
205 210	41.2 39.4	168 162	20.9 19.4
215	37.5	155	17.9
220 225	35.5 33.4	148 140	16.5
230	31.2	131	15.2 13.9
235 240	28.7 26.1	122 111	12.6 11.4
245	23.2	99	10.3
250	19.8	85	9.1



Version: 9839979/59979/ HPT foot: 2821-1

Radius	Main	Rope	Load
[ft]:	boom	pulley	capacity
	angle	height	[1000 lbs
	[°]:	[ft ]:	]
			oad fall l (2821-1)
point 2	<b>50111</b> , 11	I I IICUC	(2021-1)
28	86	269	239.9
30	85.5	269	239.9
35	84.4	268	237.6
40	83.3	268	234.0
45	82.2	267	221.9
50	81.1	266	202.5
55	80	265	186.7
60	78.9	264	174.1
65	77.8	263	158.1
70	76.7	262	144.4
75	75.5	261	132.6
80	74.4	259	122.2
85	73.2	258	113.1
90	72.1	256	104.1
95	70.9	254	96.2
100	69.8	252	89.3
105	68.6	250	83.1
110	67.4	248	77.5
115	66.2	246	72.5
120	65	244	67.9
125	63.8	241	63.8
130	62.6	239	60.0
135	61.3	236	56.5
140	60.1	233	53.3
145	58.8	230	50.4
150	57.5	227	47.6
155	56.2	223	45.1
160	54.8	220 216	42.7
165	53.5	216	40.5
170	52.1		38.4
175	50.7	208	36.5
180	49.2	204	34.6
185	47.7	199	32.9
190	46.6	195	31.4
195	45	190	29.9
200	43.4	185	28.4
205	41.8	179	27.0
210	40.1	173	25.6
215	38.3	167	24.2
220	36.5	160	22.8
225	34.6	153	21.5
230	32.6	145	20.3
235	30.4	137	19.1
240	28.1	128	17.9
245	25.6	117	16.8
250	22.9	106	15.7
255	19.8	92	14.7
			oad fall l (2821-2)
home p	oom, n	ri neau	1 (2021-2)
34	86	271	79.4
35	85.7	271	79.4
40		270	79.4
40	84.6	270	79.4
45	83.5	270	
50	82.4	269	79.4
55	81.3	268	79.4
60	80.2	267	79.4
65	79.1	266	79.4
70	78	265	79.4
75	76.9	263	79.4
80	75.8	262	79.4
85	74.7	260	79.4
90	73.5	259	79.4
95	72.4	257	78.6
100	71.2	255	75.8
105	70.1	253	73.1
110	68.9	251	70.6

125.7				
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]	
262 ft Main boom, Load fall point Boom, HPT head (2821-2)				
115 120	67.7	249 247	68.4 63.8	
120	66.6 65.3	247 244	59.6	
130	64.1	242	55.8	
135 140	62.9 61.6	239 236	52.2 48.9	
145	60.4	233	45.9	
150 155	59.1 57.8	230 226	42.9 40.2	
160	56.5	223	37.6	
165	55.1	219	35.1	
170 175	54.1 52.7	216 212	33.1 30.9	
180	51.3	208	28.9	
185	49.8	204	26.9	
190 195	48.3 46.8	199 194	25.1 23.3	
200	45.3	189	21.7	
205	43.7 42	183 178	20.1	
210 215	40.3	178	18.6 17.1	
220	38.5	165	15.7	
225	36.7 34.7	158 150	14.4 13.1	
220		า เอบ เ	13.1	
230 235		142	11.8	
235 240	32.6 30.4	142 133	10.6	
235 240 245	32.6 30.4 28.1	142 133 124	10.6 9.5	
235 240	32.6 30.4	142 133	10.6	
235 240 245 250	32.6 30.4 28.1 25.5 22.6 19.3	142 133 124 113 100 86	10.6 9.5 8.4	
235 240 245 250 255 260 <b>272 ft</b>	32.6 30.4 28.1 25.5 22.6 19.3	142 133 124 113 100 86	10.6 9.5 8.4 7.3 6.2	
235 240 245 250 255 260 <b>272 ft</b>	32.6 30.4 28.1 25.5 22.6 19.3	142 133 124 113 100 86	10.6 9.5 8.4 7.3 6.2	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b>	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1	142 133 124 113 100 86 boom, I PT head	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1)	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b>	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>coom, H</b>	142 133 124 113 100 86 boom, I PT head	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 222.0	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>coom, H</b>	142 133 124 113 100 86 boom, I PT head 279 279 278 278	10.6 9.5 8.4 7.3 6.2 Load fall (2821-1) 222.0 222.0 221.2 219.0	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main 1</b> 000m, H	142 133 124 113 100 86 boom, I PT head 279 279 278 278 278	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 222.0 221.2 219.0 213.6	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>coom, H</b>	142 133 124 113 100 86 boom, I PT head 279 279 278 278 277 276	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 221.2 219.0 213.6 196.1	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 60	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3	142 133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 275 275	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 66 65	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> <b>86</b> 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2	142 133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 274 273	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 60	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3	142 133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 275 275	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1	142 133 124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 66 67 70 75 80 85	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> <b>86</b> 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75	142 133 124 113 100 86 boom, I PT head 279 279 278 278 277 276 275 274 273 272 271 269 268	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7	142 133 124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8	
235 240 245 250 255 260 <b>272 ft</b> <b>point B</b> 28 30 35 40 45 50 55 60 65 70 75 80 85 90 95	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5	142 133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 269 268 268 265 263	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7	142 133 124 113 100 86 boom, I PT head 279 278 278 277 276 275 274 273 272 271 269 268 266 265	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 95 100 105 110 115	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1	142 133 124 113 100 86 boom, I PT head 279 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66	142 133 124 113 100 86 boom, I PT head 279 279 278 277 276 275 274 273 272 271 269 268 268 265 263 261 259 257 255	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 100 105 115 120 125 130	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main l</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1	142 133 124 113 100 86 boom, I PT head 279 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120 125 130	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>oom, H</b> 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5	142 133 124 113 100 86 boom, I PT head 279 278 277 276 275 274 273 272 271 269 268 265 263 261 259 257 255 255 252 250 247	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4 63.3 59.5 56.0	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120 125 130 135 140	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> . 86 85.7 84.6 83.6 82.5 81.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66.4 64.8 63.6	142 133 124 113 100 86  279 278 278 278 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 244	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1) 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4 63.3 59.5 56.0 52.8	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 90 95 100 105 115 120 125 130 135 140 145 150	32.6 30.4 28.1 25.5 22.6 19.3 Main loom, H. 86 85.7 84.6 83.6 82.5 81.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66.6 64.8 63.6 62.5 61.3 60.0 58.8	142 133 124 113 100 86  boom, I PT head  279 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 241 238	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 67.4 63.3 59.5 56.0 52.8 49.9 47.1	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 70 75 80 85 90 105 110 115 120 125 130 145 150 155	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main I</b> <b>com, H</b> 86 85.7 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66 64.8 63.6 62.5 61.3 60.5 61.3 60.5 63.8 63.6	142 133 124 113 100 86  boom, I PT head  279 278 277 276 275 274 273 277 276 269 268 266 263 261 259 257 255 252 250 247 244 241 238 235	10.6 9.5 8.4 7.3 6.2 coad fall (2821-1)  222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4 63.3 59.5 56.0 52.8 49.9 47.1 44.6	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 90 95 100 105 115 120 125 130 135 140 145 150	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> . 86 85.7 84.6 83.6 82.5 81.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66.4 63.6 62.5 61.3 60.5 63.6 62.5 61.3 65.7 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3	142 133 124 113 100 86  boom, I PT head  279 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 250 247 241 238	10.6 9.5 8.4 7.3 6.2 200 221.0 222.0 221.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4 63.3 59.5 56.0 52.8 49.9 47.1 44.6 42.2 40.0	
235 240 245 250 255 260 <b>272 ft point B</b> 28 30 35 40 45 50 65 70 75 80 85 90 95 110 115 120 125 130 135 140 145 150 155 160 165 170	32.6 30.4 28.1 25.5 22.6 19.3 Main I oom, H. 86 85.7 84.6 83.6 82.5 81.4 80.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 66.6 62.5 61.3 60.5 63.6 62.5 61.3 65.7 65.8 65.7	142 133 124 113 100 86  boom, I PT head  279 278 277 276 275 274 273 272 271 269 268 266 265 263 261 259 257 255 252 247 244 241 238 235 232 228 228	10.6 9.5 8.4 7.3 6.2 20ad fall (2821-1)  222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4 63.3 59.5 56.0 52.8 49.9 47.1 44.6 42.2 40.0 37.9	
235 240 245 250 255 260  272 ft point B  28 30 35 40 45 50 65 60 65 70 75 80 85 100 115 120 125 130 135 140 150 155 160 165	32.6 30.4 28.1 25.5 22.6 19.3 <b>Main</b> 1 <b>oom, H</b> . 86 85.7 84.6 83.6 82.5 81.4 79.3 78.2 77.1 76.1 75 73.9 72.8 71.7 70.5 69.4 68.3 67.1 66.4 63.6 62.5 61.3 60.5 63.6 62.5 61.3 65.7 65.3 65.3 65.3 65.3 65.3 65.3 65.3 65.3	142 133 124 113 100 86  boom, I PT head  279 278 278 277 276 274 273 272 271 269 266 265 263 261 259 257 255 252 247 241 238 238 235 232 228	10.6 9.5 8.4 7.3 6.2 load fall (2821-1) 222.0 222.0 221.2 219.0 213.6 196.1 181.5 170.0 157.4 143.7 131.8 121.4 112.3 103.6 95.8 88.8 82.6 77.0 72.0 67.4 63.3 59.5 56.0 52.8 49.9 47.1 44.6 42.2 40.0	

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]			
272 ft point B	272 ft Main boom, Load fall point Boom, HPT head (2821-1)					
190	48.5	209	30.9			
195 200	47.1 45.6	204 199	29.4 27.9			
205	44.1	194	26.3			
210	42.5	189	24.9			
215 220	40.9 39.3	183 177	23.5 22.1			
225	37.5	170	20.8			
230	35.7	163	19.6			
235	33.9	156	18.4			
240 245	31.9 29.8	148 139	17.2 16.1			
250	27.5	130	15.1			
255	25.1	119	14.0			
260	22.4	107	13.0			
265	19.3	94	12.1			
	oom, H	PT head	oad fall l (2821-2)			
34	86	281	79.4			
	05.0					
35 40	85.9 84.8	281	79.4			
40 45	85.9 84.8 83.8					
40 45 50	84.8 83.8 82.7	281 280 280 279	79.4 79.4 79.4 79.4			
40 45 50 55	84.8 83.8 82.7 81.7	281 280 280 279 278	79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60	84.8 83.8 82.7 81.7 80.6	281 280 280 279 278 277	79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55	84.8 83.8 82.7 81.7	281 280 280 279 278	79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4	281 280 280 279 278 277 276 275 274	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3	281 280 280 279 278 277 276 275 274 272	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2	281 280 280 279 278 277 276 275 274 272 271	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3	281 280 280 279 278 277 276 275 274 272	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9	281 280 280 279 278 277 276 275 274 272 271 269 268 266	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8	281 280 280 279 278 277 276 275 274 272 271 269 268 266	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 115 120	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4	281 280 280 279 278 277 276 275 274 272 271 269 268 264 262 260 258	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 125	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.6 66.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 125 130	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.4 66.3 65.1	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 125	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.6 66.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 100 105 110 115 120 125 130 135 140	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 247 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 250 258 255 253 250 244 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 125 130 145 140 145 150	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1	281 280 280 279 278 277 276 275 274 272 271 269 268 264 262 260 258 255 255 250 247 244 242 238	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 250 258 255 253 250 244 244	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 100 105 110 115 120 125 130 135 140 145 155 160 165 170	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9 56.6	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 244 242 238 238 232 229	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 155 160 165 170 175	84.8 83.8 82.7 81.7 80.6 79.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9 56.6 55.6 55.6	281 280 280 279 278 277 276 275 274 272 271 269 268 264 262 260 258 255 253 250 247 244 242 242 238 235 235 232 229 229 225	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			
40 45 50 55 60 65 70 75 80 85 100 105 110 115 120 125 130 135 140 145 155 160 165 170	84.8 83.8 82.7 81.7 80.6 79.5 78.5 77.4 76.3 75.2 74.1 73 71.9 70.8 69.7 68.6 67.4 66.3 65.1 64 62.8 61.6 60.3 59.1 57.9 56.6	281 280 280 279 278 277 276 275 274 272 271 269 268 266 264 262 260 258 255 253 250 244 242 238 238 232 229	79.4 79.4 79.4 79.4 79.4 79.4 79.4 79.4			



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
	272 ft Main boom, Load fall point Boom, HPT head (2821-2)				
195	48.8	208	22.6		
200 205	47.3 45.9	203 198	21.0 19.4		
210	44.3	193	17.9		
215	42.8	187	16.4		
220 225	41.1 39.5	181 175	15.0 13.7		
230	37.7	168	12.4		
235	35.9	161	11.2		
240 245	34 31.9	153 145	10.0 8.9		
250	29.8	136	7.8		
255	27.5 24.9	126	6.7		
260 265	24.9 22.1	114 102	5.6 4.6		
270	18.8	87	3.6		
282 ft	Main 1	boom. T	oad fall		
282 ft Main boom, Load fall point Boom, HPT head (2821-1)					
29	86	289	205.3		
	86 85.8	289	205.3		
29 30 35 40	86 85.8 84.8 83.8	289 288 288	205.3 204.8 202.9		
29 30 35 40 45	86 85.8 84.8 83.8 82.8	289 288 288 287	205.3 204.8 202.9 201.1		
29 30 35 40	86 85.8 84.8 83.8	289 288 288	205.3 204.8 202.9		
29 30 35 40 45 50 55 60	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7	289 288 288 287 286 285 284	205.3 204.8 202.9 201.1 186.8 174.8 165.0		
29 30 35 40 45 50 55 60 65	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6	289 288 287 286 285 284 283	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4		
29 30 35 40 45 50 55 60	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7	289 288 288 287 286 285 284	205.3 204.8 202.9 201.1 186.8 174.8 165.0		
29 30 35 40 45 50 55 60 65 70 75 80	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5	289 288 288 287 286 285 284 283 282 281 280	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5		
29 30 35 40 45 50 55 60 65 70 75 80 85	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6 77.6 75.5 74.5	289 288 288 287 286 285 284 283 282 281 280 278	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3		
29 30 35 40 45 50 55 60 65 70 75 80	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4	289 288 288 287 286 285 284 283 282 281 280	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3	289 288 287 286 285 284 283 282 281 280 278 277 275	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	86 85.8 84.8 83.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3 70.2	289 288 287 286 285 284 283 282 281 280 278 277 275 273 272	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 71.3	289 288 287 286 285 284 283 282 281 280 278 277 275	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 1100 105 1115 120	86 85.8 84.8 83.8 81.7 80.7 79.7 78.6 77.6 76.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 73.4 72.3 70.2 69.1 68.9 66.9 65.8	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 82.1 76.5 71.5 66.9 62.8		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 1100 105 1115 120	86 85.8 84.8 83.8 81.7 80.7 79.7 78.6 77.6 76.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 110 115 120 125 130 135 140	86 85.8 84.8 82.8 81.7 80.7 79.6 76.6 77.6 75.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 258 256	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 52.3		
29 30 35 40 45 50 55 60 65 70 75 80 90 95 100 105 110 115 120 125 130 135 140 145	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 76.6 75.6 74.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4 61.2	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 270 268 263 261 258 256 253	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 52.3 49.3		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140	86 85.8 84.8 82.8 81.7 80.7 79.6 76.6 77.6 75.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 258 256	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 52.3		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145	86 85.8 84.8 82.8 81.7 80.7 79.7 78.6 77.6 75.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 256 253 250 247 244	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 55.3 49.3 46.6 44.0 41.7		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 165	86 85.8 84.8 83.8 82.8 81.7 80.7 79.7 76.6 75.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6 57.6	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 270 268 265 263 261 258 250 247 244	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 52.3 49.3 46.6 44.0 41.7 39.4		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145	86 85.8 84.8 82.8 81.7 80.7 79.7 78.6 77.6 75.5 73.4 72.3 71.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 256 253 250 247 244	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 55.3 49.3 46.6 44.0 41.7		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 160 165 170 175 180	86 85.8 84.8 82.8 81.7 80.7 79.7 78.6 77.6 76.6 75.5 74.5 74.5 73.4 72.3 71.3 70.2 69.1 68.9 65.8 64.6 63.5 62.4 61.2 60 58.8 57.6 55.4 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6	289 288 288 287 286 285 284 283 282 281 280 277 275 273 272 270 268 265 263 261 256 253 250 247 244 240 237 233 229	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 55.3 49.3 46.6 44.0 41.7 39.4 37.3 35.4 33.6		
29 30 35 40 45 50 55 60 65 70 75 80 85 90 95 1100 105 1115 120 125 130 140 145 150 165 170 175	86 85.8 84.8 82.8 81.7 80.7 79.7 78.6 77.6 75.5 74.5 74.5 73.4 72.3 70.2 69.1 66.9 65.8 64.6 63.5 62.4 61.2 60.5 88.8 57.6 55.2 53.9	289 288 288 287 286 285 284 283 282 281 280 278 277 275 273 272 270 268 265 263 261 258 256 253 250 247 244 240 237 233	205.3 204.8 202.9 201.1 186.8 174.8 165.0 156.4 142.7 130.9 120.5 111.3 103.2 95.3 88.3 82.1 76.5 71.5 66.9 62.8 59.0 55.5 52.3 49.3 46.6 44.0 41.7 39.4 37.3 35.4		

-20	125.7				
Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
	282 ft Main boom, Load fall point Boom, HPT head (2821-1)				
200	47.5	213	27.0 25.4		
205 210	46.1 44.7	208 203	23.9		
215	43.2	198	22.5 21.2		
220 225	41.7 40.1	192 186	19.9		
230	38.5	180	18.7		
235 240	36.8 35	173 166	17.5 16.3		
245	33.2	158	15.2		
250 255	31.2 29.1	150 141	14.2 13.2		
260	26.9	132	12.2		
265	24.5 21.9	121	11.2 10.3		
270 275	18.8	109 95	9.4		
282 ft	Main l	boom, I	oad fall		
point B	oom, H	PT head	(2821-2)		
35 40	86 85	291 290	79.4 79.4		
45	84	290	79.4		
50 55	83	289	79.4		
55 60	81.9 80.9	288 287	79.4 79.4		
65	79.9	286	79.4		
70 75	78.9 77.8	285 284	79.4 79.4		
80	76.8	282	79.4		
85 90	75.8 74.7	281 280	79.4 79.4		
95	73.6	278	79.4		
100	72.6	276	79.1		
105 110	71.5 70.4	274 272	75.2 71.5		
115	69.4	270	67.2		
120 125	68.3 67.2	268 266	62.6 58.4		
130	66.1	264	54.4		
135 140	64.9 63.8	261 259	50.8 47.4		
145	62.7	256	44.3		
150 155	61.5 60.3	253 250	41.3 38.5		
160	59.1	247	36.0		
165 170	57.9	244 241	33.5 31.5		
170 175	57 55.7	237	29.3		
180	54.5	234	27.3		
185 190	53.2 51.9	230 225	25.3 23.5		
195	50.5	221	21.7		
200 205	49.2 47.8	217 212	20.1 18.5		
210	46.4	207	17.0		
215 220	44.9 43.4	202 196	15.5 14.1		
225	41.9	190	12.8		
230	40.3	184	11.5		
235 240	38.7 36.9	178 171	10.3 9.1		
245	35.1	163	8.0		
250 255	33.3 31.3	156 147	6.9 5.9		
260	29.1	138	4.8		
265 270	26.9 24.3	127 116	3.8 2.9		
210	24.3	סוו ו	2.9		

Radius	Main boom	Rope pulley	Load
[ft ]:	angle [°]:		capacity [1000 lbs ]
292 ft point B			oad fall l (2821-1)
30	86	298	66.4
30 35	86 85	298 298	191.3 191.3
40	84	297	189.5
45	83	297	188.2
50	82	296	178.8
55 60	81 80	295 294	168.1 159.2
65	79	293	152.1
70	78	292	142.0
75	77	291	130.3
80 85	76 75	290 288	119.9 110.8
90	74	287	102.6
95	72.9	285	94.8
100	71.9	284	87.9
105 110	70.9 69.8	282 280	81.6 76.1
115	68.8	278	70.1
120	67.7	276	66.5
125	66.6	274	62.3
130 135	65.6 64.5	272 269	58.6 55.1
140	63.4	267	51.9
145	62.3	264	48.9
150	61.1	261	46.2
155 160	60 58.8	258 255	43.6 41.2
165	57.7	252	39.0
170	56.5	249	36.9
175	55.3	245	35.0
180 185	54.4 53.1	242 239	33.3 31.5
190	51.9	235	29.7
195	50.6	231	28.0
200	49.3	226	26.4
205 210	48 46.6	222 217	24.9 23.4
215	45.3	212	22.0
220	43.8	207	20.6
225	42.4	201	19.3
230 235	40.9 39.3	196 190	18.1 16.9
240	37.7	183	15.8
245	36.1	176	14.7
250 255	34.3 32.5	169 161	13.6 12.6
260	32.5 30.6	153	12.0
265	28.6	144	10.7
270	26.4	134	9.8
275 280	24 21.4	123 110	8.9 8.0
285	18.4	96	7.2



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Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
	302 ft Main boom, Load fall point Boom, HPT head (2821-1)				
30	86	308	66.4		
35	85.2	308	177.3		
40 45	84.2 83.2	307 307	176.4 175.5		
50	82.3	306	170.4		
55	81.3	305	161.3		
60	80.4	304	153.6		
65 70	79.4 78.4	303 302	147.2 140.7		
75	77.5	301	129.4		
80	76.5	300	119.0		
85 90	75.5 74.5	299 297	109.8 101.7		
95	73.5	296	94.4		
100	72.5	294	87.4		
105	71.5	292	81.2		
110 115	70.5 69.5	291 289	75.6 70.5		
120	68.5	287	66.0		
125	67.4	285	61.8		
130 135	66.4 65.4	282 280	58.0 54.5		
140	64.3	278	54.5 51.3		
145	63.2	275	48.4		
150	62.2	272	45.6		
155 160	61.1 60	270 267	43.1 40.7		
165	58.9	264	38.4		
170	57.7	261	36.4		
175 180	56.6	257 255	34.3 32.5		
185	55.7 54.5	255 251	32.5		
190	53.3	247	28.8		
195	52.1	243	27.1		
200 205	50.9 49.7	239 235	25.5 23.9		
210	48.4	230	22.5		
215	47.1	226	21.1		
220	45.8	221	19.7		
225 230	44.4 43	216 210	18.4 17.2		
235	41.6	205	16.0		
240	40.1	199	14.9		
245 250	38.6 37	193 186	13.8 12.8		
255	35.4	179	11.7		
260	33.7	172	10.8		
265	31.9	164	9.8		
270 275	30 28	155 146	8.9 8.0		
280	25.9	136	7.2		
285	23.5	124	6.4		
290 295	20.9 18	112 97	5.6 4.8		

Radius [ft ]:	boom angle		Load capacity [1000 lbs
312 ft point B		[ft ]: boom, I PT head	oad fall (2821-1)
31	86	318	165.4
35	85.3	318	165.4
40	84.4	317	164.2
45	83.5	317	162.8
50	82.5	316	160.1
55	81.6	315	152.9
60	80.7	314	146.7
65	79.7	313	141.7
70	78.8	312	137.7
75	77.9	311	128.3
80	76.9	310	118.2
85	76	309	109.1
90	75	308	100.9
95	74.1	306	93.6
100	73.1	304	86.9
105	72.1	303	80.7
110	71.2	301	75.1
115	70.2	299	70.0
120	69.2	297	65.5
125	68.2	295	61.3
130	67.2	293	57.5
135	66.2	291	54.0
140	65.2	289	50.8
145	64.2	286	47.8
150	63.1	284	45.1
155	62.1	281	42.5
160	61	278	40.2
165	60	275	37.8
170	58.9	272	35.6
175	57.8	269	33.5
180	56.9	266	31.6
185	55.8	263	29.8
190	54.7	260	28.0
195	53.5	256	26.3
200	52.4	252	24.7
205	51.2	248	23.2
210	50	244	21.7
215	48.8	239	20.3
220	47.5	235	19.0
225	46.3	230	17.7
230	45	225	16.4
235	43.6	220	15.3
240	42.3	214	14.1
245	40.8	208	13.0
250	39.4	202	12.0
255	37.9	196	11.0
260	36.4	189	10.0
265	34.7	182	9.1
270	33.1	174	8.2
275	31.3	166	7.3
280	29.4	157	6.5
285	27.5	148	5.6
290	25.4	137	4.9
295	23	126	4.1
300	20.5	113	3.3
305	17.6	98	2.6

Radius [ft ]:	Main boom angle [°]:	Rope pulley height [ft]:	Load capacity [1000 lbs ]		
	322 ft Main boom, Load fall point Boom, HPT head (2821-1)				
32	86	328	155.5		
35	85.5	328	155.5		
40	84.6	327	154.6		
45	83.7	327	153.1		
50	82.8	326	152.0		
55	81.9	325	146.1		
60	81	324	140.7		
65	80.1	323	136.1		
70	79.1	322	132.3		
75	78.2	321	126.7		
80	77.3	320	117.2		
85	76.4	319	108.1		
90	75.5	318	100.0		
95	74.6	316	92.7		
100	73.6	315	86.1		
105	72.7	313	80.2		
110	71.8	312	74.6		
115	70.8	310	69.5		
120	69.9	308	64.9		
125	68.9	306	60.8		
130	67.9	304	57.0		
135	67	302	53.5		
140	66	300	50.3		
145	65	297	47.3		
150	64	295	44.5		
155	63	292	41.8		
160	62	290	39.3		
165	61	287	36.9		
170	59.9	284	34.7		
175	58.9	281	32.5		
180	57.9	278	30.6		
185	57	275	28.9		
190	55.9	272	27.1		
195	54.8	268	25.4		
200	53.7	264	23.8		
205	52.6	260	22.2		
210	51.5	256	20.8		
215	50.3	252	19.4		
220	49.1	248	18.0		
225	47.9	244	16.7		
230	46.7	239	15.5		
235	45.5	234	14.3		
240	44.2	229	13.2		
245	42.9	223	12.1		
250	41.5	218	11.1		
255	40.1	212	10.1		
260	38.7	206	9.1		
265	37.2	199	8.2		
270	35.7	192	7.3		
275	34.1	185	6.4		
280	32.5	177	5.6		
285	30.7	168	4.8		
290	28.9	160	4.0		
295	27	150	3.2		
300	24.9	139	2.5		