

Model 9070DE Locomotive Crane Ratings

46" Angle Boom With Straight Taper Tip

Boom Length (Feet)	Radius In Feet	Boom Angle (Degrees)	Free Over Side (Lb.)	With Outriggers Set (Lb.)	Duty Cycle Ratings Magnet or Clamshell Work (Lb.)	Feet From Boom Point To Ground
60 feet	15	80.5	-	300000	-	67
	20	75.6	67750	210600	24000	66
	25	70.6	51310	160410	24000	64
	30	65.4	40820	125940	24000	62
	35	60.1	33550	100780	24000	60
	40	54.4	28200	83670	22400	56
	45	48.3	24110	71270	19000	52
	50	41.5	20860	61870	16500	47
	55	33.7	18230	54490	14400	41
	60	23.7	16040	48540	12800	32
65 feet	16	80.3	-	278760	-	72
	20	76.7	67430	210240	24000	71
	25	72.1	50990	160050	24000	69
	30	67.4	40510	125760	24000	68
	35	62.6	33230	100580	24000	65
	40	57.5	27890	83460	22300	62
	45	52.1	23800	71050	18900	59
	50	46.3	20550	61640	16300	55
	55	39.8	17920	54260	14100	49
	60	32.3	15740	48310	12300	42
65	22.8	13900	43410	10800	33	
70 feet	17	80.2	82470	257640	-	77
	20	77.7	67190	209980	24000	76
	25	73.5	50750	159790	24000	75
	30	69.1	40270	125630	24000	73
	35	64.7	33000	100440	24000	71
	40	60.1	27660	83300	22100	68
	45	55.2	23560	70880	18800	65
	50	50.1	20330	61470	16100	61
	55	44.5	17700	54080	13900	57
	60	38.3	15520	48130	12100	51
65	31.1	13680	43240	10600	44	
70	21.9	12110	39130	9300	34	
75 feet	17	80.8	82130	257270	Duty cycle limited to 70% of rated capacity	87
	20	78.5	66800	209010	-	81
	25	74.6	50400	159410	-	80
	30	70.6	39940	125430	-	78
	35	66.5	32670	100220	-	76
	40	62.2	27330	83070	-	74
	45	57.8	23240	70650	-	71
	50	53.2	20000	61200	-	68
	55	48.3	17380	53840	-	64
	60	42.9	15200	47800	-	59
65	37.0	13300	42980	-	53	
70	30.0	11800	38880	-	45	
75	21.2	10400	35380	-	35	
80 feet	18	80.7	83200	239170	-	87
	20	79.2	66790	209550	-	86
	25	75.6	50350	159340	-	85
	30	71.8	39870	125410	-	84
	35	68.0	32600	100190	-	82
	40	64.1	27260	83040	-	80
	45	60.1	23170	70610	-	77
	50	55.8	19930	61180	-	74
	55	51.4	17310	53790	-	70
	60	46.6	15130	47840	-	66
65	41.5	13300	42940	-	61	
70	35.7	11740	38830	-	54	
75	29.0	10380	35340	-	46	
80	20.5	9190	32330	-	36	

Boom Length (Feet)	Radius In Feet	Boom Angle (Degrees)	Free Over Side (Lb.)	With Outriggers Set (Lb.)	Duty Cycle Ratings Magnet or Clamshell Work (Lb.)	Feet From Boom Point To Ground
85 feet	19	80.6	70930	223040	-	91
	20	79.9	66450	209170	-	91
	25	76.4	50010	158960	-	90
	30	72.9	39540	125220	-	89
	35	69.4	32270	99980	-	87
	40	65.7	26930	82810	-	85
	45	62.0	22840	70370	-	83
	50	58.1	19610	60940	-	80
	55	54.0	16990	53540	-	76
	60	49.7	14820	47590	-	72
65	45.2	12990	42690	-	68	
70	40.2	11420	38580	-	62	
75	34.6	10070	35090	-	56	
80	28.2	8890	32080	-	48	
85	19.9	7840	29400	-	36	
90 feet	20	80.4	66360	208000	-	96
	25	77.2	49920	158800	-	95
	30	73.9	39440	124700	-	94
	35	70.6	32170	99920	-	92
	40	67.2	26840	82740	-	91
	45	63.7	22700	70300	-	88
	50	60.0	19500	60870	-	86
	55	56.6	16900	53470	-	82
	60	52.4	14700	47510	-	79
	65	48.2	12890	42610	-	75
70	43.8	11330	38500	-	70	
75	39.0	9980	35010	-	64	
80	33.6	8800	32010	-	57	
85	27.4	7760	29390	-	49	
90	19.3	6830	27090	-	37	
95 feet	20	81.0	66020	208700	-	101
	25	77.9	49590	158490	-	100
	30	74.8	39110	124970	-	99
	35	71.6	31850	99710	-	98
	40	68.4	26510	82520	-	96
	45	65.1	22420	70070	-	94
	50	61.8	19190	60630	-	91
	55	58.3	16570	53230	-	88
	60	54.7	14400	47260	-	85
	65	50.9	12580	42360	-	81
70	46.9	11020	38250	-	77	
75	42.6	9670	34760	-	72	
80	37.9	8490	31750	-	66	
85	32.7	7450	29140	-	59	
90	26.6	6530	26840	-	50	
95	18.8	5700	24800	-	38	
100 feet	21	80.8	61760	196090	-	106
	25	78.5	49320	158180	-	106
	30	75.6	38840	124810	-	104
	35	72.6	31580	99530	-	103
	40	69.6	26240	82330	-	101
	45	66.5	22160	69870	-	99
	50	63.3	18930	60430	-	97
	55	60.0	16310	53020	-	94
	60	56.7	14140	47060	-	91
	65	53.2	12320	42150	-	88
70	49.5	10760	38040	-	84	
75	45.6	9410	34550	-	79	
80	41.5	8240	31540	-	74	
85	36.9	7200	28930	-	68	
90	31.9	6280	26630	-	60	
95	25.9	5450	24600	-	51	
100	18.3	4710	22780	-	39	

Load Reference Only - Crane Specific Charts